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IN THE COMPETITION
APPEAL TRIBUNAL

Case No: 1403/7/7/21

Salisbury Square House
8 Salisbury Square
London EC4Y 8AP

Tuesday 14th January 2025

Before:
Ben Tidswell
Dr William Bishop
Tim Frazer

(Sitting as a Tribunal in England and Wales)

BETWEEN:

Dr. Rachael Kent

Class Representative

v

Apple Inc. and Apple Distribution International Ltd

Defendants

A P P E A R A N C E S

Mark Hoskins KC, Tim Ward KC, Michael Armitage, Matthew Kennedy, Antonia Fitzpatrick
(Instructed by Hausfeld & Co. LLP) On behalf of Dr. Rachael Kent

Marie Demetriou KC, Brian Kennelly KC, Daniel Piccinin KC, Hugo Leith, Hollie Higgins
(Instructed by Gibson, Dunn & Crutcher UK LLP) On behalf of Apple Inc. and Apple
Distribution International Ltd

Tuesday 14 January 2025

(10.30 am)

THE CHAIRMAN: Mr Armitage?

Submissions by MR ARMITAGE (continued)

MR ARMITAGE: Good morning. Just in terms of timings, I intend to be approximately another 45 minutes on the law, I will then pass the baton back to Mr Ward for the remainder of the morning on the application of the law to facts on unfair pricing and also on the issue of the incidence pass-on.

Yesterday afternoon, I gave you the first three of the promised ten propositions in relation to the substantive law. To pick up where we left off, I had just given you my third proposition which was that the two-limb approach from *United Brands* remains the conventional tried and tested starting point for the analysis of unfair pricing. I concluded yesterday by saying that in those circumstances we were surprised to see that Apple appears to contest the applicability of the framework, or at least Limb 1 of the framework, to a consideration of unfairness in relation to its commission.

Turning to that point directly, could we look please at paragraph 160 of Apple's skeleton

1 argument. That is at {A1/5/56}. Apple says here:

2 "There is no fixed hierarchy of evidence or
3 methodologies across all unfair pricing cases.
4 However, the case law and the CMA's practice
5 indicates that, where a price is paid for an
6 intangible product, a cost-based methodology will be
7 inappropriate or inadequate."

8 Then various materials are cited including
9 Advocate General Wahl in *Latvian Copyright* and also
10 a little lower down the *Attheraces* case. I should
11 make clear immediately that Dr Kent rejects any
12 suggestion that her own methodology for the
13 assessment of unfair pricing is exclusively based on
14 consideration of the App Store's costs. The point
15 that seems to be being advanced here is not or not
16 just a complaint about the specific methodology the
17 Class Representative has employed here. It appears
18 under the heading legal principles and it is put at
19 an extremely high level of generality. We say that
20 the argument framed at that level of generality is
21 hopeless and indeed you may well have a sense of
22 groundhog day because it has already been rejected
23 by the Tribunal in the current proceedings when
24 dismissing Apple's application to strike-out summary
25 judgment at the CPO stage.

1 Could I just show you that briefly. It is at
2 bundle {I/11}. You will recall that Apple did not
3 contest certification but did seek summary dismissal
4 of the unfair pricing element of the claim only. If
5 I could just show you first Apple's submission on
6 the relevant point. That is at page 24, paragraph
7 66, {I/11/24}. Apple was arguing that the unfair
8 pricing abuse claim was fundamentally flawed. Then
9 in the final sentence:

10 "... intangible value cannot be measured
11 through a cost plus approach, which would ignore the
12 demand side benefits delivered to developers and
13 device users."

14 As we will see, Mr Holt has not, in fact, used
15 a simple cost plus approach, but in terms of the
16 legal point, we see it is put at the same level of
17 generality as the proposition in paragraph 160 of
18 Apple's skeleton. We see from the next page at
19 68(3), Apple was relying on some of the very same
20 materials in support of the proposition. Sorry, at
21 (2) we see:

22 "Costs are not a meaningful measure of the
23 economic value of intangible products ...

24 (3) Such products can be sold at prices that do
25 not need to be justified by reference to their costs

1 of production."

2 Then citing *ATR* -- that is *Attheraces*, and
3 *Latvian Copyright*.

4 CHAIRMAN: We have lost it.

5 MR ARMITAGE: Yes, 68(3). Then we will see that the
6 Tribunal rejected that argument in definitive terms,
7 if we go on to page 28, paragraph 72 we see:

8 "ATR, *Scandlines*, *Latvian Copyright* and *Albion*
9 *Water* do not, in our view, determine what the
10 correct method and approach to economic value should
11 be in a case like this. We have found those cases
12 to be of limited assistance in determining these
13 applications."

14 Then if we can go on to paragraph 77 on the
15 next page, he said that:

16 "It is clear that cost plus is a conventional
17 starting point for the *United Brands* analysis, and,
18 where it can be performed, there is no basis to
19 criticise that."

20 That is the point I was making yesterday about
21 the orthodoxy of the two-limb approach from *United*
22 *Brands*. I should say that the *CMA* specifically
23 refers to and endorses this paragraph of the
24 Tribunal's judgment in its written intervention,
25 paragraph 60, that is {A3/1/20}, just for your note.

1 Then at 79 {I/11/30}, just to see the
2 conclusion:

3 "We do not accept that there is any established
4 rule for assessing demand side factors in relation
5 to intangible products or services ... neither *ATR*
6 *Latvian Copyright* decide that and both cases turn on
7 their particular facts."

8 In our respectful submission, the argument
9 remains hopeless for the reasons given by the
10 Tribunal. In fact it goes somewhat further because
11 what we say Apple is seeking to do is to reopen a
12 legal point that has already been decided against
13 it. We say Apple should not be permitted to do
14 that, it is an abuse of the Tribunal's process. We
15 will develop that argument in closing submissions.
16 It was not dealt with in our skeleton because, of
17 course, we did not know that Apple was going to
18 resurrect the argument in its skeleton.

19 We have added, just again for your reference,
20 one recent Court of Appeal authority, which in our
21 submission helpfully summarises the relevant
22 principles on abuse of process and res judicata
23 issues. It is a case called *Orji v Nagra*. It is at
24 {AB3/53.1}, and it is paragraphs 80-84 of the
25 judgment of Nugee LJ on which we rely. As I say, we

1 will return to that in closing submissions as
2 needed.

3 THE CHAIRMAN: Are you saying that 160 in the skeleton is
4 arguing for a particular rule in relation to given
5 intangibles or are you -- because I must confess I
6 do not read it like that. In a sense, the second
7 sentence perhaps is a little unclear because it
8 talks about the cost based methodology being
9 inappropriate or inadequate. Inappropriate might
10 take you down the line you are going down, which is
11 you should not be doing it. Whereas, inadequate
12 might take you more down the line that paragraph 77
13 is aimed at, I think, which says that if you have
14 intangible -- an intangible product, you do need to
15 be careful to make sure it is properly captured when
16 you are doing the analysis, whatever that happens to
17 be. Now it seems to me that the second of those has
18 not been foreclosed unless you are going to suggest
19 otherwise. It does not immediately seem to me the
20 second of those has been foreclosed by the
21 strike-out judgment, in fact the strike-out judgment
22 was all about saying, "let us see what you deliver
23 and if it deals properly with demand side economic
24 value then it will be fine and if it does not ...

25 MR ARMITAGE: I think we will hear what Apple say, in so

1 far as it is the first of the two alternatives, in
2 so far as it is suggested that one does not look at
3 costs and one does not take that into account in
4 relation to assessment of unfairness, purely because
5 you have a case involving intangibles, we say that
6 is the legal point that is both hopeless and
7 foreclosed. As I say, we will see what Apple say, I
8 appreciate there is potential nuance. I think in
9 terms of the abuse of process aspect, it is a point
10 that struck us on seeing the way in which the point
11 was framed in the skeleton, a high level of
12 generality, as I say, but we will see how Apple puts
13 the point orally and we will pick that up as needed,
14 that aspect of matters.

15 THE CHAIRMAN: Yes, thank you.

16 MR ARMITAGE: I would now like to take you through some
17 propositions concerning the proper approach to Limb
18 1. As I said yesterday, the modern approach is to
19 confine Limb 1 to a consideration of whether prices
20 are excessive by reference to costs, leaving the
21 wider issues of fairness and economic value to be
22 addressed at the Limb 2 stage. In terms of the test
23 to be applied at the Limb 1 stage, this is my fourth
24 proposition of the promised ten, the test is simply
25 whether there is a material excess of price above

1 cost. Now, as we say in our skeleton argument at
2 paragraph 201, different adjectives have been used
3 in different cases to describe the requisite extent
4 to the excess of price above cost for Limb 1
5 purposes. Just for example, can we go to the CAT's
6 judgment on unfair pricing in *Albion Water*. If we
7 can pick that up at {AB3/10/63}. We see from the
8 heading that the Tribunal was considering the first
9 *United Brands* question: Was the first access price
10 excessive? We go over the page to paragraph 194,
11 the Tribunal says there that:

12 "Thus the first *United Brands* question requires
13 us to exercise our judgment as to whether the
14 relationship between the disputed price and the
15 relevant costs is excessive or not."

16 In terms of what that involved, if we go over
17 the page again to paragraph 199, right at the
18 bottom:

19 "The term 'excessive' is an ordinary English
20 word, which may be applied in accordance with its
21 ordinary meaning, having regard to the overall
22 purpose of the Chapter II prohibition."

23 Then perhaps if you might just read on to the
24 end of the paragraph. So as the Tribunal says
25 there to satisfy Limb 1 there must be a material

1 excessive price above costs. We say that is not a
2 particularly high bar. Importantly, it does not
3 involve looking at any detail, at any broader
4 evaluative factors concerning the reason for the
5 excess. We will see that that is the subject of
6 Limb 2. The question, as the Tribunal frames it
7 here, is whether the difference is sufficiently
8 large to be excessive. In this case, the Tribunal
9 regarded an excess of 46.8 per cent of price above
10 cost to be excessive for the purposes of Limb 1.
11 More recently, in *Le Patourel* the Tribunal said that
12 what needed to be shown was a significant and
13 persistent excess of price above costs. Just to
14 give you the reference that is paragraph 54 of *Le*
15 *Patourel*, {AB3/62/19}. We say that is in substance
16 the same relatively modest standard as in *Albion*
17 *Water No.2*. In *Le Patourel*, in fact the Tribunal
18 said that it would regard any excess of 20 per cent
19 or more of price above cost to be significant. The
20 reference for that again is paragraph 926 of *Le*
21 *Patourel*, {AB3/62/214}.

22 In terms of the approach to ascertaining the
23 dominant firm's costs under Limb 1, we say that the
24 case law is clear, and this is my fifth proposition,
25 that the Tribunal is entitled to use its judgment in

1 making appropriate allocations of indirect and
2 common costs to the product under investigation. I
3 take that proposition from *Albion Water* again. If
4 we can go the page 33 within the same tab. At
5 paragraph 88, the Tribunal remarks that:

6 "No consensus has emerged (in the cases) as to
7 what, if any, is the most appropriate method of
8 measuring cost in excessive pricing cases."

9 It refers to the statement of the Court of
10 Justice in *United Brands* that one is looking at the
11 "costs actually incurred" but says that:

12 "There is no rule of law as to how that is to
13 be done: it is a matter of fact, accounting
14 technique and economic assessment."

15 The Tribunal elsewhere in the same judgment
16 refers to the need to ascertain the costs that are
17 reasonably attributable to the product or service
18 concerned. You see that for example at paragraph
19 198 of the judgment.

20 That will, of course, include an appropriate
21 share of indirect costs or overheads, as well as a
22 reasonable return on those costs, but as I say here
23 the Tribunal emphasised that there is no rule of law
24 as to how precisely that is to be done. Of course
25 the fact that the exercise of allocating costs

1 requires the Tribunal to exercise a valiative
2 judgment is emphatically not a reason for refraining
3 from doing the exercise. As the Tribunal knows, the
4 CMA regularly engages in cost allocation
5 methodologies in these cases. It has been a
6 practical necessity in all of the pharmaceutical
7 cases, where the companies under investigation
8 typically do not allocate indirect costs to the
9 medicines that are said to be excessively priced.
10 It was also a necessity for the Tribunal in *Le*
11 *Patourel*, where BT had not put forward evidence as
12 to the extent of common costs that were attributable
13 to the fixed point services that were said to be
14 excessively priced. There are various methods, of
15 course, that can be used to allocate indirect costs
16 and there are no fixed rules for that. In the
17 present case, as we will see, the Class
18 Representative's expert accountant Mr Dudney has
19 used Apple's own internal cost allocation
20 methodologies, in order to estimate the
21 profitability of the App Store. Mr Ward will come
22 to that.

23 Then in terms of the appropriate methodology
24 for comparing prices and costs at the Limb 1 stage,
25 in many of these cases the approach taken is to

ascertain the costs of producing a unit of the product under investigation, including an appropriate allocation of common costs and a reasonable rate of return, and then comparing that cost plus metric against the actual selling price. In the present case, as Mr Ward will show you, Messrs Dudney and Holt for the CR have adopted a broader analysis which involves estimating the App Store's overall profitability using a return on capital employed or ROCE metric, and then comparing the ROCE against the App Store's weighted average cost of capital for each year of the claim period.

My sixth proposition is that this ROCE WACC comparative approach is a well-established method for assessing profitability, both generally and in relation to Limb 1 specifically. I can take this conveniently from paragraph 175 of our skeleton, {A1/4/53} if you could turn that up, please.

Beginning on the third line:

"Mr Holt's approach to Limb 1 is to evaluate the App Store's overall profitability, using a ROCE metric. ROCE was described by Green LJ in *Phenytoin* CA as an 'appropriate benchmark' for assessing whether a dominant firm's profit margin is excessive under Limb 1. It also reflects the well-established

1 standard approach of the *CMA* ..."

2 It is the approach that has been used in a
3 number of the pharmaceutical cases. As Mr Ward will
4 show you, although not an abuse of dominance
5 assessment specifically, ROCE WACC was used by the
6 *CMA* to assess Apple's profitability and its Mobile
7 Ecosystems Report, in this specific context of
8 considering whether the App Store commission is set
9 at above competitive levels.

10 I would like then to move to Limb 2. Before
11 doing so, can I just pick up an important point
12 about the interaction between the two limbs of the
13 tests. In *Phenytoin*, Green LJ emphasised that there
14 is no fixed rule about how and where economic value
15 is to be taken into account in the context of the
16 two-limb *United Brands* framework. We do not need to
17 turn it up but the reference for that is paragraph
18 172 of *Phenytoin*, Court of Appeal, {AB3/37/54}.

19 That said, as I think I mentioned around page
20 151 of yesterday's transcript, in *Le Patourel* the
21 Tribunal observed that it found it helpful that the
22 parties had taken economic value and other
23 evaluative issues into account under Limb 2,
24 confining Limb 1 to what it described as the more
25 linear and somewhat more mechanistic process of

1 identifying whether prices are significantly and
2 persistently above costs. Again, I do not think we
3 need to turn it up at this stage but the reference
4 for that is paragraphs 52 and 53 of *Le Patourel*,
5 {AB3/62/19}. As we will see this is precisely the
6 approach to economic value that Mr Holt has taken on
7 behalf of the class representative in this case.
8 Turning then to Limb 2, the question here is whether
9 prices that are significantly an excessive cost, as
10 identified under Limb 1, are unfair, either in
11 themselves or in comparison to other products. In
12 relation to the overall approach to the question of
13 unfairness under Limb 2, could we please go back to
14 paragraph 97 of *Phenytoin*, Court of Appeal,
15 {AB3/37/31}. If I could direct you to subparagraph
16 (v), this is the list of the general conclusions
17 from the case law that Green LJ identifies. He is
18 referring here to a cost plus test being applied
19 specifically, determining whether the margin is
20 excessive. That is obviously a Limb 1 question and
21 this is in fact where he refers to ROCE as one of
22 the appropriate possible benchmarks. He says in the
23 final sentence:

24 "When that is performed, and if the price
25 exceeds the selected benchmark, the authority should

1 then compare the price charged against any other
2 factors which might otherwise serve to justify the
3 price charged as fair and not abusive."

4 That is the overall approach. It is important
5 to be clear that that is not a question of objective
6 justification such as Apple seeks to argue in
7 relation to the exclusionary abuse claim. As we
8 have noted in our skeleton argument at paragraph
9 212, Apple has not sought to argue objective
10 justification in relation to the unfair pricing
11 claim, in other words arguing that a price that is
12 unfair prima facie under *United Brands* is,
13 nevertheless, objectively justified by some other
14 factor.

15 In relation to Limb 2, particularly when asking
16 whether prices are unfair in themselves, what is
17 required is an enquiry into the reasons why the
18 dominant firm has been able to sustain a price that
19 is materially in excess of cost. Among other
20 things, are they legitimate, procompetitive reasons
21 or do they, on the other hand, reflect the
22 exploitation of market power. That is the point
23 that also underpins the Tribunal's identification of
24 the three cases or scenarios in the *Hydrocortisone*
25 case, also picked up in the *Phenytoin* judgment, just

1 before Christmas. I do not propose to go into the
2 case 123 rubric, in any detail in opening. Mr Holt,
3 the CR's expert who is dealing with unfair pricing
4 issues, explicitly addresses that framework at Holt
5 3, section 6.3. For your note that is {C2/10/84}.
6 Somewhat curiously, Apple says at paragraph 165 of
7 its skeleton that the case 123 rubric is
8 inapplicable to the present case. In so far as that
9 rests on the proposition we discussed earlier about
10 the particular rules to be applied in cases
11 involving intangibles, we say that is misconceived
12 for the reasons already given. But it may be we
13 return to *Hydrocortisone* on that point in closing.

14 In terms of the evidence that is of potential
15 relevance for the question of whether prices are
16 unfair in themselves, we should still have *Phenytoin*
17 up on the screen, subparagraph (vi), his Lordship
18 refers to "competition authority", for which we can
19 read in this case the Tribunal:

20 "May look at a range of relevant factors" --
21 and then some factors are given, and the important
22 point -- "there is no fixed list of categories
23 relevant to unfairness" -- so no fixed list.

24 I would just like to briefly pick up two
25 important factors which we say emerge from a

1 consideration of the case law. The first of those,
2 and it is my seventh of ten propositions, is that
3 the size of the excess identified under Limb 1 is
4 relevant to the question of whether prices in
5 themselves are unfair under Limb 2. That is a point
6 that is made in *Le Patourel*, in terms, at paragraph
7 56. We do not need to turn it up, but it is
8 {AB3/62/20}. The Tribunal says that the "size of the
9 excess can be a factor pointing strongly towards
10 unfairness", although there is no presumption, of
11 course, that an excessive price under Limb 1 is
12 unfair.

13 If I can also briefly show you what the
14 Commission said about this point in the *Aspen* case,
15 that is a Commitments decision from 2021 concerning
16 the pricing of various cancer medicines in various
17 EU member states. If we can go please to
18 {AB6/19.1/33}. We have recital 163. It repeats the
19 point that Limb 2 analysis:

20 "Has the purpose of examining whether there may
21 be legitimate reasons underlying the excessive
22 profits identified under Limb 1, in particular
23 reasons not yet reflected in the cost analysis
24 in ..."

25 It gives the examples of superior efficiencies,

1 innovation and so on. But then see the penultimate
2 sentence:

3 "It is important to note, however, that even
4 those reasons do not legitimise the charging of a
5 price at any high level."

6 Now in the present case, as Mr Ward is going to
7 show you, the Class Representative does not contend
8 that any returns in excess of Apple's WACC are
9 unfair. But as the Commission makes clear here in
10 the *Aspen's* decision, the existence of some factors
11 justifying some degree of excess of price above cost
12 do not confer unrestrained pricing freedom on the
13 dominant firm.

14 The case law reveals, we say, another important
15 factor to be taken into account at the Limb 2 stage.
16 This is my eighth proposition, assessing whether a
17 price is unfair in itself involves considering
18 whether the relevant markets are capable of
19 functioning in a manner likely to produce a
20 reasonable relationship between price and economic
21 value. That is something that will depend on a
22 consideration of the market context. To see this,
23 could we go back please to *Albion Water No.2*, pick
24 that up at {AB3/10/69}. We see at the bottom of the
25 page, paragraph 213:

1 "Contrary to Dwr Cymru's contention ... factors
2 that establish a dominant position, notable barriers
3 to entry, may well be relevant to determining
4 whether a price is so high as to amount to an abuse
5 by an undertaking of its dominant position. This is
6 particularly true in excessive pricing cases, in
7 which it is important to distinguish excessive
8 prices shielded from effective competitive pressure
9 from temporarily high prices that are the subject
10 of normal market forces in a competitive market."

11 Then if we can move forward within the
12 authority, please, to paragraph 266, which is at
13 {AB3/10/86}. The Tribunal says that:

14 "When assessing the relationship between the
15 disputed price and economic value of a service, and
16 thus the potential unfairness of a price, we must
17 take into account the competitive conditions and any
18 related abusive conduct ..."

19 Over the page at paragraph 269, the Tribunal
20 identifies some factors that were relevant in that
21 case, market share of 100 per cent on the relevant
22 market, together with the existence of significant
23 barriers to entry. As Mr Hoskins has explained, we
24 say that is also the position in the present case.
25 Then at paragraph 270, "it follows that the relevant

1 market was clearly not capable of functioning in a
2 manner that produced, or was likely to produce a
3 reasonable relationship between [...] price and
4 [...] economic value". Again, we would respectfully
5 adopt that conclusion in the present case. There is
6 a link here with my submissions yesterday on the
7 willingness to pay fallacy. As I said yesterday,
8 that consists in confusing the price that is
9 actually paid by the consumers under conditions of
10 insufficiently effective competition with the
11 economic value of the products in question. The
12 point the Tribunal is making here in *Albion Water* is
13 that depending on the facts, the competitive
14 conditions on the relevant market may be such that
15 it is simply not capable of producing prices that
16 bear a reasonable relation to the economic value of
17 the product concerned.

18 Finally on the substantive law, I would like to
19 say something please about comparators. If we could
20 go back to *Phenytoin*, Court of Appeal, at paragraph
21 172, that is {AB3/37/54}. Something like eight or
22 nine lines down, Green LJ emphasises that the prices
23 charged in relevant, comparator, markets which were
24 effectively competitive, may be capable of acting as
25 proxy evidence, as he puts it, of the economic

1 value, in that case of the benefit derived by
2 patients from the drugs in question.

3 We know that *United Brands* Limb 2 refers to
4 prices being unfair either in themselves or when
5 compared with competing products. The
6 interrelationship between those two aspects of Limb
7 2 was clarified by the Court of Appeal in *Phenytoin*.
8 Among other things the Court of Appeal confirmed and
9 this is my ninth proposition of ten, that the two
10 elements of Limb 2 are alternative rather than
11 cumulative requirements. That is actually to be
12 seen most clearly from the judgment of the
13 Chancellor. I think I will just give you the
14 references, it is {AB3/37/74}, paragraphs 257-260.
15 So alternative rather than cumulative requirements.

16 Now, *Albion Water*, for example, is a case in
17 which no meaningful comparator analysis was possible
18 but the prices were still held to be unfair in
19 themselves for the purposes of *United Brands* Limb 2.
20 Obviously where comparators are put forward by
21 either side, it will be necessary and important to
22 consider them as part of your overall enquiry into
23 unfairness, but as a legal requirement, as I say,
24 they are alternative and not cumulative. On the
25 other hand, despite the reference in *United Brands*

1 to competing products, it is not necessary that
2 comparators must be products within the same market,
3 that is my tenth and final proposition on the
4 substantive law.

5 The correct approach is instead as set out by
6 the Tribunal in the *Hydrocortisone* case, I will
7 briefly show you that it is at {AB3/57/164}. That os
8 at paragraph 331. You will see at subparagraph (1):

9 "Comparators are of particular importance, even
10 where they may not be clear or compelling.
11 Comparators can include" -- among other things
12 "comparators can include comparators on different
13 markets".

14 As the Tribunal says in the final sentence of
15 subparagraph (1):

16 "In all cases, the critical question for the
17 court is whether anything probative can be derived
18 from the comparator in question."

19 That completes, I think, my tour of the
20 substantive law and the ten propositions. Before
21 handing the baton to Mr Ward, I would like, if I
22 may, to make a few short points about the correct
23 approach to the unfair pricing evidence taken from
24 the case law.

25 These points concern essentially the degree of

1 precision that can be appropriately required of the
2 class representative in relation to the unfair
3 pricing case in particular. I will say at the
4 outset that Apple took no issue with these points in
5 their skeleton arguments.

6 For the first point could we turn up please the
7 CPO decision in the Gutmann case, {AB3/45/21},
8 paragraph 38. Sorry it should be page 29
9 {AB3/45/29}, I think. I think I said paragraph 38
10 but it should be paragraph 68. This was a judgment
11 at the CPO stage, but we see four lines down the
12 paragraph:

13 "To establish that conduct is an abuse does not
14 require the identification of a counterfactual in
15 specific detail. For example" -- and then the
16 examples initially given is exclusive dealing.

17 Then the seconds sentence is the one I rely
18 upon here:

19 "In an unfair pricing case, an excessive price
20 can be shown to constitute an abuse without
21 specifying precisely what would be the non-excessive
22 price."

