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IN THE COMPETITION
APPEAL TRIBUNAL

1517/11/7/22

Salisbury Square House
8 Salisbury Square
London EC4Y 8AP

Monday 18th November- Friday 20th December 2024

Before:

The Honourable Justice Michael Green
Ben Tidswell
Professor Michael Waterson

Merchant Interchange Fee Umbrella Proceedings

A P P E A R A N C E S

Ben Lask KC and Thomas Sebastian on Behalf of Allianz (Instructed by Pinsent Masons)

Sonia Tolaney KC, Matthew Cook KC, Owain Draper & Daniel Benedyk on behalf of Mastercard
(Instructed by Jones Day LLP and Freshfields Bruckhaus Deringer LLP)

Daniel Jowell KC, Jessica Boyd KC, Isabel Buchanan, Ava Mayer & Aislinn Kelly-Lyth on behalf of
Visa (Instructed by Linklaters LLP and Milbank LLP)

Kieron Beal KC, Philip Woolfe KC, Oscar Schonfeld, & Reuben Andrews on behalf of the SSH
Claimants (Instructed by Scott+Scott UK LLP and Stephenson Harwood LLP)

Mark Simpson KC, Jack Williams & Alastair Holder Ross on behalf of Walter Merricks CBE (Instructed
by Willkie Farr & Gallagher (UK) LLP)

Monday, 25 November 2024

(10.30 am)

In Private - redacted

(10.56 am)

(Short Break)

(11.10 am)

In open court

THE CHAIRMAN: Welcome to the hot-tub. We are going to swear you all in first off, so I will ask for that to happen.

MR VASSILIS ECONOMIDES (affirmed)

THE CHAIRMAN: Thank you, Mr Economides.

MR STEFANO TRENTO (affirmed)

THE CHAIRMAN: Thank you, Mr Trento.

MR JUSTIN COOMBS (affirmed)

THE CHAIRMAN: Thank you, Mr Coombs.

MR DEREK HOLT (affirmed)

THE CHAIRMAN: Thank you, Mr Holt.

MS RACHEL WEBSTER (affirmed)

THE CHAIRMAN: Thank you, Ms Webster.

MR GREG HARMAN (affirmed)

THE CHAIRMAN: Thank you, Mr Harman.

Right, well, I do not know which order we are going to sort of take you, but we will probably mix it around over the course of the morning, but I am going to hand

1 over to Professor Waterson to start off the questioning.

2 Questions by THE TRIBUNAL

3 PROFESSOR WATERSON: Thank you.

4 Just to start off, and I do not mean to pick you out
5 specifically, but, Mr Economides, I understand that you
6 are not formally qualified as an economist?

7 MR ECONOMIDES: That is correct.

8 PROFESSOR WATERSON: So therefore some of the questions may
9 not relate to your expertise and you should feel free
10 to -- not to answer those questions. In fact, I would
11 be pleased if you would not answer those questions that
12 relate to --

13 MR ECONOMIDES: I will make sure I do not. I understand.

14 PROFESSOR WATERSON: Thank you.

15 I also understand, more generally, that you have
16 been instructed in different ways, and to focus on
17 different factors; for example, that Mr Harman has
18 focused on supply pass-on, and others have not focused
19 on that, although they may have written about that.

20 MR HARMAN: I mean, that is one area that I focused on, but
21 I think it is true that we have looked at it from
22 a different perspective. I have looked at it more from
23 an accounting perspective as to how the pricing process
24 works, whilst it is contextualised within an economic
25 framework, by applying very little on the economics of

1 the case.

2 PROFESSOR WATERSON: Yes.

3 I also understand that some of you have been
4 instructed at some stage to look at volume effects and
5 others have not. But for those who have not -- and
6 I think it is Mr Holt, you have not, and Ms Webster, you
7 have not -- you would nevertheless accept, I would
8 think, that there are potential volume effects?

9 MR HOLT: Yes, I would accept that there are potential
10 volume effects. I am not aware of the extent to which
11 the other experts have already engaged on that. My
12 sense is that that would be an issue for down the road
13 in relation to Trial 2, but that is correct, yes.

14 MS WEBSTER: Just to confirm, that is also my understanding.

15 PROFESSOR WATERSON: Thank you.

16 If I -- I will pose what I see is the question that
17 we, as economists, are examining, which is: to what
18 extent did merchants change -- charge higher prices to
19 consumers as a result of the MIF charge?

20 So is that in your understanding of the basic
21 question that we are looking at?

22 MR TRENTO: Yes, this is our understanding of the main
23 question for merchant pass-on.

24 MR COOMBS: Yes.

25 MR HOLT: Yes, I confirm that is the case as well.

1 MS WEBSTER: Yes.

2 MR HARMAN: Yes.

3 PROFESSOR WATERSON: Thank you. Good.

4 You have all had some figures which we will come to
5 in due course, but if we first of all look at a very
6 simple diagram which is in annex 3 of your little pack.

7 So this is a market under competition and we can see
8 there that I have obviously made a number of assumptions
9 in drawing this diagram. One is that the demand curve
10 is a straight line, the other that the -- another that
11 the supply curve is upward sloping, and a third that the
12 charge, which I have obviously made ridiculously large
13 for the purposes of the diagram, is an ad valorem
14 charge.

15 Obviously those are all key assumptions, and I am
16 not holding them -- you to them, but would you all
17 agree, and I am not going to go in any specific order,
18 but we will start from the right and move to the left,
19 would you agree that this diagram shows a less than 100%
20 shifting?

21 MR TRENTO: Yes. Thank you. So, yes, I would agree that
22 this is a representation of what, in economic theory,
23 you would think of as a perfectly competitive market.

24 THE CHAIRMAN: Maybe you can move the microphone a bit
25 closer. Thank you.

1 MR TRENTO: Thank you. So I would agree that this is
2 a representation of what, in economic textbooks, you
3 would think of as a perfectly competitive market,
4 whereby you have a supply and demand cover. Of course,
5 one is to make assumptions on, you know, the slope and
6 the curvature of the curves.

7 I agree that ... and you can see in this example
8 that when the supply curve is upward sloping, that that
9 means that even a firm-wide marginal cost, the pass-on
10 would be less than 100%.

11 Maybe the only additional point that I wanted to
12 make is, as part of the assumptions that are in this
13 chart, is that what we are looking at is an
14 industry-wide marginal cost.

15 PROFESSOR WATERSON: Thank you.

16 MR COOMBS: Yes, so, as you said at the outset,
17 Professor Waterson, this graph is based on some
18 assumptions, in particular about the slope of the supply
19 curve. So I would agree that this is an accurate
20 representation of what would happen if those assumptions
21 are correct, but I think the question of the slope of
22 the supply curve is a matter of contention between the
23 experts to some extent in this case, and that obviously
24 has an influence on the result. So, subject to that
25 caveat, yes, I would agree with this diagram.

1 PROFESSOR WATERSON: Thank you.

2 Mr Holt.

3 MR HOLT: Yes, thank you, Professor Waterson. So I agree
4 with the comments of the preceding experts that this
5 represents a case of an ad valorem tax that would be
6 passed through to an extent of less than 100%, given the
7 assumptions that are noted here, and indeed I agree with
8 Mr Coombs that there are some questions about what those
9 assumptions could be in different sectors of the
10 economy, for example, and that changing those
11 assumptions in relation to either the slope or indeed
12 the shape of the curves, including, you know, convexity
13 is another aspect, could lead to either higher or lower
14 levels of pass-on.

15 I think where I have sort of taken this is that this
16 is a helpful guide to the likelihood of pass-on, but one
17 really needs to then examine the empirical evidence
18 which relates to the type of changes in cost that are
19 represented by the MSCs.

20 One point that I think, if you are wanting to sort
21 of try and link this theory to some of the evidence,
22 that you might want to go to the evidence in relation to
23 VAT changes in different sort of sectors or at the
24 economy-wide level, because that gives an estimate of
25 how, in practice, those types of taxes have been passed

1 through. Thank you.

2 PROFESSOR WATERSON: Thank you.

3 Ms Webster.

4 MS WEBSTER: Yes, thank you. Just to say that I also agree
5 with the comments that have been made so far.

6 The one point that I would add is around the
7 assumption that is made about the slope of the demand
8 curve. In the way that I have been thinking about it
9 for this case, where there is commonality in the MSC
10 being incurred by sort of close to all merchants, then
11 actually there is not an out-of-market constraint that
12 is strong in this situation, and that would point to the
13 demand curve being a steeper slope. But that is very
14 much taking this general framework and thinking about
15 how it would apply in this case.

16 PROFESSOR WATERSON: Thank you.

17 MR HARMAN: I have nothing else to add. I agree with the
18 comments that have been made.

19 THE CHAIRMAN: A remarkable consensus to start with.

20 PROFESSOR WATERSON: Yes, I like to see that.

21 So the slope of the supply curve has been mentioned.
22 In a perfectly competitive market, what alternative
23 slope could we envisage?

24 Let us start at the other end, Ms Webster, or
25 Mr Harman, if he wants to ...

1 MR HARMAN: I am happy to defer.

2 MS WEBSTER: So if it were a perfectly competitive market, I
3 think one could envisage that as a flat, entirely
4 horizontal supply curve.

5 MR HOLT: Yes, I would agree. I think the other point
6 I would add to that is if you are looking at the -- as
7 to short versus longer term time horizons, then there
8 would be more opportunity, I think, for things like
9 innovation to lead to cost savings, for example, and
10 that might be a factor that would no longer lead to a
11 somewhat flatter supply curve, potentially.

12 PROFESSOR WATERSON: Thank you.

13 MR COOMBS: Yes, Mr Holt has said what I was actually going
14 to say, so I agree with him that I think the key issue
15 here is whether we are looking at the short run or the
16 long run. So I think in the long run, where firms are
17 likely to benefit from economies of scale, you would
18 expect the supply curve to be flatter than it is in the
19 short run.

20 PROFESSOR WATERSON: Well, yes, but would you agree that in
21 a perfectly competitive market, that is not feasible in
22 the sense that if the supply curve would be downward
23 sloping, then the firms would grow, there would no
24 longer be a very large number of firms?

25 MR COOMBS: Yes, so I am not suggesting that the supply

1 curve would be downward sloping, I am suggesting that it
2 would be flatter than it is in the short run.

3 PROFESSOR WATERSON: Thank you.

4 MR TRENTO: Well, I think I disagree with my colleagues.

5 I think that the supply curve can be flat or it can be
6 upward sloping, and there is no extant expectation that
7 it would need to be flat.

8 I think if you -- if one thinks of the market supply
9 curve, you can have an upward -- sorry, an upward supply
10 curve if you have companies that have different marginal
11 costs, such that you order the companies from the one
12 with the lowest marginal cost to the highest marginal
13 cost and you come up with an increase in supply curve.
14 That is true for the short-term and for the long-term.

15 In the short-term, again, the curve can be -- can
16 have any slope, but we know from economic theory that in
17 the short-term, usually when there are capacity
18 constraints, it is more likely there is an upward
19 sloping curve. In the long term things may change, but
20 even in the long term you still have the fact that there
21 are many firms in the market, and they can have
22 different marginal costs, and therefore the slope can be
23 upward -- sorry, the supply curve can be upward sloping.

24 There is another issue, which is in the long term,
25 depending on whether -- so imagine there is entry of --

1 imagine that the market is profitable, that attracts
2 entry from other firms. As volume expands, there is
3 going to be more demand for the inputs, and that demand
4 for the inputs may or may not increase the price of the
5 inputs, and if it does increase the price of the inputs,
6 that would result in an increase in an upward sloping
7 supply curve.

8 So my point is just that there is no expectation --
9 no extant expectation for a given slope of the supply
10 curve, except maybe in the short run there would be an
11 expectation for an upward slope in the supply curve.

12 PROFESSOR WATERSON: Thank you.

13 Now, of course, I have drawn this diagram as if the
14 M, which I have not defined, but let us think of it as a
15 MIF, is ad valorem. We will come on to talk about that
16 a little bit later on.

17 So then let us turn to the --

18 MR TRENTO: Sorry, Professor Waterson, can I just make an
19 additional point, which is it is true there is
20 contention about the likely slope of the -- or whether
21 there can be an expectation on the slope of the supply
22 curve. I think there is also contention on whether the
23 MSC are actually treated as a marginal cost by the
24 Claimants, because the assumption that is behind this
25 chart is that we are looking at a change in marginal

1 costs. If the change was not a marginal cost, then we
2 would not have the support of this chart at least.

3 PROFESSOR WATERSON: Thank you.

4 So let us turn to the opposite end of the spectrum,
5 then, to the diagram for a monopoly. Again, this
6 diagram is -- well, this one actually, I think, is more
7 than 100 years old, in some sense, I gather, that
8 Wicksteed was the first person to think about things
9 this way.

10 Just to explain what I have done in this diagram.
11 So I have distinguished for a monopoly between the
12 demand curve and the average revenue curve for the
13 monopolist, and, again, I am assuming an ad valorem
14 addition, and therefore the higher the price that the
15 monopolist charges, the greater the gap between the
16 demand curve and the average revenue curve. I have also
17 assumed here, just for simplicity, a constant marginal
18 cost.

19 So do people want to make any observations about
20 this diagram, given that explanation?

21 THE CHAIRMAN: Shall we start in the middle maybe this time
22 with Mr Holt?

23 PROFESSOR WATERSON: Yes, Mr Holt.

24 MR HOLT: We will take the middle right just to sort of
25 start.

1 So I think, again, I agree with I think the
2 interpretation which is being put here, which is that in
3 a monopoly situation and with an ad valorem tax, and
4 that is subject to certain further assumptions around
5 the shape of the demand curve and the marginal cost
6 curve, that pass-on would be expected to be positive but
7 incomplete. I would note that in the ad valorem case it
8 appears to be a little less than 50%, and in a case of
9 a unit cost increase in tax, then it would typically,
10 under this similar type of diagram, be about 50%, or
11 exactly, according to the maths, 50%, as a pass-on rate.

12 I think one interesting insight to be drawn is that
13 this demonstrates that while, I think, conditions of
14 competition can be an important factor in determining
15 the conditions under which pass-on of different types of
16 costs may be carried out to a greater or lesser extent,
17 the pass-on concept is not limited to situations of
18 competition, as this diagram shows.

19 PROFESSOR WATERSON: Thank you.

20 So we will move to Mr Coombs.

21 MR COOMBS: I am not sure I have very much to add to that.

22 I agree with the diagram and what it shows. Obviously
23 it is based on various underlying assumptions.

24 I suppose I will just make the broad point, which
25 I think Mr Holt has already made, that one can only get

1 so far in terms of using economic theory to derive
2 expectations about pass-on. They provide prior
3 expectations, but of course ultimately what I think all
4 of us are doing is we are then using data to actually
5 test those assumptions and see what the data shows.

6 So the question is, of course, are these assumptions
7 relevant, and ultimately the way that we test that is by
8 examining the data.

9 PROFESSOR WATERSON: Thank you. Of course I agree,
10 absolutely.

11 Ms Webster.

12 MS WEBSTER: Thank you. I agree with what has been said.

13 A good starting point.

14 I would also add, as I have interpreted this, this
15 is the sort of first round effect of the imposition of
16 the charge, and then the predictions for the pass-on by
17 a monopolist.

18 If I am now thinking about the situation which we
19 have, and I now think about this monopolist who is
20 putting up their price, there then will be feedback
21 effects, and that will be dependent on what is happening
22 with the firms and the firms' costs where the monopolist
23 is losing sales, the monopolist is clearly, with a
24 downward sloping demand curve, losing its sales.

25 If that outside constraint, as I -- as is my

1 evidence, will also have been subject to the increase in
2 the MSC charge, then they will also be passing on the
3 MSC charge to a degree, and the result of that means
4 there is scope for the monopolist to pass on -- so they
5 do not face quite such the reduction in demand as
6 implied by this diagram, but actually over time, in
7 reaction to what the other firms are doing, would find
8 that they can pass on a bit more.

9 So I think the sort of longer term effect would be
10 a higher level of pass-on than predicted by this
11 diagram, even in a situation where there is a monopolist
12 or limited competition.

13 PROFESSOR WATERSON: In effect, what you are saying is that
14 a monopolist in one product does face generalised
15 competition from other products?

16 MS WEBSTER: That is right, yes.

17 PROFESSOR WATERSON: Mr Harman.

18 MR HARMAN: No, I do not have anything to add in terms of
19 what I include in my reports. Of course, what I am
20 seeking to do in my reports is to determine whether the
21 accounting base records support the economic theories
22 that are being put forward.

23 PROFESSOR WATERSON: Thank you.

24 Mr Trento.

25 MR TRENTO: So, first, I have to admit that it took me

1 a while to understand why you covered the demand cover
2 and not the marginal cost curve, but eventually I got
3 there. But I think even changing the marginal --
4 I think the chart is correct, but even changing the
5 marginal costs would give you the same results really.

6 My only two comments are, first of all, the same
7 comment as before, which is this is assuming a change in
8 marginal costs, and then the second one is that you can
9 see that when you enter the territory of imperfect
10 competition, then things become more complex, and
11 therefore you can have a pass-on at any rate, even with
12 a cost and ... marginal cost.

13 The last point is that I consider, based on the
14 evidence, that many of the SSH Claimants actually
15 operate in imperfectly competitive markets, not meaning
16 that -- not meaning that there is not a high degree of
17 competition, but simply meaning that they sell
18 a different share of products and therefore they have,
19 you know, some pricing power to price above marginal
20 costs, and therefore I consider that this second chart
21 for the SSH Claimants may be more likely to be
22 representative, save for the fact that it is looking at
23 the marginal costs.

24 PROFESSOR WATERSON: Thank you. We will come on to
25 imperfect competition, obviously.

1 So has anyone got any observations to make about
2 what happened to the elasticity of demand as a result of
3 this imposition of M at any given price?