23 The Tribunal will have seen that Mr Holt has
24 indeed advanced the detailed counterfactual for the
25 unfair pricing claim. But in terms of establishing

1 whether there is an abuse, it is not strictly
2 necessary, as the Tribunal makes the point here, for
3 you to ascertain what the price would have been
4 absent unfairness.

5 Secondly, in relation to the concept of the
6 broad axe, Mr Hoskins has already addressed you on
7 this, but I just want to make a couple of short
8 points about how it relates to unfair pricing. Once
9 the Tribunal is satisfied, if the Tribunal is
10 satisfied, I should say, that the price in this case
11 is unfair, the tort is perfected, the element of
12 harm is present. The amount by which the prices are
13 unfair, in other words a question of overcharge in
14 relation to the unfair pricing claim, is a matter
15 that goes directly to quantum. In relation to
16 quantum issues, as Mr Hoskins said, the broad axe
17 applies. The Tribunal must do the best it can with
18 the available evidence. We make the point though
19 that the broad axe applies whether questions of
20 overcharge are strictly considered as a matter of
21 quantum or liability. Could we just take finally
22 the EPE to Gutmann, Court of Appeal, {AB3/49/15}. I
23 think it is a little further along in the clip. It
24 may be 17. Yes, sorry it is the wrong reference, it
25 is paragraph 59. Let me just find it. "The axe and

1 liability", exactly. We see here that the
2 appellants argued that the broad axe did not apply
3 to liability issues and that there was no authority
4 establishing that it did. The Court of Appeal says:

5 "This misunderstands the purpose of the axe.
6 It is not so much a substantive principle of law, as
7 a description of a well-established judicial
8 practice whereby judges eschew artificial demands
9 for precision and the production of comprehensive
10 evidence on all issues and instead use their
11 forensic skills to do the best they can." Then the
12 Tribunal continues.

13 Then just towards the bottom of the page, I
14 think five lines up:

15 "The duty of the judge to do the best possible
16 with the evidence available applies as equally to
17 questions of causation and loss (liability) as it
18 does to other issues relating to quantum."

19 As I say, we made these points in our skeleton.
20 Apple did not dispute them, save in one respect.
21 Apple says at paragraph 185 of its skeleton that "if
22 an analysis [...] is economically meaningless or
23 legally irrelevant, the broad axe cannot improve
24 it". We agree with that. If an analysis is
25 meaningless or legally irrelevant, then it will not

1 be able to establish that a price is unfair. The
2 point there is that once unfairness is established,
3 which I think necessarily entails that the analysis
4 underlying that is not meaningless or irrelevant,
5 the broad axe comes into play in relation to
6 quantum, but also the broad axe can be used along
7 the way in order to help fill any lacunae in the
8 evidence, the Tribunal actually makes the point
9 about lacunae at paragraph 58 in the same judgment.

10 THE CHAIRMAN: So you are saying that there is a
11 different exercise for determining the abuse over
12 determining quantum, but I think Mr Hoskins was
13 making that submission for a reason, which is that
14 once we get past abuse and then to quantum, we
15 should be looking at it in a different way, but you
16 are saying that does not stop us applying our
17 judgment to the available evidence in the abuse
18 along the lines of what is said here in 59.

19 Is that the submission?

20 MR ARMITAGE: Yes, yes.

21 THE CHAIRMAN: So there remains, I think you are still
22 saying there remains a difference in the way we
23 should be looking at between abuse and determining
24 quantum.

25 MR ARMITAGE: Yes.

1 THE CHAIRMAN: But there are some similarities in the
2 approach to the procedural evidence.

3 MR ARMITAGE: The evidence as respect to the application
4 of the broad axe. In particular, we say the broad
5 axe can be used to help fill lacunae in the evidence
6 where those lacunae are the responsibility of the
7 Defendants.

8 That leads me to my final point which is on the
9 burden of proof. Could we please turn up paragraph
10 189 of Apple's skeleton, {A1/5/64}.

11 THE CHAIRMAN: Sorry, just give the paragraph reference
12 again.

13 MR ARMITAGE: 189. There is a suggestion that that
14 Dr Kent has made an argument that is wrong in law:

15 "The party alleging an abuse of dominance
16 (whether a competition authority or a claimant)
17 bears the burden of establishing its elements."

18 To be clear we entirely accept that. Dr Kent
19 bears the overall legal burden of establishing an
20 unfair price. She has never suggested otherwise.

21 On the other hand, though, it is important to
22 emphasise that where Apple has sought to rely on
23 particular factors in order to justify its high
24 prices, for example the value of its intellectual
25 property, Apple bears an evidential burden in

1 respect of those matters. We say the position here
2 is akin to the questions that arise where pass-on is
3 raised as a defence in competition claims.

4 For that can I show you very briefly the
5 Supreme Court's judgment in *Sainsbury's*, which
6 Mr Hoskins took you to for a different purpose,
7 {AB3/38/73}. This is the well-known discussion of
8 the questions of burden of proof that arise where a
9 defendant in an overcharge case pleads that a
10 claimant has sought to mitigate an unlawful
11 overcharge, for example, by raising prices to their
12 own customers.

13 In paragraph 216, I am sorry I cannot see that
14 on the page, maybe we can zoom out a little. The
15 Supreme Court finds that:

16 ... The legal burden in relation to pass-on lies
17 on the operators of the schemes to establish that
18 the merchants have recovered the costs incurred in
19 the merchant services charge. But once the
20 Defendants have raised the issue of mitigation in
21 the form of pass-on, there is a heavy evidential
22 burden on the merchants to provide evidence as to
23 how they have dealt with the recover of the costs in
24 their business. ...

25 The point here:

1 "Most of the relevant information about what a
2 merchant actually has done to cover its costs [...] will be exclusively in the hands of the merchant
3 itself."
4

5 As we will see, there is a parallel in Apple's
6 position in relation to aspects of the unfair
7 pricing case.

8 THE CHAIRMAN: So the relationship between in the
9 analysis of abuse, the relationship between the
10 burden of proof and the broad axe, you say you
11 accept that you have got the burden of proof.

12 MR ARMITAGE: We do.

13 THE CHAIRMAN: So if we are dealing with the question of
14 allocation costs and that proves to be difficult for
15 whatever reason, you say that you have to meet the
16 burden of proof. You are also saying, I think, that
17 there is a limit to how far -- if you can only get
18 so far, then we can fill the gaps. Is that the
19 point?

20 MR ARMITAGE: Yes, yes.

21 THE CHAIRMAN: It is a slightly uncomfortable, and it is
22 not really addressed in paragraph 59 of Gutmann, in
23 the Court of Appeal, because it is a slightly
24 uncomfortable relationship, is it not, because it
25 could be seen as eroding the burden of proof for you

1 to turn up and say, "There's no need for a
2 particular degree of precision", and proving your
3 case in relation to what is essentially a financial
4 matter on abuse.

5 MR ARMITAGE: Yes. As I say, we rely in particular on
6 aspects of the case in relation to which evidence is
7 exclusively or primarily in Apple's hands, in so far
8 as issues of particular cost allocation or aspects
9 of economic value arise. We do not demur from the
10 proposition that we bear the overall burden of
11 proof. It is just in so far as there are aspects
12 along the way, the Tribunal ought not to insist on
13 unreasonable precision at that stage either. But
14 obviously the broad axe is a matter that has
15 typically been relied on in relation to issues of
16 quantum. We say that applies here too when one is
17 looking at the overcharge.

18 THE CHAIRMAN: I can see the question is quite different
19 if the burden is on the other foot because that is
20 consistent with the problem that you have got, that
21 you do not know the answer, and if they are not
22 going to tell you the answer, you have to do your
23 best to paint the picture for us. Then if the gaps
24 are not filled in, then we should feel comfortable
25 to do our best with that.

1 MR ARMITAGE: Yes.

2 THE CHAIRMAN: That is a bit different, I think -- I am
3 not sure this really matters terribly because I am
4 not sure, I hope this is not going to turn out to be
5 a burden of proof case, but it is a little bit
6 different from saying where you have the burden of
7 proof and you can only get so far, the broad axe can
8 fill the gap that might otherwise amount to the
9 burden, if one can put it that way.

10 MR ARMITAGE: We are talking particularly about
11 particular points where Apple puts forward some
12 particular factor, the evidence for which is
13 obviously within its control. So as I say, the
14 value to which may be associated with intellectual
15 property may be an example. It is in that regard
16 that the broad axe may come into play on issues of
17 liability. As I say, there is also a separate
18 analysis in relation to quantum where the broad axe
19 is more conventionally applied.

20 This is just an analogy here with the issues of
21 pass-on that arise in these MSC interchange cases.
22 It is, we say, a helpful instructive analogy but
23 that is as far as we take it.

24 THE CHAIRMAN: Thank you.

25 MR ARMITAGE: As I say, unless there are any other

1 questions, I will pass the baton back to Mr Ward.

2 THE CHAIRMAN: Thank you, Mr Armitage.

3 Submissions by MR WARD

4 MR WARD: If you can just give us a moment to reshuffle,
5 sir. Thank you, sir. I am going to turn to the
6 application of the law to the facts. Our case is
7 based on an entirely orthodox application of that
8 law. Step one is whether the price is excessive.
9 As I showed you yesterday, Mr Holt has relied upon a
10 profitability analysis carried out by Mr Dudney, our
11 forensic accountant. It is not just a cost price
12 analysis, even though there are times when reading
13 Apple's skeleton that you might think it was.

14 Then, at step two, Mr Holt has considered both
15 limbs of the *United Brands* test, unfair in itself
16 and by reference to comparators. What I am going
17 to do is deal with each limb in turn. If I may just
18 make one point clear at the outset, if it is not
19 already, our unfair pricing case is not
20 disaggregated between the two separate markets we
21 allege. The reason for that is simply that the data
22 does not allow it and the headline commission price
23 of course applies to both. Just to give you some
24 references for that rather than turning them up,
25 Mr Holt's third report, paragraph 131, {C/10/59},

1 paragraph 205 {C/10/80} and 226, {C/10/87}. So it
2 is our case that the prices charged in both markets
3 are unfair.

4 Now, our case is strongly consistent with the
5 CMA's mobile ecosystem report. It considered the
6 app store's profitability and it carried out a ROCE
7 WACC comparison for Apple as a whole and for its
8 device business, but what is important is that it
9 rejected a number of the core arguments Apple is
10 advancing before the Tribunal. The CMA was
11 undeterred by those arguments.

12 I would like to start by showing you what it
13 concluded, which is AB6, tab 25, page 140 it is
14 paragraph 210 {AB6/25/140}:

15 "Finally, we have found that Apple's and
16 Google's substantial and entrenched market power in
17 native app distribution is reflected in the
18 commission rate they arrange app developers for
19 digital purchases which is set above the competitive
20 level. The effective rate of commission has stayed
21 between 25% and 30% over the years for both Apple
22 and Google. This allows them to make substantial
23 and growing profits (with high margins) from their
24 app stores which have not been competed away by
25 other distribution channels, such as sideloading or

1 alternative app stores. If other distribution
2 channels were effective constraints on Apple's and
3 Google's app stores, we would expect to see lower
4 commissions and/or increased quality."

5 In so far as this is talking about Apple, it
6 is, largely speaking, a fair summary of our case.

7 The basis of this was a detailed profitability
8 analysis that was in annex C to the CMA's report. I
9 would like to take you to some of that.

10 If we could please turn to {AB6/28/7}, we see
11 the start of that at page 7, please, we start with
12 the App Store. It notes at paragraph 22, "the App
13 Store represents the largest segment within Apple's
14 service business, comprising between 20-40% of total
15 services revenue. In the UK alone it generated
16 400-600 million revenue". Just to note for a point
17 that will come up later for revenue the App Store
18 refers to net billings, the amount it charges as
19 commission. Then it says at paragraph 23 we can see
20 net revenue from "2018 to 2021, highlighting strong
21 growth, [...] net revenue increased by approximately
22 [80-100]% on a global basis", then over the page
23 paragraph 24:

24 "We estimate that the App Store's gross profit
25 margins averaged [75-100]% over the period 2018 to

1 2021.

2 25. We also considered Apple's operating
3 margin for the App Store. Operating margins can
4 provide a more complete picture of a product or
5 service's profitability than gross margin because
6 they account for operating expenses."

7 Then Apple made a submission that is already, I
8 am sure familiar, in this case. Apple submitted
9 that any profit and loss documents prepared on an ad
10 hoc basis with respect to the App Store are not
11 maintained as profit and loss statements. According
12 to Apple, such ad hoc exercises would not account
13 for all costs attributed.

14 Then at 27:

15 "We have seen examples of reports of the
16 profitability of individual segments. We also note
17 that in the recent *Epic Game Inc vs Apple Inc*
18 litigation, the *United States* district court found
19 that Apple calculated a fully burdened operating
20 margin for the App Store as part of its normal
21 business operations and that this calculation was
22 largely consistent with *Epic's* expert witness's
23 estimates of operating margins to be over 75% for
24 both fiscal years."

25 Now, at 28 we see exactly the argument that

1 Apple is running in this case:

2 "Apple told us that the profitability of the
3 App Store cannot be meaning any assessed on a
4 stand-alone basis. It told us the presence of
5 substantial common costs mean it is not possible to
6 allocate costs in a reliable and economically
7 meaningful manner."

8 The CMA address this in a way that we would
9 respectfully adopt. It says at 29:

10 "We agree that the presence of common costs
11 complicates the assessment and allocation methods
12 can be arbitrary. However, this does not
13 necessarily undermine the conclusions we can draw
14 from the results, especially if they are found to be
15 insensitive to the allocation method."

16 Then it talked about really Apple's, if you
17 like, exceptionalism. It says:

18 "Additionally, whilst we agree that
19 interdependencies exist in Apple's integrated model,
20 they also exist across ecosystems (and supply
21 chains) which are not vertically integrated. It is
22 normal for businesses and investors to assess the
23 profitability of firms which operate in different
24 markets.

25 Furthermore, it is not clear from the evidence

1 whether or not Apple operates on the basis of
2 analysing the profitability of separate business
3 units. Whilst Apple said that it takes a
4 whole-company approach, we have seen examples of
5 reports of the profitable of individual segments."

6 Then in footnote 26, please:

7 "As noted above, in the recent *Epic Games Inc*
8 vs Apple Inc litigation, the *United States* district
9 court also found that Apple calculated a fully
10 burdened operating margin for the App Store as part
11 of its normal business operations."

12 Just the reference for that in the *Epic*
13 judgment is {AB5/7/44}. In distinction from the
14 point Mr Hoskins was making yesterday that does not
15 depend on any esoteric part of features of
16 *United States* law.

17 So if we please could turn on to page 11 of the
18 *CMA, Mobile Ecosystems Market Study Final Report*,
19 {AB6/28/11}, we will see what the *CMA* concluded, at
20 38:

21 "Even if the 30% commission was competitive
22 when the iPhone was launched, it does not
23 necessarily follow that the same commission rate
24 over a decade later and in a mature market should
25 still be treated as a competitive benchmark.

1 Further, at the time of entry the iPhone and the App
2 Store were very innovative products compared to
3 other mobile devices and innovative products are
4 generally able to charge a higher price even in the
5 face of competition. Over time we would expect
6 prices to reduce as competitors catch-up and the
7 product becomes less of an innovation.

8 In summary, we find that the App Store was
9 highly profitable on any reasonable measure of gross
10 or operating margins."

11 But then it says importantly:

12 "Whilst this does not in itself demonstrate
13 that prices are too high, it suggests that, if there
14 were more competition, we would expect this to
15 impact prices, and that the level of the commission
16 and operating costs [sic] might fall over time to a
17 greater extent than it has to date.

18 The scale of the operating profits associated
19 with the App Store should also be seen in the
20 context of Apple's overall return on capital
21 invested. Apple needs to earn sufficient returns to
22 cover its investment into its mobile ecosystem from
23 a combination of its mobile devices revenues and the
24 revenues from the associated services businesses.
25 We consider Apple's return on capital in the

1 following section."

2 Then it goes on to do a ROCE analysis on the
3 whole of Apple. We see in 41:

4 "As set out in our Guidelines ... we normally
5 measure profitable using ... Return on Capital
6 Employed", and then it explains four lines down:

7 "In a competitive market we would expect firms
8 to 'earn no more than a "normal" rate of profit', at
9 least on an average over time. ROCE is calculated
10 by dividing earnings before interest and tax (EBIT)
11 by the value of capital."

12 In fact that is exactly what Mr Dudney has
13 done. It says:

14 "ROCE is a good measure to test where profits
15 for a particular firm or sector are high because it
16 can be compared against an objective benchmark"
17 namely the WACC.

18 Then at 43:

19 "Another way of looking at this is that while
20 all companies need to earn positive margins, margins
21 themselves need to be considered alongside other
22 measures in understanding whether the market is
23 working well: Some sectors with high asset
24 investment and low operating costs will tend to have
25 high margins," which "would not necessarily [mean]

1 high economic profitability.

2 A finding that ROCE is higher than the WACC is
3 not in itself indicative of a competition problem.
4 A firm that innovates and gains a competitive
5 advantage may earn higher ROCE for the period that
6 it is able to sustain that competitive advantage.
7 In a market characterised by effective competition,
8 any excess returns above the WACC would then be
9 expected to be eroded over time, as competitors
10 would see an opportunity to enter and earn high
11 returns on capital. However, our Guidelines indicate
12 that a finding that 'profitability of firms which
13 represent a substantial part of the market has
14 exceeded the cost of capital over a sustained period
15 could be an indication of limitations in the
16 competitive process'."

17 That is a point which you will have seen in our
18 evidence already and I am going to return to this
19 morning. I also just want to draw attention to
20 paragraph 46, which is the *CMA* here acknowledges a
21 point that Apple make much of in this litigation:

22 "Our guidelines also set out that, in
23 industries with a relatively low level of intangible
24 assets, such as service and knowledge-based
25 industries, the book value of capital employed may

1 bear little relationship to the economic value
2 because of the presence of significant intangible
3 assets. In digital markets, this is particularly
4 the case."

5 Over the page you will see:

6 "We have considered the need to include
7 intangible assets in the form of Apple's R&D [...]
8 asset base below."

9 In fact, what happens is that it concludes that
10 this makes no difference. It also performs a
11 sensitivities on Apple's ROCE and so forth. I want
12 to then go to page 17, please, paragraph 64, where
13 Apple makes a point that is indeed made in this
14 litigation:

15 "Apple told us that any analysis that relies on
16 operating expenses at the product level, such as
17 operating margin, are entirely driven by the
18 criteria [...] for the allocation of [...]
19 expenses."

20 I am so sorry I have come to the wrong
21 paragraph. I was going to point out here that on
22 this page there is a ROCE of Apple's device business
23 which is treated separately from the whole Apple.
24 Sorry I have just slightly lost my place. I was
25 going to come to page 23. Thank you, paragraph 87:

1 "Apple further submitted that our levels of
2 profitability are unrealistically high with the
3 volatility pointing to the measure being flawed and
4 that due to the difficulties estimating the ROCE
5 reliably, comparisons between ROCE and WACC are not
6 meaningful. Moreover, Apple disputed the relevance
7 of a ROCE vs WACC ... in innovative technology
8 markets."

9 That is exactly the submission that Apple makes
10 in this case and the CMA rejected it. Overall it
11 concluded that, if we go to page 26, first bullet
12 point at the top of the page:

13 "Apple's profitability, when measured as a
14 return on capital, is high, at over 100% ROCE per
15 annum for Apple even when adopting cautious
16 sensitivity analysis. If Apple's devices business
17 was considered as a stand-alone business, and all
18 the assets of the integrated devices and services
19 business were allocated ... the standalone ... would
20 still earn well above any normal level of ROCE. ...

21 We estimate that this high return combined with
22 additional margins from services ... means Apple was
23 able to earn at least £2 billion of profits in 2021
24 from their UK mobile business over and above what
25 was required to sufficiently reward investors with a

1 fair return. These profits would be expected to
2 decrease if Apple's UK mobile business faced greater
3 competition, either through lower prices or greater
4 investment in quality."

5 I have taken some time with that because
6 actually what you see there is a prefiguring of much
7 of the argument you are going to hear from Apple on
8 the excessive pricing case and it was rejected by
9 the *CMA*. Of course the *CMA* was not doing an
10 excessive pricing analysis, it was a market study,
11 but it had no difficulty with precisely the kind of
12 points that are prayed in aid by Apple here.

13 Having done that I want to start with WACC. As
14 far as we can tell, there is no issue about the
15 correct measure of WACC. Mr Holt used WACC for the
16 whole of Apple because there was not sufficient data
17 to calculate an App Store only WACC. Just for your
18 note, that is Mr Holt's third report, {C2/10/71}
19 paragraph 169. There has been one small adjustment
20 in Apple's favour by Mr Holt following the joint
21 expert process, essentially accepting that the ROCE
22 and WACC figures should be both on the same tax
23 basis, it slightly bumps up the WACC. The
24 arithmetic I think is agreed with Gibson Dunn and
25 there either is or soon will be a letter in the

1 bundle setting out the difference.

2 THE CHAIRMAN: I have seen that.

3 MR WARD: I am sorry I do not have the reference.

4 Obviously it makes no difference whatsoever to our
5 submissions, given the disparity between the ROCE
6 and the WACC.

7 I do want to address one point in Apple's
8 skeleton about Mr Holt's analysis and this is
9 {A1/5/62}, paragraph 182. You will see it says
10 correctly in the first sentence of 182:

11 "Mr Holt makes use of Mr Dudney's profitability
12 analysis in order to find that the commission is
13 excessive, by comparing it to Apple's WACC.
14 However, Mr Holt also accepts that the WACC may not
15 be an appropriate benchmark where the product being
16 supplied is innovative."

17 The reference given the Holt 3/145. I would
18 like to show you what Mr Holt actually said and it
19 is as the citation in the skeleton says, it is
20 {C2/10/63}. You will see at paragraph 143 Mr Holt
21 explains what ROCE and WACC are, but then at 144 he
22 quotes competition guidance, Competition Commission
23 guidance:

24 "If a company's ROCE is significantly and
25 persistently higher than its WACC, this shows that

1 the business is making significantly more returns
2 than the cost ... of capital."

3 As the first quotation says:

4 "Over [an extended] period this could be an
5 indication of the limits in the competitive
6 process."

7 It is 145 which Apple says shows Mr Holt
8 distancing himself from the WACC:

9 "It should also be noted that the *CMA* has
10 subsequently clarified that a finding that ROCE is
11 higher than WACC does not imply a competition
12 problem on its own" -- I just showed you that from
13 ecosystems report -- "For example, a firm that
14 innovates and gains a competitive advantage may earn
15 a higher ROCE for the period that it is able to
16 sustain that competitive advantage. However, the
17 *CMA* has also made clear in a market characterised by
18 effective competition, any excess returns above the
19 WACC, would be expected to be eroded [away] over
20 time. I agree with the *CMA* that, in a market in
21 which high and persistent returns are earned, this
22 would tend to attract entry and prices would be
23 expected to converge towards a competitive level
24 over time (absent entry barriers)."

25 Really the selection from Mr Holt's evidence in

1 the skeleton does not quite capture the flavour of
2 it.

3 I mentioned yesterday that Apple's case is that
4 it is not possible to construct a meaningful
5 profitability analysis or to allocate all direct and
6 indirect costs to the App Store. Just to show you
7 that, it is in Apple's skeleton, {A1/5/62},
8 paragraph 184:

9 "There is a debate between the accounting
10 experts ... Apple does not produce a fully burdened
11 profit and loss statement ... that is because it is
12 not possible meaningfully to allocate all direct or
13 indirect costs."

14 You have seen exactly this argument before the
15 CMA and you have seen the CMA's observation that in
16 fact they had found a large number of accounting
17 documents which seemed to do this. Now, what has
18 happened in this case is that the Class
19 Representative's expert forensic accountant has
20 constructed an analysis of Apple's profitability
21 doing the best they could out of Apple's documents.
22 But as you will recall, there has been an extensive
23 and contested disclosure exercise to try and obtain
24 the relevant information.

25 Could I just ask you to turn to {B2/0.1}. This

1 is a witness statement from Mr Doris for Gibson
2 Dunn, filed in February 2023, when the issue was
3 about what expert evidence should be permitted.
4 Could we please turn to page 10 {B2/0.1/10}. What
5 you will see at the top of the page is 33:

6 "Apple seeks permission to rely on [expert]
7 evidence from an accounting expert, addressing
8 issues as to the allegation that Apple's
9 profitability is excessive."

10 If we could just scroll down while we are here,
11 albeit it is a point we will come to later, under
12 the heading "Intellectual Property":

13 "Apple seeks permission to rely on evidence
14 from an intellectual property expert, addressing
15 issues as to the intellectual property made
16 available by Apple to developers and the protection
17 and value of that intellectual property."

18 I am going to come back to that later, I
19 thought it would save going to this document twice.
20 You, sir, granted permission for both of those
21 things in an order of 10 May 2023 and just for the
22 transcript that is {I/28/2}. But then if we go
23 forward to March 2024, into the period of battles
24 between the Class Representative and Apple over
25 disclosure, you may recall, Sir, you made a reasoned

1 order. I do want to go to this. It is {I/45}.
2 This is the reasoned order which was in fact made in
3 March 2024, dealing with disclosure. Could we go to
4 the next page, please, paragraph 5. Thank you very
5 much:

6 "The essential basis of the requests" -- i.e.
7 the disclosure requests -- "is that the Class
8 Representative seeks to analyse revenue and cost
9 information for her excessive pricing claim in the.
10 Collective proceedings in relation to the ... App
11 Store. The Defendants maintain they do not account
12 for costs particularly at the App Store level.
13 However, the Class Representative has identified
14 some documents already produced by the Defendants
15 which are apparently presentations containing an
16 analysis of costs at the App Store level."

17 What was sought was a proportionate search for
18 more. You said sir, at 6:

19 "Revenue and costs data which is capable of
20 being analysed at the App Store level is obviously
21 of considerable relevance to the excessive pricing
22 claim. In the circumstances where the Defendants do
23 not maintain management accounts at that business
24 unit level, the next best source of data is likely
25 to be revenues and costs at the ISS level " -- which

1 I think means services -- "and evidence of the
2 approach taken by the Defendants themselves when
3 they carry out any allocation exercise of revenue
4 and costs at the App Store level. The Defendants
5 have explained ... that these allocation exercises
6 are incomplete and unreliable. They are
7 nevertheless the best information available."

8 Then you say at paragraph 8:

9 "The approach of the parties to resolving these
10 issues has been unsatisfactory, as I made plain at
11 the informal CMC in February. It is also, as a
12 practical matter, unhelpful that there is no
13 accounting expert instructed by the Defendants to
14 act as a counterpart to the Class Representative's
15 expert in this area. I would ordinarily expect the
16 respective parties' experts to be co-operating to
17 ensure that the best possible evidence was available
18 to the Tribunal. While it is a matter for the
19 Defendants as to whether they instruct an accounting
20 expert, it is undoubtedly unhelpful from a
21 procedural perspective for that dynamic of
22 co-operation to be absent."

23 In fact what happened is that Apple did serve a
24 forensic accountant's report, but only in reply to
25 the evidence of Mr Dudney and Mr Holt. That is the

1 report of Dr Barnes of September 2024, which is in
2 {C3/5}, and he does not carry out any profitability
3 analysis of his own. He says instead that attempts
4 to allocate costs to the App Store are arbitrary and
5 the results are meaningless. What you will see in
6 due course is the only factual evidence Apple has
7 served in respect of these documents is extremely
8 high level generality.

9 Now, despite this, there is actually an
10 important measure of common ground on Mr Dudney's
11 ROCE calculation. Could I please now turn up the
12 report of Mr Barnes. I will perhaps make this point
13 and then suggest a pause. This is {C3/5/58}. This
14 does not resemble my pagination. Could you scroll
15 back, please, I am actually looking for paragraph 76
16 and I cannot understand at all why my pagination is
17 different. This is the right report. Keep going
18 back please to paragraph 76. {C3/5/38}. I think I
19 just gave you the wrong reference. You will see:

20 "In short, there are no issues in how Mr Dudney
21 has measured the App Store's revenue, COGS (cost of
22 goods sold) OCOGS (other cost of goods sold), or
23 gross profit" -- so all of that is effectively
24 common ground -- "There are however significant
25 issues in how he measures what he claims to be the

1 App Store's OPEX."

2 Over the page, please, to the next page:

3 "These issues stem from the way in which he has
4 interpreted the phrase 'Apple's costs [...]
5 relating to the App Store'. While there are certain
6 (direct) costs that Apple incurred and that clearly
7 'relate to the App Store' - the COGS and OCOGS ...
8 that is not generally the case with Apple's OPEX.
9 ... Mr Parekh ... notes that 'Apple cannot allocate
10 all indirect costs'."

11 Then he says:

12 "My understanding of the point he is
13 articulating - at least in large part -- Apple's
14 OPEX costs are indirect costs, i.e., costs that
15 Apple incurs that do not benefit a single part ...
16 rather [than] the business as a whole. As such, the
17 notion of 'Apple's OPEX relating to the App Store'
18 is something of a non-sequitur."

19 That is the issue then, the focus is on OPEX
20 which includes R&D. If this would be a convenient
21 moment to pause, after that I will show you some
22 issues on the disclosure.

23 THE CHAIRMAN: Yes, we will come back at ten to.

24 (11.41 am)

25 (Break)

1 (11.54 am)

2 MR WARD: What I am now going to do is show you some
3 examples of the kind of profitability analysis that
4 are strewn through Apple's disclosure. There are
5 plenty of others but I want to show you some
6 important types. These documents are all marked as
7 confidential, and what I intend to do is describe
8 the slides that we are looking at, but of course
9 without reading out any numbers at all. I have
10 already explained to Ms Demetriou that is the
11 proposal and of course she will be on red alert, no
12 doubt.

13 The first one is at {D1/764}. This is an, "App
14 Store business management FY20 overview." There are
15 lots of documents of this kind produced annually for
16 senior management and they contain profit and loss
17 with OPEX and operating margin figures for the App
18 Store. I am just going to show, but without going
19 to the figures. If we go firstly to slide 4, this
20 is a figure for the overall level of the business.

21 Then at slide 6 a comparison is made between
22 the App Store and a well-known list.

23 MS DEMETRIOU: I am so sorry to interrupt, Mr Ward, but
24 could we just ask that Mr Ward's instructing
25 solicitors cover their screens because these

1 documents are coming up to the screens and they are
2 visible to members of the public who are in the
3 court.

4 THE CHAIRMAN: I don't know what the best way of doing
5 this is. In some ways if you can do it without the
6 screens.

7 MR WARD: I am happy to get on in whatever way Apple are
8 willing to live with.

9 MS DEMETRIOU: Sir, the alternative is we just go into
10 private for this part.

11 MR WARD: I do not want to do that.

12 THE CHAIRMAN: Another alternative would be to move
13 people, a small number of people from the back of
14 the court, whether they might be able to move to the
15 side. That might be better.

16 Is there anybody at the back of the court who
17 is not in the confidentiality ring? Would it be a
18 great imposition if I could ask you just to move to
19 the side. I am sorry to do that to you. This
20 gentleman is from the CMA, I do not know whether you
21 are concerned about him seeing the documents?

22 MS DEMETRIOU: I think they are not in the ring so it is
23 safer that we --

24 THE CHAIRMAN: So everybody else at the back of the
25 courtroom is in the confidentiality ring, is that

1 correct? Would you mind moving just a little bit
2 further that way just to give us some more comfort
3 that you are not going to see anything.

4 MR WARD: To be clear, sir, we are still in open --

5 THE CHAIRMAN: You do not need to leave the courtroom.
6 Gone. Right, okay.

7 MR WARD: We are proceeding in open session?

8 THE CHAIRMAN: We are in open session, yes.

9 MR WARD: I was showing you, but only you, slide 4. Mine
10 still seems to be on. Is that acceptable? Slide 4
11 which compared the App Store to a certain list, but
12 I won't even read that out.

13 Then at slide 78 what we see is an App Store
14 P&L. I am just going to mention some of the
15 categories of items that are in this P&L, without
16 reading out any numbers. You will see there is a
17 margin, just looking in the bold in the column,
18 margin OCOGS, gross margin, total OPEX and net
19 margin.

20 THE CHAIRMAN: You are looking at the numbers themselves,
21 are you?

22 MR WARD: I was just looking at the names of the rows.

23 THE CHAIRMAN: We cannot actually see that.

24 MR WARD: Is it possible to blow it up? That is better.
25 You can see again, standard margin, just looking

1 what is in bold, standard margin, total OCOGS, gross
2 margin, total OPEX, net margin.

3 Now there are quite a few documents like this,
4 but I want to make clear Mr Dudney does not rely on
5 this as fully burdened. He has conservatively
6 accepted there may be items omitted from allocations
7 of divisions above the App Store. But can we now go
8 please to document 760, which is another document of
9 a type of which there are a number. I am going to
10 take the same approach to this. So you will see
11 what it is called, a products & services
12 profitability based on August/19LRF, dated September
13 2019. It is worth bearing in mind Apple's financial
14 year starts in October.

15 At page 3 we can see, again I am just going to
16 read out the title and describe what is in here,
17 "FY20 products & services summary". In the bottom
18 left there is a summary for OPEX and more or less in
19 the middle of that you can see a figure, which I
20 won't read out, for the App Store. Then to the
21 right of that, so bottom right quadrant, is
22 operating margin and again there is a figure for the
23 App Store.

24 Then if we move on please to page 8, I think is
25 the one we want. Yes, thank you very much. Here we

1 have some graphs which show divided into products
2 and services operating margin, and if you look in
3 the right-hand column, we want to look at the
4 operating margins graph. There is a breakdown
5 between different products including the App Store,
6 and there is a thick line that at least looks black
7 on this screen for the App Store. You will just see
8 if we could scroll to the bottom of that slide,
9 please, you can see right above where it says,
10 "Apple confidential-need to know" there is some text
11 which I think I can safely read out it says, "Based
12 on method 2 for allocation of OPEX."

13 What Mr Parekh says in his statement is Apple
14 uses two methods, method 2 which is OPEX in
15 proportion to direct costs; and method 1 which is
16 allocation by use of revenue. I am now going to
17 show you an example of the latter. These are the
18 so-called line of business reports and these are
19 gone back to a period before that covered by this
20 litigation. Mr Dudney relies on some of these.

21 Could we go to {F/18.1}, please. If we could
22 click because this is actually a spreadsheet. Do we
23 have the spreadsheet? Thank you very much indeed.
24 This is a spreadsheet and you can see the tabs at
25 the bottom are "iPhone", "iPad", "iPod" and

1 "Services". In the "Services" tab where we are now,
2 I am again just going to highlight some of the
3 things in the left-hand column where you can see at
4 row 24, gross margin, row 27, R&D, then various
5 other types of operating expenses, which are
6 totalised at row 39. That is for services as a
7 whole.

8 Can we just scroll down to the very bottom,
9 please. You can see the asterisk at 45, "Opex is
10 allocated based on revenue mix." This the revenue
11 based allocation. To save time, I will just
12 explain. What Mr Dudney did was he used Apple's own
13 basis, but he checked it against method 2 that we
14 looked at a moment ago. If we can turn up now
15 {C2/7/43}. This is Mr Dudney's report. You will
16 see in the middle of the page, sort of crossed out,
17 is that slide you were looking at a minute ago. It
18 has been just marked as confidential obviously with
19 a highlighter.

20 Over the page, please. In the box at the top,
21 Mr Dudney has compared return on revenue. The first
22 row is his analysis based on allocation by revenue
23 and the second row is the analysis based on those
24 slides. Some of them are marked as confidential,
25 some are not, but you can see the comparison very

1 easily.

2 Our short point in this contested area is that
3 Apple can and does calculate P&Ls for the App Store.
4 It uses different methods, but they seem to come to
5 very similar results. Then if we can now go,
6 please, to Mr Holt's third report, {C2/10/76}.
7 Actually we will go to the next page, please. Here
8 is table 5.9 where he shows OPEX alongside gross
9 profit operating profit, so then he says proxy App
10 Store OPEX which is Mr Dudney's figure. The point
11 he makes just above the text, in the bottom four
12 lines is:

13 "It would be unlikely that reasonable changes
14 of the allocation of common costs would
15 significantly affect the App Store's excessive
16 profitability. This supports that the findings of
17 the App Store's excessive profitability are robust
18 to changes in cost allocation and that, hence, his
19 results" -- meaning, Mr Dudney's -- "are not driven
20 by such allocations."

21 If we can remind ourself what the CMA said in
22 the Mobile Ecosystems Report, that is {AB6/28/9},
23 you will see it says at 29:

24 "We agree that the presence of common costs
25 complicates the assessment and allocation methods

1 can be arbitrary. However, this does not
2 necessarily undermine the conclusions we can draw
3 from the results, especially if they are found to be
4 insensitive to the allocation method."

5 It is our submission that that is exactly where
6 we are.

7 Just before leaving this topic, I want to turn
8 to our skeleton argument to make one point about one
9 further type of document. I am just going to read
10 the skeleton out of an abundance of caution. If we
11 can go, please, to page 56, which is {A1/4/56}, we
12 say in 189 that, we note that Apple's response is it
13 is all impossible. Then picking up and just only
14 reading things that are marked as non-confidential:

15 "This extreme position is impossible to
16 reconcile with the fact Apple routinely estimates
17 the App Store's profitability for its internal
18 purposes. Indeed, in *Epic vs Apple* the US district
19 court found that that Apple did calculate 'a fully
20 burdened operating margin as part of [its] normal
21 business operation.' For example, Apple's late
22 disclosure provided on 14 November 2024 includes a
23 January 2024 price committee presentation which
24 contains an 'indicative' P&L for the App Store for
25 the purposes of understanding the impact of Apple's

1 business of complying with the injunctive relief
2 granted in the US district court in the *Epic* case.
3 The judgment [sic] contains various estimates of the
4 App Store's operating profits."

5 Then if you read the rest, please. What I
6 would like to do without any comment is just show
7 you the slide that is being discussed there. It is
8 {D1/1649/10}. All I invite you to do is just look
9 at the left-hand column names. I appreciate this is
10 a very recent document and I do not want to trifle
11 with it. Now, all of this is obviously going to
12 have to be explored in closed session, but I just
13 want to make one further point about it. We served
14 a purely arithmetical calculation last week by
15 Mr Dudney based on these figures. That is at
16 {C2/18}. It is in the form of a short report. It
17 has I think two to three operative pages. Apple
18 have agreed that it should be admitted, and we have
19 asked them actually to agree the arithmetic it
20 contains. I do not want to explain it at the
21 moment. We do not actually have confidentiality
22 markings on it, and it will obviously be dealt with
23 as far as necessary in closed session, but I do
24 formally ask permission to adduce it in the absence
25 of any opposition from Apple.

1 THE CHAIRMAN: Is that opposed?

2 MR PICCININ: We do not oppose the admission.

3 MR WARD: Thank you, sir. With that, I want to turn to
4 Limb 2, which is whether the price is unfair in
5 itself. As Mr Armitage said, this is where Mr Holt
6 has dealt with the concept of economic value. That
7 is an entirely orthodox approach.

8 In so doing, Mr Holt relies on a range of
9 factors and for your note they are at {C2/10/97},
10 paragraph 263. But I want to focus on what is the
11 central issue here, the willingness to pay fallacy.
12 It is central but it is also simple. As Mr Hoskins
13 explained yesterday, Apple has charged the
14 commission in markets where it is a monopolist
15 insulated from competition by its own restrictions.

16 The result is, in our submission, profits that
17 are not only extraordinarily high but indeed
18 persistent. Mr Holt's view is that in conditions of
19 workable competition, they would have been expected
20 to come down in the last 16 years. Indeed, in
21 accordance with the view of the CMA. He explains
22 that just for your note, at {C2/10 /89}, paragraphs
23 236-240.

24 Now what I would like to do is deal with what
25 Apple says is the fatal flaw in our case. That is

1 explained in their skeleton argument at {A1/5/60}.
2 It is paragraph 176. They say, there are a number
3 of things packed into here and I am doing to try and
4 unpack them:

5 "That the commission is paid by developers for
6 use of Apple's technology -- and not just the App
7 Store itself -- is fatal to Dr Kent's excessive and
8 unfair pricing claim."

9 If we look at (a):

10 "It means that Mr Holt's cost-based analysis of
11 the 'excessive' limb is flawed in principle, since
12 (i) it is measuring a set of costs that is too
13 narrow."

14 I have already explained that cost-based is
15 selling it a little short, but if Apple was saying
16 that more costs should have been taken into account
17 then of course that would have been even less
18 favourable to them. What we understand the argument
19 to be really about is what we call economic value.
20 They are saying that these matters which are outside
21 the App Store should be taken into account for
22 economic value. We can see this explained by
23 Professor Hitt in his second report at page 209. So
24 this is, please, {C3/4/209}. At 369 he explains:

25 "I understand that as a matter of law, the

1 assessment of whether Apple's commission rates are
2 excessive and/or unfair must account for the value
3 that the App Store and the wider iOS ecosystem
4 provide developers and consumers. The assessment
5 must account for the fact that the commission Apple
6 charges is its compensation for providing all the
7 products and services that contribute to the value
8 consumers and developers derive from the iOS
9 ecosystem and not just what Apple provides at the
10 actual moment of a transaction ..."

11 If we go on to 373 on the next page, he says
12 the same thing, really. He says at the bottom of
13 the page:

14 "In considering this issue, [of economic value]
15 in my view, it is necessary to consider the value
16 that Apple provides - through the App Store, iOS and
17 its devices - to the consumers and developers that
18 use its products."

19 We do respectfully disagree and this will
20 obviously be a point of contention in the trial. So
21 in our respectful submission, these devices, for
22 example, are in different markets, they generate
23 revenue for Apple and there is no sensible reason
24 why costs and revenue cannot be apportioned to the
25 App Store itself.

1 But then there is an IP variant of this
2 argument in the skeleton argument, at paragraph 179.
3 So now we are back at {A1/5/61}.

4 MR FRAZER: Mr Ward, just before you get to that I want
5 to make sure I have not made a mistake in relation
6 to your conclusion. You said, I think at the
7 beginning, that if more costs were involved it would
8 be worse for the Defendants.

9 MR WARD: Sorry, I just misspoke. You are quite right,
10 thank you.

11 I was going to go to the IP variant. This is
12 in the Apple skeleton, please, {A1/5/61} and it is
13 paragraph 179. They say:

14 "As Dr Singer accepts, the commission is paid
15 for ... access to the technology ... The technology
16 is protected by Apple's IP rights and is a form of
17 intangible property, which Apple grants developers
18 ... Consistent with the case law ... an analysis of
19 costs is inappropriate and inadequate for an
20 excessive pricing claim where the price is paid for
21 intangible property."

22 Of course, as we have already said, it is not
23 just an analysis of costs. Mr Armitage, this
24 morning, has explained why this is just wrong on the
25 law. What we will see later is the experts have

1 carried out some sensitivities in this area. In our
2 respectful submission, this fatal flaw has itself a
3 fatal flaw and that is the willingness to pay
4 fallacy. There is no doubt that Apple has IP that
5 has value, but Apple's argument really amounts to
6 insisting that the price people are willing to pay
7 under monopoly represents its economic value and
8 indeed it seems all its IP. It just assumes that
9 the price of the commission must reflect the value
10 of any IP rights that it can be said to somehow
11 apply to. But here I am afraid I do want to go back
12 to the procedural history.

13 I already reminded you that Apple had applied
14 for permission to adduce an IP expert on valuation
15 and it won't have escaped your attention that there
16 is not one before the court. I would like to show
17 you the correspondence on this topic. It is {B2},
18 so sorry, the correspondence the (CB2/0.1}. This is
19 a letter written by my solicitors shortly after the
20 CMC in May. You will see at paragraph 3 they say:

21 "We should be grateful if your clients could
22 now confirm the discipline and qualification of
23 their intended IP Valuation expert."

24 At paragraph 4, they said we would like to know
25 more about it, what the IP is. As Mr Hoskins said

1 yesterday, there had already been an unsatisfactory
2 RFI on this. Then over at 5:

3 "Please therefore confirm how and when your
4 clients propose to provide to our client full
5 details of any allegedly relevant intellectual
6 property and associated licences and/or other
7 contractual agreements."

8 As Mr Hoskins observed yesterday, we did not
9 get anything until the annexes to the skeleton. In
10 any event that letter was written in May and there
11 was a holding reply and then the substantive reply
12 came on 29 November. That is {CB2/3}, yes, thank
13 you, November 2023, I should say. Here Gibson Dunn
14 explained in the third paragraph:

15 "Dr Kent will note that the Defendants no
16 longer seek to adduce expert evidence in the field
17 of intellectual property valuation. The issues
18 proposed for that expert were not intended to call
19 for a full valuation of the relevant intellectual
20 property. Rather, they were intended to elicit
21 evidence that would be useful to the Tribunal by
22 highlighting the links between the Defendants'
23 intellectual property and the benefits that
24 developers and users derive" -- and then they say:

25 "However, given Dr Kent's objections to these

1 issues, the Defendants no longer intend to adduce
2 expert evidence ... and will, instead, rely on a
3 combination of factual and other expert evidence, as
4 well as submissions ..."

5 In reality what they are doing is relying on
6 submissions. Having made a conscious decision not
7 to adduce evidence they had permission for and
8 having provided no particulars of the IP relied upon
9 at least until something in their skeleton argument,
10 and having provided no evidence about the valuation
11 of the IP. What you are left with is an entirely
12 circular argument, which is the commission is set at
13 30 per cent, so the value of the relevant IP must
14 itself be 30 per cent. Indeed again for the
15 transcript, exactly that kind of argument was
16 rejected in *Epic v Apple* and the citation is
17 authorities bundle {AB5/7/35} and {AB5/7/95}.

18 While we are on this topic, I want to pick up
19 another way in which Apple describe Mr Holt's
20 evidence at the bottom of page 61. So it is
21 {A1/5/62}, paragraph 181 right at the bottom please.
22 Sorry, it is the pagination. Sorry, we have it now.
23 They say at 181:

24 "Mr Holt agrees with the proposition that,
25 'For innovative products and services that embody

1 substantial investments in intellectual property,
2 like iOS and the App Store, costs are not a reliable
3 measure of value'" -- this is from the joint
4 experts' statement, proposition 19 -- "but maintains
5 cost can be informative for the 'excessive limb'.
6 However, inconsistent with that acknowledgment, both
7 Dr Kent and Mr Holt rely - for the unfair limb - on
8 the analysis of the App Store's costs ..."

9 I would like to just show you what actually was
10 said by Mr Holt in the joint experts statement this
11 is under {C4/4/10}. This is proposition 19 and if
12 we could in any way zoom in I think that would be
13 helpful. Here is the proposition that they rightly
14 say Mr Holt agrees with, they say:

15 "For innovative products and services that
16 embody substantial investments in intellectual
17 property, like iOS and the App Store, costs are not
18 a reliable measure of value."

19 He agrees, but he says:

20 "The economic value of the App Store should be
21 determined by the competitive market outcome. Cost
22 is not an appropriate measure of the App Store's
23 economic value. However, cost can help to inform
24 whether the price is excessive."

25 "Inform" is obviously the right word because it

1 is a ROCE/WACC analysis, it is not just cost
2 compared to prices.

3 So again, the citation of Mr Holt's evidence
4 perhaps does not give quite the full picture.

5 While we are discussing innovation, the short
6 answer is again the same. The fatal flaw in this
7 fatal flaw is that the price Apple is obtaining for
8 its innovation is a monopoly price, not a price in
9 workable competition. I do want to just
10 re-emphasise a point you have already heard, that it
11 is not our case that even WACC is the correct
12 measure of economic value, never mind cost, but not
13 even WACC. Mr Holt's view is, in workable
14 competition Apple would have been able to charge a
15 counterfactual between 10 and 20 per cent with a
16 central case of 15. It would be a matter for you in
17 the application of the broad axe, if you are with us
18 thus far, to determine which of those
19 counterfactuals apply. So this still allows Apple a
20 huge return.

21 Could we turn now to {C2/10/87}. He says in
22 the part that is not highlighted as confidential,
23 paragraph 225:

24 "Taking 15 per cent as the Counterfactual
25 Commission, I would expect the App Store to have

1 earned a cumulative profit above WACC of around USD
2 31.4 billion over the Relevant Period."

3 So our submission is that that recognises a
4 huge return on Apple's innovation and its R&D.

5 Now, time is slightly starting to run out on me
6 so I am going to press forward, if I may, to Limb 2
7 part 2, which is "Unfair when compared to competing
8 products".

9 As Mr Armitage has already explained, the key
10 question is whether the chosen comparators are
11 informative as to the prices Apple would be able to
12 charge in workable competition. There is plenty of
13 debate between the experts on this, there will be
14 cross-examination. Just really for the transcript,
15 Mr Holt has identified PC app distribution platforms
16 as a particularly relevant comparator, it is section
17 7.3 of his third report starting at {C2/10/106}.
18 This is based on an assessment of their
19 characteristics in the round and again to save time
20 I will just give you some transcript references. He
21 says they provide services with obvious similarity
22 to the App Store, that is {C2/10/106}. Unlike the
23 App Store they currently operate in conditions of
24 workable competition {C2/10/107}, and importantly,
25 they demonstrate how commission has fallen as there

1 has been competitive entry, that is {C2/10/104}.

2 Beyond that I will leave it for
3 cross-examination and if I may in the time available
4 I will move on to incidence.

5 Now important but probably obvious point that
6 this issue applies in the same way across both limbs
7 of the case. So we have an exclusionary abuse, we
8 have an unfair pricing abuse, but if you are with us
9 on either of them then the same question of
10 incidence arises. In a literal sense there is no
11 doubt that the commission is paid by consumers.
12 Apple collects the payments on the App Store and it
13 remits the payments net of the commission to
14 developers. But despite that Apple says consumers
15 have suffered no loss. We respectfully disagree and
16 I want to just make some high level points at this
17 stage.

18 The first is a very, very well-known point from
19 *Merricks*. There is no need for any individual
20 assessment of the loss because this is a class claim
21 and just for the transcript, that is *Merricks* in the
22 Supreme Court, {AB3/39}, paragraphs 58 and 77.