4 MR COOMBS: I might go first. I think the observation I
5 would make is that when we are looking at the MSC or the
6 MIF and thinking about its magnitude, although it is --
7 I would not say it is small being compared to, for
8 example, the margins that merchants are earning, but
9 within the scope of the demand curve it is likely to be
10 a small movement along the demand curve. So to the
11 extent that there is any change in elasticity, that is
12 likely to be very small, I would expect.

13 PROFESSOR WATERSON: Thank you.

14 Mr Holt?

15 MR HOLT: Maybe one very brief observation, other than
16 agreeing with what Mr Coombs just said.

17 Again, this is obviously a specific case of a linear
18 demand curve, and obviously elasticity moves according
19 to where you are on the linear demand curve. That is
20 not, obviously, necessarily the case in some other ways
21 of looking at demand; isoelastic demands, that would not
22 be the case. In particular, depending on the degree of
23 convexity, that can be a situation where I think, as
24 Dr Trento was alluding to, you can sort of -- that can
25 lead to situations where what you might otherwise have

1 thought are the traditional sort of floor and ceiling of
2 the simple perfect competition and monopoly models,
3 ie the 50 to 100% range, where costs are passed on to,
4 you know, 100% typically in a perfect competition world
5 in some cases, and 50% by a monopolist, that can
6 actually be either lower or higher depending on the
7 shapes of the curves, even higher than 100% if it is
8 sufficiently convex.

9 PROFESSOR WATERSON: Just to challenge you a bit on that.

10 For a monopolist, will a monopolist ever over pass on?

11 MR HOLT: Well, I think obviously a monopolist would always
12 want to be setting, you know -- the theory would be
13 wanting to set a profit maximising price, and it would
14 not want to be setting price at a point where it has
15 inelastic demand, because if it did that, then it could
16 make more money by raising prices and not losing demand,
17 and so it could -- not losing a sufficient amount of
18 demand, rather, to make that a profit maximising
19 decision.

20 So I certainly agree with you that a monopolist
21 would have certain features where there would be
22 a particular range of elasticity which would make sense
23 and other ranges would not make sense.

24 PROFESSOR WATERSON: Thank you.

25 Ms Webster.

1 MS WEBSTER: Yes, just to really agree with Mr Coombs, which
2 is that I think the small size of the MSC cost is
3 unlikely to mean that there is a -- that the curvature
4 of the demand curve is a particularly relevant
5 consideration when thinking about the degree of pass-on.

6 PROFESSOR WATERSON: Thank you.

7 MR HARMAN: Nothing further.

8 PROFESSOR WATERSON: Mr Trento.

9 MR TRENTO: I understand the question being on the
10 elasticity of demand. My only point is that the charts
11 show quite clearly that there is a strong relationship
12 between a price increase and a volume effect, which is,
13 unless demand is completely inelastic, then you would
14 expect that the price increase, maybe due to pass-on,
15 would give rise to a volume effect. But as Mr Holt said
16 before, I think we all understand that volume effect
17 will be, even though it is linked to pass-on, this is
18 going to be addressed in Trial 3, not in Trial 2.

19 PROFESSOR WATERSON: Thank you. I am not making any
20 promises about Trial 3.

21 Good.

22 But I think you would agree, just going on from
23 that, that oddly, if you like, whereas in perfect
24 competition and in monopoly you would not expect an
25 overshifting, then in oligopoly it is possible for an

1 overshifting to occur.

2 Maybe -- I think Mr Holt specifically deals with
3 this issue, so you might be an appropriate person to
4 start talking about this.

5 MR HOLT: Sure. So obviously there are a range of models of
6 imperfect competition, and I think one of the issues
7 that was the identified at a relatively early stage
8 amongst the experts, when we were thinking about what
9 are the main determinants of pass-on from an economic
10 theory perspective, is that once you get into the
11 complexity of imperfect competition, in between
12 obviously the monopoly and perfect competition states,
13 then quite a wide range of further factors can become
14 important. Most critically it can depend on the nature
15 and intensity of competition, it can depend on the
16 shapes of the demand covers and the supply curves
17 respectively and --

18 PROFESSOR WATERSON: I think we had perhaps better not call
19 them supply curves.

20 MR HOLT: Okay, sure. Reaction curves or ... yes.

21 But in any event, I think the economic theory does
22 then, I think, give a potentially fairly wide range of
23 outcomes, which is my point previously, that the range
24 of outcomes can be low or high or indeed even above
25 100%.

1 I think the second point I would make is that while
2 the economic theory can to some extent give you a guide
3 as to which of these conditions might be most likely,
4 many of these factors are quite challenging to measure
5 or observe. So that raises I think a fairly important
6 question, which is how much weight does one put on
7 a detailed investigation of some of these specific
8 models of imperfect competition for the practical
9 assessment of pass-on?

10 I have not put a great deal of weight on it, because
11 I have recognised that the theory can lead to quite
12 broad outcomes, and it is actually difficult to
13 implement, in a sort of practical sense, the
14 implications of all those potential factors due to the
15 measurability problem or lack of observation.

16 I would, however, note that to the extent that they
17 are important, and they are likely to be important, they
18 would tend to be captured in an empirical assessment,
19 looking at the rate of pass-on over time, because these
20 sorts of conditions would in a sense implicitly be
21 picked up in what the model is looking at.

22 So that is really the focus I have made, that I have
23 recognised that in principle these are factors that
24 could be important, but from a measurement perspective,
25 they do not seem to be critical to the empirical

1 framework, at least in my view.

2 PROFESSOR WATERSON: Thank you. So could I -- would you
3 agree that the empirical framework that you and, as far
4 as you are aware, the others -- but they can answer for
5 themselves -- the empirical framework has, if you like,
6 had to take some shortcuts, if you like. There are
7 things that are not possible to evaluate empirically in
8 detail, like the curvature of the demand curve, and so
9 on?

10 MR HOLT: I would agree that myself, and I think it is fair
11 to say that it might be the case for others, although
12 I think there has been some commentary on what shapes
13 might be in the longer run, as Dr Trento and Mr Coombs
14 just mentioned, but overall I think that is a fair
15 statement.

16 In my view, it is not of any great concern, to the
17 extent that there is sufficient empirical evidence which
18 would encapsulate the combination of these effects in
19 any event.

20 PROFESSOR WATERSON: Thank you.

21 Ms Webster.

22 MS WEBSTER: Thank you. So when I have thought about this,
23 I have sort of thought about two situations in which
24 I would expect this overshifting, so pass-on above 100%,
25 and I would expect that where the demand curve is

1 convex, so that price-sensitivity reduces as the price
2 goes up. The alternative scenario is if there is
3 increasing returns to scale so that the supply curve is
4 downward sloping.

5 My expectation is that -- sorry, one further factor.
6 I would expect that to be -- any overshifting would be
7 more material in a world where there is lower
8 competition. So I think it is agreed that where there
9 is increased competition in a market or a higher level
10 of competition, then the degree of overshifting is
11 moderated, and any pass-on rate will come further back
12 towards the 100.

13 In terms of those characteristics that I have just
14 described, my expectation is I would not expect to see
15 them as a common feature across most retail markets. So
16 my expectation is if I saw a lot of empirical evidence
17 which was all pointing to pass-on of 150% or more,
18 I would think probably actually it is more likely that
19 there is some difficulty in the empirical analysis to
20 actually generate reliable results, because I would not
21 expect that.

22 If I just turn also to now what I would expect in
23 relation to MSC cost pass-on. I think because we are
24 talking about such a small cost for merchants, then the
25 likelihood that -- let us say that was passed on to

1 a large degree, the volume effect that is likely to be
2 triggered by any price increase associated with that
3 cost increase would be small, and the result of that is
4 any change in volumes would be likely to be small.

5 Therefore, we are not talking about measuring
6 pass-on over a large change in volumes, and in that
7 respect I think one would not expect a curvature of
8 demand to matter; I would expect it to be relatively
9 constant over that. Equally, I would not expect to see
10 a sort of material effect through any downward sloping
11 supply curve.

12 PROFESSOR WATERSON: Thank you.

13 So to summarise, you might -- one might observe
14 overshifting, but 150/200% would be -- that would
15 suggest something suspicious about -- or not necessarily
16 suspicious, but something awkward about what you are
17 doing empirically in trying to assess this?

18 MS WEBSTER: Yes, and particularly I would not expect to see
19 material pass-on rates above 100% in most markets, so
20 I would add that as well.

21 PROFESSOR WATERSON: Thank you.

22 Mr Harman.

23 MR HARMAN: I mean, the only point that I guess I can add on
24 that is what I see in the factual documents. I do not
25 see instances of overshifting. If there was inflation,

1 for example, what I see there is that they try to
2 accommodate that inflation within prices, but it is
3 matched. If they think that the level of inflation is
4 3%, if that is 3% on cost of goods sold, for example,
5 then you see a decision as to whether they can increase
6 those prices up to 3%. You do not see it going beyond
7 that.

8 PROFESSOR WATERSON: Thank you, that is very helpful.

9 Mr Trento.

10 MR TRENTO: I understand that your question is mainly
11 related to economic theory.

12 PROFESSOR WATERSON: Yes.

13 MR TRENTO: My understanding is whether you can see, when
14 you go to a market which is an oligopoly or a
15 monopolistic competition market, whether you can see
16 overshifting. From an economic theory perspective, the
17 answer is yes. You will have more, depending on the
18 demand function or the utility function of the
19 consumers. If you look at cost and elasticity of supply
20 utility function, then you will see that firms price
21 with a mark-up over the margin of cost, and that would
22 mean that there would be overshifting in those cases for
23 the marginal costs.

24 I consider that once you get into the territory of
25 monopolistic competition or oligopoly, then a wide range

1 of results is possible. Of course, that includes
2 overshifting.

3 PROFESSOR WATERSON: Thank you. But, again, you would not
4 expect a rate of much above 100%, are you saying; are
5 you agreeing with the previous ...

6 MR TRENTO: For marginal costs?

7 PROFESSOR WATERSON: Yes, overshifting of any increase in
8 marginal costs, you would not expect to see that much
9 above 100%?

10 MR TRENTO: I do not know how to answer this from an
11 economic theory perspective.

12 PROFESSOR WATERSON: Not -- well, okay, yes, but empirically
13 then.

14 MR TRENTO: Empirically the issue is that I -- when
15 I analyse the pass-on of the MSCs, I do not analyse the
16 pass-on of COGS which is I understand how -- well, we
17 will get into this discussion, but I do not analyse the
18 pass-on of COGS, which are marginal costs, I analyse the
19 pass-on of other costs, which is total overhead costs.
20 So for that kind of pass-on, I am afraid that I cannot
21 rely on this chart really, because it is a different
22 type of cost.

23 PROFESSOR WATERSON: Yes. No, I understand. Thank you.

24 I do not think we have had you, Mr Coombs.

25 MR COOMBS: Thank you. So I think I agree with what has

1 been said or some of what has been said. Maybe I should
2 clarify that by explaining which bits of what has been
3 said I agree with.

4 So I think I would make two points. First, from
5 a matter of pure theory, I would agree that it possibly
6 to have an overshooting in oligopolistic markets.

7 Moving from theory to fact, and maybe this getting
8 ahead of ourselves, but, you know, my view is that when
9 you look at the evidence, the evidence tends to suggest
10 a relatively high degree of competition in the markets
11 that we are looking at, and I would agree with
12 Ms Webster that in that situation, you would -- that
13 would sort of dampen the extent of overshooting and mean
14 that you would expect pass-on to converge more towards
15 100%.

16 So I think it is possible that pass-on can be more
17 than 100%. But in answer to I think the question that
18 you were just asking Dr Trento, I would not expect you
19 to find a very material -- I would not expect you to
20 find pass-on which is very materially above 100%.

21 PROFESSOR WATERSON: Thank you.

22 Now in order that the lawyers will be happy, we will
23 move on to more empirical matters.

24 So I think one of the things on which you agree is
25 that -- and I am talking about everyone here, although

1 I think Mr Ramirez did not agree, but he is not here
2 now -- or was it Mr Murgatroyd, one of the two, anyway
3 they are not here now. One of the things on which you
4 would agree is that empirically trying to measure
5 directly the pass-on of MIF is not a task that you would
6 feel comfortable engaging in because -- and Mr Holt,
7 I think, is specific on why he would not want to engage
8 on that.

9 MR HOLT: Yes. Shall I just briefly comment on that?

10 PROFESSOR WATERSON: Yes.

11 MR HOLT: I think it was primarily Mr Murgatroyd who had
12 carried out MIF-based things, but Mr Ramirez also did
13 a sensitivity with a delta on the MIF as well, but
14 obviously neither of them are here in a sense.

15 But my view on this is that we have
16 a signal-to-noise ratio problem; in other words, the
17 variation in the MIFs to be picked up, given the size
18 and the lack of extensive changes over time, means that
19 there is relatively little variation in MIFs or indeed
20 in MSCs as a result of that, and by reference to the
21 overall prices of products, which vary in some cases at
22 least quite lot, this means that it is extremely
23 difficult for a model, looking at the variation of the
24 MIFs, to be picked up and identified as having an effect
25 of any particular degree on price variation.

1 The important point to note is that this is the case
2 even if there is an effect. So essentially that means
3 that any modelling focusing on this does not have
4 sufficient power to identify the nature of the effect
5 that exists. I think that is why I think most of the
6 experts, at least at the table now, agree that we need
7 to focus on a proxy.

8 I am happy to comment on the analysis that has been
9 carried out on the MIFs, which I disagree with, but
10 I think, as a point of principle, that is my position.

11 PROFESSOR WATERSON: Thank you.

12 Mr Trento.

13 MR TRENTO: Just a small correction. Before, I talked about
14 utility function tthat are constant -- with constant
15 elasticity of supply. Of course, I meant constant
16 elasticity or substitution, not of supply.

17 Yes, I think the estimation of -- a direct
18 estimation of the pass-on of MSC, it is very
19 challenging. In my opinion, the main issue with that
20 estimation is not necessarily about the size of the MSC.
21 It can be an issue, but is not necessarily an issue.
22 The main issue for me was that because the MSC may have
23 an ad valorem component and may have a per unit
24 component, then there is some homogeneity, meaning that
25 it is not only the MSC that can affect prices, but when

1 price increases, then there is an automatic effect on
2 the size of the MSC. So if you increase the price from
3 10 to 20, and the MSC is 10%, just to make a number of
4 the price, then the MSC automatically increases from 1
5 to 2. Therefore, when doing an estimation, an empirical
6 estimation, it becomes difficult to disentangle the
7 causal effect of the MSC on prices from the causal
8 effect of prices on MSCs.

9 On the size of the MSC, I agree with Mr Holt that
10 makes an estimation challenging, but I consider this to
11 be a problem of the power, if you want, of the analysis.
12 It is also related to the size of the sample that you
13 are using for estimation. So in some cases we have
14 millions and millions of data points that allows you to
15 analyse the effect of a variation in costs on
16 a variation in prices, and when you have that amount of
17 data, then you may be able to estimate the effect of
18 even a small cost on prices.

19 PROFESSOR WATERSON: ^^^ But you would agree with
20 Mr Holt, would you, that the signal-to-noise ratio is
21 a critical factor?

22 MR TRENTO: I agree with that. I consider that in some
23 cases -- I mean, in most cases this is something that
24 affects my estimation, because I tried to estimate the
25 proxies identified by Mr Economides, which were too

1 small for an economic estimation, so I agree with that,
2 fully agree.

3 The only point I am making is that if you have
4 millions and millions of data points, then you may be
5 able to overcome this issue.

6 PROFESSOR WATERSON: Thank you.

7 MR BEAL: I am very sorry to rise, I have a procedural point
8 pointed out to me.

9 We had understood that the experts on the front row
10 were going to have their comments boxes on their laptops
11 or their trackers turned off, so that there was not a
12 team discussion being available to them. I am in the
13 Tribunal's hands as to whether or not we can confirm
14 that that applies for each expert.

15 They have each been sworn, and obviously it is
16 evidence they are giving, and we have disabled our
17 comments for our expert so that he cannot see what we
18 are saying behind him, as it were.

19 I had thought that was --

20 THE CHAIRMAN: Are you saying that others' comment boxes
21 might be open?

22 MR BEAL: That is what I have been told.

23 THE CHAIRMAN: Well, I would think it is probably
24 inappropriate for any comment boxes to be open, so can
25 you all confirm that that is the case?

1 MR HOLT: I can see a couple of comments that do not
2 actually affect anything I have said, but there are a
3 couple of comments, so this needs to be turned off.

4 THE CHAIRMAN: If that could be turned off in some way or
5 other.

6 MR BEAL: Thank you.

7 THE CHAIRMAN: Thank you for pointing that out, Mr Beal.

8 MR TRENTO: There is a way to turn that off.

9 MR HOLT: Is there?

10 MR TRENTO: Yes, I think on the top right.

11 MR HOLT: It has gone.

12 THE CHAIRMAN: The benefits of being able to help each
13 other.

14 MR HOLT: I appreciate that. Thank you.

15 THE CHAIRMAN: I do not know if you had finished, Mr Trento,
16 had you?

17 MR TRENTO: Yes.

18 PROFESSOR WATERSON: Ms Webster then.

19 MS WEBSTER: We are going back now to the question of ...

20 PROFESSOR WATERSON: The signal-to-noise ratio and the
21 issues around that.

22 MS WEBSTER: Thank you.

23 So just to confirm, the reason why I have taken the
24 view that it is not feasible to give a reliable estimate
25 of MSC pass-on directly is exactly the reason given by

1 Mr Holt. So for me, the issue of the low
2 signal-to-noise ratio is what has caused me to think
3 that it is not reliable to measure MSC pass-on directly.

4 THE CHAIRMAN: Mr Harman, do you want to comment?

5 MR HARMAN: That is my understanding as well.

6 THE CHAIRMAN: Mr Coombs I think has not spoken.

7 MR COOMBS: To be honest, I thought this was not really an
8 area of disagreement because none of us actually attempt
9 to do this.

10 PROFESSOR WATERSON: I am trying to get agreement about
11 everything!

12 MR COOMBS: I agree it is not -- I have not tried to do it,
13 and I agree, I think it would not be possible to do so.

14 THE CHAIRMAN: Just in case Mr Murgatroyd had been here.

15 PROFESSOR WATERSON: Yes.

16 MR HOLT: Can I just make one supplementary point, which is
17 that we have been talking about the signal-to-noise
18 ratio for the MIFs or MSCs. Obviously Dr Trento sort of
19 also made some comments around, well, does that affect
20 some other possible proxies, and I agreed with him that
21 the issue in principle could apply to some of the other
22 proxies but it depends on the circumstances. In some
23 cases I have considered and ruled out potential proxies
24 due to the signal-to-noise ratio, even if it was not
25 specifically due to -- it was not MSCs in question, but

1 other potential proxies could be subject to the same
2 problem.

3 PROFESSOR WATERSON: So it may be appropriate at this stage
4 to bring in the other two diagrams. These are, I think,
5 from Ms Webster's report. Is that right?

6 MS WEBSTER: Yes.

7 PROFESSOR WATERSON: Just to confirm, I do not think either
8 of these are confidential in any way, are they?

9 MS WEBSTER: No.

10 PROFESSOR WATERSON: No. So maybe, first of all, you would,
11 Ms Webster, clear up for me one puzzle, if you like.
12 I think I know the answer, but you can tell me. What is
13 100% in your diagram?

14 MS WEBSTER: Are we speaking about Annex 1?

15 PROFESSOR WATERSON: Annex 1, yes.

16 MS WEBSTER: So 100% would be if all of the lines on this
17 chart are aggregated and the missing line, which is
18 cheques.

19 PROFESSOR WATERSON: Thank you. So direct debits, standing
20 orders, and so on, are not included?

21 MS WEBSTER: That is right, I have excluded those, which I
22 did on the basis of an expectation that they are less
23 relevant forms of payment in the retail sectors.

24 PROFESSOR WATERSON: Thank you.

25 So what we see then is, remarkably, cheques appear

1 to be very common, it is a bit difficult for me to
2 remember back then, but obviously they were a very
3 common means of payment, and I do remember annoyingly
4 standing behind people in the supermarket when they
5 wrote out a cheque, and so on.

6 But, anyway, so we have seen a remarkable shrinkage
7 in the use of cheques, a remarkable growth over time in
8 the use of debit cards, and more gentle growth in the
9 use of credit cards. Obviously we will want to come
10 back to this issue in much greater detail when we think
11 about the earlier period, but for now I think -- is
12 there anything else that anyone wants to draw out of
13 that diagram?

14 MR HOLT: Sir, I just have a clarification question, because
15 I think Ms Webster kindly identified what adds up to
16 100%, and cheques is the missing component. But
17 obviously there is still a question about what is the
18 base of transactions that one is talking about? I read
19 here that this is sort of referred to transactions made
20 in the UK by resident individuals and businesses.

21 Now, that obviously, in theory, could be quite
22 a broad range of types of transactions, such as payment
23 of salary or house purchases being made, and so there is
24 a question in my mind as to, well, what is the
25 appropriate base of transactions that one would want to

1 look at if one is sort of focusing, as we are here in
2 these proceedings, on retail merchant-type transactions,
3 where the range of substitutes and possible relevant
4 payment options might be somewhat different in terms of
5 proportions.

6 MR ECONOMIDES: If I may, this is my chance to contribute to
7 the discussion.

8 I have done some specific work on this analysis,
9 Ms Webster's analysis, that I would like to share with
10 court. It is true that the data that Ms Webster has
11 used comprises both individual and business
12 transactions; so it is not just retail transactions, it
13 would include the business purchasing raw materials,
14 supplies, etc.

15 Correct me if I am wrong, Ms Webster.

16 MS WEBSTER: No, that is correct.

17 MR ECONOMIDES: So we are extrapolating from this and
18 applying it, and Ms Webster has made effort, valiant
19 efforts to make it more retail oriented, but there are
20 still issues with the chart.

21 I have prepared a few pages which have been,
22 I understand, uploaded, so if the court will humour me,
23 I can provide a little bit more detail, and also an
24 alternative dataset to consider. Because fundamentally
25 the issue with this chart is it exaggerates

1 significantly the growth in penetration of cards. The
2 reason is that Ms Webster has excluded automated
3 payments and direct debits from the chart. Automated
4 payments have had explosive growth. Now, automated
5 payments are not particularly relevant in a retail
6 environment, so it is not completely inappropriate to
7 exclude them. Direct debits are quite consumer-oriented
8 but they are also not particularly applicable in the
9 retail environment, so I think it is also appropriate to
10 exclude them. But cheques do create an issue, because
11 cheques -- I have some charts, if you would like to see
12 them, or I can continue.

13 THE CHAIRMAN: Have they been provided to everybody and
14 when?

15 MR ECONOMIDES: They have been provided only yesterday, I
16 apologise for this, but I only found out that the
17 question will arise on Friday.

18 PROFESSOR WATERSON: I do not think we can look at them
19 right at the moment then.

20 MR BEAL: They have been uploaded, sir. They are at
21 {RC-Q1/1/1}.

22 THE CHAIRMAN: Right. Everyone has had an opportunity to
23 look at them. Does anyone object to them going in and
24 being looked at now? I am seeing lots of shaking of
25 heads. Okay.

1 MR ECONOMIDES: Thank you, and I apologise for that.

2 THE CHAIRMAN: The only other thing is I am wondering
3 whether we ought to have a further break, given it is
4 quite a strain, I imagine, on the transcriber. Would
5 now be an appropriate moment?

6 PROFESSOR WATERSON: Now I think would be an appropriate
7 time.

8 THE CHAIRMAN: I do not think we need a full ten minutes but
9 maybe a five-minute break.

10 All right, then. You have all been sworn in, so
11 during any break you cannot talk to your teams or
12 anybody about the case.

13 Yes, Mr Trento.

14 MR TRENTO: I just want to raise a point. Even when you
15 shut down the comments, some comments I think still
16 appear in the transcript, so I do not how to fix that.

17 THE CHAIRMAN: Maybe over the break we can try and find
18 a way of turning off the comments. Maybe we just turn
19 off your screens.

20 MR TRENTO: Yes, sorry, because I am not a native English
21 speaker, I think it would be quite useful for me to have
22 the transcripts there, but if it is not possible, it is
23 not possible.

24 THE CHAIRMAN: It is coming up on the same screen as the
25 transcript, is it?

1 MR TRENTO: Yes, I am afraid so.

2 THE CHAIRMAN: Well, does anyone else have this problem that
3 their comments are still coming up? No. Okay. There
4 must be a way of getting rid of it and we will sort it
5 out over the break.

6 MR TRENTO: Perfect. Thank you.

7 (12.07 pm)

8 (Short Break)

9 (12.14 pm)

10 PROFESSOR WATERSON: Mr Economides, if you want to say
11 something about this point at this stage, I think that
12 would be useful. Maybe we can see what you have
13 prepared on screen, although we may well come back to it
14 at some later stage, but let us at least have a look at
15 it.

16 THE CHAIRMAN: You have the reference numbers, do you,
17 for --

18 MR ECONOMIDES: I saw it flash up a few minutes ago but it
19 is {RC-Q1/1/1}.

20 So what we are looking at is the full dataset.
21 There is a table with all the data on the next page, but
22 this is -- before we go to the next page, apologies --
23 this is the full dataset with all the lines included.
24 Some of the lines were included in Ms Webster's chart
25 and some had been removed in order to adjust the chart

1 to try to make it as retail oriented as possible. That
2 is my assumption -- presumption as to why that was done.

3 So, again, we are now seeing the full dataset, it is
4 transaction values for both individuals and businesses,
5 and it is by means of payment. So what you can see here
6 is, again taking that very broad universe into account,
7 the cash line, the debit card line and the credit card
8 line are towards the bottom, and relatively flattish
9 because of the very large denominator, obviously,
10 whereas the two lines that are particularly interesting
11 are the automated credit line, that is quite steep and
12 grows, and that is to a large extent a reflection of
13 businesses using automated credit more, but it is also
14 consumers using it for non-retail transactions.

15 Automated credit, to be clear, is the Faster Payment
16 System. It is transfers that we all do to a sort code
17 and a bank account to make payment for services.

18 THE CHAIRMAN: It includes CHAPS payments, things like that?

19 MR ECONOMIDES: Yes, my understanding is that it does.

20 Again, a portion of them will be consumer and a
21 large portion of them will be business.

22 Cheques is the other interesting line. It declines
23 quite steeply from about 56% to almost nothing. Believe
24 it or not, there are still cheques around. Hard to
25 find, but there still are. That line is also both

1 businesses and consumers, and that is where the issue
2 arises, because Ms Webster has made an assumption, and
3 I cannot disagree with that assumption, that we can
4 remove automated credit because they are not relevant
5 for retail environment. We can probably also remove
6 direct debits, the blue line, because although direct
7 debits are probably relevant for some claimants, Three,
8 for example, and others will be relying a lot on direct
9 debits, they are probably less relevant for traditional
10 retailers.

11 So if we skip the table and go to the third page
12 {RC-Q1/1/3}, the table is there for reference. Well,
13 actually, sorry, apologies, let us glance at the table
14 just for one second {RC-Q1/1/2}, just to observe that if
15 you take this denominator into account, ie transaction
16 values for both businesses and individuals, actually
17 credit card transactions barely move. You can see that
18 they go from 1.4% to 2%. Debit card transactions go
19 from 1% to 7%. So the lines are quite flat, but that is
20 explained by the universe of payments that is not
21 retail-specific.

22 Now, on the next page {RC-Q1/1/3}, and there are
23 only five, this is removing direct debits as less
24 relevant, removing automated credit, but showing clearly
25 the cheque line. So this is basically the chart in the

1 report with the missing line added, so you can see where
2 the rest of the 100% goes.

3 So I think what is interesting to note is that the
4 lines obviously for direct debits and credit cards
5 become a lot steeper, but the question is how much of
6 that grey line is business versus retail, because what
7 we are looking at is still not fully retail, it still
8 has lots of business transactions in there. So the
9 question is how many business transactions are in there
10 and what would happen if we were to adjust that line?

11 So if we go to the next page {RC-Q1/1/4}, this is an
12 alternative dataset from the British Retail Consortium.
13 This is a survey based -- the BRC surveys its members.
14 According to the BRC, their members represent 35% of
15 total UK retail sales through 25,000 stores. That is
16 mentioned in the note.

17 So based on this survey, you can see that they
18 are -- by the way, the survey is retail-specific, so
19 directly relevant, but unfortunately does not go before
20 2010. But at least it gives us an indication that
21 between 2010 and 2022 the line for credit cards has been
22 flat from '21, back to '21, with a slight spike during
23 Covid, as expected, and the line for direct debits is
24 steeper but not as steep as it was in the previous
25 chart, it goes from --

1 THE CHAIRMAN: You mean debit cards?

2 MR ECONOMIDES: Apologies, yes, debit cards.

3 So it goes from 46 to 64, which is a meaningful
4 difference of 18 percentage points but not as steep as
5 what we saw previously.

6 So what I have tried to do on the next -- oh, and
7 just to highlight that total card is 67% for 2010 and
8 goes up to 85% for 2022. So in that period the growth
9 is there but not as steep.

10 Now, the final page, trying to bring everything
11 together {RC-Q1/1/5}, if -- so this is the same chart on
12 the data that Ms Webster used, the line chart, with
13 a cheque line included, but it is just a different
14 representation. It is 100% stock bar, as opposed to
15 lines, so you can see more clearly how things are
16 together from one year to the other. So it is identical
17 data to the ones we were looking -- the data we were
18 looking at before, and if you exclude the grey part, it
19 is identical data to the data in Ms Webster's report.

20 So if you compare 2022, starting from the right of
21 the chart, total card, just adding up 18, the orange
22 segment, and 63, is 81, versus Ms Webster's 85% for the
23 BRC, based on the previous page. So the numbers are
24 broadly equivalent, there is only 4 percentage points
25 difference, and notice that cheques represent 12%.

1 Now, if you go back to 2010, which is the first year
2 of BRC data, total card, based on this chart, is 24%
3 versus BRC 67%. So there is a difference of 43
4 percentage points. Where are those 43 percentage points
5 coming from? They are coming from cheques. Basically
6 two-thirds of the cheques on this diagram -- for that
7 year, the 60%, are not retail transactions, they are
8 business transactions.

9 This is not overly scientific, it is directionally
10 probably correct that two-thirds of the 60, about 40%,
11 is business. So if you scale -- remove that and you
12 scaled up cards, you would, if you believed that
13 assumption, get to the BRC number of 67%.

14 Now, what would happen if we went back to 1995 and
15 we considered again, without having the evidence for
16 this, that two-thirds of the transactions are also
17 business at that point in time? That would remove 56%
18 as non-retail, so not potentially captured by the BRC
19 survey if the BRC survey had been run there, and it
20 would scale up the other numbers to a pretty meaningful
21 extent. It would scale up the total card to 60% at that
22 point in time.

23 THE CHAIRMAN: Right.

24 MR ECONOMIDES: I know there was a lot, but ...

25 THE CHAIRMAN: I think we need to give the others a chance

1 to comment on that, if they wish to.

2 MR COOMBS: Could I make a couple of comments here.

3 First of all, just going back to the graph in
4 Annex 1, I think it might be useful to look at the
5 numbers underlying this graph. I have the reference for
6 that which is {RC-Q4/16/1}. That is the -- if we can
7 download that, it is a spreadsheet. Is it possible to
8 download the spreadsheet so we can look at it?

9 (Pause)

10 There we are. This is the graph. Then if we just
11 scroll down to the table below, the table below. So
12 what the graph is saying is it is saying the share of
13 transaction values accounted for by cash and card
14 payments, and so I think the question that Mr Economides
15 was raising is, well, what are the transactions here,
16 what is denominator that is being used here? We are
17 dividing card transactions by a denominator; what is
18 that denominator and is it correct?

19 So if you look at the left-hand column here, this is
20 the denominator, the total, and the values for card
21 payments and debit card payments are divided by this
22 denominator to get the percentages which are shown in
23 the graph. If I am getting this wrong, Ms Webster can
24 correct me, but I understand that is what is happening
25 here.

1 Now, the thing that is very strange is if you look
2 at the denominator, the total here, it starts -- these
3 are, I believe, billions of pounds. So it starts at
4 2 trillion in 1995, it goes up to about 2.3 trillion
5 in 2002, after which it then declines, and declines
6 quite steeply, so by 2022, it has declined to
7 1.16 trillion.

8 Now, what I presume we should be looking at here is
9 the value of transactions in the UK retail economy.
10 That is, I would have thought, what this denominator
11 should be representing. But if that is the case, then
12 this does not look right, in my opinion. It is simply
13 very odd that the value of retail transactions has more
14 than halved during that period.

15 PROFESSOR WATERSON: There is no adjustment for inflation
16 here; these are raw figures?

17 MR COOMBS: I believe so, yes. So that, you know, suggests
18 that this is not really a very meaningful comparison if
19 we are having a denominator which is falling so
20 dramatically.

21 Now, the question that Mr Economides has been
22 highlighting is, well, what would be the correct
23 denominator? So I agree with what he says, which is
24 that cheques are included here. But cheques are not all
25 retail transactions, there are cheques which are

1 business to business or other transactions.

2 The same issue would arise if we do what he has
3 illustrated, which is you just add back in direct debits
4 and other transactions, but, again, you will have a mix
5 of retail and non-retail transactions.

6 So what would be the correct denominator? I am not
7 quite sure if I have the answer to this, but I might do,
8 which is that, Professor Waterson, you will remember
9 there was a trial in Mr Merricks' case last year?

10 PROFESSOR WATERSON: Yes.

11 MR COOMBS: Where we dealt with the issue of value of
12 commerce, and I produced a report there on value of
13 commerce, and in the context of producing that report,
14 I actually had to find out a number for the UK retail
15 transactions.

16 It has taken me a while to remember this and get
17 back, and I had to ask my team to investigate this and
18 find out what we did, but it turns out that we did
19 actually have a number for UK retail transactions. So
20 I do not know if we want to go to it, but I believe it
21 was uploaded to the system, so it is at {RC-Q4/23/1}.

22 Now, the caveat I would make is this has been done
23 in a big hurry, in the sense that my team found these
24 numbers over the weekend and so we put them together,
25 but I thought it was important to do that to make the

1 court aware that these numbers, certainly in the case of
2 Mr Merricks' proceedings, actually have already been
3 used in the context of the value of commerce, and
4 obviously these numbers, rather than going down, they
5 increase quite dramatically over time.

6 So these numbers are taken -- they are derived from
7 the ONS, the Office of National Statistics, and they are
8 referred to in my report from last year, in Coombs 9.

9 MS TOLANEY: Can I just interrupt to say this material again
10 has come very late.

11 THE CHAIRMAN: It has.

12 MS TOLANEY: So the other experts, I assume, and certainly
13 our experts and we, have not had time to look at it at
14 the moment.

15 THE CHAIRMAN: I understand that.

16 PROFESSOR WATERSON: I would suggest that we come back to
17 this issue when we -- hopefully tomorrow, when we
18 consider Mr Merricks more specifically. Overnight, I am
19 sure, the others will have a chance to look at this.

20 MS TOLANEY: I am sure that is right, but just to put one
21 marker down that I think the level of detail and data
22 involved may take more time than overnight for a fair
23 assessment.

24 THE CHAIRMAN: Of course you will not be able to talk to
25 your experts overnight.

1 MS TOLANEY: Indeed.

2 THE CHAIRMAN: Well, it may be we come back to it then, or
3 it is dealt with perhaps more appropriately in
4 cross-examination.