23 The second point is the broad axe. Again, as
24 Mr Armitage has said, to perfect the tort we have to
25 show some incidence on the class. If we do, then it

1 becomes a matter for the Tribunal, doing the best it
2 can on the evidence available, to decide how much
3 incidence applies. The balance of probabilities
4 does not apply but the principle of effectiveness
5 does. In our submission, that low threshold for
6 perfecting the tort is plainly satisfied in this
7 case.

8 May I take you now please to the Commission's
9 *Spotify* decision, and that is in {AB6/45}. This is,
10 as you know, an infringement decision to do with
11 Apple's anti-steering rule, but the issue of
12 incidence arose because the Commission was
13 considering whether consumers had been harmed as a
14 result and it decided that they had. Could we
15 please turn to page 171, recital 599. It says
16 after a redaction:

17 "Uninformed iOS users may end up paying higher
18 prices for music streaming services on iOS than they
19 would have paid absent Apple's Anti-Steering
20 provisions. This is the result of the fact that:
21 (a) in-app transactions conducted through IAP and
22 intermediated by Apple are accompanied by an
23 obligation for app developers to pay Apple a 30%
24 commission fee during the first year" -- and a 15%
25 afterwards -- "(b) the commission fee level imposes

1 a substantial financial burden on music streaming
2 services and, as a result, (c) the cost of the
3 commission must be and is passed on to iOS users in
4 the form of higher prices ..."

5 Then if we go to page 177, we see -- sorry,
6 that is the wrong reference, it is page 174. 614:

7 "In its Response to the Letter of Facts, Apple
8 also concedes that music streaming service providers
9 'pass on' Apple's commission' even if it states
10 they do it 'to a different extent'."

11 Then at 615:

12 "Although in relation to a different industry"
13 -- and we do have an unredacted version of that we
14 will get to at some point -- "This supports the
15 finding that app developers subject to the
16 commission fee have no other option than to pass it
17 on."

18 That is the only detailed study of incidence in
19 this are there has been, but what we will also see
20 is that Professor Hitt's own evidence in fact
21 supports some degree of incidence. We will explore
22 that at trial. Needless to say, we say, it
23 understates the level of incidence.

24 Now if I may just sort of put our perspective
25 at a high level, the starting point is that there

1 are obvious and compelling reasons to expect the
2 commission should be passed on. In the long run a
3 profit maximising firm must either charge a price
4 that is sufficient to cover average total costs or
5 exit the market. Now in this case, we are talking
6 about a charge that is levied on every transaction.
7 Now, Apple's expert declines to characterise that as
8 a marginal cost but to avoid any semantic debate, we
9 can characterise it instead as a cost that must be
10 paid on every sale. We mustn't lose sight of the
11 fact that we are not talking about a small surcharge
12 or a secret overcharge. It is a very large sum
13 indeed. It is not likely to get lost in the wash.
14 Not only that but Apple is of course a monopolist
15 and that means that the charge is industry wide.
16 But Apple's position is an extreme one. It says
17 that this long standing large industry wide charge
18 would be treated as not being a cost of business at
19 all. We note again, I am afraid it is a theme of
20 our submissions, Apple has chosen to adduce no
21 factual evidence at all in respect of incidence. We
22 have reams of expert evidence but no factual
23 evidence.

24 Now, what the Class Representative is seeking
25 to do in this case is demonstrate incidence on what

1 is often called a top down basis. That is typical,
2 even if not universal, in class claims. Of course,
3 such methodology involves a degree of imprecision
4 and you have had plenty of submissions about that
5 already. But it is also, of course, entirely
6 appropriate in a class action going back to 2015,
7 involving millions of consumers. But the nature of
8 the commission itself poses a challenge in this
9 area, because the headline has remained at 30 per
10 cent since 2008. As a result, Dr Singer the Class
11 Representative's expert has concluded there was
12 insufficient variation to directly measure incidence
13 though a regression of price on the level of the
14 commission. The reference for that is Singer 2,
15 paragraph 280, {C2/8/136}. As far as we understand
16 it, there is no challenge to that. Apple does not
17 say you could and should have done that regression.
18 But what in fact has been done instead, in an
19 attempt to address this issue, is to bring to bear
20 various other forms of evidence, direct and
21 indirect, which will be no doubt the subject of
22 cross-examination. But part of that evidence is
23 Dr Singer's formal models, which you will have seen.
24 It might be convenient just to show you briefly so
25 that we can see what we are talking about. They are

1 in {C2/8}. Yes, starting at page 144. At 293,
2 Dr Singer says:

3 "Because direct methods of estimating incidence
4 using Apple's Commission are not appropriate in
5 these circumstances, I instead apply standard
6 econometric models to the UK Transactional Data to
7 estimate incidence indirectly. This approach can be
8 thought of in two steps. First, I estimate app
9 demand curves, which seek to ascertain the
10 relationship between prices and quantity
11 demanded" -- and, "I estimate [them] separately by
12 genre", they create a demand system, then "I test
13 the goodness of fit." Then at 294:

14 "Economic theory shows that incidence is a
15 function of demand curvature - that is, the
16 relationship between prices and quantity demanded.
17 Incidence can therefore be ascertained in a given
18 case by identifying which demand system best
19 explains variation ... in the case of linear demand,
20 incidence is 50 be percent. In the case of logit
21 demand, incidence is proportional to the firm's
22 share of sales of a product category, with larger
23 share firms exhibiting lower pass through ..."

24 Just to step back and try to observe the shape
25 of that. These regression analyses are not testing

1 incidence directly. The purpose is to establish the
2 shape of the demand curve. What Dr Singer found was
3 the data demonstrated that both linear and logit
4 demand provided a reasonable approximation of the
5 shape of the demand curve. The consequence of that
6 was that the models implied incidence of between 50
7 and 90 per cent. They provide, in a sense, the
8 parameters of our claim. Obviously, there is a
9 great deal of technical debate between the experts
10 on this topic, which I will leave to the hot tub,
11 but I do want to just make one high level point
12 here, which is the objection is that there is
13 something internally inconsistent about this,
14 precisely because Dr Singer has carried out two
15 tests and we rely on them both. But we do not
16 accept that criticism. This is a class claim. Of
17 course the class contains variation over time. It
18 is not our case that either of these models
19 demonstrates definitively that the shape of the
20 demand curve for the entire class is one or the
21 other.

22 I will just show you the way Dr Singer put it.
23 If we look at the linear demand model which starts
24 at page 147, actually it does not start there but I
25 want to go there. These are the results which are

1 coefficients which show essentially relationship
2 between price and quantity demanded. We see they
3 are all negative and they are almost all negative,
4 highly statistically significant.

5 The conclusion Dr Singer draws at page 148,
6 please, is at 300:

7 "The fact that almost all of the coefficients
8 are correct in sign, reasonable in magnitude, and
9 statistically significant suggests that linear
10 demand curve provides a reasonable approximation of
11 the actual demand ... Put differently, the demand
12 for iOS Apps can be said to be approximately linear,
13 which (when paired with an assumption of constant
14 marginal costs), which isn't challenged "implies
15 that the incidence rate is 50 percent".

16 Then in the case of logit demand, he carried
17 out a regression of price against market share and
18 this reflects the fact that the basic intuition
19 behind logit demand is that consumers within a
20 market will substitute across products in accordance
21 with their market shares. In other words, if a
22 consumer switches they are more likely to switch to
23 a product with higher market share than lower and an
24 increase in price will reduce market share, as
25 opposed to quantity. If we look at page 151, we

1 again see the coefficients that he has to test that
2 proposition, whether price affects market share. He
3 again concludes at 152, please, paragraph 306:

4 "That almost all of the coefficients are
5 correct in sign, reasonable in magnitude,
6 statistically significant, and that the logit models
7 produce such high R-squared values suggests that the
8 logit demand provides a reasonable
9 approximation ..."

10 What he does on the next page in Exhibit 17 is
11 calculate by genre what the market share implies for
12 pass through, recognising that in logit demand pass
13 through is a function of market share. So he is
14 very clear that these models are, in a sense, a
15 reasonable approximation, but in our submission in
16 so far as we bear a burden of proof here, this is
17 sufficient to discharge it on a top down basis, but
18 also I have already submitted and will be submitting
19 that by the time we get to these models, we are
20 firmly in the territory of the broad axe.

21 Now, I want to say something very briefly about
22 quantum, for which we can go to our skeleton
23 argument at {A1/4/80}, where we have an annex.
24 There is an immediate oddity about this annex that
25 all the figures in it have been marked as

1 confidential. These are the figures in our quantum
2 claim and it has been done by my solicitors in a
3 good faith attempt to apply what they think Apple
4 has been asserting is confidential, but I perhaps
5 would invite you just now, sir, to rule that our
6 quantum figures cannot realistically be
7 confidential.

8 THE CHAIRMAN: Well, is that a contested point, I am not
9 sure --

10 MS DEMETRIOU: Well, it is the first time we have heard
11 it, so can we reflect?

12 THE CHAIRMAN: I think that the statement earlier in the
13 morning demonstrates that the less we have to worry
14 about the better, so if we are able to agree
15 particularly with numbers like this, then it would
16 be helpful.

17 MS DEMETRIOU: Sir, yes, equally it would be helpful if
18 my learned friend would not spring it on us in the
19 middle of submissions but would raise it with us in
20 advance and then we could take sensible
21 instructions.

22 MR WARD: I am sorry if I have caused offence. I have no
23 need to read these numbers out anyway, I was only
24 going to show you the shape of it. What you will
25 see is we have two sets of tables one under the

1 heading "Exclusionary abuses" on page 80 and another
2 one on page 81 under the heading "Unfair pricing
3 abuse". If we go back to page 80, you will see that
4 what we have is calculations of quantum based on
5 counterfactual commission assessed by Dr Singer in
6 the exclusionary abuse case, by reference to the
7 50 per cent incidence for the linear model and 90.8
8 per cent incidence for the logit model. Then on the
9 next page we have essentially the same set of
10 numbers for unfair pricing where the assessment of
11 the counterfactual commission was done by Mr Holt
12 and the numbers are slightly different.

13 That is really not to make any submissions but
14 just so you can see your way around the quantum
15 analysis. Obviously, we say, ultimately broad axe
16 as to which of these numbers applies.

17 Now, that leaves me with just one final thing
18 to cover, which is the supplementary note filed by
19 Dr Singer. Now, the chairman at least will recall
20 in the PTR, on 15 November 2024, we explained that
21 we were going to seek permission to serve a
22 supplemental report from Dr Singer arising out of
23 the joint expert process. The essential point was
24 that Professor Hitt had introduced some new economic
25 analysis into the process during the agree/disagree

1 process. I would like to show you the transcript
2 from the PTR. Is it in the bundle or are we just
3 handing up an extract? We tried to put this in but
4 I am afraid it has not made the bundle. This is
5 just the PTR transcript. (Same handed)

6 We just extracted page 84 which I think is the
7 only relevant section. At line 7 you will see me
8 say: [Not on electronic documents]

9 "You will see from our skeleton that there is
10 an issue which relates to the joint expert statement
11 between Dr Singer and Professor Hitt. We explained
12 in our skeleton we are seeking permission to file a
13 supplementary memorandum from Dr Singer and this
14 arises directly out of the joint expert statement.
15 In Dr Hitt's responses he included some new economic
16 analysis and I can show you if this would be of any
17 assistance" -- and you, sir, said -- "I think we
18 should look at it. Just so I am clear this is not
19 something that has come out of the last round of
20 reports, it comes out of the joint expert
21 statement" -- and I said -- "Absolutely, if we can
22 turn it up it is in the expert report bundle" -- and
23 Mr Kennelly KC said -- "May I save some time here
24 and cut across this. We are not objecting to this
25 going in at this stage, but we reserve our rights

1 pending sight of it to object to anything that is
2 not material or disproportionate. We simply reserve
3 our rights to object to it when we see it."

4 Now in fact we served it on 21 November 2024,
5 some seven weeks ago and we are going to go to it
6 shortly. It is {C2/17} in the bundle, it is 13
7 pages long, and at the time it was made there was no
8 objection to it made, although Apple reserved its
9 rights. We referred to it again in our skeleton and
10 again there was no objection made to it and it is
11 referred to on page {A1/4/76} of our skeleton. But
12 this Saturday, this Saturday of this week, we
13 received a letter from Apple saying they would not
14 object to it provided we consented to an entirely
15 new and unheralded report from Dr Hitt. Could I
16 show you that letter which is {CB2/19}. This was
17 received on Saturday and among other things at point
18 2:

19 "Further to our 22 November e-mail, we confirm
20 that the Defendants do not object to the
21 admissibility of Singer 4, subject to the condition
22 that the Class Representative agrees to the
23 Defendants filing with the Tribunal a supplemental
24 report by Professor Hitt in reply to the new points
25 raised in Singer 4, and which also addresses several

1 documents regarding the Music Streaming
2 Investigation disclosed in the 25 November
3 Production", a copy is enclosed.

4 We are going to leave Professors Hitt's fourth
5 report for a minute but I simply observe no
6 objection of substance is taken in any way to Singer
7 4 here. What is offered instead is a trade for what
8 is in fact a 46 or 47 page expert report, started
9 precisely no days, working days, before the start of
10 the trial.

11 I am going to leave it to Apple to explain why
12 that is justified. It is obviously too late and of
13 course we object to it. No doubt we will deal with
14 that this afternoon. But what I am seeking at the
15 moment is permission for Dr Singer's report. To
16 make that good, I am going to show you now how it
17 arose. Last time, Mr Kennelly cut me off but
18 unfortunately it has turned out we do need to go
19 there. There is ample time to do so before the
20 break. But I want to start with the joint expert
21 report between Dr Singer and Professor Hitt. That
22 is at {C4/3}, and if we go to the back of it, the
23 last page is a good place to start. I am so sorry I
24 have given you the wrong reference, it is {C4/7/40},
25 thank you. This is the Singer/Hitt joint expert

1 report. The last page, again I do not need to read
2 out anything confidential, there are two things this
3 is Exhibit 1 and Exhibit 2. These are the results
4 of some more economic analysis conducted by
5 Professor Hitt during the joint expert process. The
6 first one, all you need note is it is to do with
7 Netflix downloads. The second one, at the bottom of
8 the page, is to do with logit regression. Now I
9 want to take you into the body of the joint expert
10 statement so you can see how it arose. For that we
11 have to turn first to {C4/7/20}. This is
12 Mr Hoskins' area of case so he will quickly correct
13 me if I mangle this. This is to do with
14 substitution. Proposition 44:

15 "The real-world example of Netflix shows that
16 video streaming App Transactions across app
17 transaction platforms are substitutes."

18 Dr Singer disagrees, Professor Hitt agrees.
19 Then he says he refers to analysis which he has
20 done, which is in fact what is attached. You will
21 see a note there from Dr Singer saying that this was
22 newly added and he has not seen the work papers. So
23 that is Netflix.

24 Then if we move on to incidence, we can see a
25 similar story, starting on page 35, which is the

1 logit model -- Dr Singer's logit model satisfies the
2 IIA assumption. Just for the benefit of the
3 Tribunal members that may not be 100 per cent
4 familiar with the IIA assumption, this is the
5 assumption that an irrelevant alternative will not
6 change relevant preference. It is common ground, it
7 is an assumption that is part of the logit model. I
8 can explain it in more detail if it is convenient
9 now, but probably not, but at some other stage.

10 In any event, what Professor Hitt says is this
11 assumption is not satisfied and he runs two tests to
12 seek to demonstrate this. If we turn to the next
13 page, so that is page 36. In the second paragraph
14 there in about the fifth line he says:

15 "I replicate" -- do you see that in the second
16 paragraph, specifically -- "I replicate Dr Singer's
17 logit regression for the Entertainment genre
18 partitioned into two subcategories", and he draws
19 conclusions about that.

20 Then at the bottom of that paragraph there is a
21 third new test where he says about six lines up:

22 "I similarly find the coefficient on price",
23 and so forth, and then he says:

24 "I get qualitatively similar results ... when I
25 exclude the top app by consumer spend within each

1 genre."

2 Those are the tests I showed you were
3 summarised in the exhibit. Again, Dr Singer says:

4 "These analyses were added the day before
5 submission. I have not been provided with the work
6 papers."

7 It was against that context that we understood
8 that Mr Kennelly's submissions were, if I can put it
9 this way, at least not completely combative on the
10 subject of why Dr Singer might see the need to
11 provide some additional thinking on this. The
12 result of this back in November was Dr Singer's
13 supplementary report which is at {C2/17}, which I
14 want to just very briefly show you. This was served
15 on 21 November. If we just do a fairly rapid page
16 turn through it, just so you can see the content.
17 You will see he starts off on page 2 with the
18 Netflix analysis, so he deals with the new Netflix
19 issue. Then over the page on page 4, he has done
20 his own version of what was in the back of the joint
21 expert statement. Then he turns on to the IIA
22 assumption and he explained how it arises in his
23 model. Then at pages 10 through to the rest of it,
24 he explains why he says it remains reasonable even
25 if approximate, and he addresses these tests.

1 I have just skipped over one thing that I want
2 to show you, which is at paragraph 9, he has one
3 paragraph dealing with another contested point in
4 the joint experts statement, which is about what he
5 calls "steering", which is the propensity of
6 developers to steer customers to platforms, if there
7 were any, with lower commission and Dr Singer's
8 point is that they would be induced to do so and
9 that is a form of bargain splitting of the reduced
10 commission. That is an additional point that he has
11 made in response to the joint experts statement.
12 But that is the contour of it.

13 As we received no objection to it, we referred
14 to it in our skeleton argument. After we served the
15 skeleton argument we assumed it was, if you like,
16 tacitly but reluctantly admitted to. Then on
17 Saturday what we received was the offer of a grand
18 bargain on this topic in the face of a report which
19 again, if the application is pursued, as no doubt it
20 will be, I will explain why we respectfully submit
21 it is just obviously far too late, inimical to
22 orderly process in this Tribunal and indeed
23 permission should be refused. That is obviously for
24 Apple to make good that submission this afternoon.
25 For now I simply seek permission to rely on

1 Dr Singer's supplemental report.

2 THE CHAIRMAN: So what is the position from Apple; is
3 that condition still attached?

4 MR PICCININ: Yes, sir, it absolutely is and we suggest
5 that perhaps the best way to deal with is that we
6 can make brief submissions on that issue at the end
7 of our opening.

8 THE CHAIRMAN: Just so I understand, what is the basis on
9 which you are saying you are entitled to impose a
10 condition, given what Mr Kennelly said in the PTR?

11 MR PICCININ: Sir, essentially the point is this.

12 Dr Singer's report is not simply responsive to the
13 two very short, very specific things that were
14 genuinely new in the joint statement. It actually
15 ranges quite a lot further than that. Mr Ward has
16 just accepted that there is one point in it that is
17 entirely new, but there is quite a lot else that is
18 not on those topics really at all. We could have
19 objected to that and we could have said, having seen
20 it, which was after the PTR, we could have said this
21 material is not responsive to the new points in the
22 joint statement and therefore tried to strike out
23 this paragraph or that paragraph or the other
24 paragraph. That did not seem to us to be a very
25 pragmatic or helpful way forward because being

1 realistic, we all understand that when Dr Singer is
2 cross-examined he is obviously going to say all of
3 these things in response to questions and likewise,
4 presumably, Mr Ward and Mr Hoskins will put all of
5 these points to Professor Hitt in cross-examination.
6 So it is actually helpful, rather than unhelpful, to
7 see it all written down.

8 Then, sir, just to complete the point, exactly
9 the same goes for Professor Hitt, both in responding
10 to the points that are new and not responsive to the
11 analysis in the joint statement, but also to the new
12 things that Dr Singer has said that do respond to
13 the new analysis in the joint statement. It is
14 helpful to everyone to know in some brief written
15 opinions what Professor Hitt has to say about those
16 matters.

17 THE CHAIRMAN: It is helpful as long as it is done in a
18 way that is orderly and clear to deal with. There
19 is a question, isn't there, as to why if you had
20 this statement from when you first got it, you said
21 you had it from the PTR.

22 MR WARD: 21 November, sir.

23 THE CHAIRMAN: So why has it turned up on the -- that is
24 really more about Professor Hitt's report, and also
25 I think there are going to be some questions about

1 whether Professor Hitt is now simply responding to
2 what Dr Singer is saying when producing more
3 material the better. I do not want to suggest that
4 there might be. I do not want to get into the gory
5 detail of all that yet, maybe we will have to. But
6 the problem we have got is that we have just got
7 this drip, drip, drip of expert material and I do
8 not think you can say that it was unreasonable for
9 it to be dealt with at the time of the PTR, but it
10 may be becoming more difficult to take the position
11 now. You are not going to let Dr Singer's report in
12 because you want to respond to it, but you have not
13 responded to it until the day before the trial.

14 MR PICCININ: Sir, on that there are really two points.

15 One is that Dr Singer's report came after the PTR at
16 a time when obviously there was quite a lot else
17 being done, like the production of very substantial
18 written opening submissions for trial and trial
19 preparation generally. So it has taken some time to
20 come up with a response to the 14 full pages of
21 analysis that Dr Singer has put forward.

22 The more significant point really is that
23 Professor Hitt is not actually going to be
24 cross-examined on any of this for about a month. I
25 can show you and take you through his report. There

1 is not much in it actually and there is no great
2 difficulty that Dr Kent's counsel can possibly have
3 in dealing with that in their cross-examination. So
4 we say there is no prejudice and it is helpful to
5 everyone. In any event, Professor Hitt is
6 inevitably going to say all of these things in
7 response to cross-examination and I can put all of
8 the same points to Dr Singer in due course. So this
9 material comes into the case one way or the other.
10 As you said, sir, it is a question of whether it
11 comes in in an orderly way or in a way that just
12 bubbles out of the hot tub or in cross-examination,
13 which we say is less helpful.

14 THE CHAIRMAN: I think the answer probably, Mr Ward, is
15 that we need to deal with these things together.

16 MR WARD: Yes.

17 THE CHAIRMAN: I am not saying and I do not think I am
18 accepting at all Mr Piccinin that there is any
19 entitlement to conditionality, because I think we
20 are talking about different things because of the
21 time. I do not see much point on trying to rule on
22 one of them now and then having to do it all again
23 later in relation to the same subject matter. So
24 why do we not deal with them together at the end of
25 Apple's closing submissions. Let us deal with it

1 that way.

2 MR WARD: Sir, thank you. I just simply cannot help but
3 observe that Mr Piccinin said that they wanted to be
4 pragmatic and helpful and that they would cause no
5 prejudice and they served a 47 page expert report
6 on the Saturday before trial.

7 MR PICCININ: That is not correct. It is not a 47. No,
8 that is not correct either, that is actually largely
9 Professor Hitt's CV.

10 MR WARD: I am told it is 27 operative pages, obviously
11 we are going to have to go through it.

12 MR PICCININ: It is under 27.

13 THE CHAIRMAN: I am sure we are going to have plenty of
14 opportunity to deal with the length of it and the
15 content from the sound of things. And the
16 complaints, the complaint is heard, Mr Ward, and
17 understood.

18 MR WARD: Thank you, sir.

19 THE CHAIRMAN: But let us deal with it in an orderly way
20 together later.

21 MR WARD: Unless you have any questions, those are the
22 opening submissions for the Class Representative.

23 THE CHAIRMAN: In that case we will rise and we will
24 start again at 2 p.m.

25 (12.55 pm)

1 (Break for lunch)

2 (2.00 pm)

3 Submissions by MS DEMETRIOU

4 MS DEMETRIOU: May it please the Tribunal. Dr Kent
5 advances a competition law case which is
6 oversimplistic. The central flaw in her case is
7 that it conspicuously mischaracterizes the very
8 subject of her claim, the App Store. The claim
9 proceeds on the basis that the App Store provides
10 developers with nothing more than distribution in
11 the sense of app discovery and download, and payment
12 processing services, but it is similar to platforms
13 like Steam and itch.io, that when it facilitates
14 in-app transactions it is comparable to payment
15 processes like Paddle. It is not.

16 The App Store is part of Apple's integrated
17 technology platform that comprises in combination
18 hardware and software, including iOS, its own
19 operating system and various other products and
20 services.

21 When Apple entered the mobile phone market with
22 the iPhone in 2007, it had to compete hard for
23 market share. There were already very successful
24 smartphones on the market at the time, from market
25 leaders Nokia, for example, and also the Blackberry

1 from RIM and manufacturers like Samsung who at that
2 time produced smartphones on the Palm OS operating
3 system. The vast majority of consumers did not have
4 smartphones at all, they used simpler devices from
5 the incumbent manufacturers like Nokia, Motorola and
6 Samsung. So Apple needed to win over new consumers
7 from all of those manufacturers. When Apple launched
8 the App Store in 2008, its share of the device
9 market, however you define it, was tiny. The App
10 Store was a key means of attracting consumers and
11 developers with the associated network effects. But
12 it is easy to forget that while the App Store was
13 revolutionary and spawned many a successful app
14 developers business, there were already third party
15 mobile apps, including games, available on other
16 operating systems. Different manufacturers and
17 mobile network operators offered different
18 distribution models, but it was common for
19 developers to receive significantly less than half
20 of what consumers actually paid for those apps.
21 This is a point that Mr Schiller explained when
22 giving evidence at trial in Australia, and there are
23 documents that we can look at in due course that
24 showed how it all worked.

25 The poor quality of the existing arrangements

1 back in 2007 and 2008 created an opportunity for
2 Apple to do something better, something that would
3 create enormous benefits for developers, consumers,
4 and therefore also, ultimately, of course for Apple.
5 It was a win-win-win. That opportunity was to
6 create a platform with software development tools
7 that were easy for developers to use. The platform
8 would have a store for developers' content that
9 looked attractive and intuitive, but even more
10 importantly the entire platform could be trusted by
11 consumers because Apple would retain control and
12 invest significantly in making it a secure
13 environment. The platform would offer financial
14 terms that were extremely attractive to developers.
15 Unlike previous offerings from Apple's competitors,
16 it allowed developers to cut out a long list of
17 middlemen and retain 70 per cent of what consumers
18 paid. We know that Apple's overall offering with
19 the App Store was extremely attractive to developers
20 because it attracted enormous interest from
21 developers in a very short space of time. Large
22 players like Electronic Arts were keen to invest in
23 developing for iOS. Vast numbers of small
24 independent businesses came into being as a result
25 of the creation of the App Store. Some developers

1 who launched apps on the iPhone have grown into
2 massive multinational corporations that turn over
3 billions of dollars a year.

4 We also know that it was an attractive business
5 proposition because competing developers like
6 Google, like RIM all rushed to create copycat
7 stores. They could see that they had to do that in
8 order to make devices that could compete with
9 Apple's iPhone. Some succeeded, notably the Google
10 Play Store and the Android operating system to which
11 it relates, others failed, as we know in our own
12 experience. There is no dispute about the fact that
13 Apple's success was down to the cut and thrust of
14 competition. It offered a high quality device and a
15 high quality platform for developers to create
16 content for consumers to use on those devices and
17 through the usual economics of two sided markets
18 that was a recipe for success.

19 To understand this case properly, we need to
20 look more closely, the Tribunal needs to look more
21 closely, in our respectful submission, than Dr Kent
22 does, at what it is that Apple actually provides.
23 Apple licences developers to use its proprietary
24 technology to create and publish apps for iOS.
25 Apple provides developers with the software

1 necessary to interface with Apple's devices and
2 operating systems. Apple also provides developers
3 with innovative technology, tools and services which
4 are the result of very substantial investment which
5 enables developers to create better and more
6 attractive apps. These include improvements to the
7 device itself, cutting edge software and App Review,
8 and all of these things attract developers to the
9 platform because the developers stand to gain very
10 substantial rewards, and in turn the platform is
11 more attractive to consumers, enabling Apple to
12 compete vigorously and successfully in the device
13 markets. More demand from consumers benefits
14 developers also. The markets for the development
15 and sale of mobile devices are very competitive even
16 to this day and we say that Dr Kent is somewhat
17 churlish in her reluctance to accept that fact, but
18 she does not allege, nor could she, that Apple is
19 dominant in those markets. We can see they are
20 competitive when we think about the pace of
21 innovation because newly invented devices with new
22 features and better performance and new operating
23 systems are released every year. Competition in
24 those markets takes place not only on price, but
25 also on quality, which includes factors like

1 privacy, security, performance, availability of apps
2 and so on.

3 Those are the ingredients that explain why
4 Apple has succeeded where others have failed and
5 they are also the parameters on which Apple
6 continues to compete against Android manufacturers
7 amongst others. A critical way in which Apple
8 distinguishes itself from its competitors in the
9 devices markets and also in the transactions
10 markets, is precisely that it offers an integrated
11 and centralised system whereby all apps can only be
12 downloaded and installed through Apple's App Store
13 and transactions for digital goods and services are
14 facilitated through Apple's commerce engine. It is
15 wrong to think of these as mere contractual
16 restrictions, as though Apple were a retailer saying
17 to a product manufacturer that if they want to use
18 the retailer's shop, they must commit to not using
19 other shops. The contractual provisions
20 establishing this system are in fact the scope of
21 the permission that Apple grants to developers to
22 use its tools and technologies that Apple has
23 invented and which are protected by Apple's
24 intellectual property.

25 Apple's decision to limit the scope of the

1 permission granted in this way is what allows Apple
2 to be more secure and protective of privacy and to
3 ensure that the apps which are available on its
4 devices conform to certain standards. A consumer
5 buying an iPhone can be confident that the whole
6 system will work, that there is much less risk of
7 them downloading harmful software, that their
8 payment details are protected and only need to be
9 given once, that records of payments are being
10 retained so that refunds can be made where
11 appropriate. That they will receive the content
12 they paid for and if they do not, Apple will assist.

13 In thinking about why that approach might be
14 valued by consumers, it is useful, in our respectful
15 submission, to think about the wide range of people
16 who use these devices. Some are old, others are
17 young, some are tech savvy, but many are not. Some
18 lend their devices to their children to use and then
19 carry on using them themselves for their personal
20 and work purposes afterwards. It is easy to
21 understand why knowing that it is essentially
22 impossible to download native apps on to a device
23 without Apple having scrutinised the app first might
24 be attractive to large numbers of consumers, and
25 also why any theoretical benefits of being able to

1 access apps from other sources might not weigh very
2 heavily in the balance for many consumers.

3 The Tribunal will hear evidence during the
4 course of this trial about the way in which Apple's
5 integrated system results in better performance,
6 privacy and security for end users than that that
7 provided by its competitors. But ultimately
8 competition law does not require the Tribunal to sit
9 in judgment on whether Apple's business model is
10 better than Google's or Samsung's or vice versa.
11 Competition law favours a market outcome in which
12 competitors design the products that they think will
13 sell best and their competing visions battle it out,
14 making changes over time, as they see fit, with
15 consumers deciding which they prefer.

16 We say it is ironic, given that this is a claim
17 by a consumer class, that the very premise of
18 Dr Kent's claim is that Apple should not be
19 permitted to distinguish itself from its competitors
20 by offering an integrated and centralised platform.
21 If Dr Kent's competition law arguments were well
22 founded, which they are not, consumers would be
23 deprived of this choice, a choice which has proved
24 to be extremely popular with them.

25 So thinking about the way in which Dr Kent's

1 case mischaracterises the App Store, the error can
2 be broken down into three propositions which are in
3 our submission central to the analysis of the issues
4 in this case.

5 Proposition one is that through the App Store,
6 Apple provides developers with a vast amount of
7 value in the form of technologies both hardware and
8 software and tools and services, not limited to the
9 narrow distribution and payment services which are
10 the focus of Dr Kent's case. The commission charged
11 by Apple is payment for the totality of those
12 services.

13 Proposition two is that as you would expect,
14 the tools and technologies that Apple permits
15 developers to use are proprietary to Apple, they are
16 protected by Apple's intellectual property rights.

17 Proposition three is that the so-called
18 restrictions, of which Dr Kent complains, are an
19 important facet of how Apple competes. Those
20 restrictions are essential elements of Apple's
21 integrated and centralised platform which is part of
22 how it distinguishes itself, an important part of
23 how it distinguishes itself from its competitors.
24 So the restrictions therefore actually constitute
25 competition on the merits in the devices markets,

1 and the transaction markets, and can equally be seen
2 as being objectively justified on the basis that
3 they are the means by which Apple provides higher
4 levels of privacy and security and performance.

5 These three propositions, commission is payment
6 for vast economic value, the tools and technologies
7 protected by intellectual property rights and the
8 requirements imposed by Apple are the means by which
9 it competes are, as I said, central to this case and
10 are points to which we will be returning.

11 Let me just give you two examples in relation
12 to each part of the case of why we say that is. So
13 first of all, the enormous value that Apple provides
14 to developers through the App Store, which is
15 protected by its intellectual property rights, so
16 propositions 1 and 2, are critical to the unfair
17 pricing case. If we go, please, to Professor Hitt's
18 report at {C3/4/210}, we can see there that
19 Professor Hitt shows at the bottom of the page the
20 huge increase in value associated with the App Store
21 since it was launched in 2008. During this time of
22 course, as we have explained in our skeleton
23 argument, Apple's commission has reduced and not
24 gone up. If we can look at the points being made,
25 if we can go over the page and let me focus just for

1 present purposes on (c) and (d) and just ask the
2 Tribunal to read (c) and (d) please to yourselves.
3 Of course the question in any unfair pricing case is
4 this. Does the price charged bear a reasonable
5 relation to the value provided to users? We say
6 that that question cannot be answered without
7 considering what the value is that is being provided
8 to users. You see here Professor Hitt explaining
9 the vast value that developers achieve from the App
10 Store.

11 We say that Dr Kent does not do this at all
12 because Dr Kent's case on unfair pricing, which is
13 hers to prove, fails entirely to take this value
14 into account. Instead she artificially slices out
15 the narrow set of distribution and payment
16 processing services on which she chooses to focus
17 and we say that is a critical error, one which we
18 foreshadowed in our application for reverse summary
19 judgment, and it is an error that Dr Kent has failed
20 to fix.

21 Second, all three propositions are of critical
22 significance to the exclusionary abuse allegations
23 and let me give you four reasons for that. Given
24 that the restrictions Dr Kent complains about are
25 the means by which Apple competes on the merits,

1 proposition three, this conduct cannot be abusive.

2 It is elementary that dominant undertakings are
3 allowed to compete on the merits and the integrated
4 versus decentralised debate is one that we see play
5 out in all sorts of markets and is a perfectly
6 normal aspect of competition.

7 The second reason is that what Dr Kent
8 characterises as exclusive dealing is not exclusive
9 dealing at all, it is Apple reserving to itself
10 particular activities in the exercise of its
11 intellectual property rights, proposition two. It
12 is of the essence of any intellectual property right
13 that the owner can decide whether and to what extent
14 to licence them. Apple has decided not to licence
15 firms to provide competing App Stores, it has
16 decided not to licence firms to provide payment
17 services. It has reserved these activities to
18 itself. Competition law only interferes with that
19 fundamental right in exceptional circumstances.
20 That is why if Dr Kent wanted to challenge the
21 restrictions, she needed to plead and prove that she
22 satisfied the conditions of the Magill case law.
23 She has not done that, and she cannot evade those
24 requirements by mischaracterising a refusal to deal
25 as exclusive dealing.

1 The third reason is that in the counterfactual
2 world, where the restrictions complained of by
3 Dr Kent are removed, it is inevitable that Apple
4 would wish to monetise the enormous value provided
5 by its IP protected tools and technology,
6 propositions one and two. We see a real world
7 example of that under the DMA in the European Union
8 because Apple has been required by the EU, not under
9 competition law, but under a specific piece of
10 legislation passed by the EU legislature, the DMA,
11 to offer different licensing conditions which permit
12 developers to distribute their iOS apps other than
13 through the App Store, and which permit rival app
14 stores to distribute rival iOS apps. Where a
15 developer chooses to move to the new business terms,
16 Apple charges a fee, the core technology fee, of 50
17 cents for each annual install of an app after the
18 millionth install in the calendar year.

19 So in so far as Dr Kent analyses the
20 counterfactual to her alleged exclusionary abuses,
21 she fails entirely to account for the charges that
22 Apple would make for use of its proprietary
23 technology, Dr Singer's analysis which purports to
24 show what Apple would charge in the counterfactual
25 assumes that Apple would charge nothing to

1 developers who use alternative distribution or
2 payment processing services. But it is obviously
3 important to account for the charges Apple would
4 make for use of its proprietary technology, not just
5 for calculating any damages, but fundamentally for
6 determining whether removing Apple's requirements
7 would lead to any appreciable increase in
8 competition.

9 Just while I am on this point, we make a more
10 general point which is that the competition rules
11 are not an appropriate means by which to address the
12 allegations raised by Dr Kent because, as we have
13 heard, any attempt to do so results in an overly
14 simplistic application of competition law principles
15 which is at odds with both the existing case law and
16 the fundamental realities of this market, these
17 markets and this product.

18 To the extent that there are concerns with
19 respect to market outcomes, these cannot be
20 addressed by challenging legitimate conduct under
21 the guise of the Chapter II prohibition or Article
22 102. We have seen that both the EU and the UK have
23 enacted legislation to create bespoke regulatory
24 regimes. Apple believes that the approach the
25 European Commission has taken under the DMA creates

1 risks for the security and privacy of consumers.
2 But leaving that point aside for the moment, the new
3 arrangements, as I have just explained, summarised,
4 the new arrangements for alternative distribution
5 and commerce introduced by Apple in the EU as a
6 result of the DMA look nothing, nothing at all, like
7 the simplistic world that Dr Kent's case envisages,
8 which is a world where Apple has to allow without
9 further considerations, competing distribution and
10 payment providers, reduce its commission,
11 compulsorily licence its IP and charge nothing for
12 the use of its tools and technology.

13 The fourth reason is that Dr Kent ignores the
14 link between the restrictions and Apple's approach
15 to security and privacy. The fact that the
16 requirements are necessary for Apple's approach to
17 privacy and security is a complete defence to this
18 claim, the defence of objective justification. Even
19 if that is wrong, what measures does Dr Kent say
20 Apple would put in place in the counterfactual in
21 order to mitigate the harm that decentralised
22 distribution would cause to security and privacy?
23 Is her case that Apple would impose charges for the
24 additional measures it would have to take, or is her
25 case that there would be a deterioration in privacy

1 and security and, if so, what then? Her case is
2 unclear.

3 So we say that it is only by ignoring the three
4 central propositions that we have identified that
5 Dr Kent is able to even begin to fashion an
6 argument. Once those central points are taken into
7 account, her case collapses. What we propose to do
8 during the course of our opening submissions is to
9 explore in a little more detail the points that I
10 have already summarised as well as, of course,
11 addressing the way in which Apple puts its case on
12 the remainder of the issues that the Tribunal has to
13 determine -- market definition, dominance and
14 incidence. We propose to structure the remainder of
15 our submissions as follows. We will first address
16 the Tribunal on some of the factual points that
17 underpin our three propositions. I will address you
18 on the tools and technologies that Apple provides to
19 developers. I will also show you how Apple grants
20 permission to developers to use its technology, and
21 Mr Kennelly will then address you on the privacy and
22 security aspects of Apple's platform.

23 Mr Kennelly will then outline Apple's case on
24 market definition and dominance. I will then
25 address you on the allegation of exclusive dealing.

1 Mr Kennelly will address you on tying and objective
2 justification, which is of course relevant to both
3 exclusive dealing and tying. Then back to me for
4 unfair pricing and then Mr Kennelly will address you
5 on incidence. That is how we have divided it up
6 between us.

7 Before we proceed with those topics, there is
8 one overarching point that I would like to mention
9 that follows from something Mr Hoskins said
10 yesterday. It was when he was taking the Tribunal
11 to parts of the CMA's market study, following his
12 discussion of *Hollington v Hewthorn*. If we can turn
13 up yesterday's transcript, to day 1, page 135, line
14 10 {Day1/135:10}. If you look at line -- if you
15 could read from line 10, you will see at line 14 he
16 says:

17 "One of the crucial issues will be whether
18 Apple has adduced sufficient evidence before this
19 Tribunal to cause you to come to a different view
20 than the CMA did."

21 Now I am not sure if Mr Hoskins meant to say
22 that, but it is obviously wrong to reverse the
23 burden of proof in that way because the burden in
24 these proceedings is on Dr Kent to establish that
25 Apple has infringed competition law. It is entirely

1 wrong, we say, to point to conclusions of regulators
2 and say that Apple needs to disprove those. That is
3 the wrong way of looking at this. Of course, if my
4 learned friends want to take you to particular
5 evidence that the CMA has considered and persuade
6 this Tribunal that it should reach the same
7 conclusions as the CMA did on that evidence, then of
8 course it is open to them to try to do that. But it
9 is not open to Dr Kent to ask the Tribunal to place
10 weight on the opinion that the CMA has reached.
11 This Tribunal must decide the issues for itself on
12 the basis of the evidence it hears in this case.

13 With those introductory remarks, I would like
14 to start by elaborating on proposition one, the
15 value Apple that makes available to developers,
16 which is what the commission is payment for. Could
17 we first start please with looking at Mr Schiller's
18 witness statement, {B2/5/19}.

19 You will see at paragraph 66(b) Mr Schiller
20 sets out in summary form what the App Store provides
21 to developers. I would just ask the Tribunal please
22 to remind yourselves of that paragraph. If you
23 could read it to yourselves.

24 Perhaps we could now turn, please, to page 59.
25 I just want to remind you of some of Mr Schiller's

1 evidence where he elaborates on some of these
2 points. If we look at paragraph 213 of
3 Mr Schiller's witness statement, we see that the
4 point that I made in my opening remarks, that Apple
5 is a product company and it considers the features
6 of its device holistically, a bundle of software,
7 hardware and services which combine to offer users
8 value. The developers obtain value by the combined,
9 use of the combined features of the product
10 including the hardware, so including for example the
11 camera, because if Apple invests money in making an
12 improvement to the camera on its device, then that
13 is going to be of value to developers who wish to
14 create apps which will use the camera because those
15 apps will be improved as a result of the
16 improvements to the hardware itself.

17 Then if we go to paragraph 214, the next
18 paragraph, Mr Schiller explains here that many apps
19 use multiple technologies that have been put in
20 place by Apple and gives us an example ARKit, so
21 augmented, AR stands for augmented reality. I will
22 come back to this in a bit more detail shortly.
23 Moving down in his witness statement to the top of
24 the next page, paragraph 215, he makes the point
25 that Apple has developed an extensive array of

1 software tools that it makes available to app
2 developers.

3 Then looking at 216, we see that Apple is
4 building and improving all the time its development
5 tools and then he gives some illustrative examples
6 of the tools which Apple has developed for and
7 provided to app developers. Of course, prior to the
8 App Store's launch, Apple invested substantial
9 resources in creating a software development kit for
10 developers. They could use Apple software and
11 related services in order to develop software that
12 runs on iOS. With each major release of iOS, Apple
13 releases new software development kits with improved
14 features. As Mr Schiller says there, these kits,
15 software development kits, assist developers to take
16 advantage of new technologies and features of iOS
17 and mobile devices.

18 Then at (c) he gives an example of the
19 introduction in 2014 of SpriteKit for iOS, which is
20 a powerful graphics framework built for developing
21 2D games. It included built-in physics support,
22 software, which for example governs the interactions
23 on a user's screen when two objects collide with
24 each other and simplified the process of developing
25 2D games.

1 Then we see at (d) the example of Metal, which
2 is a graphics, a powerful computer graphics API,
3 which developers use in the development of 3D games
4 or other professional applications.

5 Then if we scroll down, please, to subparagraph
6 (e), ARKit and Core ML. So ARKit I have mentioned,
7 and what it does in a nutshell is allows computer
8 generated images to be placed in the real world as
9 seen through a user's iPhone camera. So you are
10 pointing your camera at the room, and you can have a
11 computer generated image look like it is in the room
12 for you. That is technology that Apple developed
13 and which has multiple different applications in
14 games but also different types of app.

15 Then Core ML (machine learning) provides
16 developers with machine learning tools that they can
17 download a copy of to their devices, which enable
18 them to write software that would be difficult to
19 write using traditional software programming
20 techniques.

21 Then at 217 we see the vast numbers of APIs
22 that Apple has created and made available to
23 developers, and of course, it is constantly
24 improving these and fixing issues in them and
25 updating them.

1 Then at 218 there is a large array, range of
2 services which Apple makes available to developers
3 in the developer programme, which assist them to
4 test market and distribute their apps. Mr Schiller
5 has given some examples of those services in that
6 paragraph.

7 Now, can I show you what Mr Howell, the app
8 industry expert called by Dr Kent, says about Mr
9 Schiller's evidence regarding Apple's technology.
10 If we go to {C2/4/15}, that is Mr Howell's first
11 report. It is the top of the page, paragraph 26.3:

12 "Native apps are often created by developers
13 using amongst other things, libraries which are
14 proprietary to the owner of the operating system in
15 question. Mr Schiller's evidence is that, 'It is
16 not possible to build a native app for use with an
17 iOS device without using Apple's technology because
18 the operating system code and the applications
19 software code which are proprietary to Apple must be
20 compatible.' To the extent that iOS apps must use
21 Apple's proprietary libraries in order to do
22 anything useful, such as displaying something on the
23 device screen or responding to user actions, I agree
24 with this statement."

25 So that is common ground. We have elaborated

1 on some of this in the annex to our skeleton
2 argument. If we could pick that up now, please, at
3 {A1/6/1}. We have essentially drawn together
4 Mr Schiller's evidence as well as some publicly
5 available sources here in the annex. So at
6 paragraphs 1 to 10 there is an overview of the
7 technologies, tools and services that Apple provides
8 to developers, as I say, drawing on the evidence of
9 Mr Schiller as well as publicly available sources.
10 I am going to come back to the IP aspects of those,
11 but if we look at paragraph 5, a further point I
12 want to emphasise at this stage is that Apple's
13 development resources allow developers to unlock
14 vast capabilities enabled by advanced Apple
15 proprietary technologies with only a few lines of
16 code. For example:

17 "ARKit allows a developer to create a game
18 combining digital elements with the physical
19 environment around them, without having to invest
20 the substantial resources required to research and
21 develop that technology."

22 When I was trying to understand all this in
23 preparing the case, I came across a video on YouTube
24 of an 11-year-old boy who has made his own game
25 using ARKit, and it was something I felt I could do

1 myself because it does not use computer coding, as I
2 would understand that to be, you are really dragging
3 things from one box to another box.

4 This is all part of the value that Apple is
5 conferring on developers. Now, paragraph 6 refers
6 to the resources, including detailed guides and I
7 think, it is difficult to see, we have footnoted
8 some of the publicly available videos that are on
9 Apple's website. If the Tribunal has time it would
10 be worth just to understand the points we are
11 seeking to make to look at some of those videos.

12 Then paragraph 7, let me just take the Tribunal
13 through paragraph 7. We say that:

14 "The volume of Apple proprietary technology and
15 services provided to developers is enormous. It
16 includes various development environments, computer
17 program, software and functionalities ... These
18 innovations which are protected by Apple's IP rights
19 include", and we go through the different
20 categories. So the "SDKs, [...] the software
21 development tools in one package, that facilitate
22 the creation of apps. Around 200 frameworks for
23 iOS", and then if we go down, please, "around
24 250,000 APIs [which] provide the means by which
25 software (such as iOS and an iOS App) communicate

1 and interact with one another..."

2 These enable the apps to interact with other
3 technologies and functionalities of the device, so
4 for example including the camera.

5 "Apple's Xcode IDE (integrated development
6 environment) which provides developers with software
7 functionalities that are necessary to design,
8 develop and debug software for use on iOS."

9 Then at paragraphs 11 to 19, I said I would
10 come back to ARKit as an example, what we have done
11 here is set out some of the ways in which ARKit can
12 be used by developers to produce a variety of
13 different applications. So you can see at 12 that
14 what it does is "allows developers to create apps
15 that place virtual objects into a real world
16 environment as seen through the user's camera." So
17 if we go down please to the next page, so as the
18 device moves and the orientation of the camera
19 changes, the object stays in place. So it presents
20 this 3D object as though it is in the real world.
21 We say, for example, a retail app could use those
22 tools to show users how an object could look in
23 their home. So if you want to buy a sofa, you can
24 point your camera at your living room and
25 superimpose the picture of the sofa to see exactly

1 how it would look in place.

2 Then we say at 13 that these capabilities
3 "extend to immersive gaming experiences as
4 demonstrated by apps such as Pokémon Go" and we have
5 given a little illustration there as to what that
6 looks like, as well as educational apps, such as
7 Night Sky, which uses AR to provide interactive star
8 gazing experiences. So you point the device at the
9 sky and users can see stars and constellations and
10 planets overlaid on the sky in realtime. So you are
11 pointing at the sky and it is showing you what the
12 constellations are that you cannot see with your
13 naked eye, but it is superimposing that on your
14 real-world view.

15 If we go over the page, we see there an example
16 of -- the ability at 16 provides the ability to
17 track and visualise faces. So somebody selling
18 glasses, you can try on the glasses by looking at
19 your phone and that superimpose the glasses on your
20 face. These are just examples of the range of
21 functionalities that ARKit, which was developed by
22 Apple gives rise to, so the possibilities that it
23 opens up for different app developers.

24 Then if we go on please to the next page, 18 is
25 a point I wanted to come back to. It is the point I

1 was making a few moments ago, which is that the code
2 is very, very simple. So the code that is provided
3 to the developers is very simple, and I would just
4 ask the Tribunal to read this paragraph to see in a
5 slightly more informative way the point I was trying
6 to make when I referred to the 11-year-old making
7 the game by himself. It is translating something
8 very, very complicated that unlocks lots of
9 possibilities into just a few lines of something
10 very intuitive that developers can use, very easily,
11 without investing in a build-up of knowledge or
12 research and development.

13 Then if we go down to the next paragraphs,
14 please, so 19 is making that point. Can we go over
15 the page. At paragraph 20 we give the example of
16 UIKit which provides functionalities for managing
17 interactions, such as swipe gestures and scrolling
18 and zooming. I would ask the Tribunal in your own
19 time just to look at those paragraphs. These are
20 just examples of some of the technology that Apple
21 has developed.