5 MS TOLANEY: I think that may be more helpful.

6 THE CHAIRMAN: Yes.

7 MR COOMBS: Maybe just to close off: as I said, I think
8 I did acknowledge earlier that this has been done in
9 a hurry, so I would not say that this is, by any means,
10 the perfect analysis, I am just saying that there
11 alternative sources available, but, yes, I would want to
12 look at this much more closely myself before relying on
13 this analysis.

14 THE CHAIRMAN: If I recall correctly, this formed a large
15 part of Merricks' opening submissions, submissions in
16 relation to Ms Webster's graph. So I assume you have
17 done the work to follow up on that?

18 MR COOMBS: Yes, I did some -- well, to be honest, my team
19 did some digging to find out what we did in preparation
20 for the trial last year and we found these numbers, but
21 only ultimately over the weekend.

22 THE CHAIRMAN: Well, I think in the light of that it is
23 probably inappropriate to go through it in any great
24 detail in the hot-tub, and others ought to have an
25 opportunity to consider it a bit more carefully, but

1 I think we know where you are coming from.

2 MR COOMBS: Thank you.

3 THE CHAIRMAN: Right.

4 PROFESSOR WATERSON: Maybe, unless there are further
5 comments on this particular annex, then we should move
6 on, unless you want to say more on it, Ms Webster.

7 MS WEBSTER: Yes, if I may. Just a few comments. So
8 I think it is right that Mr Economides has pointed out
9 that the data that I have presented in this annex is
10 APACS data and it relates to both business transactions
11 and to consumer transactions, retail transactions. What
12 I have tried to do, therefore --

13 THE CHAIRMAN: Sorry, what did you say, what type of data?

14 MS WEBSTER: It is APACS. That is the source of the data.

15 THE CHAIRMAN: Yes, thank you.

16 MS WEBSTER: What I have tried to do is to strip out payment
17 types that I think are less likely to be relevant in
18 a retail setting, so have taken out automated credit,
19 taken out direct debit. I have left in cheques
20 because -- sort of partly to your comments earlier,
21 Professor Waterson, about being in a supermarket and
22 standing behind a person with cheques. Cheques were
23 used to a degree in the retail setting. I think the
24 analysis which Mr Economides has pointed out is that
25 that is not the only use of cheques, and therefore they

1 would also have been used in a business setting for
2 business transactions.

3 So then there is a question about sort of what
4 proportion of cheques it is right to include or not.
5 I have looked at this data sort of excluding cheques
6 entirely, and what that shows, and apologies, I do not
7 have a last minute graph to share, but that data shows
8 that there is still a very large increase in card
9 transactions and the share of all retail transactions
10 covered by cards, and that is from, just to give an
11 indication of the numbers, sort of around 10% for debit
12 cards and 13% for credit cards, that would be at the
13 beginning of the period, through to sort of 72%-ish for
14 debit cards, 21% for credit cards, and that is really
15 being driven by the full decline in cash, use of cash,
16 and it is the substitution from cash to cards.

17 Now, again, I do not think that is necessarily
18 exactly the right picture because cheques will have been
19 used to an extent, but I just wanted to share that that
20 is the picture that you get when you leave cheques out
21 entirely.

22 I think the British Retail Consortium survey data is
23 another source of information on this, and what I would
24 note from the charts that Mr Economides has shared is
25 there is a clear trend, particularly in the use of debit

1 cards, for the period of data that is included in his
2 charts, so that is 2010 to 2022, with the increase --
3 and, sorry, that change in the use of the share of
4 transactions covered by debit cards, when put together
5 with credit cards, means that total card share of
6 transactions rises from 67% in 2010 to 85% in 2022.

7 Mr Economides has talked about some sort of backward
8 extrapolation to what the position could have been
9 in 1995. I think that makes an assumption about
10 actually how cheques were used in the retail
11 environment, so I do not think those calculations were
12 necessarily shared in the material that you shared with
13 these charts, so I will not comment on that, but I would
14 note that that is a fairly big assumption. So I would
15 not place weight on the -- I think you said you thought
16 it might be 60% card usage in 1995. I think that would
17 be -- well, I would not place weight on that estimate.
18 I think it would be an overstatement.

19 MR ECONOMIDES: If I may, I agree with that, and that is why
20 I did not put it on the slide. It was just to
21 illustrate that if a meaningful portion of those cheques
22 were business oriented, the total of the two types of
23 cards would go up, and I hope Ms Webster agrees with
24 that now. Now, what number would it go up to is
25 difficult to say.

1 PROFESSOR WATERSON: Thank you.

2 MS WEBSTER: One further comment on Mr Coombs' analysis,
3 which I have had even less time than Mr Coombs has had
4 to have a look at it.

5 So two thoughts. The first one is in terms of the
6 source of the evidence in terms of the retail
7 transactions, that is clearly a sort of big driver of
8 the results that he obtains. I think I would want to
9 look in detail at the assumptions that go into that.
10 I think it depends, on a brief look, exactly which
11 sectors have been selected from the ONS dataset to be
12 termed retail sectors. There will be an element of
13 judgment in that. I think I would wish to look at the
14 assumptions.

15 In this sense, I probably prefer Mr Economides'
16 analysis, which is this survey evidence based on
17 retailers, which I think may be somewhat more reliable,
18 because it does not require that assumption to be made.

19 The other comment that I would have on Mr Coombs'
20 analysis is actually, I think, even when he then uses
21 this analysis to look at the change in card usage as
22 a share of all transactions, it is still showing the
23 same upward trend, in particular driven by an increased
24 share of transactions being accounted for by debit
25 cards.

1 PROFESSOR WATERSON: Thank you.

2 MR COOMBS: Just to comment on that. I think we are all
3 agreed that these numbers have been put together in
4 a great hurry, so I am not suggesting that this is the
5 right answer to the question; I am just saying there are
6 alternative sources of information available and, in
7 particular, they show a dramatic increase in retail
8 transactions, rather than a dramatic decline in retail
9 transactions.

10 PROFESSOR WATERSON: Thank you. I think that was useful,
11 but we may well come back to this, and of course I am
12 sure it will form a topic of cross-examination in due
13 course.

14 So let us move on to another data issue, and I think
15 Mr Holt would be a useful person to start here, about
16 the criteria for choosing an appropriate proxy.

17 Before I say that, I should say that I think you are
18 all agreed that amongst the people assembled before us
19 here, you are all agreed that it is necessary to have --
20 to use a proxy to examine the relevant question that we
21 are examining. So then the question is the criteria for
22 that proxy, and so, Mr Holt?

23 MR HOLT: Yes. Thank you, Professor Waterson.

24 So the criteria that I think are relevant for the
25 assessment of the proxy relate to a number of things.

1 Firstly, the nature of the counterfactual. Secondly,
2 some of the factual assessment that is relevant and,
3 thirdly, the economic principles.

4 So the nature of the counterfactual is relevant
5 because the counterfactual I think could be agreed, but
6 perhaps it is not, is that for the claim periods there
7 would be a reduction to zero perhaps of the MIFs, and
8 therefore that would be a permanent reduction that would
9 persist throughout the remainder of the period. So the
10 relevance from a criteria perspective that I take into
11 account from that assessment is that we need to be
12 thinking about a long-term perspective in relation to
13 the concept of pass-on.

14 The second issue is what are the economic principles
15 that are important determinants of the level of pass-on
16 because that can help inform the relevant proxy. So, in
17 my view, the most important economic principles that
18 determine pass-on rates include the nature of the cost,
19 ie whether it is variable or fixed; secondly, the nature
20 of the extent to which the cost is a firm-specific or an
21 industry-wide cost, and then, third, again, drawing back
22 to the counterfactual point, the importance of the cost
23 change being one which reflects not a temporary change
24 but one that would persist over time.

25 I think there is a further component which is that,

1 again, going back to the nature of the proceedings and
2 what the counterfactual is, it is of course a change in
3 the level of the MIF and, hence, the MSC, and that is
4 the price of an input, the price of accepting payment
5 transactions, and so that is a relevant consideration
6 because what we are trying to do is identify a proxy
7 which would, in a sense, best replicate the likely
8 effects of the change in the MSCs, and that is
9 effectively a change in the price of an input, not
10 a generalised change in the level of expenditure of some
11 cost, and I think there are some important distinctions
12 between those two points which I am happy to go into.
13 I will sort of park on that for the moment.

14 So those are the primary economic principles that
15 I think are relevant.

16 I had already identified that there are a number of
17 other principles that I accept are important, but which
18 are important to the determining of the sectoral pass-on
19 rates from the empirical assessment but not so important
20 for the choice of a proxy. Those include the factors
21 that we discussed in the first part of the hot-tub,
22 shape of curves and so on, I will not go through all
23 that again.

24 Also perhaps it is fair to point out that some of
25 the other experts put more weight on some other

1 criteria, such as the size of cost and the treatment in
2 pricing. In my view, again, given the counterfactual
3 being one which suggests that we need to look at the
4 long run here, the more important proxy selection
5 considerations relate to the nature of the cost and the
6 type of cost, so industry-wide and variable in the
7 context of the facts of what the MIFs and the MSCs
8 represent.

9 So, in my view, the other factors which some of the
10 other experts have put a great deal of weight on are
11 less likely and, in my view, uninformative as to the
12 long-run rate of likely pass-on because the incentives
13 that firms will face in relation to a variable
14 industry-wide cost change I think are clear,
15 irrespective -- and similar, irrespective of whether the
16 size of the cost change is small or large. Obviously
17 there will be a bigger effect for a large change than
18 a small one, but we are not talking about the size of
19 the effect, we are talking about the proportionate
20 effect, and although, again, there are price adjustment
21 costs that I appreciate will potentially be relevant,
22 particularly for a small cost, again I do not think that
23 that is a relevant consideration in the long-term
24 because the long-term effectively will allow for an
25 adjustment to these types of factors.

1 I think obviously we will probably come on to the
2 issue of treatment of pricing strategy as a further
3 potential criterion. I have put no weight on that as
4 a long-term determinate pass-on and the reason for that
5 is I do not consider that it would be reasonable to
6 expect that firms whose incentives would be to
7 potentially respond to a change, if it is a variable
8 industry-wide cost change, would essentially leave money
9 on the table and not act in relation to their own
10 incentives for a persistent period of time and,
11 moreover, I also I think -- it is sort of the flipside
12 of the same coin -- do not consider it reasonable to
13 expect that in a market with lots of rivals competing,
14 and I think that in many sectors of the retail economy
15 in the UK there is a significant amount of competition,
16 that it would be reasonable to say that all these firms,
17 who would face similar incentives, again based on the
18 nature of the cost change being variable and
19 industry-wide, would all fail to respond to those
20 incentives, leave money on the table and not be, in
21 a sense, forced through competitive reactions to respond
22 to those incentives.

23 So those are the main criteria I have identified.

24 PROFESSOR WATERSON: Thank you. That is quite a long
25 answer, but I imagine that Mr Trento has some

1 alternative observations to make on that.

2 MR TRENTO: Yes. Unfortunately I think it is going to be
3 long as well, but --

4 THE CHAIRMAN: Can I just say, before you start, Mr Trento,
5 we were having a bit of difficulty hearing exactly what
6 you were saying. I think it was being picked up very
7 well on the transcript, but if you could just try and
8 talk a little bit slower, I think that would help us.

9 MR TRENTO: Of course.

10 THE CHAIRMAN: Thank you.

11 MR TRENTO: Yes, okay. So what is the main characteristics
12 of a proxy cost that we want to have here? The main
13 characteristic is that the proxy cost is passed on at
14 the same rate or a similar rate as the MSCs. If that is
15 not true, then we have the wrong proxy cost. I think
16 there is quite a lot of evidence, both empirical
17 evidence and qualitative evidence, that COGS, or cost of
18 goods sold, and overhead costs are passed on at
19 a different rate and that the mechanism for pass-on is
20 very different for the two.

21 Now, we heard that Mr Holt referred to the variable
22 cost and to the fixed cost, but if we go to the economic
23 theory, really the distinction is between the marginal
24 cost and the fixed cost. The marginal cost is the cost
25 of supplying an additional unit of product and then if

1 you look at the evidence from the Claimants, what is
2 a marginal cost? Well, if you are a supermarket and
3 a want to sell bananas, then the wholesale price of
4 bananas is a marginal cost and it is a product-specific
5 cost.

6 If you look at other costs, so imagine I look at
7 labour, I am a supermarket and my cost of labour, some
8 of it is a fixed cost because I need a minimum amount of
9 worker to make the supermarket operational and then if
10 the supermarket is busier or if I want to open on
11 a Sunday, then I will need more workers and that
12 component is no longer fixed; it becomes variable. If
13 you look at the price of utility, like electricity, it
14 is almost the same. So you have a fixed component and
15 then you want to open two additional hours, then you
16 will have to increase the cost, but the big difference
17 when you look at the evidence is really between
18 product-specific cost, so the wholesale price of
19 bananas, and common costs, which are these costs of
20 labour, utilities, the rent and, you know, and a large
21 number of other costs.

22 The evidence is that these product-specific costs
23 are classified as cost of goods sold, so COGS, and the
24 other common costs are classified as overheads because
25 they are common costs and if you want to -- so, for

1 instance, the wage of a cashier, can you locate it with
2 specific product? You cannot. So if you want to pass
3 on the wage of a cashier, then you have to spread the
4 cost across a large number of products and that is very
5 different from the wholesale price that you pay for
6 a particular product, which is part of COGS.

7 So I think the difference is quite neat. I think it
8 is consistent with economic theory and when you look at
9 the qualitative evidence, what the qualitative evidence
10 has -- it is actually very nice because it is really
11 consistent with economic theory because economic theory
12 says: what do you need to know in order to price? You
13 only need to know your demand -- these are the charts
14 that Professor Waterson produced -- you only need to
15 know demand and you need to know your marginal cost and
16 then when you look out the Claimants' evidence, what you
17 see is that the Claimants say the two most important
18 things for us in order to price are the price of
19 competitors, which will tell you something about the
20 demand because if you price above your competitors you
21 will sell less and if you price below, you will sell
22 more, and the other thing is cost of goods sold. It is
23 COGS and it is the product-specific cost that you have.

24 Then you have a bunch of other costs, which are
25 these common costs, and the way that these are treated

1 I think is also consistent with logic and economic
2 theory because if I am a price manager, what I want to
3 do is I want to monitor those costs because I want my
4 profitability to reach a certain level and so the way
5 that the overhead costs may feed into price is much less
6 granular than the way COGS feed into prices. What
7 happens there is that if overhead costs go up by a lot
8 and then my profitability decreases, then we have heard
9 from the Claimants on Wednesday and Thursday last week,
10 what do they do? Well, they say, okay, profitability is
11 no longer aligned with our expectation, we need to do
12 something about it, and what you can do, and we have
13 heard from the witnesses, well, you can reduce your
14 marketing expenditure, you can delay a training or you
15 can even act on prices. You can increase your prices,
16 for instance. But the mechanism for pass through for
17 the overhead cost is this mechanism by which you look at
18 overhead costs as an aggregate. If they affect your
19 profitability in a way that you do not like, you may
20 take an action and therefore, in my opinion, if the
21 MSC -- so for those claimants for which the MSC is
22 treated as an overhead cost, it makes sense to use as
23 a proxy for the MSC total overhead costs because this is
24 the mechanism through which these costs are fed in to
25 prices, if they are.

1 That is the first thing.

2 Then the second thing is that if you look at COGS,
3 these are much different. So COGS are available
4 product-by-product and many claimants actually work with
5 gross margin target, which means they say: okay, if our
6 COGS is 100, then we want to have a price that is more
7 or less on average 60% above our COGS. Therefore, if
8 COGS change, then the -- this is a direct input into
9 your pricing consideration so the two most important
10 thing is COGS and price of competitors. The pass-on of
11 total overhead costs has a completely different
12 mechanism.

13 MR TIDSWELL: Can I jump in? Can I ask you a couple of
14 questions about that. The first one is in relation to
15 the setting of the gross margin, would I be right in
16 thinking, both as a matter of economic theory and also
17 from what we have heard from the evidence, the point of
18 setting that gross margin is to have some approximation
19 of what level of margin is necessary to cover all of the
20 overhead costs?

21 MR TRENTO: I would perfectly agree with that, yes.

22 MR TIDSWELL: Also, just in relation to the evidence we
23 heard last week, I got something of a sense, and maybe
24 I am wrong about this, but something of a sense that
25 actually the assessment of the bucket of costs or the

1 groupings of costs that were used for that gross margin
2 purpose was quite pragmatic; in that it was not very
3 helpful to have a very large cost stack to do it and it
4 was much easier to pick out two or three things and
5 often they were quite different things, depending on the
6 business.

7 So, for example, and I am not going to get into any
8 particular merchants, but we did see one merchant
9 looking very specifically at some labour costs and
10 pulling those into the costs of -- into the gross margin
11 calculation. So the sense I got was that there was
12 a pragmatism that said what are the real drivers of
13 likely change in the price and how do I find those and
14 pull them into my assessment. Would that be a fair --
15 I mean, that is slightly different, I think, from what
16 you are saying, which is that there is more of
17 a theoretical delineation. I got the impression it was
18 really very pragmatic when they were choosing what they
19 were going to put into the calculation.

20 MR TRENTO: I am grateful for the question because it allows
21 me to clarify one thing. I think the gross margins are
22 set with respect to COGS and then what you have just
23 said, and I have agreed with that, is that those target
24 margins are set with an eye to recovering all of the
25 other costs which may be overhead costs and to make

1 a margin.