22 Another example we see on page 9, paragraph 24,
23 StoreKit, so this enables developers to accomplish a
24 store front with very few lines of code. So Apple's
25 resources simplify building the store front, and so

1 developers can customise components that integrate
2 with Apple's in-app purchase system in a very simple
3 way to build their own store front. There are
4 resource, such as guides and videos, that explain
5 exactly how to do that.

6 Pausing here, when the Tribunal comes to look
7 at the alleged comparators relied upon by Dr Kent's
8 experts, which are PC app stores, like Steam and the
9 *Epic* Game Store and itch.io, none of these are
10 integrated platforms, because PCs are made by all
11 sorts of manufacturers not those parties, and the
12 operating systems on PCs are made by the likes of
13 Microsoft and Apple, not by those stores. So none
14 of those PC stores offer anything like this value to
15 developers. Their function is confined to narrower
16 functions like discoverability of apps, download and
17 payment processing and that is why they are not
18 proper comparators.

19 So to adapt Mr Howell's way of putting the
20 point, for a developer to develop a gaming app that
21 is sold on Steam or the *Epic* Games Store, the
22 developer does not need to use any technology
23 provided by those firms in order to do anything
24 useful with the game. What Apple provides to the
25 developers, what the commission Apple charges is for

1 is an entirely different proposition with value of a
2 very different order of magnitude. That really is a
3 fundamental point in these proceedings.

4 So by contrast to the position with these other
5 stores, the relationship between a developer and the
6 App Store is a collaborative one where both are
7 contributing substantially and substantively to the
8 end product.

9 If we turn within this document, please, to
10 page 11. So we have made the point that any single
11 app will be using any number of different pieces of
12 Apple's proprietary technology and software. Sorry,
13 at paragraph 29, so page 11, we give the example
14 here of *Epic's* Fortnite game and we take these facts
15 from *Epic's* own pleading in the US proceedings. And
16 so what *Epic* says is that it made use, in developing
17 the iOS version of the online video game Fortnite,
18 it made use of the following:

19 "Thousands of Apple's APIs for the development
20 of iOS Fornite...

21 APIs from the following frameworks in the
22 executable code of iOS Fortnite", and you see the
23 frameworks listed and there are a large number of
24 them:

25 "Apple's ARKit for internal experimentation and

1 demos of iOS Fortnite ...

2 The iPhone, iPad and Mac SDKs" (those are the
3 software development kits) "to develop iOS
4 Fortnite ...

5 Xcode IDE for writing and debugging code when
6 working the development of iOS Fortnite ...

7 Other tools included with Xcode IDE to measure
8 the performance of iOS Fortnite, to install builds
9 of iOS Fortnite on development devices and upload
10 builds of iOS Fortnite to Apple's Store Connect for
11 distribution.

12 Other tools ... beyond those referred to", and
13 so on.

14 So this is *Epic's* own evidence, own pleading.

15 THE CHAIRMAN: Can I ask you, there is potentially a
16 range of ways of looking at this because at one end
17 there are some things which are very obviously tools
18 for the developers to do things with and you see
19 some of them referred to here.

20 At the other end of the range you have got
21 things which Apple is innovating on the device,
22 which actually could be said to be largely for the
23 benefit of the user, or might be for the benefit of
24 the user and the developer. But I think from what I
25 am getting from what you are saying is, you would

1 say a great deal of that range, so for example the
2 modifications with the ARKit and the Store Kit and
3 so on, a great deal of that is actually aimed at
4 allowing developers to develop products that can
5 then go through the App Store. Is that -- am I
6 getting that sense? I think it is probably
7 impossible to draw a line and say, "This is for
8 users, this is for developers", but I am getting the
9 sense that you are presenting this as being the
10 weight of the effort that is going in here, the
11 development of apps. Is that fair?

12 MS DEMETRIOU: Yes, that is fair. If I could just make
13 two points by way of response. The first is
14 absolutely we agree that a lot of the very
15 substantial innovation that is protected by IP is
16 aimed at enabling developers to create apps and to
17 interact with the hardware and software that is on
18 the device. So a great proportion of that is aimed
19 at developers, but we make a wider point. This
20 really goes to the point about it being impossible
21 meaningfully to draw a line, because I gave you the
22 example of the camera. There is also LiDAR, so
23 scanning technology in the camera. Now on the one
24 hand, if one is trying to allocate it in your head
25 you might say, well that is a device thing because

1 it is about the camera. On the other hand, the
2 LiDAR technology and the camera itself, they are
3 critical for many apps. So when one is thinking
4 about, I do not know, an interior design app that
5 scans a room and gets the precise measurements, you
6 are using there ARKit and the LiDAR technology and
7 the camera that is on the phone. So when you are
8 thinking about, well who is this valuable to, well
9 it is obviously valuable to the consumer that has
10 the device but it is super valuable to the app
11 developer that is creating that interior design app.
12 It is what enables them to create that app and
13 monetise it. That is why it is really difficult to
14 draw these distinct distinctions.

15 THE CHAIRMAN: Thank you.

16 MR BISHOP: This is all very impressive, this technology.

17 One has the impression that the only way you could
18 develop an app is to do it on Apple, but my
19 impression is that developers, I know a couple
20 incidentally, socially, is that they say, "Oh we
21 have to develop two apps in this industry, one for
22 Apple and the other for the other for Android."

23 MS DEMETRIOU: Yes, so there will be evidence on that.

24 That is going to be covered in the evidence. But
25 the key point is that in relation to -- in order to

1 do either of those things, app developers need to
2 make use of proprietary technology. So in order to
3 do either, they need to make use of the proprietary
4 technology. So they are gaining value from that
5 technology.

6 When one thinks about -- there is another
7 dimension to that as well, sir, if I could just make
8 that point at this stage, which is, when one is
9 thinking about ARKit, so as I understand matters,
10 Apple was really at the forefront of developing
11 augmented reality for a phone. So it was the first
12 manufacturer to get that on to a phone. Then of
13 course Google then followed a year or so later. So
14 it is this innovation and competition in those
15 markets that enables technology to progress and
16 develop and provide new opportunities of value to
17 developers.

18 Now a simple way of illustrating the appeal of
19 Apple's proposition to developers and the value of
20 that proposition is to look at how developers have
21 responded to Apple software development kits and to
22 the possibility of them marketing, then marketing
23 their apps and their digital goods and services
24 through the App Store. As I mentioned when the App
25 Store and the first SDK were launched in mid-2008,

1 Apple had a tiny share of the device market. There
2 were also at that stage only 500 iOS apps. Then
3 what happened is that by the start of 2009, 15,000
4 iOS apps had been created by third party developers
5 and 500 million apps had been downloaded. This is
6 all material in the public domain. The reaction
7 from other device makers including Nokia, which had
8 by far the largest share of the device market was to
9 attempt to follow what Apple had done. So within
10 six months of the launch of the App Store, Nokia,
11 Research in Motion and others launched their own app
12 stores or announced that they would do so. Today
13 there are around 1.8 million apps currently on the
14 App Store and some 36 million developers have
15 created accounts with Apple. We do not need to turn
16 it up but that is Mr Schiller's statement at
17 paragraph 88.

18 So we say it is no exaggeration to say that
19 Apple has really kick started an entire industry.

20 Can I also show you what Dr Singer, Dr Kent's
21 expert, has said about the value that Apple provides
22 to developers and how this relates to the
23 Commission. If we go to the joint expert statement
24 between Dr Singer and Professor Sweeting at {C4
25 /2/19}. This is proposition 5, you can see the

1 proposition that:

2 "Apple currently monetizes the value of its
3 Proprietary Technology and Services through its
4 Current Commission Rates on Relevant Purchases
5 through the App Store."

6 You can see that Dr Singer "partially agrees",
7 he says that he agrees that:

8 "Apple monetizes this value through device
9 sales, through a flat £79 fee ... and through its
10 Commission on Relevant Purchases, Apple captures the
11 value of its Proprietary Technology and Services
12 through these revenue streams."

13 So it is common ground that the commission is
14 commission for the value conferred by Apple through
15 these proprietary technologies that they permit, in
16 a limited way, developers to use.

17 Now turning to our proposition 2, the
18 intellectual property rights that underpin this
19 technology, let me take you first of all to the
20 unchallenged evidence of Ms Harlow at {B2/2/1}.
21 Just in terms of chronology, when Mr Ward showed you
22 the letter from Gibson Dunn, that letter predated
23 this witness statement. So when we said we are not
24 in the end going to have an expert looking at this,
25 we then filed this witness statement after that

1 letter, from Ms Harlow. Ms Harlow is familiar, she
2 explains on what basis, with Apple's intellectual
3 property portfolio.

4 So if we go to the next page, please, you can
5 see at 5 she explains that is familiar with Apple's
6 IP portfolio. If we go to page 3, paragraph 10, you
7 can see that Apple is listed as the registered owner
8 of more than 5,000 registered US copyrights. I am
9 not going to read it out. Can I just ask the
10 Tribunal to read that paragraph. Then at 11:

11 "Apple provides developers limited licences to
12 a broad array of proprietary technologies and
13 services, underlying which are various Apple IP
14 rights."

15 12, that "Apple registers the copyrights in its
16 key software products" including iOS in
17 jurisdictions like the States where registration is
18 a feature of copyright law. Copyright also protects
19 software development kits, APIs and other software
20 products and tools. Then at 13, Apple obtains
21 patents to protect inventions relating to iOS, et
22 cetera, including development tools accessible by
23 developers through APIs. Then at 14:

24 "In order to access Apple's proprietary
25 technologies or services a developer must first

1 enter into agreements with Apple, including the ...
2 DPLA."

3 And 15, the licence that Apple grants to use
4 its intellectual property rights is limited in scope
5 and of course include the restrictions that are the
6 subject of Dr Kent's exclusionary abuse claim. I am
7 going to take the Tribunal back to the DPLA shortly.
8 If we just look at the list accompanying the annex
9 to our skeleton argument, {A1/7}, we have provided
10 here a non-exhaustive list of Apple's patents
11 relating to its proprietary user interface and
12 interaction technologies. Now these are all
13 obviously in the public domain and you can see from
14 the patent numbers that they are all European
15 patents or UK patents. I can tell you that all of
16 the European patents are designated in the UK, so
17 those technologies are patented here as a matter of
18 UK law too. Now obviously in this trial it would
19 not have been anything like feasible to conduct
20 anything like a patent trial on each of these
21 patents, explaining the detail of what they all do.
22 As you know we are not running a patent valuation
23 case which requires the Tribunal to analyse for each
24 patent or each intellectual property right how much
25 it is worth in isolation, or trying to fix any

1 particular value on them. The reason we wanted to
2 provide this list was to illustrate for you the
3 point that in addition to the copyright protection
4 that applies to all of Apple's software, Apple also
5 has a large number of patents that cover
6 technologies that developers take the benefit of
7 when they publish apps for iOS. If you can just
8 scan your eyes down the list of the titles, you can
9 see they kinds of things that are covered. So they
10 cover various specific aspects of the way that the
11 device and the operating system and the apps running
12 on it enable users to interact with their apps on
13 the devices.

14 Could we go back please to the DPLA, which
15 Mr Hoskins took you to. Having heard Mr Hoskins'
16 submissions, I do not think there is very much
17 between us on what it is the DPLA actually does, but
18 I just want to go back to it to emphasise a few
19 points. It is at {E/18}, please. You can see the
20 "Purpose" summarised and the first couple of
21 sentences:

22 "You would like to use the Apple software (as
23 defined below) to develop one or more Applications
24 [...] for Apple-branded products. Apple is willing
25 to grant You a limited license to use the Apple

1 Software and Services ... on the terms and
2 conditions set forth in this agreement."

3 Then we see at clause 1.1, in order to use the
4 proprietary technology, the developer has to accept
5 this agreement and if they do not they are not
6 permitted to use it.

7 Then if we can go, please, down to page 13
8 clause 2.6, at the bottom of the page:

9 "Except as otherwise set forth in this
10 Agreement, You agree not to rent, lease, lend,
11 upload to or host on any website or server, sell
12 redistribute, or sublicense the Apple Software ...
13 or any services, in whole or in part, or to enable
14 others to do so."

15 So you can see there that there is a
16 prohibition on using Apple's proprietary technology
17 in any way at all, other than for the limited
18 purposes set out in the agreement. That reflects
19 the point at the outset which is that this is a
20 limited licence to use Apple's proprietary
21 technology.

22 Then if we go forward please to page 18, at 3.2
23 you see, perhaps we need to go back to the bottom of
24 page 17, thank you. So use of the Apple proprietary
25 technology is limited by the subparagraphs that

1 follow, and if you look at (a):

2 "You will use [the technology] only for the
3 purposes and in the manner expressly permitted by
4 this Agreement."

5 So again it is making clear that the scope of
6 the licence is limited.

7 Then if we go to (c) please on the same page,
8 the application has to be developed in compliance
9 with the documentation and the programme
10 requirements. Those are set out in section 3.3
11 which we can look at in a minute. But if we go over
12 the page at (g), we see that applications developed
13 using the proprietary technology may be distributed
14 only -- so, I am going to leave aside the exceptions
15 because they are limited and everyone accepts they
16 are irrelevant to this case -- only for distribution
17 via the App Store.

18 Then if we look at clause 3.3 over the page,
19 the -- so applications may only use, have to comply
20 with the documentation and programme requirements in
21 clause 3.3, and this encompasses a requirement to
22 comply with the App Review Guidelines. Then 3.3.1:

23 "Applications may only use Documented APIs in
24 the manner prescribed by Apple ..."

25 As is I think common ground between us, one of

1 these is the in-app purchase API, another is the
2 external purchase API, so a third party payment
3 provider would have to use these APIs, so this
4 provision effectively precludes third party payment
5 processes.

6 And then 3.3, so B, at the bottom of the page,
7 "Executable Code". If we go over the page, this
8 provides that code, whether executable or
9 interpreted, can not be used to create a store front
10 for other codes or applications, so again it is
11 reinforcing the limited nature of the licence. Then
12 if we go to, if we look at C, there is prohibition
13 on using Apple's technology to create apps which
14 provide additional functionality through other
15 distribution mechanisms. Then if we skip forward to
16 page 42, clause 7, "Distribution of Applications and
17 Libraries", so applications developed under this
18 agreement can be distributed through the App Store
19 if selected by Apple. If we look at 7.2, this
20 concerns, again Mr Hoskins took you to it, and there
21 is no dispute between us in how we read it, it
22 concerns apps for which the developer intends to
23 charge end users a fee and developers are required
24 under this provision to enter into an agreement
25 under Schedule 2. What you can see at the end of

1 the first paragraph is that once the Schedule 2
2 agreement is concluded, then it is incorporated into
3 the DPLA. Let me just take you briefly away from
4 this document to Schedule 2. So that is at {E/22}.
5 We can see at page 4, paragraph 3.4. You have seen
6 it before but that provides for payment of the
7 commission. If we go back to the DPLA at {E/18/45},
8 clause 7.6. "No Other Distribution Authorized Under
9 This Agreement". Can I just ask the Tribunal just
10 to read to yourselves clause 7.6.

11 If I can just summarise very shortly the points
12 we take from the DPLA. There are seven material
13 points, I can summarise them shortly.

14 The first is that Apple does not permit any
15 developer to use its proprietary technology to
16 publish iOS apps unless it accepts the terms of the
17 DPLA.

18 The second point is that through the DPLA Apple
19 grants developers a limited licence to use its
20 proprietary technology for particular purposes and
21 in particular ways.

22 The third point is that Apple does not licence
23 developers to use its proprietary technology to
24 create an app marketplace for iOS apps.

25 The fourth point is that Apple does not licence

1 developers to use its proprietary technology to
2 publish apps that incorporate third party payment
3 processing services.

4 The fifth point is that Apple provides a
5 limited licence to its proprietary technology to
6 developers who wish to crease iOS apps. This
7 licence does not permit developers to create iOS
8 apps for distribution, other than through the App
9 Store.

10 Sixthly, it follows that Apple exercises its
11 intellectual property rights to reserve iOS
12 distribution and payment activities to itself.

13 Seventh and finally, developers who wish to
14 charge for their apps created using Apple's
15 proprietary technology, or charge for in-app
16 purchases, have to pay Apple a commission in respect
17 of use of that technology as well as in respect of
18 Apple's distribution services.

19 So those are the seven points that we take from
20 the DPLA.

21 Now that is what I wanted to say on the facts
22 about the tools and technology and the value that
23 Apple confers on developers through its tools and
24 technology and I was going to hand over to
25 Mr Kennelly to address the privacy and security

1 aspects on the facts. Now, unless you have any
2 questions for me at this stage.

3 THE CHAIRMAN: I think I asked Mr Hoskins what happens if
4 you start off with a free app and then move to a
5 paid one, 7.6 is the answer to that, is it not?

6 MS DEMETRIOU: Now I should have then taken instructions
7 about that but I remember agreeing with Mr Hoskins'
8 answer, which is if you want to then offer in-app
9 for purchases, for example, what you see in clause
10 7.2 is that you have to sign Schedule 2 and so that
11 then becomes incorporated into your agreement with
12 Apple. I do not know if you want Mr Kennelly to
13 start now or whether you want to take a break now?
14 We are in both of your hands.

15 THE CHAIRMAN: Mr Kennelly, would you like a bit of time?

16 MR KENNELLY: I am entirely in your hands, sir.

17 THE CHAIRMAN: Why not keep going. Let us get started
18 then we will take a break in ten minutes.

19 Submissions by MR KENNELLY

20 MR KENNELLY: As my learned friend, Ms Demetriou,
21 explained just now, Apple's integrated and
22 centralised approach is competition on the merits.
23 I will outline the factual background to that
24 submission that she will develop later in
25 exclusionary abuse, because we say the challenged

1 requirements are a means by which Apple competes on
2 the device market and on the transaction markets as
3 well, especially and this is my focus, on the
4 parameters of competition of safety, security,
5 privacy and quality.

6 At this stage, as I say by way of factual
7 background, I will summarise what Apple does and how
8 Apple uses its approach to differentiate itself from
9 Android and its other competitors when they compete
10 to sell mobile devices.

11 I will deal first with the importance of these
12 parameters of competition. For that I would ask you
13 to take up a document in the bundle. It is at
14 {D1/1273/1}. This is a report from 2022 published
15 by the National Cybersecurity Centre, as you can see
16 at the top of that page, that is a part of GCHQ. As
17 it says it is a "Threat report on application
18 stores, the risks associated with the use official
19 and third party app stores". This report focuses
20 among other things on the nature of the threat faced
21 by mobile device users in particular from
22 de-centralised app distribution. That is where a
23 multiplicity of app marketplaces operate on a
24 particular operating system. I would ask you to
25 turn to page 3 of this document. Sorry, it is

1 actually {D1/1273/3}. On the left-hand side.

2 THE CHAIRMAN: We are going to need it a bit bigger I
3 think.

4 MR KENNELLY: Sorry, I am looking at my hard copy. Just
5 by way of introduction:

6 "Over the last decade there has been an
7 enormous increase in the availability and use of
8 smartphones and smart devices. Many of these
9 devices feature application stores ('app store')
10 which allow users to download additional
11 applications and content. The vast majority of
12 users, particularly on mobile platforms, download
13 apps via these app stores.

14 There has also been increased demand for apps,
15 primarily as a result of the COVID-19 pandemic as
16 more people work, shop and stay in touch online.

17 Since there is a great variety of devices (and
18 supporting app stores), there are a number of
19 disparate and complex security issues that can
20 expose consumers and enterprises to online threats."

21 You see the purpose of the report, just
22 skipping down a few lines, was to inform Government,
23 DCMS "on current threats associated with app
24 stores."

25 If you go please to page 4, {D1/1273/4}, you

1 see at the top the key statistics for UK adults.
2 Just to emphasise to the Tribunal the enormity of
3 the challenge in this case and the importance of the
4 parameters of security and privacy that we address.
5 Because the extent to which UK consumers are exposed
6 to app stores is truly striking. 87 per cent, and
7 this is from over two years ago, own a smartphone;
8 28 per cent download apps every month, 16% download
9 apps weekly and on average 2.8 hours a day spent
10 using apps, not just on the phone but actually using
11 apps themselves.

12 Below that you see three columns of text on the
13 same page and I draw your attention, if I may, to
14 the middle column:

15 "Apple and Google provide their users access to
16 a dedicated App Store [(App Store for Apple, the
17 Play Store for Google)] where they can download free
18 and paid apps[...[OEMs]] also provide stores such as
19 the Huawei AppGallery, the Samsung Galaxy Store and
20 Amazon's App Store", there is also IoT devices:

21 "The UK is amongst the leading nations for
22 consumer spends and downloads on Apple's App Store
23 and the Google Play Store."

24 You see the figures for downloads, 52 per cent
25 of UK consumers have downloaded apps from the Google

1 Play Store, 44 per cent from the Apple App Store.

2 To the next column on the right on the same page,
3 dealing with the threat surface:

4 "Furthermore, the effect of COVID-19 (with
5 remote working and socialising [...] has accelerated
6 the number of installations of applications across
7 all devices. Six in ten households have increased
8 their use of IoT devices with the average household
9 purchasing two more smart devices since the
10 beginning of the pandemic. Meanwhile, the gaming
11 population has increased by 63 per cent during the
12 course of the pandemic."

13 Immediately to the right of that:

14 "What is the risk? Given the market for apps
15 in the UK, it is important that UK consumers can
16 trust apps (and the stores that host them). If
17 popular apps available on app stores are
18 compromised, millions of users are potentially
19 vulnerable, whilst vendors could face financial and
20 reputational damage.

21 As the following sections in this report
22 explain, even official app stores, [such as the App
23 Store and the Play Store], with vetting processes to
24 detect malicious functionality in apps have been
25 impacted by malware. Furthermore, the current

1 well-known third party app stores" -- and there will
2 be great focus on those in the trial -- "(that is,
3 stores which are not provided by the manufacturer or
4 the operating system provider) appear to have less
5 robust vetting processes and so represent a greater
6 risk."

7 In the same document, please if we go to page
8 5, {D1/1273/5}:

9 "Cyber attacks on compromised apps". Just to
10 pull out on the right-hand side please of that
11 document, "Systematic vulnerabilities of app store
12 developer submission checks":

13 "A number of systemic vulnerabilities within
14 app store submission processes have been exploited
15 by attackers."

16 I am just looking at the first two because
17 these you will see in the evidence when we come to
18 look at it:

19 "App republishing occurs when an application is
20 copied and redistributed through third party app
21 stores with malicious code added. If an app is
22 banned in their native country (or has been removed
23 from the official app store) a user may try and
24 download it via a third party store."

25 Immediately below that, "[App] updating":

1 "When a legitimate [app] has already been
2 reviewed and published, but the next update contains
3 malware [and] [t]his may be due to the developer
4 choosing to included malicious code, or an attacker
5 compromises the developer's system and inserts
6 malicious code into the release."

7 If you go please on to page 6, the next page,
8 "Overview of app stores". On the right-hand side
9 under the heading, "Third party app stores":

10 "Unlike iOS, the Android platform allows for
11 third party app stores. These are app stores that
12 users must download or access separately" -- and
13 this is important members of the Tribunal when we
14 come to look at the balance that the various app
15 stores strike in their approach to safety and
16 privacy as opposed to openness and risk appetite --
17 "typically characterised by their focus on user and
18 developer freedom (as opposed to the safety and
19 privacy of users)."

20 Skipping past jailbreaking which is not
21 relevant for present purposes:

22 "While there are less people using the most
23 common third party app stores (compared with
24 official app stores), a lack of robust vetting
25 processes means that their users are especially

1 vulnerable to threat actors uploading malware, as
2 the case studies show. The threats from official or
3 third party stores include spyware, banking malware
4 and malware used for toll fraud."

5 Just to wrap up this document, at {D1/1273/11},
6 there is a summary, second paragraph:

7 "While all app stores share the same threat
8 profile, mobile app stores are the most commonly
9 targeted due to the sheer number of smartphone
10 users, and the wealth of data stored on modern
11 smartphones. Users of third party mobile app stores
12 are particularly vulnerable, due to their lack of
13 robust vetting processes."

14 That is just to tee up, members of the
15 Tribunal, the wealth of evidence that is coming your
16 way on these questions of safety and security.

17 I move on now to what Apple is doing about
18 this.

19 THE CHAIRMAN: Is that a convenient moment?

20 MR KENNELLY: Yes, this may be a convenient moment.

21 THE CHAIRMAN: Ten minutes, thank you very much.

22 (3.15 pm)

23 (Break)

24 (3.25 pm)

25 MR KENNELLY: Members of the Tribunal, I was moving on to

1 what Apple is doing about these threats, and I was
2 going to take you to Mr Federighi's statement, not
3 all of it, just the highlights. Two points arising
4 out of what Ms Demetriou said, first to show you how
5 Apple seeks to differentiate itself by dealing with
6 these problems, but also by offering a more
7 attractive platform in real terms to developers and
8 users in relation to safety, security and privacy.
9 Mr Federighi's statement -- if you go straight to
10 {B2/3/11}. We will just get straight in to where he
11 deals with the potential types of attacks on Apple
12 devices. At paragraphs 42 to 43, he makes the point
13 that, and much of this is uncontroversial,.
14 The devices "face a number of different types of
15 threats, some which seek to override or otherwise
16 infect the underlying device by exploiting a
17 vulnerability, and some of which manipulate or fool
18 a user into voluntarily ceding control of their
19 device." that is an important distinction we will
20 come back to because on one level it might be said,
21 "The hardware contains all the security protection
22 you need."

23 What Mr Federighi and the experts go on to
24 address is that is not enough, which is why more is
25 required and is provided at least in Apple's case.

Paragraph 43:

"Consumer malware may be the most commonly known of [those] threats. If malware, or malicious software, can bypass security protections on a device, it can inflict various types of harm, such as unauthorised surveillance of the user, vandalising, destroying, or stealing user information, encrypting the user's data as part of a ransomware demand, or using the device's controls to spread malware to others" -- an important point, a vulnerability on someone's device or through software one downloads, isn't a problem just for you, the downloader, it can be a serious problem for your contacts and for others who may be contacted from your device -- "and/or wreak additional damage to the device or a connected network".

Skipping down, 44:

"Critically, we have seen that bad actors are turning to social engineering attacks more frequently because they lower the cost of developing a successful attack. [Because] rather than needing to write software that is capable of breaking through existing security protections, a social engineering attack manipulates the user into deliberately disabling and/or circumventing existing

1 device protections to voluntarily give the attacker
2 access to the user's device and data. [And that]
3 means that even where a user believes they are
4 choosing to download only the 'official' or
5 'authorised' version of an App, that user may be
6 coerced or tricked into doing otherwise. Moreover,
7 because they rely on manipulation of a user rather
8 than a virus or software code, [...] associated
9 malware, malware scanners will not detect social
10 engineering attacks" -- in general.

11 47, over the page -- I am skipping the
12 examples. I am sure Mr Federighi will be taken to
13 these in cross-examination:

14 "For similar reasons, social engineering
15 attacks can be more difficult to stop. A malware
16 scanner can identify and search for known malware
17 software or the vulnerability exploited by malware
18 can be patched in update [...] With a fake banking
19 App it looks very similar to the authentic banking
20 App there may not be a virus or other malware code
21 that can be readily detected by a malware scan."

22 Skipping down to 49, we see how Apple has
23 approached security with this in mind:

24 "Apple has taken an in depth approach --
25 sometimes referred to as 'defence in depth' -- to

1 its security. [It is] a multilayered architecture
2 ... to ensure that even if one layer is temporarily
3 circumvented, there are multiple other layers of
4 security ready to protect against malicious threats.
5 [The idea is that it increases] the chance that an
6 attack will be economically unviable for attackers."

7 Skipping ahead to page 14 just pulling out the
8 headings which describe in summary the defence in
9 depth, you have the bottom of page 14 "Hardware,
10 Security and Biometrics", so "Apple has built
11 security protections into the hardware of the
12 devices themselves." Over the page, page 15,
13 paragraph 55, "Software and Operating System
14 Security", "Apple also employs numerous encryption
15 and other software techniques to enhance its
16 hardware protections" and those are listed at that
17 page and over the page.

18 At page 16 please, could you look at paragraph
19 58, this will tee up an issue that will be debated
20 between the experts in relation to the significance
21 of code signing. At paragraph 58:

22 "App code signing process. Code signing is a
23 cryptographic technique used to try to ensure that
24 the only software installed on an iOS Device is
25 trusted. Apple requires that any software installed

1 on an iOS Device be 'signed' with an Apple-issued
2 certificate."

3 You will see later the distinction between that
4 and the approach in Android:

5 "When the operating system is asked to the
6 software, it will verify whether the software was
7 signed by someone with a trusted certificate."

8 Skipping down a sentence:

9 "After an App is verified to be from an
10 approved source, iOS enforces other security
11 measures, such as sandboxing and ASLR", and I will
12 come to sandboxing in a moment.

13 Then 59, although code signature is an
14 important deterrent, it has certain known
15 weaknesses. The signing infrastructure can be
16 compromised. Mr Federighi speaks of attacks where a
17 threat actor has obtained control of the signing
18 infrastructure of an otherwise legitimate developer,
19 and the actor is able to submit Apps that look like
20 they have come from a legitimate developer and if
21 approved for distribution, will look to the user
22 like they come from a trusted developer.

23 Over the page at paragraph 61 we see
24 sandboxing. Mr Federighi summarises it three lines
25 down in that paragraph:

1 It "essentially creates a boundary around a
2 piece of software to ensure that it is contained,
3 thus restricts access by that software (such as an
4 App) to a subset of system resources and user data.
5 Apple requires all third party Apps to be sand boxed
6 to prevent them from accessing files stored by other
7 Apps or making changes to the device or gathering
8 and modifying information stored by other Apps."

9 At 62:

10 "While sandboxing is a very effective security
11 tool, it can be compromised by social engineering."

12 This is important because it shows how problems
13 spread out of the App on to the device and beyond:

14 "Sandboxing can prevent one App from accessing
15 the data stored by another App, unless the user
16 provides consent. Certain Apps will elicit this
17 consent through deceptive means, [by downplaying or
18 hiding the implications of consent], or they may do
19 so by conditioning access to an unrelated feature."

20 So to get to the next level of the game you
21 need to give us access to your contacts or your
22 photos:

23 "[On] either scenario, the App at issue will
24 have bypassed the sand box protections because of
25 the user's help and without needing to overcome

1 Apple's security measures. All the operating system
2 can do is enforce what the user says they want the
3 software to be allowed to do." This is why social
4 engineering attacks are so difficult to stop.

5 In relation to stopping them, Mr Federighi goes
6 on to centralised distribution and App Review. Now
7 we come to the heart of what distinguishes Apple.
8 At paragraph 64, again by reference to social
9 engineering attacks he makes point that that will
10 not be spotted by a malware scanner and at paragraph
11 65 he says:

12 "Given the heightened threat model for iOS
13 Devices, we have thus built critical additional
14 security layers on top of these ... security
15 protections."

16 At 66:

17 "[We use] centralised distribution to
18 distribute Native Apps" -- and by that he refers to
19 how apps are distributed to the user -- "A
20 centralised App distribution model is one in which
21 the operating system is required to go to a single
22 location in order to download Native Apps to the
23 device and there is a single point of enforcement.
24 Use of a centralised distribution model ensures that
25 a user is getting Native Apps from a reliable

1 source."

2 Over the page to "App Review". It is a
3 critical part of Apple's security and defence in
4 depth is App Review. In summary, paragraph 69:

5 "App Review [involves reviewing each and] every
6 App and App update approved to the App Store in an
7 effort to ensure [...] that the App Store will
8 'provide a safe experience for users get apps and a
9 great opportunity for all developers to be
10 successful.' [The mission is to] hold Apps to clear,
11 published and high standards for privacy, security
12 and safety, to assure [users] that they can expect
13 to go to the App Store and get safety and trusted
14 Apps whose content and software have been reviewed",
15 but also to provide that assurance for the benefit
16 of developers.

17 Paragraph 71:

18 The review team "reviews not just [the] binary
19 code for the App, [(the software)] -- but also the
20 configuration files, the instructions that describe
21 how the App should behave, and user facing images
22 and icons provided by the developer."

23 So the reviewer is not looking just at the
24 content of the actual app, but what users will see
25 when they decide whether or not to download the app

1 giving users an assurance that it is not being
2 misrepresented as to what it will do and process
3 ongoing. App review continues to review apps even
4 after they have been approved to ensure that they
5 remain safe and trustworthy. To that end App Review
6 will remove apps later found to be malicious or
7 unreliable from the app store as well as to
8 terminate malicious app developers as well as to
9 prevent them submitting any more apps. They also
10 review ratings and reviews published on the App
11 Store, that is a critical part of security
12 protection for signs of fraud or misrepresentation
13 and will remove ratings and reviews that are
14 fraudulent themselves.

15 Page 23, please, skipping ahead to the steps in
16 App Review. We will go into this in more detail
17 when Mr Kosmynka gives evidence but just again
18 headlines. Paragraph 79:

19 "Every App approved to the App Store is then
20 reviewed through [...] static and the dynamic
21 computer analysis [...] as well as manual human
22 review." Apple has generated, as you can imagine, a
23 "repository of knowledge from over a decade of App
24 Review" and the benefits of knowledge of its own
25 hardware and software. No other mobile ecosystem

1 secures privacy, security safety in this way."

2 You can put Mr Federighi's statement aside for
3 now. The short point that I seek to make from it,
4 and Ms Demetriou will go into this in more detail on
5 exclusionary abuse, is that Apple uses these
6 requirements to differentiate itself from Android
7 and its other competitors in the device market and
8 to persuade developers or users to use its App Store
9 rather than other platforms.

10 MR FRAZER: Can I just ask one question. You talked
11 about the importance of social engineering concerns,
12 is it your submission that the unique
13 characteristics of the App Store and the Apple
14 software review process are effective against those
15 are just against malware?

16 MR KENNELLY: Our evidence, but Mr Federighi, Professor
17 Rubin and Mr Kosmyinka will speak to this, it is
18 clear that Apple's App Review is directly intended
19 to address social engineering attacks as well as
20 malware attacks and viruses, and so forth. In fact,
21 our evidence is that Apple's App Review is best
22 placed and demonstrably best placed to address
23 social engineering attacks because of the nature of
24 its human review involvement. It is better placed
25 to address those in the way, for example, that a

1 machine, a computer, even a sophisticated one,
2 cannot. There will be extensive evidence on that
3 point. That is a point on which Apple seeks to
4 distinguish itself from its competitors and markets
5 itself accordingly.

6 The point I was coming on to is that Apple says
7 its App Store is genuinely safer than its rivals and
8 I will take you to the evidence on that in summary.
9 What matters at this stage is something even more
10 obvious, that the challenged requirements are
11 central to Apple's competitive offering to consumers
12 and developers. This emphasis on security and
13 privacy is central to its competitive offering on
14 which it competes on the merits. Its competitive
15 offering is that its devices on the App Store are
16 more private, secure and safe and of higher quality
17 than its rivals because of its centralised and
18 integrated approach.

19 To make that good, I will take you, if I may,
20 to two categories of documents. The external story
21 that Apple tells and third-party documents that
22 recognise how Apple has told that story, and its
23 significance, the extent to which that story has
24 landed in the general public, consumers and
25 developers alike.

1 If I may go first then to Apple's own external
2 marketing. I begin, this is not a new contrivance
3 which Apple has dreamt up in order to deal with
4 competition concerns, this has been at the heart of
5 the App Store since it was launched in 2008. If I
6 could ask you to turn first to {D1/36/26}. This was
7 Steve Jobs' launch of the App Store in 2008. In the
8 course of the presentation, during which the App
9 Store was launched, you see on that page 26 the last
10 question indicated by the letter Q asks -- I should
11 say that if you go to the first page of this
12 document just to show who is speaking. Second page,
13 please, you can see from the key that "S" is Steve
14 Jobs and "SF" you will see him in a moment, is Scott
15 Forstall. He has a word also. But skipping ahead,
16 please, again to page 26, the question that is asked
17 is:

18 "What sort of safeguards have you built in to
19 make sure that all these apps and applications that
20 are going to be coming on to the iPhone are secure?"

21 We are in the birth of the App Store itself, so
22 this is necessarily a summary of what was to come,
23 but Mr Jobs says:

24 "That is a good question ... [w]hat have we
25 done to make sure that these applications are going

1 to be secure and don't violate user privacy",
2 privacy was central to Apple's competitive offering
3 from the very beginning.

4 Skipping down that paragraph to the last
5 sentence, Mr Jobs says:

6 "We want to take the reliability and
7 dependability of that iPod and we want to take the
8 ability to run third party apps from the PC world
9 but without the malicious applications. So how are
10 we going to do that?"

11 Mr Jobs then goes on to identify two ways in
12 which that would be done, two ways that guide
13 Apple's treatment of this issue right through to the
14 present day.

15 The first goes to identifying and verifying
16 developers themselves. He says:

17 "We are going to get developers to register.
18 With us [...] they [will] pay to join the program,
19 [they will get a certificate,] and that tells us who
20 they are, so if they write a malicious app we can
21 track them down [...] We know who they are."

22 Over the page, the second key aspect of this:

23 "The other thing that we can do, since the
24 distribution of their applications is going to be
25 through the App Store" -- and I would add only

1 through the App Store -- "if we are alerted to a
2 malicious app that we don't catch, we'll turn off
3 the spigots so no more people download it. So we
4 are putting controls in place, some of which we are
5 talking about here today and others which we'll just
6 keep to ourselves for now to keep the iPhone a great
7 experience."

8 Then Mr Forstall follows up by saying:

9 "Technically, we are putting a number of
10 different things in place from sandboxing to other
11 technical things you want to do to protect apps and
12 the system, but primarily we are actually, when
13 people submit their applications, we will make sure
14 that it's not doing things it shouldn't be doing."

15 That went on to become App Review, which
16 Mr Kosmyinka will speak to in more detail.

17 Just tracking through in time to how a
18 competitive offering manifests itself today, we see
19 a typical example of that in {D2/317/1}. The
20 emphasis again on trust:

21 "The apps you love from a place you can trust.
22 For over a decade the App Store has proved to be a
23 safe and trusted place to discover and download apps
24 [...] It is an innovative destination [to bring you]
25 amazing experiences and a big part of those

1 experiences is ensuring that the apps we offer are
2 held to the highest standards for privacy, security,
3 and content."

4 THE CHAIRMAN: What is this, Mr Kennelly? That is
5 presumably when you land on the App Store page?

6 MR KENNELLY: This is everywhere. You see this -- in the
7 course of the trial you will be buried in material
8 like this. Apple has been telling this story and
9 this message relentlessly since the App Store was
10 created. I am giving you the highlights. There are
11 many more. It is central to Apple's marketing. The
12 extent to which you get it on the App Store itself I
13 would have to check.

14 THE CHAIRMAN: I was thinking about the document.

15 MR KENNELLY: I think it is taken from Apple's website.

16 THE CHAIRMAN: Marketing or some sort --

17 MR KENNELLY: It is the web page of the App Store. The
18 reason why I hesitate is because there are also
19 hundreds of press releases where Apple is
20 emphasising this point again and again to the market
21 to distinguish itself from its competitors. An
22 example of that is page {D1/1800/1}. The Tribunal
23 has my point. I am not simply here delivering
24 advertising on behalf of my client. This message is
25 central to the case for the reasons I have already

1 explained and Ms Demetriou has explained. You see
2 that again in the end of the first paragraph:

3 "Today, the App Store stands at the forefront
4 of app distribution, setting the standard for
5 security, reliability, and user experience."

6 Over the page, Apple's marketing continues.
7 How does it market itself? It says:

8 "From 2020 through 2023 Apple prevented a
9 combined total of over \$7 billion in potentially
10 fraudulent transactions, including more than \$1.8
11 billion in 2023 alone. In the same period Apple
12 blocked over 14 million stolen credit cards and more
13 than 3.3 million accounts from transacting again
14 [...] Apple found that in 2023 it rejected more than
15 1.7 million app submissions for failing to meet
16 Apple's stringent standards for privacy, security,
17 and content" -- there was 1.7 million that got
18 through the initial stage for App Review and were
19 rejected -- "In addition, Apple's persistent efforts
20 to stop and reduce fraud in the App Store resulted
21 in the termination of nearly 374 million developer
22 and customer accounts" -- people that had got
23 through and were revealed to have been acting
24 fraudulently -- "and the removal of close to 152
25 million ratings and reviews over fraud concerns."

1 This tells you the extent of the problem, but
2 also the extent to which Apple is dealing with it.

3 Account fraud, next paragraph three lines down:

4 "In 2023 Apple terminated close to 118,000
5 developer accounts." It was a reduction from the
6 previous year thanks to an improved process for
7 dealing with potentially fraudulent accounts.

8 Sorry next page, page 3, please. App Review:

9 "Apple's App Review team of over 500
10 experts" -- 500 experts -- "evaluates every single
11 app submission -- from developers around the
12 world -- before any app ever reaches users. The
13 team reviews approximately 132,500 apps a week, and
14 in 2023, reviewed nearly 6.9 million app submissions
15 helping more than 192,000 developers publish their
16 first app on to the App Store."

17 Just to give you again a taste of how Apple is
18 explaining the problems that arise to the market,
19 the last two paragraphs on that page, page 3, the
20 Tribunal can read to yourselves, dealing with the
21 kinds of problems that arise that Apple is helping
22 address.

23 THE CHAIRMAN: I am not sure we have that.

24 MR KENNELLY: Document presenter, bottom of that page,
25 please.

1 CHAIRMAN: Thank you. Yes.

2 MR KENNELLY: Thank you. Could you go now please to
3 {D1/972/1}. This again is a page from the App Store
4 and again it emphasises Apple's approach. Next
5 page, please. Apple says:

6 "We created the App Store with two goals in
7 mind: that it be a safe and trusted place for
8 customers to discover and download apps, and a great
9 business opportunity for all developers.

10 We take responsibility for ensuring that apps
11 are held to a high standard for privacy, security
12 and content because nothing is more important than
13 maintaining the trust of our users."

14 Over the page, in our submission emphasising
15 the integrated and centralised nature of the
16 offering:

17 "It is our store and we [Apple] take
18 responsibility for it. We believe that what's in
19 our store says a lot about who we are."

20 It goes on to summarise the nature of the
21 controls and limits that govern was goes on to the
22 App Store.

23 At page 4 over the page the emphasis is placed
24 on the fact that Apple reviews every app and every
25 update.

1 Finally, on Apple's presentation to the market,
2 and the focus on privacy, which is again a critical
3 differentiating factor in Apple's case, at
4 {D2/388.1}, this is the, "Privacy. That's iPhone"
5 poster campaign. You can obviously see the ad, but
6 if the document presenter could scroll down through
7 this document and just keep going because really a
8 point I want to get across is the nature of the
9 marketing that we see, reflecting the focus that
10 Apple places on privacy in App Review and a key
11 distinguishing factor, as you will see. To show
12 that the external presentation that Apple creates
13 has been recognised externally, I would ask you now
14 to go briefly to some third-party commentary on it.

15 I go first, if I may, to an article published
16 by Dr Kent's own expert, Professor Lee, from whom we
17 will be hearing in the course of the trial, that is
18 {D2/626}. It is an article about Jekyll apps on
19 iOS, and you will see that Professor Lee, Wenke Lee,
20 is the last name on the list of authors from the
21 Georgia Institute of Technology. The short part I
22 want to take from it is on the first page of the
23 article, page 2 of this document please. If you
24 could zoom in please on the bottom of the first
25 column. Professor Lee, among others, makes the

1 point that by the end of -- it is under the heading
2 "Introduction", second sentence:

3 "By the end of June 2012, Apple had sold 400
4 million iOS Devices ... despite the tremendous
5 popularity and the history of iOS, only a handful of
6 malicious apps have been discovered. This is mainly
7 attributed" -- and again I take you to this to show
8 the impression which Apple's marketing and the data
9 has created -- "to the advanced security
10 architecture of iOS and the strict regulations of
11 the App Store."

12 On the second column, you see on the second
13 column, second main paragraph:

14 "According to the official App Review
15 Guidelines, developers should expect their apps to
16 go through a thorough inspection for all possible
17 term violations. During this process, many reasons
18 can lead to app rejections, such as stealing data
19 from users and using private APIs reserved for
20 system apps."

21 Again I emphasise the next paragraph, Professor
22 Lee says:

23 "Although the technical details of the review
24 process remain largely unknown, it is widely
25 believed that such a selective and centralised app

1 distribution model has significantly increased the
2 difficulty and cost for malicious or ill-intended
3 apps to reach end users."

4 Could you go next please to {D1/1355/1}. This
5 is a review on security and privacy policies in apps
6 and app stores. It is a review of the literature
7 prepared by the professor of computer science at
8 Nottingham University for the *United Kingdom*
9 Government, for the Department of Digital, Culture
10 Media and Sport. If you go please to page 3 and
11 perhaps it is best to zoom in. It is hard to read.
12 I would ask you to go to the second paragraph of
13 that executive summary, and to skip down to the
14 second last sentence because the report notes that:

15 App stores "vary considerably in terms of their
16 associated security and privacy provisions. This
17 includes both the guidance and controls provided to
18 safeguard app users, as well as the policies and
19 procedures in place to guide and review developer
20 activities.

21 Evidence suggests that many users have concerns
22 regarding the ability to trust apps and their
23 associated use of data. As such, they find
24 themselves very much reliant upon the processes put
25 in place by app stores to check the credibility of

1 the apps they host. In reality, however, practices
2 vary significantly across providers -- ranging from
3 stores having clear review processes and attempting
4 to ensure that developers communicate the ways in
5 which their apps collect and use users data, through
6 to situations in which apps are made available in
7 spite of having known characteristics that could put
8 users' devices and data at risk. When it comes to
9 supporting users this review reveals that app stores
10 have varying approaches with correspondingly
11 variable levels of information and clarity. This is
12 observed in terms of both the presence and content
13 of related policies as well as in relation to
14 supporting users' understanding when downloading
15 specific apps. The latter is particularly notable
16 in terms of the presence and clarity of messaging
17 about app permissions and handling of personal data,
18 with some stores providing fairly extensive details
19 and others providing nothing that most users would
20 find meaningful."

21 Finally, I take from this page the next
22 paragraph:

23 "There are also notable variations in how
24 different app stores guide and support app
25 developers, including the level of expectation that

1 appears to be placed upon providing safe and
2 reliable apps that incorporate appropriate
3 protections and behaviours in relation to users'
4 personal data. While some stores include formal
5 review and screening processes and scan apps to
6 prevent malware, others offer a more permissive
7 environment that enables threats and risky app
8 behaviours to pass through without identification."

9 If you go now please to page 6 of this,
10 {D1/1355/6}. Again, we will be relying on this
11 material for the question of competition on the
12 merits and objective justification in due course.
13 Operating systems platforms, second paragraph:

14 "Given that the combined worldwide market share
15 of Android and iOS now accounts for almost 99% of
16 smartphone devices, it is most relevant to consider
17 the position in [those] contexts."

18 Then this in terms of market perspective:

19 "Historically there has been a notable
20 difference in the stance each takes[,that is Android
21 and iOS,] to user privacy and security. In summary
22 the difference has been characterised as Apple
23 aiming for security 'whatever it takes' versus
24 Google aiming for things to be 'secure enough'."

25 It goes on to note differences in positioning,

1 but that is the message which is understood to have
2 been communicated.

3 Page 13 of the same document, please, paragraph
4 3.3, app security and privacy information for users.
5 Skipping down to the second paragraph beginning:

6 "Apple has made a particular virtue of the
7 security and privacy of its product offer,
8 explicitly marketing the operating system and app
9 store environment as offering the user a level of
10 protection they may not receive elsewhere. The
11 prominence of their stance has included the
12 'Privacy. That's iPhone' advertising campaign" --
13 which the Tribunal has seen -- "A 13 storey
14 billboard poster at the CES 2019 technology
15 exhibition [...] (at which the company otherwise had
16 no official presence), proclaiming that 'What
17 happens on your iPhone stays on your iPhone', and
18 having made such statements so publicly, it is
19 unsurprising to discover that Apple follows up on
20 this with the privacy support offered to users.

21 In December 2020 Apple introduced new
22 requirements for developers to be explicit about the
23 data collection and usage practice of their apps
24 [...] as a result they were required to declare
25 information about app data collection and usage via

1 App Store Connect, the service by which they submit
2 and manage apps to the App Store."

3 Skipping ahead please to page 15, {D1/1355/15}
4 second paragraph from the top:

5 "In terms of what other app stores are doing in
6 this space, the Google Play Store allows users to
7 obtain privacy related information by getting a list
8 of the permissions that an app requires [...]
9 including app version, size, [...] ratings
10 presented at the bottom of the [...] page. Once
11 the link is followed, the permission details are
12 then presented to the user as shown [...] However,
13 there is a notable difference between this
14 permission-based approach and the privacy focused
15 representation used by Apple, in so far as while it
16 tells the user what the permissions are for, it does
17 arguably not tell them how they are being used."

18 You may skip ahead, please, still in the same
19 document to page 26, because there the Professor for
20 DCMS was explaining the difference between the Apple
21 App Store and the Google Play Store. Now on page 26
22 there is a particular focus on third party app
23 stores and I take you to malware and risky
24 behaviour:

25 "The problem of malicious code on mobile

1 devices continues to grow", skipping past the
2 figures for the numbers of malicious installation
3 packages detected for Android, "While malware can
4 potentially affect both of the [operating system]
5 platforms the likelihood (and therefore end-user
6 risk) is amplified on Android devices, particularly
7 as a result of the potential for apps to be more
8 readily installed from third party app stores."