2 Now, my only point -- the only point that I am
3 making is that when you look at the overhead costs, it
4 is very difficult for a price manager to take a decision
5 based on the change in price of each individual cost
6 item that goes into overheads because these are hundreds
7 of inputs. So it would be very computationally
8 impossible and I think very inefficient for me to take
9 a price decision based on, okay, let us look at the wage
10 of retail staff, gone up by a bit; delivery staff, gone
11 down by a bit; IT, etc, etc, and the MSC and the price
12 of laptop and the price of, you know, electricity and so
13 on and so forth, it is many, many items, many, many cost
14 items.

15 So my understanding of what the Claimants do is that
16 they take a broader approach, whereby they say, you
17 know, either I look at the overall profitability or
18 I look at big costs. So, for instance, I think what we
19 have heard last week is that if wages account for around
20 50% of a business -- the total overheads costs
21 a business, then the Claimants may want to look
22 specifically at what happens when the level of wages
23 increases or decreases or the costs of paying wages
24 increases or decreases, but my only argument here is
25 that this is not done for each individual cost item that

1 goes into overhead costs because it would be practically
2 impossible to do that.

3 I do not know whether this answers your question?

4 MR TIDSWELL: No, it is, but I think the point I am driving
5 at, and it will be interesting to see what others say
6 about it, is that it is not so much about categorisation
7 that is very specific to the type of cost, it is
8 actually more about the pragmatism of choosing the costs
9 that will most likely help you set a competitive price.
10 So therefore you might have things in your overhead
11 costs which are actually variable costs and do actually
12 vary very directly with the price or the transaction,
13 but, equally, you might choose not to take them into
14 account because, as I think you were saying, they are
15 just not particularly helpful in getting what may be
16 quite an agricultural outcome from the costs of goods
17 sold analysis, which you are then going to benchmark
18 with some other things, like your assessment of
19 competitive pricing and your own assessment of demand.

20 MR TRENTO: Sorry, just one second.

21 MR TIDSWELL: I am sorry, I have probably spoken too fast.

22 (Pause)

23 PROFESSOR WATERSON: By "agricultural", I think that is
24 a New Zealand expression for "rough and ready".

25 MR HARMAN: Sir, I would also be able to comment on what

1 I actually see in the factual record.

2 PROFESSOR WATERSON: I fully intend to ask both you and

3 Mr Economides.

4 THE CHAIRMAN: The point is whether we continue after lunch

5 or shall we try and finish off this? I think we might

6 struggle to finish it.

7 PROFESSOR WATERSON: Fair enough. Okay.

8 MR TIDSWELL: Shall we just see if Dr Trento wants to say

9 anything else on that?

10 THE CHAIRMAN: Yes.

11 MR TIDSWELL: I do not know whether you want to say anything

12 else on that?

13 MR TRENTO: I think --

14 THE CHAIRMAN: You want to go to lunch?

15 MR ECONOMIDES: Obviously Dr Trento and I have worked

16 together closely on some of those things so I am happy

17 to add my perspective later.

18 THE CHAIRMAN: I think quite a lot want to comment on this

19 so we will adjourn now until 2 o'clock, but, as I said

20 before, you remain in the hot-tub over lunch so you are

21 not to talk to anybody about the case.

22 (1.05 pm)

23 (The luncheon adjournment)

24 (2.00 pm)

25 THE CHAIRMAN: Good afternoon.

1 PROFESSOR WATERSON: So I think we were -- we had had
2 Mr Trento and we had also had Mr Holt on this issue of
3 proxies and so on.

4 Mr Economides, I think you have something to say on
5 this?

6 MR ECONOMIDES: I do. It is one of the few things I have
7 something to say about. Thank you.

8 So let me just start by saying that I recognise that
9 the distinction between variable versus fixed is very
10 important, appears to be very important from an
11 economist's perspective. I do not have a view on this,
12 but it does seem to be that most of the expert
13 economists are referring to this concept and trying to
14 build the process to choose a proxy on the basis of that
15 distinction.

16 I would argue, however, that that distinction is not
17 that important from a business perspective. I would
18 like to refer to Mr Tidswell's comment from before the
19 break, from before lunch, when he indicated that a
20 business cannot manage everything at the same time -- I
21 may be paraphrasing, and correct me if I am wrong, but a
22 business has to choose pragmatically, or tends to
23 choose, not necessarily has to choose, tends to choose
24 based on, at least the factual witnesses, a limited set
25 of -- a more limited set of costs to act on, rather than

1 the full spectrum of the P&L.

2 MR TIDSWELL: Just to be clear, I was reading back what
3 I think I picked up from the evidence, rather than
4 expressing any --

5 MR ECONOMIDES: Okay, I understand.

6 MR TIDSWELL: It may be there are arguments about whether
7 the evidence does say that, but that is certainly the
8 point.

9 MR ECONOMIDES: Okay, thank you.

10 So I would argue that that premise is correct and
11 that businesses have to focus on the most material of
12 performance levers to drive the financial performance of
13 a business.

14 A change in prices cannot occur without something
15 positive happening. It can -- an actor acting,
16 typically. That actor can be a machine, and if it is
17 a machine then the evaluation is a bit easier. We look
18 at the inputs that go into the machine to determine if a
19 certain cost is one of them. If the actor is a human,
20 and we are looking to find a proxy cost to simulate
21 their behaviour, then the evaluation is more complex,
22 and I think the question of whether a human acted on an
23 increase in cost requires a set of business
24 considerations in addition to potentially the economic
25 considerations that the expert economists have

1 considered.

2 From our perspective, we considered the position in
3 the P&L. As the factual witnesses emphasised, it makes
4 a significant difference in terms of the business
5 response to a change in cost, whether something is a
6 COGS or an overhead. I can come back to this. The
7 relative size as a cost component, we feel it is
8 important, because visibility changes based on size.
9 Also the -- whether a change in cost will trigger
10 management attention -- will attract management
11 attention and also trigger action, changed based on
12 size. Again, businesses have a lot of variables to
13 manage and they cannot focus on every single one.

14 As I said, visibility, management reporting, the
15 nature of the cost, whether it is discretionary or
16 essential. If something is discretionary, there is the
17 added ability to reduce the cost rather than pass it on.
18 So the propensity to reduce the cost may be higher,
19 whereas for something that is of an essential nature the
20 propensity to pass it on may be higher.

21 The business ability to reduce the cost. Again, if
22 something is capable of being reduced, it is more --
23 less likely to be passed on. Visibility to
24 end-customers because they are in some cases, for
25 example, like VAT, expecting a change, whereas in the

1 case of an MSC they are not expecting such change, and
2 that applies to, I would argue, most of the overhead
3 costs. Consumers do not necessarily have an
4 understanding of the overhead costs of a business.

5 Then, finally, the relationship with revenue, so if
6 it is variable or fixed.

7 So we did this exercise to identify proxy costs that
8 have similar characteristics, and we did --
9 unfortunately we -- the exercise appeared to require
10 even larger costs than the ones that we proposed. So
11 therefore the question becomes: where should one go? We
12 think that, following that thread, especially when it
13 comes to claimants that treat the MSC as overhead, you
14 have to follow that thread and go to total overheads as
15 the natural next step, because you are relaxing further
16 the size consideration, potentially you are also
17 relaxing, or clearly also relaxing the visibility
18 consideration, but you are staying on the same side of
19 the P&L, and therefore a lot of the characteristics that
20 we think are important for the selection of the proxy
21 will apply to total overheads, whereas they will not
22 apply to COGS.

23 Now, another way to look at it is to evaluate the
24 two potential proxies, total overhead versus COGS, in
25 relation to the three channels of pass-on, as they have

1 been characterised: the direct, the pass-on through the
2 margin -- through margin management, and the pass-on by
3 following competitor prices.

4 When it comes to direct pass-on, the factual
5 evidence is important, and the fact that overhead costs,
6 like the MSC, are not considered in price setting, as
7 the factual -- as the factual witnesses have testified,
8 is important. Clearly COGS would not enjoy the same
9 treatment, and therefore it would be -- it would grossly
10 overestimate the pass-on.

11 Looking at margin-related pass-on, again, the
12 factual witnesses are important here, factual evidence.
13 Businesses optimise their margins, and when they set
14 prices, they optimise their prices typically based on
15 price elasticity and the likely reaction of the market.

16 I do not want to refer to confidential information
17 from the witness testimonies, but we have heard that a
18 lot of effort goes into the management of the price,
19 looking at competitors, and the notion that then that
20 gross margin estimate moves up the management chain,
21 somebody discovers that EBITDA is -- or operating margin
22 is not sufficient, and then pushes it back for
23 a significant change in price, is, from my perspective,
24 and based on my experience, quite problematic. It is
25 much more likely at that point that that conversation

1 will trigger a cost reduction, rather than a review of
2 prices, assuming that the prices were set at the optimal
3 level to start with.

4 I am not saying that prices can never change as
5 a result of that process, but it is much more likely
6 that a cost conversation will take place.

7 So, therefore, both the direct and the indirect
8 channels are a lot less available. The case of -- the
9 direct channel is not available, it is not -- when the
10 MSC is not considered, and the indirect channel is a lot
11 less likely to be used.

12 So that leaves the competitive pass-on channel, and
13 I cannot see, assuming that we consider that all the
14 Claimants are representative of their sectors, and I can
15 talk about that, I know it is a big if, but it is an if,
16 I cannot see how one of those major companies will see
17 the -- will only manage prices to follow competition and
18 how a competitor can actually seek to pass on the MSC
19 when the direct mechanism may not be available for them,
20 assuming they operate in a similar way, and the indirect
21 channel will also not be available, assuming, again,
22 they operate in the same way.

23 Two more points. One is on the lumpiness of
24 overheads. Overheads are not linear. COGS is a lot
25 more linear than overheads, that is an assertion I am

1 making, but I think it was almost made by either
2 Mr Coombs or Mr Holt as an argument for overheads not
3 being a suitable proxy, that they are lumpy, and they do
4 not move in a -- necessarily in a predictable fashion.

5 That is indeed the case; overheads are not hundreds
6 of costs, they are actually thousands of costs, and some
7 of them go up and some of them go down from one period
8 to the other. That is not the type of movement that we
9 see in prices. That is not the type of movement that
10 a business can react to. So they have to pick their
11 battles and pick when they increase prices.

12 The final thing that I will say is on -- one of the
13 arguments against using total overheads as a proxy has
14 been that they are fixed, whereas COGS are variable, and
15 therefore one has to have -- one has to choose COGS
16 because of their variable nature. It is actually not
17 true that COGS are variable, entirely variable, as we
18 all know, and it is not quite true that overheads are
19 entirely fixed either.

20 Now, I have not been able to identify a study, but
21 if you look at the definitions of overheads, for
22 example, from the Corporate Finance Institute, they
23 include fixed overheads, variable overheads and
24 semi-variable overheads. Some pretty significant
25 components mentioned in each category for variable

1 overheads, shipping costs, advertising and marketing,
2 consultancy service, legal expenses, maintenance and
3 repair. For semi-variable, sales commissions, vehicle
4 usage, utilities, and I would argue also labour,
5 especially in the case of retail businesses.

6 So when Mr Holt looked at my report, he looked at my
7 classification of the costs of the Claimants into fixed,
8 semi-fixed and variable -- semi-fixed being equivalent
9 to semi-variable -- and reached the conclusion that only
10 5% of those costs were variable by just adding up the
11 cost categories that I had identified as clearly
12 variable. Unfortunately, that conclusion is a bit
13 misleading, because it ignores completely the
14 semi-variable costs which were, according to my
15 calculations that were confirmed by him, about 61% of
16 total costs.

17 Then, even for the fixed costs in overheads, which
18 he broadly agreed were 34%, a component of those are
19 actually variable. Even the most fixed of costs, which
20 is potentially facilities, has cleaning services,
21 maintenance, refit in a retail business that can be
22 variable components.

23 So I will conclude by saying that I think that even
24 on that dimension, overhead does not fail the test. It
25 can have a number of variable components, it can be

1 quite variable, and COGS can also have significant fixed
2 components, factory overheads, and the other things. So
3 I do not think that following the thread of a cost has
4 to be fixed or variable, which is a thread that I do not
5 agree with, necessary precludes the use of total
6 overheads as a suitable proxy.

7 PROFESSOR WATERSON: So Mr Harman, what is your view on this
8 issue?

9 MR HARMAN: Yes. I mean, if I go just a step back, to go
10 back to the question of gross margins, because I think
11 that it is kind of relevant, because what was put
12 forward there to the Tribunal was there could be
13 a significant difference between pass-on of overheads
14 versus cost of goods sold.

15 You know, in general, so I am not talking about any
16 claimant in particular, but the general theme that one
17 gets from looking at the budgeting, monitoring documents
18 and the price-setting documents, is that at the
19 beginning of a year the company has to think what it
20 wants to achieve through a set of targets and
21 a budgeting process. What we often find in those
22 situations is that what the firm really cares about at
23 the end of the day is its profitability, end
24 profitability and the cash flows that it generates,
25 because it has to pay those cash flows either to

1 shareholders, to owners and to debt holders, so EBIT or
2 EBITDA or variations of that are very important.

3 The senior teams will tend to give some overview as
4 to what they expect for the following year. They will
5 be aware of certain headwinds, for example. Maybe they
6 observe that there are higher energy costs coming. We
7 already see, with the BRC, they have looked at the
8 Labour budget, for example, and said, well, there are
9 increases in National Insurance and minimum wages. As
10 a headwind, we can see that that is going to either lead
11 to price increases or it is going to lead to the laying
12 off of staff. That is not a cost that they say they can
13 actually eat within a particular year, it has to be
14 offset in some way.

15 From there, what the teams will do at a more
16 detailed level, ie those people who are responsible for
17 certain divisions, will think about what is possible on
18 a bottom-up basis in a set of budgets, and there may
19 well be -- and I would be surprised if there was not --
20 a difference between budgets and targets. That is when
21 the senior team will come back and challenge the
22 business to say: you need to do a bit more in price, you
23 need to do a bit more in cost, these assumptions are
24 wrong, let us think about these assumptions. That sets
25 a plan that the business will try to manage towards

1 during the course of the year.

2 Now, why I think that is important is because what
3 it means is that the gross profit level is set so that
4 it achieves the overall profitability requirements of
5 the company. That gross profit is not set, you know, by
6 itself without consideration of whether the firm is
7 going to hit its overall targets.

8 So at that moment, it is absolutely true if the
9 Claimants say: we are not aware of MSCs, because they do
10 not. That is a cost of the finance function, and they
11 would not see them on a day-to-day basis, and they would
12 not see them changing on a day-to-day basis, noting that
13 there has not been this significant change of the
14 magnitude that is contemplated by the counterfactual in
15 this case. But it makes sense for them to then manage
16 the business based on what they can control; the changes
17 in suppliers' costs is something they can control.
18 Given that, if they had a gross margin target, if the
19 cost of purchases go up by 10%, they would be able to
20 increase prices by 10%, or they would consider whether
21 they can in the market place, and that would then return
22 them to the same profit margin in percentage terms that
23 they are seeking to achieve.

24 So the first thing I would say is that there is this
25 indirect degree of pass-on mechanism that flows from the

1 setting of firm targets up to the gross margin and they
2 get embedded into the prices that we observe. So that
3 is kind of point 1.

4 I would then say it is clear from the factual
5 evidence that outside of increases in supply costs, the
6 firm might have regard to other costs changes. Maybe
7 these are costs that are large and they are transparent,
8 so energy costs go up, the firm will think: am
9 I particularly specific in relation to energy costs or
10 is that a cost that is likely to be common across the
11 industry? Will there be ability for me at that time to
12 increase prices for energy costs? Of course we saw,
13 when there were higher energy costs, that flowed through
14 into high levels of inflation, which is obviously
15 observing that prices did actually go up, and that cost,
16 the energy cost, is likely to have been an overhead.

17 But I should also, just to make clear, the
18 accounting standards, the International Accounting
19 Standard number 1, the presentation of financial
20 accounts, provides users, or, sorry, the producers of
21 those accounts, the different ways in which they can
22 record costs, and they can either do it by issue or by
23 function. So one of them you would not have a cost of
24 goods sold, and you would group costs such as purchases,
25 depreciation, warehousing. The other mechanism requires

1 them to have a cost of goods sold, but users of -- or
2 the producers of those accounts have quite a wide scope
3 as to what goes into them, and it is then for the
4 auditors to sign off as to whether they think that is
5 credible. So some cost of goods sold may include
6 categories of overhead costs actually in cost of goods
7 sold, and some that overhead might actually sit in
8 overheads.

9 Then just one other thing to say on that topic is
10 that just because the accounts are produced on that
11 basis does not mean that underlying management
12 accounting information that is available to different
13 teams is presented on that basis, because obviously
14 a company behind a set of accounts is going to have
15 a lot of detailed information that sits behind it.

16 So that was something on the gross margin which
17 I think is important.

18 Obviously during the course of the year they are
19 monitoring the budgets and they are comparing actual to
20 budget, and through that process there may become
21 challenges that go back to the business, either reducing
22 costs or potentially for changing prices as
23 a consequence of that, and of course if they fail within
24 a given year, then the next year you start again and you
25 observe what your costs and your expectations are from

1 there.

2 Now, what does that mean, I think, for proxies?

3 I am not wedded to the idea that one can categorise just
4 overheads and just cost of goods sold and believe that
5 that is going to lead to the right type of proxy, in
6 part because it is a mixed bag of what is in them. Cost
7 of goods might be variable, might be overheads. It is
8 likely to be more variable than fixed overheads, but
9 there may be a level of fixity in it, and the overheads
10 themselves, I have shown in my report, are likely to be
11 a mix of variable, semi-variable and fixed.

12 It did strike me that one alternative that might
13 have come from that, if you thought that the overhead
14 price mechanism would yield a different level of
15 pass-on, might have been to add up all the variable
16 aspects of overheads to make them a bigger category of
17 variable costs. That would be possible, but the data
18 does not allow you to do that currently; you would have
19 to have more data for those claimants that would allow
20 you to categorise those costs into the different
21 buckets.