9 Over the page, please, page 27, skipping down
10 below the bullet points, skipping down please
11 further, it is the paragraph beginning:

12 "According to research and Risk IQ. There were
13 [over 170,000] blacklisted apps in 2019" -- this is
14 on Android -- "they are far from evenly distributed
15 across different platforms and sources, with the
16 majority being Android focused and linked to third
17 party stores. It was noted earlier that various app
18 stores had review processes but Risk IQ's findings
19 demonstrate that they vary in their effectiveness in
20 terms of keeping malware out. Indeed, while the
21 report describes both of the leading app stores as
22 being 'inhospitable for malicious apps'" -- and we
23 will come back to that -- "it still notes a clear
24 difference in the effectiveness of their
25 restrictions. For example, it was observed that

[over 25,000] blacklisted apps were identified in the Play Store during 2019, compared to the overall total of [over 714,000] newly observed apps [...] (a malware concentration of 3.5 per cent). By contrast, it is reported Apple's approach was likened to Fort Knox with malware 'rarely' finding its way on to the app store. A 2020 study from NortonLifeLock and IMDEA Software Institute revealed that users cannot trust apps purely on the basis of downloading from the official store. The research analysed over 34 million app installs (for 7.9 million unique apps) across over 12 million devices [in 2019]. Between 10 and 24% of the apps were classed as malicious or PUPS" -- that is potentially unwanted programmes. The definition of that is earlier in the document -- "The research assessed 12 routes for app installation, (including the official Play Store" [(that is the Google Play Store)], "third party stores, web browsers, [messages] and file sharing apps). The headline finding was that two thirds of the installs (67.5%) of the malicious apps were originating from the [official Google Play Store] (with the store being the root for 87% of app installs overall.)"

So that, we say, is a taster of the

1 differentiated approach between Apple, Google Play
2 Store and in particular third party app stores you
3 will see expanded in the evidence. The question is
4 what difference does this make to users. What
5 demand is there for this differentiated approach.
6 For this we note that even in the *CMA* market study,
7 in respect of which we disagree on many matters, the
8 *CMA* market study itself commissioned a study, which
9 addressed, among other things, the extent to which
10 consumers cared about privacy and security.

11 I will take you to that first because I think
12 some reliance is placed on it by Dr Kent. That is
13 in {D1/1287/22}, page 22. If you could zoom in
14 please on the figure itself. The Tribunal will see
15 that below the halfway point the questions is:

16 "What factors were important in your decision
17 to buy or choose your current smartphone?"

18 And security and privacy are identified as
19 important factors in the decision to buy or choose
20 your device by. There is a key on the right-hand
21 side. For iOS users 29 per cent and for Android
22 users 22 per cent. On any view that is already
23 millions of people, but in our submission it
24 undersells the significance of security and privacy
25 because brand in Apple's case, and we will seek to

1 make this good in the evidence and later in the
2 trial, brand in Apple's case includes its relentless
3 emphasis on security, safety and privacy and brand,
4 as you can see, is treated as important by 66 per
5 cent of the respondees. Overall, however, we say
6 that this survey undersells the importance of
7 safety, security and privacy to consumers because
8 Apple itself has commissioned surveys in the
9 ordinary course of its business not for the purpose
10 of the litigation. As the Tribunal will expect,
11 Apple is extremely interested in what buyers, both
12 of its devices and what buyers of Android devices,
13 value in terms of the decisions they take when
14 purchasing devices. There are many of these surveys
15 in the bundle, I will show you extracts from three,
16 a representative sample.

17 I would ask you first to go to {D1/837/6}. If
18 you could zoom in please. The question asked in the
19 survey is the importance of features/aspects in the
20 purchase decision. What percentage said that these
21 features were extremely important. We see on the
22 left-hand column security and privacy and for UK
23 consumers that is..... [redacted]

24 I am so sorry I have just read out a
25 confidential figure, I am sorry. I am sorry I will

1 have to at this point say that needs to be removed
2 from the transcript. Obviously the material
3 coloured in peach is confidential.

4 {D1/1202/74}. Expand please. Again, in terms
5 of the importance given to the matters I have
6 discussed, you see the figure under the column third
7 from the left or fourth from the left, and if you
8 can read that, maybe the document presenter is able
9 to expand it further. Thank you.

10 Then again {D1/1294/42}, same column, same
11 place, same question. I am not taking the Tribunal
12 to any more of that material. I will take you to
13 one more document before I go to market definition.
14 To summarise the significance of this, this is a
15 differentiated offering. It plainly resonates with
16 consumers, there is significant demand for it and to
17 be clear this differentiated offering, this promise
18 of greater safety, security and privacy, is grounded
19 in reality. This is the last document I will show
20 you by way of factual background before I move on to
21 market definition, I would ask you to turn to
22 {D1/803/1}. This is the Nokia "Threat Intelligence
23 Report 2020". If you can please to page 2, you see
24 the basis upon which this report presents its
25 findings. I am sorry again, the text is difficult

1 to read because it is white printed on black, but
2 hopefully you can see at the top of the page the
3 report is focusing on malware activity, in both
4 mobile and fixed networks, and the data has been
5 aggregated from networks, which have used Nokia's
6 NetGuard EndPoint Security solution. So Nokia has
7 provided this security solution and the networks
8 that use it report back to Nokia.

9 The network based malware detection solutions
10 enable Nokia customers to monitor their fixed and
11 mobile networks, including mobile phones. At the
12 bottom of that first paragraph you see that the data
13 is coming from monitoring of more than 200 million
14 devices.

15 If you could skip on please to page 7. This is
16 the focus on malware in mobile networks. I would
17 ask the Tribunal to go to the left-hand column,
18 bottom of the page, first bullet:

19 "Over the last few years a significant
20 improvement had been seen in the security of
21 official mobile app stores. However, third party
22 app stores are still rife with Trojanised
23 applications."

24 Then if you go to page 8, infections by device,
25 reading the left-hand column:

1 "Figure 3 provides a breakdown of infections by
2 device type in" -- it's actually 2019 and 2020 --
3 "Among smartphones Android devices are the most
4 commonly targeted by malware. Android devices were
5 responsible for 26.64% of all infections and only"
6 -- I am skipping ahead -- "1.72% for iPhones.
7 [Compared] with 2019 the share occupied by [Android]
8 had decreased reflecting the shifting interest of
9 malicious actors towards [internet of things]
10 devices [...] In the smartphone sector the main venue
11 for distributing malware is represented by
12 Trojanised applications. The user is tricked by
13 phishing, advertising or other social engineering
14 into downloading and installing the application. The
15 security of official app stores, such as Google play
16 has increased [...] However the fact that Android
17 applications can be downloaded from just about
18 anywhere still represents a huge problem." -- Why is
19 that -- "As users are free to download apps from
20 third party app stores, where many of the
21 applications while functional are Trojanised. iPhone
22 applications on the other hand are for the most part
23 limited to one source, the Apple Store."

24 Over the page on figure 3, the two charts show
25 very graphically the difference between Apple's

1 offering and that of Android. Dr Kent says there
2 are about twice as many Android devices as iOS
3 devices, it is unfair to compare absolute numbers.
4 But the data shows, as you can see, Android devices
5 are not just twice as likely to be infected by iOS.
6 Depending on the year, it could be 15 times more
7 likely or even 50 times more likely.

8 Those are my submissions by way of factual
9 background on security, safety and privacy. I was
10 going to move on to market definition and dominance.

11 Sorry, by reference to the inadvertent figure
12 disclosed, I need an order restricting the use of
13 that figure, because it is not enough simply to take
14 it off the transcript. I think because it is
15 actually highly sensitive confidential information,
16 the Tribunal will have to make an order restricting
17 the use of the figure that I have inadvertently
18 disclosed.

19 THE CHAIRMAN: Do you mean restrict any use by anybody?

20 MR KENNELLY: By anybody, yes.

21 THE CHAIRMAN: Can I do that, make an order against the
22 world? That seems like quite an ambitious
23 proposition.

24 MR KENNELLY: You can for the purposes of an inadvertent
25 disclosure. Because this is livestreamed so anyone

1 has potentially seen it, so you can for these
2 purposes do that. It has been done before, I think
3 it has been ...

4 THE CHAIRMAN: There is a difficulty, isn't there?

5 Because, I mean, if we have got no idea who these
6 people are, you are asking me to make a blanket
7 order in relation to anybody who might be on the
8 livestream without knowing who they are, without any
9 other ability to bring it to their attention, how
10 are you going to notify it?

11 MR KENNELLY: In some circumstances, the Tribunal has to,
12 for example, the warning that you gave in relation
13 to contempt if someone films the proceedings, it is
14 impossible to be sure what is actually happening but
15 it is important.

16 THE CHAIRMAN: I think we know that that is a problem. I
17 am not sure we want to add to the set of problems we
18 have got that are difficult to enforce.

19 MR KENNELLY: Indeed, but if I may say so, the public
20 interest in preserving this confidentiality is acute
21 because of its --

22 MR BISHOP: Mr Kennelly, it was one percentage statistic
23 totally unsurprising in its magnitude. In a survey
24 in one country, one sale out of 150 or 200 sales,
25 for God's sake.

1 THE CHAIRMAN: I think Mr Bishop means there is a
2 proportionality point here. I am not sure that the
3 point of order you make is proportional to what has
4 happened here.

5 MR KENNELLY: The problem is -- I entirely understand,
6 but the principle, the principle is very, very
7 important because there is no dispute about the
8 sensitivity of information and the Tribunal has an
9 order treating it as confidential and that order
10 cannot just be a thing writ in water. Where there
11 has been an inadvertent disclosure, we must make
12 sure that the thing which the Tribunal seeks to
13 protect is genuinely protected, which is why I
14 invite you --

15 THE CHAIRMAN: I am not sure that is quite how it works.
16 It is the other way around, is it not? We made the
17 order but it is you that has read it in open court,
18 Mr Kennelly. That is not the purpose of the order,
19 that is not to protect your client against that. I
20 am afraid I am going to need some persuading if you
21 want me to make an order. I do think there is a
22 proportionality point. No one has seen it. It was
23 something you said and of course we are probably
24 drawing more attention to it now, but unless people
25 heard it and wrote it down they are unlikely to have

1 remembered it.

2 MR KENNELLY: I am obliged. I will return to that
3 tomorrow. I may have to seek a more limited order.
4 I will leave that for now in view of the time.

5 THE CHAIRMAN: It would be helpful I think -- I am not
6 aware of anybody having made an order of that sort
7 in these circumstances and it would be helpful if
8 you could find an instance of that but I still think
9 there is a proportionality point. I am not sure
10 that the risk your client faces as a result of what
11 has happened is one that justifies making the sort
12 of order you invite. So that is the hurdle you have
13 got to climb.

14 MR KENNELLY: That is very clear. Obviously, for the
15 purpose of the transcript, I think that is a
16 different issue.

17 THE CHAIRMAN: The transcript is easily done. We can
18 certainly -- I assume there is no objection to that
19 on the other side of the court. So we can certainly
20 manage that.

21 MR KENNELLY: I am obliged. So in the time available may
22 I open on market definition and dominance.

23 THE CHAIRMAN: I think it is worth making a start, yes.

24 MR KENNELLY: Subject to the Tribunal, I will deal with
25 these questions together. I will address them

1 together because the overall question being market
2 definition and dominance, is the same, and it is
3 whether in setting the commission for paid downloads
4 and IAP, Apple is subject to competitive
5 constraints. That is whether Apple is able to set
6 its commission independently of its customers and
7 competitors to recall the legal test.

8 We say Apple is subject to significant
9 constraints. In device markets and from the other
10 ways in which developers can transact with end
11 users. When I speak of device markets, I am not
12 referring to any formal market definition in the
13 evidence I am using it as a shorthand for the strong
14 competition that exists between Apple, Google,
15 Samsung and others for the sale of mobile devices.
16 There is no allegation, as Ms Demetriou said, that
17 Apple is dominant in any market relating to the sale
18 of mobile devices.

19 I will outline our case and take the Tribunal
20 to some pointers in the evidence before addressing
21 Dr Kent's skeleton. I will also address you briefly
22 on the CMA's position which we saw in their very
23 recent skeleton argument.

24 There is no dispute about the fact that there
25 are many substitution possibilities open to end

1 users and developers in both device and transaction
2 markets. As regards devices, there is no dispute
3 about the fact that consumers upgrade their devices
4 fairly frequently. You can see that from the fact
5 that Apple sells millions of devices every year in
6 the UK and so does Samsung. Obviously, if a
7 consumer decides to switch from an iOS Device to
8 Android device, Apple loses both the device sale and
9 also all of the commission that Apple would have
10 earned from their annual spend on the App Store.
11 Similarly, there is no dispute that developers can
12 and do transact with end users on other platforms.

13 I will get on to the detail of that shortly.
14 As regards transactions, a developer can transact
15 with iOS users on another platform in a way that
16 allows the iOS user to consume what they have
17 purchased on their iOS device. If the user
18 transacts in that way Apple receives no commission
19 on that transaction, even though the consumer is
20 consuming what they have bought on their iOS Device.

21 Those are not the only substitution
22 possibilities that concern Apple. There are many
23 more. Consumers may switch their gaming spending
24 from iOS to another type of platform altogether,
25 like PCs or consoles, or developers can switch from

1 monetizing through IAP to in-app advertising. We
2 will see all of that explored further in the
3 evidence.

4 The point that I want to make clear at this
5 stage is that these substitution possibilities
6 definitely exist. The question is whether they are
7 strong enough to be included in the market and to
8 mean that Apple cannot act independently of its
9 competitors and customers. It is a question of
10 degree.

11 We then ask how does the Tribunal answer that
12 question? Now from the perspective of device market
13 constraints, we have an approach in the case law and
14 that is the *EFIM* test which you were taken to by my
15 learned friend Mr Hoskins. I will just take it up
16 very briefly and to show there is no dispute about
17 it I will show you Mr Hoskins and his team's
18 skeleton argument, {A1/4/20}, paragraph 55. The
19 four cumulative decisions. The first is:

20 "Customers can make an informed choice,
21 including life-cycle pricing, between the various
22 manufacturers in the primary market" -- over the
23 page -- "customers are likely to make such an
24 informed choice accordingly;

25 In case of an apparent policy of exploitation

1 ... a sufficient number of customers would adapt
2 their purchasing behaviour at the level of the
3 primary market" -- and -- "customers adaptation of
4 their purchasing behaviour would take place within a
5 reasonable time."

6 That is actually a very similar type of
7 question that we always ask in a market definition
8 exercise. If Apple worsened conditions on the App
9 Store for developers and consumers, would switching
10 in the device market make that unprofitable?

11 THE CHAIRMAN: Sorry to interrupt you. I just want to
12 make sure I am clear about what you are saying here.
13 You are accepting this is a test for the
14 aftermarket. Is that right?

15 MR KENNELLY: Yes.

16 THE CHAIRMAN: You accept, I think, that there is an
17 aftermarket in this case?

18 MR KENNELLY: No.

19 THE CHAIRMAN: You do not accept that?

20 MR KENNELLY: No, we are saying that this is a test that
21 helps you work out if device markets -- it is a
22 useful experiment for just testing the extent to
23 which competition in a primary market, which is a
24 device market for these purposes, constrains
25 behaviour in an aftermarket, which on this approach

1 would be the app store, but we do not accept the
2 primary market/aftermarket split which Dr Kent has
3 outlined.

4 THE CHAIRMAN: So unless I have got this wrong, I think
5 what you mean in relation to this is that you are
6 trying to determine whether there is a separate
7 aftermarket from the primary market for purposes of
8 market definition.

9 MR KENNELLY: Yes, indeed.

10 THE CHAIRMAN: Your case is that it is not, is that the
11 position?

12 MR KENNELLY: Yes, well we have, as you have seen in our
13 expert evidence, we say that what we have here is a
14 combination of a system market, which is what this
15 is testing for, and dual markets, which are the
16 transaction markets.

17 THE CHAIRMAN: I understand that. Put those aside for a
18 minute. I am just focusing at the moment on the
19 relationship with the device market. So you are
20 saying that when -- you are accepting that this is
21 the right test and determination.

22 MR KENNELLY: Yes.

23 THE CHAIRMAN: You say when you apply it we will reach
24 the conclusion that there is no separate aftermarket
25 because of the constraints that come from the device

1 markets?

2 MR KENNELLY: Yes, Exactly. The question we are asking
3 is, because I am approaching this in two ways, one
4 is the extent to which device markets exercise
5 constraints and then we will look at transaction
6 markets as well.

7 THE CHAIRMAN: Yes, I understand. Sorry, to interrupt
8 you again, when you say "constraints", you mean for
9 the purposes of market definition?

10 MR KENNELLY: Yes.

11 THE CHAIRMAN: You are dealing with market definition and
12 dominance together and I think it is important to
13 distinguish between a constraint that helps you
14 decide what the market is and a constraint which
15 helps you decide whether somebody is dominant in the
16 market. They are different exercises, are they not?

17 MR KENNELLY: Well the constraints can be the same.

18 THE CHAIRMAN: Yes, I agree.

19 MR KENNELLY: So my case here is that the constraints are
20 the same. I start by saying the constraints are
21 sufficient to show that Dr Kent's market definition
22 is wrong. Even if I am wrong about that, and Dr
23 Kent's market definitions are adopted, the same
24 constraints show that we are not dominant.

25 THE CHAIRMAN: I just want to make sure that we are

1 thinking about the same thing.

2 MR KENNELLY: So, of course you have got to take into
3 account also the fact this a two-sided market, so
4 you have got to take into account that developers
5 might react to an increase in commission in a way
6 that will discourage device users, because
7 developers could monetise differently. They might
8 decide not to launch products on the App Store.
9 Those decisions could make the device less
10 attractive to, the App Store less attractive to
11 users. Of course, you know Dr Kent's case is that
12 an increase in commission, we heard this from my
13 learned friend Mr Ward, an increase in commission
14 leads to an increase in developer's prices for apps
15 paid by device users. Now here we say that end
16 users know when they purchase a device that a large
17 part of what they are purchasing is the ability to
18 run apps on it. They know that on an iOS device the
19 apps can only come from the App Store and they will
20 have to use Apple's commerce engine. If they are
21 upgrading from an iOS device they know exactly what
22 the App Store is like, what apps cost, what range of
23 apps available because they have already been using
24 them.

25 Similarly, if on Android devices apps were more

1 available or available more cheaply or through a
2 better mechanism, users could find that out very
3 easily, they could find it out by looking on an
4 Android marketplace online or through the
5 advertising that Google and Samsung would no doubt
6 roll out to trumpet that if it were true. You will
7 see when the experts testify there is actually
8 survey evidence that shows that consumers do take
9 into account app prices when considering which
10 device to choose.

11 Just to pull up very briefly some of the
12 evidence on that. I would ask you to go to Mr
13 Hitt's third report. It is at {C3/8/86}. He is
14 quoting first of all, paragraph 167, second
15 sentence:

16 "The 2022 Accent Survey commissioned by the *CMA*
17 found that 10 percent of iPhone owners considered
18 the price of digital content available on the device
19 as important in their decision to purchase the
20 device."

21 We will come back and note that those are
22 likely to be the ones who spend the most on the App
23 Store.

24 Then in terms of the rate of upgrading, this
25 goes to the question of switching, just to point out

1 some highlights. If you go to page 48 of this
2 report, this is confidential, page 48, paragraph
3 92(b), it begins at 48 and over the page at 49, the
4 very last sentence of paragraph 92 (b), how often
5 customers replace their devices. That is obviously
6 material, the extent to which device markets
7 exercise constraints.

8 THE CHAIRMAN: Just give us a minute, we have only just
9 got this. What are we looking at?

10 MR KENNELLY: You are looking at the very last one, just
11 above (c) in the indented page, that is the very end
12 of paragraph 92(b) and it is dealing with rate of
13 switching.

14 THE CHAIRMAN: That is the rate of incidence rather than
15 the following one?

16 MR KENNELLY: Yes. Those are device markets. Looking at
17 transaction markets. There are again strong
18 indications in the transaction markets as to where
19 the constraints may lie. I am going to address you
20 here, if I may, on a point of terminology you may
21 have picked up in the expert evidence. Because
22 Professor Hitt talks about app transactions markets
23 and Dr Singer talks about distribution and payment
24 markets. Dr Singer, I think, is suggesting that
25 Professor Hitt is confusing markets for the apps

1 themselves, with markets for the services which
2 Apple provides. We had a taste of that from
3 Mr Hoskins in opening.

4 That is just not right. We all agree that we
5 need to focus on the services that Apple provides.
6 It makes no difference whether you call the product
7 that Apple provides a transaction for short, or you
8 call it the services that Apple provides in order to
9 allow the transaction to take place. We are talking
10 about the same thing, we are just disagreeing about
11 the possibilities or the significance of the
12 substitution possibilities. So what clues do we get
13 from the transactions in the markets? Here we say
14 you need to take a more granular look than Dr Kent's
15 analysis, and look at different types of
16 transactions. You should not lump them all
17 together, transactions of different kinds, or the
18 facilitation of transactions of different kinds, if
19 the substitution possibilities for developers and
20 end users are different.

21 I will give you an example of a game and I will
22 give you an example of a video streaming service.
23 So Clash of Clans is a very well-known and
24 successful game app developer and game. It has
25 developed a sophisticated system in which end users

1 can spend real world money to purchase virtual
2 in-game currency, which in Clash of Clans is called
3 gems. End users can use those gems whenever they
4 want to make purchases of in-game content. So what
5 that means is that end users can make frequent small
6 transactions for in-game content and they only need
7 to make a few less frequent large transactions with
8 real money to buy the in-game currency. That real
9 money transaction can be made on any platform. You
10 can buy the gems on the app on iOS, on Android
11 device or from the Clash of Clans website, on a
12 mobile browser or on a desktop computer.

13 THE CHAIRMAN: That is because of the multiplatform, is
14 that?

15 MR KENNELLY: Yes.

16 THE CHAIRMAN: So that is the reason they can do that,
17 yes?

18 MR KENNELLY: That in game currency -- that is correct,
19 sir, but also it is revealing about the substitution
20 possibilities it opens, because the in-game currency
21 that the end user purchases can be used on any of
22 those platforms as well the same end user account.
23 So the end user customer can spend his real money,
24 he can buy those gems on whichever platform is most
25 attractive to him or her, and they will take into

1 account the convenience and trustworthiness of the
2 platform and the price that Clash of Clans is
3 charging. That creates an opportunity for Clash of
4 Chance. If it thinks the iOS transactions are too
5 costly it can lower prices on other platforms, they
6 can use online or real world advertising to
7 encourage end users to make the real money
8 transaction on those other platforms.

9 Turning from gaming to video streaming, I will
10 give you the example of Paramount Plus, a very
11 well-known video streaming app developer. Paramount
12 Plus also has different options, it can sell
13 subscriptions and benefit from the reader rule.
14 What that means, as the Tribunal knows, is that
15 Paramount Plus is not even obliged to allow end
16 users to use Apple's IAP service. It wanted to, it
17 could insist that consumers use Paramount's own
18 website to subscribe, which they could do on their
19 mobile browser or a desktop, and then let them use
20 their subscription to enjoy Paramount's content on
21 their devices, which is exactly what Netflix has
22 done. Or Paramount could lower prices elsewhere and
23 use its no doubt enormous advertising budget to
24 encourage customers to subscribe online instead of
25 on the app.

1 THE CHAIRMAN: Can it do that? There are still some
2 anti-steering laws, I am never quite sure when they
3 apply but in that situation would they be entitled
4 effectively --

5 MR KENNELLY: Absolutely. The only restriction is they
6 cannot advertise in the app itself on iOS, outside
7 of that they can plaster the world with posters and
8 say, "This is cheaper on our website."

9 THE CHAIRMAN: But not on the app?

10 MR KENNELLY: Not on the app itself. I will come back to
11 the significance of that but the point is for this
12 stage of the argument the possibilities are strong,
13 they are different for games and video streaming but
14 they are very strong in both cases. We can see in
15 the market, this is why it is so useful, what
16 developers are actually doing. Some of them have
17 made the decision that they want to minimise or get
18 rid of transactions entirely in iOS, like Netflix
19 and *Spotify*, and others have made no effort to do
20 so. They actually charge the same price for digital
21 content on their own website as they do on iOS, even
22 though there is nothing to stop them offering lower
23 prices online and nothing to stop them using their
24 advertising budgets to encourage customers to pay on
25 the website rather than iOS.

1 Just taking up your point, sir, about the
2 restriction on advertising other options on iOS
3 itself, the analogy could be like in Selfridges, for
4 example, Selfridges won't allow you on the Dior
5 handbag stand to put a sign saying, "This is 10 per
6 cent cheaper at Bicester village", or "10 per cent
7 cheaper on our website." You can put that poster
8 outside Selfridges, but you cannot do it on the
9 handbag stand in the department store. The extent
10 to which this is even really a plausible problem for
11 major developers, and I will come back why the major
12 developers are the ones that count, the idea that
13 Paramount or Netflix or big gaming companies could
14 not use their resources to steer customers through
15 advertising outside the app, if they wanted to, is
16 just not plausible. There are so many ways in which
17 they could do that and we see those kinds of ads all
18 the time. They are choosing not to because they are
19 choosing not to deploy their resources in that way
20 for their own reasons.

21 THE CHAIRMAN: Mr Kennelly, is that a convenient moment?

22 MR KENNELLY: Yes, I am sorry, I had not seen the time.

23 THE CHAIRMAN: It is an interesting point but you
24 probably have to stop at some stage. How are you
25 doing?

1 MR KENNELLY: Fine. We are okay on time.

2 CHAIRMAN: So we will start at 10.30 in the morning.

3 (4.37 pm)

4 (Adjourned till 10.30 tomorrow morning)

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