22 PROFESSOR WATERSON: You raise two interesting possibilities
23 there. One is National Insurance, you said, well, if
24 that varies, then the company will have to decide how to
25 treat that, and the other was energy costs.

1 MR HARMAN: Yes.

2 PROFESSOR WATERSON: So then a question comes of whether
3 those might constitute appropriate proxy variables, in
4 the sense, particularly with energy costs, that they
5 vary rather more substantially than MIFs do.

6 MR HARMAN: Yes.

7 PROFESSOR WATERSON: Therefore, whether those might
8 potentially be a candidate for examining.

9 MR HARMAN: I mean, I will let the economists who have
10 thought about the proxies for their econometrics deal
11 with that in more detail. But I would say what that
12 raises there is the other the distinction that Mr Holt
13 brought up, which was the degree to which costs are
14 common across a set of businesses and the degree to
15 which they are fixed. I think, again, if you are going
16 to have both cost of goods sold, which have specific
17 elements, and some which have common elements, and the
18 same happens with overheads, you would have a degree of
19 commonality for some and a degree of specific for
20 others, when you talk about energy, when we see in the
21 record whether they have changed prices or acted in
22 a different way for such costs, what is missing from the
23 record is what decision they actually went through. Did
24 they determine that that cost was likely to be common,
25 so we are more likely to be able to pass it on, or is it

1 a cost that is specific and we have to, you know, eat
2 that cost in some way, we have to mitigate that cost in
3 some way?

4 We do not have that level of granularity in the
5 narrative that would allow us to see which costs led to,
6 you know, different type of pricing decisions, but it is
7 something that one could hypothesise, potentially, that
8 they are the types of costs that may be more common
9 across the businesses and may give a better indication.

10 PROFESSOR WATERSON: Thank you.

11 Now, we have not heard yet from Ms Webster, nor
12 Mr Coombs, I think, have we, on this topic?

13 MS WEBSTER: Okay, so I have thought about this from the
14 context of whether merchants would have treated MSCs as
15 a variable cost in their price setting or as a fixed
16 cost from the perspective of price setting, and then can
17 make some comments about appropriate proxies in either
18 case.

19 When I say how they treated them from the
20 perspective of price setting, it is really from the
21 perspective of do they affect the profit level -- profit
22 maximising level of prices? So that is the frame that
23 I am using.

24 If it is the case that the merchants treated the MSC
25 as a variable cost for price setting, then my position

1 is very similar to Mr Holt's in terms of the factors
2 that matter for the selection of a relevant proxy.
3 I suspect that most variable costs can be used as
4 a relevant proxy, COGS, for example, so long as it is
5 a permanent -- what we are measuring is the effect on
6 prices of a permanent change in the cost, and also
7 I would want that cost change to be industry-wide.

8 I would add one thing to the criteria that Mr Holt
9 set out, which is I think it would be important that the
10 cost that is used as a proxy is sufficiently big such
11 that a change in that cost -- the effect that that would
12 then have on prices can actually be measured
13 econometrically, and I do not think that is an issue of
14 taking the measurement of the pass-on of a big cost in
15 its variable cost world and then applying it to the MSC,
16 because economic theory would tell me that I would
17 expect a small variable cost change to be passed on in
18 just the same way as I would for a larger variable cost
19 change.

20 So that is in the sort of world where the merchant
21 treats the MSC as a variable cost.

22 If, alternatively, we are in a world where the
23 merchant does not treat the MSC as a variable cost, and,
24 you know, that could be just because it does not
25 fine-tune its pricing to such a degree that would pick

1 up changes in what is a small cost, but assuming we are
2 in that world, then ideally what one would want to do
3 from a proxy cost point of view is find a fixed cost
4 which is of a similar size to the MSC and measure the
5 pass-on of that. That is because in this world where
6 the MSC is being treated as a fixed cost, size matters
7 to the extent of pass-on, and that is because --

8 PROFESSOR WATERSON: So this is a big difference between
9 fixed and variable, you say?

10 MS WEBSTER: Exactly so. The reason that size matters for
11 the pass-on of a fixed cost is because the mechanism by
12 which a fixed cost is passed on is very different to the
13 variable cost world. So it does not affect, at the
14 margin, where am I going to set my profit-maximising
15 price? Because that decision at the margin is
16 a trade-off between additional margin earned on any
17 sales I retain, margin lost on any sales I lose. But
18 where that margin is calculated with reference to the
19 costs that I no longer incur relative to the price,
20 costs I no longer incur will be probably COGS, might be
21 some labour, if I have put up my prices and sales have
22 contracted so I do not need quite so many staff on the
23 floor, but they will not be the fixed costs associated
24 with running the premises. That is my assumption.

25 So that is why what then happens is if you then had

1 a change in those fixed costs, I do not know, the rent
2 of the premises, then it does not change -- it does not
3 feature into this profit-maximising trade-off
4 calculation. It tells me that I make a little bit less
5 money as the store operator. Now, if the rent went up
6 by so much that actually it became no longer profitable
7 for me to operate, then it could be the case that the
8 rent increase causes me to go out of business.

9 PROFESSOR WATERSON: Or shrink the chain.

10 MS WEBSTER: Or shrink the chain, exactly. Then what
11 happens is there is a bit less competition and prices
12 drift up and everyone that has stayed the market is able
13 to cover their costs, but it is through that mechanism
14 that changes in fixed costs feed through ultimately to
15 the retail prices through influencing those
16 investment -- well, either exit decisions or contraction
17 decisions or investment.

18 My view is that if you have a cost which is as small
19 as the MSC, and then you are thinking about changes in
20 a cost that would again be very small, my view is it is
21 really unlikely that that would then have the effect of
22 triggering these different investment decisions, so
23 either bringing forward investment decisions or causing
24 exit or contraction. So, therefore, my view is that the
25 size of the MSC makes that pass-on unlikely.

1 If you were talking about a big fixed cost and that
2 change, then, yes, it may well change the investment
3 decisions. So size really matters when it comes to
4 fixed cost pass-on.

5 So in the ideal, coming back to choice of proxy,
6 I would ideally want to measure the pass-on of a small
7 fixed cost as a best proxy for pass-on of MSC were it to
8 be treated as a fixed cost. But this is a bit
9 hypothetical, because we just had a discussion that
10 actually you cannot measure the pass-on of a price that
11 is --

12 PROFESSOR WATERSON: Mr Harman's point.

13 MS WEBSTER: -- and actually, you know, as I have set out in
14 my evidence, I think it is quite difficult also to
15 measure even the pass-on of a fixed cost that is larger
16 than the MSC. So I think in some ways it is a bit of
17 a moot point.

18 So, therefore, given that set-up, I think it is
19 critical really that we find a proxy which is either
20 fixed or variable, and then that proxy sort of follows
21 the factual evidence as to how merchants treated the MSC
22 in practice. If they treated it as variable, let us use
23 something like COGS pass-on. If they treated it as
24 fixed, then my presumption is that -- or, sorry, my
25 expectation based on theory is that pass-on will be low,

1 and then query whether that can actually be measured by
2 an econometric analysis of a proxy.

3 PROFESSOR WATERSON: Thank you.

4 Mr Coombs, I think you have not commented on this
5 issue.

6 MR COOMBS: Yes. I think I agree with many of the things
7 that Mr Holt said before lunch and, in particular,
8 I think there are two aspects which he highlighted which
9 are very important here.

10 So the first is that we are looking at the long run,
11 so in the case of Mr Merricks' claim, we are looking at
12 a claim period of nearly two decades. So what we are
13 interested in is what happened over the long run.

14 Secondly, what we are looking at is a cost that has
15 been persistent throughout that period with little
16 variation. So the issue here, the counterfactual
17 question is what would have been the situation if there
18 had been no MIF, and the MIF has been a persistent cost
19 with little variation throughout the period that we are
20 concerned with. So we are concerned with the long run
21 and we are concerned with the cost that has been
22 persistent with little variation.

23 Now, broadly speaking, there seem to be two
24 approaches which people are discussing here. One is an
25 approach based on economic theory, and another is an

1 approach based on looking at the evidence provided by
2 some of the Claimants.

3 So in terms of economic theory, it seems to me
4 fairly obvious that the MSC is a variable cost. It is
5 a cost that --

6 PROFESSOR WATERSON: I think you are pointing the wrong way
7 there, but anyway.

8 MR COOMBS: Anyway, I will stop pointing. The MSC is
9 a variable cost. It is a cost that varies with output,
10 it is not a fixed cost. It therefore seems to me
11 quite -- to be honest, quite confusing if we start using
12 economic theory to analyse how fixed costs are passed on
13 and then using that to inform how we examine the proxy
14 in this case, because then we start to examine the
15 pass-on of a cost which is very different from the MSC
16 and the mechanisms and the dynamics will be very
17 different.

18 So, personally, I think it is a bit dangerous and a
19 bit confusing to go down that route. So if we are
20 looking at this from a perspective of economic theory,
21 I think it is very clear that the MSC is a variable cost
22 and we should be looking at a proxy in those terms.

23 Then we turn to the evidence provided by the
24 Claimants. So as a general principle, obviously it is
25 important that this economic analysis is grounded in the

1 factual evidence. So we should always be looking at the
2 factual evidence in order to inform how we design our
3 analysis and how we conduct our analysis.

4 Having said which, some factual evidence can be more
5 helpful than other factual evidence, and my view is that
6 the factual evidence in this case is not very helpful.

7 So, first of all, the factual evidence that we have
8 is drawn from a small number of claimants. They have
9 not been selected through a robust -- a statistically
10 robust survey of all of the merchants in the UK who
11 would be relevant to Mr Merricks' claim. So the
12 evidence in that sense is rather anecdotal.

13 Secondly, when we actually look at the evidence that
14 has been provided, it can be difficult to interpret and,
15 you know, we see that in that Mr Economides and
16 Mr Harman, looking at the same evidence, seem to have
17 not reached the same conclusions on all aspects of that
18 evidence.

19 So the evidence is not clear-cut and, you know,
20 maybe this has all been resolved over the past few days
21 by cross-examination, but certainly from reading the
22 expert reports there seems to be ambiguity in the
23 evidence.

24 There is also then a more fundamental point, which
25 comes back to where I started off, saying what we are

1 looking at is the long run. The evidence -- the factual
2 evidence, as far as I can see, is mostly talking about
3 what happens in the short run, it is people talking
4 about how they react in the short run to changes in
5 costs, and so that is not necessarily informative about
6 what we are concerned about here which is the long run
7 pass-on of these costs.

8 So for that reason, I have not placed really any
9 weight on the factual evidence. I have approached it
10 from the perspective that the MSC is clearly a variable
11 cost and that is the most appropriate way to select
12 a proxy.

13 The last thing perhaps I want to comment is this
14 question about the size of the cost, and I think
15 Ms Webster made an important point here, which is that
16 there is a certain circularity here, because we are
17 looking for a proxy, because we have said that a cost
18 that is the size of the MSC, it would not possible to
19 isolate the pass-on of that cost because it is too
20 small. So obviously if you choose a proxy which is
21 equivalent in size, you are likely to end up with the
22 same problem.

23 So, as Ms Webster, I think, said, it is in some ways
24 moot. But I think also, as a matter of principle, I do
25 not think we need to be concerned about the size of the

1 cost in that sense. Again, this comes back to the fact
2 that we are looking at the long run.

3 So I would agree that a small cost in the short run
4 might not be passed on, because a firm will face
5 transactions costs, such as menu costs, that will
6 inhibit its ability to pass on a small cost, but over
7 the longer run period you would expect that cost to be
8 passed on. It becomes part of that cost stack, and that
9 cost stack will ultimately influence the price level of
10 the firm.

11 So I think that size is important when you are
12 focused on the short run. I would argue that it is less
13 important, it is in fact of no importance, when we are
14 examining long-run pass-on, as is the question in this
15 case.

16 PROFESSOR WATERSON: Thank you.

17 Does anyone want to come back on any of those
18 points? This is obviously an issue of contention
19 amongst you.

20 MR HOLT: I would not mind, in part because some comments
21 have been made in relation to assumptions or analysis
22 I carried out, and also I think I sort of set out really
23 what were the criteria, and perhaps others have expanded
24 on the criteria and started to talk about the evidence
25 a little bit as well. So I think I have a couple of

1 further observations I think that I would like to make.

2 So I guess, starting with Dr Trento, I think he made
3 a couple of points that I would not necessarily agree
4 with in relation to whether the treatment of COGS and
5 overhead by firms is consistent with economic theory.
6 I would not agree with that, to the extent that is
7 really what he was indicating, because, as I think some
8 of the other experts have identified, overheads are not
9 uniform in terms of their nature and composition, they
10 are indeed, as Mr Economides was explaining,
11 a combination of fixed, semi-fixed and variable.

12 Now, what that means, I think, is that there are
13 some important distinctions potentially to be drawn as
14 to the nature of the costs, even within the overhead
15 component, and it is not necessarily accurate as
16 a result to assume that there would be common treatment
17 of all overhead costs, irrespective of their underlying
18 nature.

19 In addition to the variable, fixed or semi-fixed
20 dimension, I would add the firm-specific and
21 industry-wide dimension as another important factor.
22 Maybe just to illustrate: I think, even from the
23 claimant evidence, there seems to be some indication
24 that they do on occasions take into account different
25 overheads in a different way and that can be informed by

1 a number of considerations.

2 So one example, and, again, I think, given we are in
3 open session, perhaps I will not name the individual
4 claimant, but one of the Claimants takes into account
5 labour costs in how it thinks about pricing and, yet, my
6 understanding is that that is not because they are
7 characterised as COGS, they are characterised as
8 overheads, but they recognise that those have an
9 important, in their business, potentially at least,
10 variable or semi-variable impact.

11 One of the other claimants, again I will not name
12 them, took into account, if I understand correctly,
13 issues such as customer retention, acquisition and
14 retention costs, because at least some proportion of
15 those might be variable and relate to each customer that
16 you have to pick up entails an amount of administration,
17 promotion or whatever it might be. There are some
18 actual variable costs there.

19 Now, again, my understanding was not that that was
20 something that was picked up directly in COGS, but was
21 an overhead calculation but which nevertheless had some
22 economic fundamentals that were important to their
23 business decisions.

24 I think -- I mean, obviously those are just two
25 illustrations. I think, therefore, it is not really

1 something that I would be capable of stating as
2 a general proposition, that all firms treat all overhead
3 costs the same, and I think, as Mr Coombs just
4 identified, it is actually quite difficult, based on
5 what has been disclosed in these proceedings, to reach
6 any clear-cut views in that regard, but there does seem
7 to be some quite important economic distinctions between
8 the nature of the costs as a variable or fixed cost and
9 industry-wide or otherwise.

10 I think the other issue is that when thinking about
11 overheads and the extent to which that is an appropriate
12 proxy, and obviously there are a number of practical
13 considerations that I have addressed in some detail, and
14 I will sort of park those, because I think those will
15 come up when we get into the different sort of evidence
16 sources and how we can use that evidence. But just from
17 a conceptual standpoint, I agree with Mr Economides
18 that, again, not all overheads are the same. Some might
19 be fixed, some might be variable, some might be
20 firm-specific, some might be industry-wide.

21 But from the perspective of a general choice, as
22 between COGS as a proxy and overheads as a proxy, the
23 real question here is: which is better for the MSCs?
24 I do not think I was suggesting -- if I gave the
25 indication that I was suggesting this, I certainly did

1 not intend to -- I was not suggesting that all overheads
2 are fixed and all COGS are variable, ie some sort of
3 binary distinction that can be completely dramatically
4 distinguished in that way. But it does seem clear to me
5 that the overhead categories of costs are predominantly
6 fixed or semi-fixed, and that the COGS category of costs
7 are predominantly variable or at least to a large
8 extent.

9 So I think when one sort of recognises that it is
10 not perhaps a binary issue, and then one moves to the
11 more important question of which is the better proxy,
12 I think it is still quite clear that the COGS shares the
13 characteristics to a greater extent.

14 I think the same point which I have just made, about
15 which is the better proxy in relation to the
16 variable/fixed component, could equally be made in
17 relation to the industry-specific -- sorry, the
18 firm-specific or industry-wide component.

19 Again, I would accept that MSCs have an important
20 element of commonality, and yet also there is a degree
21 to which some of the MSCs will depend on the particular
22 card transaction and payment component mix, but,
23 equally, for COGS I would expect there to be a range of
24 factors of a similar nature, such as which supplier did
25 you buy from, how strong is your bargaining position,

1 what type of products are you buying mainly, own brand
2 or third party brands? You know, one could go on.
3 There will be a number of rather more firm-specific
4 components, even to the COGS aspect.

5 So I think, again, when one thinks not in binary
6 terms but more about the relevant question as to which
7 is the better proxy, I think COGS has a number of
8 important advantages.

9 THE CHAIRMAN: Can I just ask: do you say that it is not
10 relevant to look at the particular firm and see the way
11 that MSCs were treated?

12 MR HOLT: So the way I have dealt with that is to recognise
13 that in the shorter term that could have an impact, in
14 the sense that if it is the case that it is not in the
15 direct pricing strategy, then I could see that
16 potentially that would have a short-run impact on
17 exactly what costs they are taking into account when
18 they decide on a price change.

19 But my view is that that is not a relevant
20 consideration for the longer term pass-on, which I think
21 is the relevant timeframe here, and I think that is
22 essentially for two reasons. First, again, as I think
23 I mentioned at the outset, I do not think it is credible
24 to say that firms will be in a persistent out-of-optimal
25 situation over the longer term, and so if their

1 incentives are pointing in a direction, I fully accept
2 that people do not micromanage and adopt
3 profit-maximising principles to -- you know, on
4 a second-by-second basis, and are always, you know,
5 applying precise models in that way, but I am
6 considering that it would be unlikely that firms would
7 persistently deviate from what their incentives are
8 telling them.

9 So that is essentially the first reason.

10 The second reason is the treatment point, I think,
11 is very difficult to come to a definitive conclusion as
12 to what might have happened in the but-for world.
13 I accept that the Claimants will have a way of
14 describing their pricing strategy, but obviously what we
15 have not had is a disclosure of all the possible
16 considerations of all the costs that have changed over
17 the claim period and all the ways in which those were
18 taken into account. I would have expected that, even if
19 there is a general pricing strategy, that there might
20 well be a degree of interpretation as to exactly how do
21 you implement that in any given circumstance, and it
22 might change over time, it might change depending on,
23 you know, who -- you know, different parts of the
24 business, different managers. There will be a huge
25 amount of complexity underpinning exactly how firms deal

1 with these very complex decisions over a period of time.

2 So I think the more relevant consideration -- again,
3 focusing on the longer term -- is to think about, well,
4 is it sustainable that a whole sector of firms facing
5 a variable and industry-wide cost would all be deviating
6 from the profit-maximising position in the longer term,
7 and I do not think that is a credible position.

8 PROFESSOR WATERSON: Thank you.

9 So if I could perhaps attempt a very broad summary
10 of this discussion, which has been very useful, I think,
11 it would be that there is actually no perfect category
12 of cost which would be ideal for all firms in all
13 periods, and that actually the distinction between fixed
14 costs and variable costs is rather more nuanced than one
15 might think; is that fair?

16 I see some nods. I will take that as agreement.

17 MR COOMBS: I think if I could just add to that. So the
18 approach I have taken is to effectively -- I do not -- I
19 am not sure if it cuts through that, but to look at
20 total costs on the basis that in the long run you would
21 expect all costs to be variable, and therefore, by
22 looking at total costs, you are sort of cutting through
23 this analysis, this issue, to some extent, and, you
24 know, again that is consistent with the fact that what
25 I am trying to do is identify the long run pass-on rate.

1 PROFESSOR WATERSON: Thank you. I think that raises another
2 issue which we will come back to, perhaps, but maybe not
3 today.

4 MR ECONOMIDES: Can I just add one point on the pricing of
5 businesses, and I will not refer to claimants to reveal
6 any confidential information. But when businesses set
7 their prices, they do not have perfect information.
8 I am stating the obvious here. The charts that you were
9 at earlier, than I can barely understand, are not charts
10 that they have in front of them where they can
11 understand the industry marginal cost line and make
12 decisions on the basis of this.

13 So they have to work on the basis of assumptions.
14 They look at their COGS, typically, and they make an
15 assumption that this is what others -- what it costs
16 others to produce this service or product, and then they
17 look at their overheads and they largely consider them
18 as firm-specific, they consider them as necessary costs
19 to do business that they need to manage.

20 So, therefore, they make this price-setting exercise
21 as best as they can by looking at primarily the gross
22 margin, I would argue, based on my experience, looking
23 at COGS and looking at price elasticities. If they are
24 more sophisticated, some do not even have that
25 information, and they set the price.

1 Now, that goes away and goes to a higher level of
2 management; and to respond to Mr Harman, who explained
3 that sometimes it comes back, and the price-setters are
4 told: that is not a good enough price, you need to
5 change it. That probably contradicts a lot of the
6 pricing rules that those businesses adhere to, because
7 they set the price at a level -- in the first place at a
8 level they felt appropriate, they felt reflected their
9 understanding of the supply curve in the industry, it
10 reflected their understanding of what competitors would
11 do, and unless there is a specific trigger that suggests
12 that that calculation was wrong, changing the price at
13 that point is probably the wrong thing to do if the
14 business wants to drive growth, wants to drive --
15 protect its volume and protect its market share.

16 So I think that is an important distinction. The
17 two margin levels, gross margin and EBITDA, they are not
18 just two different margin levels that different levels
19 of management look at, they are fundamentally used
20 differently in a business. Gross margin is primarily
21 used for price setting, and commercial cost of goods
22 sold, management questions who are going to be our key
23 suppliers, what should be the price in the market.

24 An overhead is used as a necessary cost of doing
25 business, the primary means to control that being cost

1 reduction.

2 PROFESSOR WATERSON: Thank you.

3 Anyone ...

4 THE CHAIRMAN: I think Ms Webster wanted to say something.

5 MS WEBSTER: Thank you.

6 Two points. One in response to Mr Coombs. I do not
7 think the focus on total cost as a proxy gets round the
8 issue. I do not agree with the position that all costs
9 become variable in the long term. I mean, I do in the
10 sense that in the long term you can get out of contracts
11 for premises and staff and you can close down, and costs
12 can be avoided. But from the perspective of
13 price-setting, which is very much over a sort of more
14 limited change in volumes, then I do not think that all
15 costs are variable in that sense.

16 The second point I wanted to make was to respond to
17 Mr Holt's points of a moment ago. Speaking as an
18 economist, I have a lot of sympathy with the way that
19 Mr Holt describes it, which is the MSC was a variable
20 cost, and if sales contracted for a business, then the
21 MSC costs will have contracted. In that sense, it is
22 right that -- sorry, I would expect as an economist for
23 that to be factored into price setting.

24 Now, I am also, I suppose, a realist, and recognise
25 that sort of economic principles of profit maximisation

1 do not necessarily get translated as such in business
2 situations. I think that is what I am seeking to give
3 recognition to. There may be some situations, even in
4 the long term, I would say, where if merchants are not
5 fine-tuning their pricing to the degree that you can
6 pick up a change in such a small cost, then it may be
7 the case, even in the long term, that the firms are not
8 necessarily responding to the profit-maximising
9 incentives as described by Mr Holt.

10 That may be entirely rational, because the sort of
11 business time that is needed to work out exactly how
12 they want to change prices and fine-tune to that extent,
13 there just may be costs associated with doing that which
14 cause them to stop short of seeking to pass on the MSC,
15 as they would a variable cost.

16 PROFESSOR WATERSON: Thank you.

17 I think we have probably run around that -- sorry,
18 Mr Coombs.

19 MR COOMBS: Sorry, can I just make one comment.

20 I think I would view things as completely opposite
21 to the way that Ms Webster has just put it. So the way
22 I would view it is in the short run, firms will not
23 necessarily, you know, optimise the situation. There
24 are various transactions costs, there is latency, and so
25 on, but you would expect over the long run that they

1 would move towards an equilibrium situation, and that
2 costs that may not be -- might not be factored into
3 decision-making in the short run will end up having an
4 influence in the long run, so I would personally
5 probably see it the other way round.

6 MR HARMAN: A very quick point. I think that Mr Economides
7 and myself will disagree on the importance of gross
8 margins and EBITDA margins, but it seems like at least
9 we agree that a firm will seek to mitigate a cost
10 increase. I say that some of that may go through in
11 prices. Mr Economides seemed to be implying that any
12 cost increase would be offset by other costs reductions,
13 in his last statement, which would then take me on to
14 the supplier pass-on point.

15 PROFESSOR WATERSON: Yes, which we are coming back to, but
16 not yet.

17 MR ECONOMIDES: One second. Supplier pass-on is one way of
18 managing costs, and it is actually the hardest one. If
19 only businesses could go around the suppliers, bidding
20 them for lower prices.

21 I can provide evidence for this and we can argue it
22 at the right time, but let me stop at: it is one of the
23 ways, rather than the only way.

24 PROFESSOR WATERSON: Good. Thank you.

25 So let us move on to a related topic, which is -- we

1 have talked about proxies, now let us talk about data
2 sources. So three sets of data sources have been
3 suggested. One is public data, one is -- another is
4 previous studies, and a third is data from the Claimants
5 directly. I wanted us to talk about these various
6 sources and their strengths and weaknesses.

7 So perhaps, since he has been relatively abstaining
8 from the back and forth just now, we will start with
9 Mr Trento.

10 MR TRENTO: Thank you. All right, so on my analysis I rely
11 mainly or almost exclusively on claimants' data. Let me
12 explain why that is the case.

13 I think we need to understand what the Claimants'
14 data is. So we receive data from a claimant, which is
15 maybe fashion retailer, and what is the dataset that we
16 have in front of us? We have information on every
17 single transaction that took place for the last
18 ten years. For some claimants these are shorter
19 periods, but on average for all claimants it is around
20 six years, every single transaction that has taken
21 place. On that single transaction we have information
22 on prices, we have information on COGS, we have
23 information on whether the price was reduced because
24 there was a seasonal sale, or it was reduced because it
25 was an end of stock sale.

1 We have information on the date of sale. In the
2 case of hotels, we have information on the type of room
3 that was booked, we have information on how many guests,
4 the number of the nights, the date of the staying, the
5 date of the booking, so we know how long it took, you
6 know, the difference between the booking date and the
7 date of stay, which is an important factor in assessing
8 prices. We also know the occupancy rate of the hotel at
9 the date of stay, and we also know the occupancy rate at
10 the date of booking, which is also an important factor
11 determining prices. Because if the hotel is setting
12 a price and nobody is booking, then the hotel will
13 realise that maybe they have set a price that is too
14 high and then they will try to, you know, reduce the
15 price, you know, to encourage bookings.

16 All these things are very -- so all this information
17 is very important for us to estimate pass-on. Why is
18 that the case? Because in the end, when we want to
19 estimate pass-on, what we want to do is we want to
20 explain prices, and we want to explain all of the -- you
21 know, how all of the factors that affect prices indeed
22 affect prices. One of these factors is costs, and that
23 is what we look at, it is the pass-on rate. But in
24 order to estimate the causal effect of costs on prices,
25 we need to know the effect of all of these other

1 factors, which are all very important in setting prices,
2 so that we can distinguish the effect of cost on prices
3 from the effect of other factors on prices.

4 The Claimants' data is a mine of gold for an
5 economist, because we are talking about, in many cases,
6 millions of transactions, millions of data points, and
7 that is a very valuable source of information for an
8 estimation of passing on.

9 Now, you compare that to public data. Public data
10 has not even close a similar level of granularity. What
11 public data is, there is an index, a price index, which
12 is the average price of a basket of goods that is
13 typically consumed by a UK household, and then you have
14 an average price of a basket of goods that are typically
15 produced by UK producers, and you only can look at how
16 the average price of this basket of goods evolves over
17 time, so you are missing all of the cross-section
18 variations, so all the variation in price and COGS
19 between transaction and transaction you have lost
20 completely with the public data.

21 Now, I probably should not go into the details now,
22 but in my second report, and hopefully I will have the
23 occasion to speak about this now, in my opinion, what
24 happens with the public data is that the level of
25 aggregation that it has, and the fact that there is no

1 matching between, you know, the different type of cost
2 and prices, the fact that when you estimate data with
3 publicly available -- sorry, when you estimate pass-on
4 with publicly available data, you do not have
5 information all of the costs that affect prices, you do
6 not have information on all of the factors that affect
7 prices. It means to me that the public data analysis
8 very likely to lead to a biased estimate.

9 So the reason why I am focusing on claimants' data
10 is mainly that I think that the Claimants' data is more
11 reliable for an estimation of pass-on than the public
12 data.

13 PROFESSOR WATERSON: Thank you. That is very clear.

14 Who wants to speak up, on the other hand, for public
15 data?

16 MR COOMBS: Since I am sat next, I will.

17 First of all, maybe it is important to recognise
18 that Dr Trento and I have been instructed to assess
19 slightly different questions. So Dr Trento has been
20 instructed to assess pass-on in the merchant claims.
21 I have been instructed to assess pass-on for
22 Mr Merricks' claim.

23 An important point about Mr Merricks' claim is
24 Mr Merricks' claim is not about individual merchants, it
25 is about all consumers across the economy as a whole

1 over a period of nearly two decades.

2 So the question that I have to address is how do I
3 assess pass-on across the economy as a whole over
4 a period of nearly two decades? I believe the best way
5 to assess that is by using the public data. The reason
6 for that is, in comparison with the merchant data,
7 firstly, the public data is sector-wide. So I have --
8 so just to clarify with that, I have divided the economy
9 up into 12 sectors, and this was something that we
10 discussed at the hearing in January, and we can discuss
11 it again if it would be helpful. But I have divided the
12 economy up into 12 sectors, estimated the pass-on rate
13 for each sector, and then used data on the volume of
14 transactions in each of those sectors to produce
15 a weighted average pass-on rate across the economy as
16 a whole.

17 Now, I have used, or I prioritised using public
18 data, because where public data available, it covers the
19 whole sector or subsector that I am concerned with,
20 rather than one individual merchant within that sector,
21 and also covers a long time period. So in many of the
22 sectors that I am looking at, it covers a period
23 starting in 1996, which is quite close to the start of
24 Mr Merricks' claim which is 1992. In contrast, the
25 merchant data is very recent. It is for recent years.

1 So for that reason I prioritised using the public data,
2 because I feel it is a better way to estimate pass-on
3 that is relevant to Mr Merricks' claim period.

4 Now, having said that, in practice, when I have
5 looked at each of these sectors, there are some sectors
6 where public data just simply is not available at all.
7 There are some sectors where public data is available
8 but I have decided it would not produce a reliable
9 estimate, reflecting actually some of the concerns that
10 Dr Trento has identified. In some cases, the cost data
11 just would not be available to use. In particular,
12 there are some sectors where imports are clearly very
13 important, but the data on imports is only available for
14 more recent years.

15 So there are some sectors where it either was not
16 possible, or, in my opinion, was not appropriate to use
17 public data, because it would not have produced
18 a reliable estimate, and so in those cases I have used
19 the merchant data, recognising that then creates two
20 issues. One is the question about whether data from
21 that individual merchant is representative of the
22 sector, so I have had to spend some time looking at that
23 in order to assess whether that was the case. Secondly,
24 whether it is going to be representative of Mr Merricks'
25 claim period, and I have also spent some time looking at

1 that to assess whether I can use a pass-on rate based on
2 recent merchant data to estimate pass-on during
3 Mr Merricks' claim period.

4 So those are the reasons why I have prioritised the
5 public data over the merchant data, but have used the
6 merchant data where I felt it was the most -- it was
7 either the only available evidence or was the more
8 appropriate evidence to use.

9 So that is two of your three sources of evidence,
10 Professor Waterson.

11 PROFESSOR WATERSON: Okay --

12 MR COOMBS: The third that you mentioned is previous
13 studies.

14 PROFESSOR WATERSON: Sorry, carry on.

15 MR COOMBS: So for the previous studies, I have looked at
16 information from the previous studies. I think it is
17 very useful in terms of providing background. So it
18 provides background and context. It also is a useful
19 cross-check. Obviously the limitation of the previous
20 studies is that they often do not relate to the UK, and
21 sometimes they relate to periods which are not the same
22 as Mr Merricks' claim period. Some of them they just
23 seem completely irrelevant.

24 So some studies I completely ignored, because
25 I thought they were not really informative. Some of

1 them I thought they were informative, so I have looked
2 at them, and I have used the estimates as background in
3 the cross-check, but what I have not done is I have not
4 used the previous studies to actually produce an
5 estimate for any sector. I have not used them as part
6 of my calculation.

7 PROFESSOR WATERSON: Thank you.

8 Ms Webster.

9 MS WEBSTER: Yes, just to follow up and comment on those
10 three sources of evidence.

11 In principle, my preference is for merchant data,
12 partly for the reasons that Dr Trento describes.
13 I think sort of all else equal, it is possible with that
14 more granular data to get more reliable results of cost
15 pass-on, and that is partly because, unlike the public
16 data, you have costs and price information from the same
17 business, and so they are clearly more closely related
18 than they are for the public data.

19 I think working with the businesses themselves, it
20 is possible to get more insight into the features of the
21 business that then need to be taken into account in how
22 the modelling is constructed, so, for example, knowing
23 what types of events to control for where they may be
24 having an effect on prices, and that helps to then
25 isolate the impact that cost changes are having on

1 prices.

2 I think also another benefit is that it is, in
3 theory, possible to undertake an analysis of cost
4 pass-on for cost types other than the main variable
5 costs. So, again, if we think about public data, what
6 is available there in these PPI indices for costs is
7 really a measure of COGS, a proxy for the COGS that
8 might be associated with merchants in the sectors where
9 we are looking at price changes.

10 In practice, I think, in these proceedings, having
11 worked with the data that we have from the Merchant
12 Claimants, my feeling is that actually, despite
13 Dr Trento's characterisation of sort of having lots of
14 data, it is actually quite difficult, working with that
15 data, to get particularly reliable results, and
16 I suspect we will come on to that in your next area of
17 questioning so I will not say more than that for now.

18 But, therefore, in my view, in these proceedings,
19 while I would in principle prefer merchant data, I think
20 actually they are now just sort of one of three sources
21 of information of cost pass-on.

22 When it comes to public data, I do agree also with
23 Mr Coombs, I think. If one is trying to measure pass-on
24 for a sector, at a sector level, then public data is in
25 theory a better mechanism for doing that. I think in

1 practice it comes down to -- the question is whether one
2 can get a reliable estimate, given some of the issues
3 that Dr Trento described.

4 So for me, there are three drawbacks of using --
5 sorry, issues with working with the public data that
6 mean that the results that come out of analysis of
7 public data may not be reliable. Those are the ones of
8 trying to find a match between a price indices and
9 a cost indices when they relate to these separate
10 baskets of goods. There is then a question about
11 identifying appropriate controls for events that may
12 have influenced prices, which should not be attributed
13 to the costs and need to be controlled for to get -- to
14 isolate the impact that cost changes have on prices.
15 I think, particularly because there is a long period of
16 time covered by the public data, you know, there are
17 a lot of things that potentially could have occurred
18 over that period that one would ideally control for that
19 it is difficult to control for.

20 Then the third relates to this issue about having
21 two separate indices, one of prices and one of costs.
22 One does not know what proportion the costs measure
23 accounts for in the pricing measure, and when one does
24 the econometrics one gets an elasticity, a pass-on
25 elasticity, so understanding the effect that

1 a percentage change of costs has on a percentage change
2 of price, but actually that does not tell you what the
3 absolute level of cost pass-on was. So if costs change
4 by 100, what proportion of that 100 is passed on to
5 prices?

6 To make a -- to make -- to translate the
7 elasticities into that measure, one needs to know the
8 price-cost ratio, and that is not available for public
9 data, so you have to make assumptions importing data
10 from other situations to be able to say: well, this
11 price-cost ratio could be X, but it is not known whether
12 X is appropriate given the data that we have.

13 So the long -- the point of that is there is an
14 uncertainty that is introduced in making that
15 conversion, and that again is a drawback, I suppose, of
16 using the public data.

17 On the previous studies, I think I am in a similar
18 position to Mr Coombs, which is I see these as allowing
19 one to draw broad inferences for the likely level of
20 pass-on of variable costs. There are many sectors where
21 there are either no studies available at all or there
22 are very few papers. What I found interesting in my
23 analysis of those papers is the more papers you have,
24 the broader the range of estimates that you have, so it
25 is really a worry when you only have one, two, three

1 papers. The pass-on estimates that you get for a sector
2 based on those papers is just a function of the papers
3 that you have, and it is hard, I think, to draw
4 anything -- to pinpoint an estimate and say, okay, the
5 studies tell me that pass-on in this sector is likely to
6 be X.

7 PROFESSOR WATERSON: Thank you. Of course, academics have
8 the luxury, if you like, of being able to choose their
9 questions in a way that is not quite open to you
10 economists here.

11 MS WEBSTER: Yes.

12 PROFESSOR WATERSON: Mr Holt.

13 MR HOLT: Thank you. So I have three sort over overarching
14 points, and then I will try and address the question as
15 to what the pros and cons are, and I agree actually with
16 some of what the other experts have already said, so
17 I will try and be quick when I am sort of in agreement.

18 So I think the first point is that in my view all
19 three of the evidence sources have advantages and
20 disadvantages. In my view, none dominates the other,
21 nor is one entirely inferior to the other.

22 Second, I accept that for all three types of broad
23 sources of evidence, there might be issues around
24 reliability that need to be taken into account by the
25 experts. Some sort of judgment and filtering clearly

1 needs to go into that assessment in order to assess how
2 much weight to be put on some of those findings, and, in
3 my view, one can identify obviously different sort of
4 particular thresholds as to, well, what is an
5 informative study and what is not.

6 But overall, the interesting thing is that I do not
7 think -- and, again, on the assumption for this part of
8 the discussion that we are interested in variable
9 industry-wide costs, because I accept that, for the most
10 part at least, the public data and the existing studies
11 primarily focus on that, but I will make a brief remark
12 about that in a moment.

13 To the extent that they are mainly focused on that
14 type of study, it is, I think, interesting that the
15 results are broadly similar from all three of the
16 general broad sources of evidence. So whereas my view
17 is that there are some important advantages to taking
18 into account all three sources of evidence, to the
19 extent that actually what I just said holds true, you
20 might argue that it actually does not matter all that
21 much because of the broad consistency in results. I do
22 accept that by "broad consistency", that is not to say
23 that all the results are exactly the same or there is
24 no, you know, ranges around those, but broadly they tend
25 to indicate high pass-on from any of the sectors.

1 I think the third point I would make is that none of
2 the three evidence sources offers complete coverage of
3 the sectors that the experts are asked to address.

4 I appreciate that actually probably it is the case that
5 almost every expert has been instructed to focus on
6 something somewhat different which relates to, you know,
7 the nature of their party's involvement in the
8 proceedings, but at the same time my understanding is
9 that for the umbrella proceedings we are trying to
10 identify sectoral level estimates that apply essentially
11 in all the potentially relevant sectors that merchant
12 claims could relate to, not just SSH, also stayed claims
13 and, you know, other claims. So I think it is quite
14 important, therefore, that none of the three sources of
15 evidence really offer that coverage.

16 I think you then -- and just to put some numbers on
17 that. So I have looked at 18 sector/subsector
18 combinations.

19 PROFESSOR WATERSON: Your sectors are a bit different from

20 Mr --

21 MR HOLT: (Overspeaking) That is entirely true. In fact,
22 I think it is fair to say that all four of the experts
23 who have tried to adopt a sectorisation approach have
24 got something a little bit different.

25 My overall view on that, since it is brought up, is

1 it is probably not as big a problem as it might first
2 appear, because a matching process, I think, can be
3 carried out, to the extent that that would be required
4 in order to reach some degree of, you know, agreement as
5 to, you know, which claims fit within which sectors, and
6 I think I have already tried to do some matching at the
7 standard industrial classification code, for instance,
8 to the extent that that would be helpful.

9 But basically the public data covers, I think, 13 of
10 those 18. The existing studies or previous studies
11 covers also 13, albeit not quite the same 13, and the
12 claimant data only covers eight. So, in my view, a
13 triangulation, essentially looking at the relevant
14 evidence across all three sources, is beneficial in two
15 ways. One, it assists with coverage and, two, it
16 provides independent and different sources of evidence
17 which, particularly in the context, as it appears has
18 been the case in these proceedings, if the evidence is
19 complementary and broadly pointing in a similar
20 direction, then that leads me to have greater
21 confidence.

22 But I do accept that each of the approaches has some
23 disadvantages, so let me just quickly go through those.

24 So existing studies. I think probably the most
25 important advantage of that is they are specifically

1 focused on understanding the impact of a change in the
2 price of an input. It is a natural experiment of
3 a change in VAT. It is an actual increase in the price
4 of energy emissions. It is the actual change in an
5 interest rate. These are all price changes.

6 Now, that is much more important for the
7 understanding of cost pass-on than some aggregated
8 information about how overhead expenditure might have
9 evolved for all sorts of different possible reasons,
10 most of which, I might add, are not relevant to the
11 concept of pass-on in the first place.

12 So that is a really important advantage.

13 I have already mentioned that I think the existing
14 studies add a lot of potential coverage and
15 complementarity to the evidence base, and I think it is
16 also the case that, while one can quibble with the
17 quality of design or the quality of data, as long as the
18 economist is (a) identifying, you know, a peer-reviewed
19 journal, sort of triaging to ensure that some of that
20 quality has been taken into account, and furthermore
21 adopting, to the extent judgment is required, to assess
22 reliability and relevance, which I have done in Holt 11,
23 and then furthermore tried to expand based on some of
24 the further studies that Ms Webster and Mr Coombs have
25 identified, then I think you can sort of address some of

1 those concerns that others have identified.

2 Now, there are some limitations. Mr Coombs
3 mentioned the point that they are not all -- that only a
4 minority are for the UK and for the claim periods of
5 relevance in the proceedings. I accept that. I would
6 have preferred to use UK studies as well. My view on
7 this is that just because it is not from the UK, as long
8 as it is from a country with, you know, a broadly
9 similar economic structure, then it can be informative,
10 albeit I would accept that it adds some noise to the
11 overall question.

12 I have looked at whether geography has an important
13 impact, and it does not seem to be the case that the UK
14 ones are systematically lower, such that relying on
15 non-UK ones would give a risk of upward bias. If
16 anything, it is the other way round. I also accept the
17 point about timing. Some of the studies date back some
18 decades. Again, that adds noise, I accept that. But,
19 again, I have looked at whether there is any likelihood
20 of a systematic bias that is arising from that and
21 I cannot see it. The studies over time seem to broadly
22 fit the same pattern of 60 to 100%.

23 So that is existing studies.

24 Public data, I think a lot of comments have already
25 been made. I would add that the data is available from

1 reputable organisations, such as the ONS and government
2 departments. I agree that it is particularly suitable
3 for the question of an industry-wide and sectoral
4 analysis, because that is what the indices are actually
5 trying to cover. They are designed to be statistically
6 representative of the subsectors that they represent,
7 and also, because of the way in which they are designed,
8 to focus only on price changes, not mix changes, the
9 idea that there is some sort of aggregation concern is
10 wrong.

11 Also, there is a good coverage, there are a lot of
12 subsectors in this data, and I certainly appreciate,
13 coming on to the disadvantages, some of the points that
14 that have been made. So I agree the matching point: you
15 do have to, in this type of analysis, identify an
16 approach to figure out which output price indices are
17 a good match and which caused input or producer price
18 indices.

19 The different experts have taken somewhat different
20 approaches. I have taken an approach, which is to start
21 from what I am trying to find evidence for, which is my
22 subsector level analysis, find the best price indices
23 and try and match that to the best available cost
24 indices that relate to those. Others have started from
25 an admittedly higher threshold for the matching to get

1 more precise results. I accept that there is some
2 judgment as to exactly which of those two perhaps is the
3 more appropriate, but certainly the advantage of my
4 approach is that it allows for some additional coverage,
5 bearing in mind how limited the overall evidence base is
6 in these proceedings anyway.

7 I think, if anything, the impact of the price and
8 cost-matching question is one of attenuation bias; in
9 other words, if you do not have a perfect match, then
10 you have some variation in the costs which is not
11 directly relevant to the output price index, well, that
12 would tend to have a downward effect.

13 So although I agree that it is a relevant
14 consideration and would ideally want to have the best
15 possible matches, as long as you have reasonable
16 matches, in my view, in my judgment, I am willing to
17 live with a degree of imperfection here, particularly
18 because it is likely to lead to some conservatism in the
19 estimates.

20 THE CHAIRMAN: Mr Holt, we need to take a break at some
21 point. Are you coming to an end?

22 MR HOLT: Yes. Shall I just quickly move to the claimant
23 data, then, and I appreciate we will come to some of the
24 econometric challenges on the public data, and so I will
25 park that debate to save time for now.

1 So claimant data. I agree with some of the points
2 about the rich and granular dataset. The only comment
3 I would make there is that that is not the case for all
4 of them, that is the case for some of them. Many of
5 them do not have that, or, alternatively, have it but
6 for an insufficient time period, or have it for -- have
7 insufficient variation with which to properly carry out
8 analysis, so only nine -- in my view, only nine of the
9 13 are capable of reliable estimates using that data.

10 I agree that the price-cost information that
11 Ms Webster identified as an advantage is an advantage.
12 The public data I think does require some estimates on
13 price-cost ratios, albeit I think that that is, you
14 know, one of the things that adds some noise but not
15 necessarily a concern.

16 PROFESSOR WATERSON: We will come back to that.

17 MR HOLT: Sure. Okay, great.

18 So the disadvantage then on the claimant data is,
19 firstly, that it does not apply -- you cannot sort of
20 use it in all these cases for some of the reasons
21 I mentioned. It is more prone to issues such as mix
22 effects and aggregation effects than the public data or
23 indeed the existing studies, and those effects would
24 tend to lead to downward bias, in one case at least, if
25 you have a mismatch of the aggregation between the

1 prices and the costs. I accept that there is also
2 a possibility of mix effects going upward under certain
3 conditions as well. Let us park that for the
4 econometrics discussion, perhaps.

5 So, in summary, I think if you recognise that all of
6 them have advantages and disadvantages, the appropriate
7 approach is to place some weight on this evidence, and
8 then we have a debate about, well, how much weight to
9 put, and we can park that one as well.

10 PROFESSOR WATERSON: Thank you.

11 THE CHAIRMAN: Thank you, Mr Holt.

12 We will take a ten-minute break.

13 (3.29 pm)

14 (Short Break)

15 (3.40 pm)

16 PROFESSOR WATERSON: I thought I saw some of the lawyers
17 getting a bit sleepy in the earlier session, so
18 I thought we ... I am not looking anyone in particular,
19 but I thought we would go on to some econometric issues.

20 MR TRENTO: Sorry, Professor Waterson, I have a few points
21 that I would like to make in reply to some of the
22 experts' observations.

23 PROFESSOR WATERSON: Okay.

24 MR TRENTO: Thank you. The first point goes back to

25 Mr Coombs' point that we had different instructions and

1 so we have different objectives. I agree with this
2 point. So Mr Coombs, I think also Mr Holt and
3 Ms Webster, they have analysed the pass-on of the
4 overall UK economy, and I do not have that task. So,
5 for me, it is really the pass-on of the SSH Claimants.

6 Now, the way that I have done this is that I have
7 ranked the top ten sectors in terms of the size of the
8 claim, and this covers a large part, around 70%, of the
9 claim, and then I have analysed the pass-on for these
10 ten sectors.

11 Some of these sectors, the way I have defined the
12 sector is that I have defined the sectors very, very
13 narrowly because I could do that. I had the advantage
14 that I did not have to look at the whole of the UK
15 economy. The other experts had to define sectors which
16 are very broad, but I did not do that, I did something
17 different, and so for some of the sectors, for instance
18 video games, I have only one claimant in that sector
19 which is Sony, and therefore when the issue of
20 extrapolation comes, because one of the points that was
21 raised is that we ask: you can look at the pass-on of
22 one claimant, but that does not tell you much about the
23 pass-on of the whole sector.

24 Well, it is true in their case, but it is not really
25 true in my case, because in my case I have, for

1 instance, Sony that is only one claimant in one sector.
2 I have Holland & Barrett which is one of the two
3 claimants in that sector that I have defined for them,
4 and I have defined for them a sector that, you know,
5 does not exist in reality. I put it very narrowly,
6 which is health retail, and I did it very narrowly
7 exactly because I am addressing this issue.

8 There is another one which is travel agencies.
9 I have data for one claimant, but there are only three
10 claimants in that sector.

11 In the other sectors, some of the sectors, I have
12 more than 500 claimants, but I do not have, like the
13 other experts, I do not have an entertainment sector,
14 which is a collection of very, very different
15 subsectors, like, I do not know, video games or
16 restaurants or the Royal Opera House. I have hotels,
17 and then I use the data from Hilton for the whole
18 sector. I have restaurants, and then I use the data
19 from Wagamama to estimate the pass-on for that sector.

20 So that point, that point on can you extrapolate.
21 In my case, it is much easier than it is in the case of
22 the other experts, so that is something that I wanted to
23 clarify.

24 The other point I wanted to clarify is that one of
25 the reasons that I have mainly used claimants' data is

1 that if you look at public data, some of the public data
2 is not relevant to me, because if I do an estimate --
3 because under my approach the relevant proxy cost is the
4 overhead costs and it is not the COGS. COGS would give
5 you, you know, the wrong answer under my approach, and
6 if you do an estimation of the pass-on of PPIs, which is
7 Producer Price Index, on CPIs, which is Consumer Price
8 Index, but what is PPI? PPI is the wholesale price that
9 the retailers pay to the wholesalers and, under my
10 approach ... you know, that is COGS under my approach,
11 that is not very informative.

12 I think one could also do an estimation of the
13 pass-on of wages into CPI, but I think this will come
14 later. I have serious doubts as to the use of public
15 data.

16 Then on the economic literature, which I did not
17 discuss before, we are in a similar situation, because
18 a lot of the existing literature looks at the pass-on
19 of, for instance, wholesale prices into retail prices.
20 This is not relevant to me. Or they look at the pass-on
21 of excise duties into retail prices, but excise duties
22 are duties -- for instance, the excise duty on sugar or
23 alcohol or alcoholic beverages. This is something that
24 is paid by the manufacturer and then to the extent that
25 it is passed on, it goes into the wholesale price, and

1 then again you would be estimating the pass-on of
2 wholesale prices into retail price, and it is not very
3 relevant to me.

4 THE CHAIRMAN: Dr Trento, I think we need to probably move
5 on to the next topic.

6 MR TRENTO: Sorry.

7 THE CHAIRMAN: Do you have much more to say?

8 MR TRENTO: Only one thing, but -- yes.

9 THE CHAIRMAN: I think we have your point. Do not worry.
10 Thank you.

11 PROFESSOR WATERSON: So ...

12 MR COOMBS: I will be very quick. The first point to say is
13 I think we are all agreed there are imperfections in all
14 of the data sources. That is life. We have to work
15 with imperfect data. It is not a reason to ignore any
16 data source. I use all three to some extent, most of us
17 do, the issue is just which emphasis -- how much
18 emphasis do you place on each of them?

19 Ms Webster raised what she described as some issues
20 with the public data. If we are pressed for time,
21 I will not go into each of them. But I would say -- you
22 know, she chose her words carefully -- they are issues,
23 they are not problems. They are things that can easily
24 be dealt with, each of the three issues that she raised.

25 Lastly, the point that I forgot to make regarding

1 the merchant data, which I think is very important. The
2 merchant data, of course, is about the cost of
3 individual merchants, so it is about firm-specific
4 costs, and what we really should be capturing is
5 market-wide or sector-wide costs, because it is the
6 pass-on of those costs which are relevant in this case.

7 That is not to say that we therefore cannot use the
8 merchant data; I used the merchant data, but that is an
9 issue that needs to be borne in mind, because it means
10 that an estimate based on merchant data is likely to be
11 an underestimate of the pass-on rate, and that is just
12 something that has to be factored into the
13 interpretation of the results.

14 PROFESSOR WATERSON: Thank you.

15 MS WEBSTER: I will be very brief. Only to say that the
16 issues that I described with the public data, I mean,
17 they can be overcome to the extent that a regression can
18 be run and some results generated. I do not think that
19 they can be overcome in the sense that one can have
20 trust that the results that are generated are reliable.
21 I think one would -- the issues are such that there is
22 considerable uncertainty associated with those
23 estimates, and I think we can take -- that is a point no
24 doubt we will explore in further detail later.

25 PROFESSOR WATERSON: Thank you.

1 So, yes, roughly speaking, what people have chosen
2 to do, and this is very broad, is they have taken
3 something that I would call P , a price, if you like, and
4 something which is called C , a cost, defined in various
5 different ways, and they have regressed P on C . At
6 a very broad level, I think that is what everyone has
7 done.

8 So then the question is: well, do we do this in
9 a time series way or a panel data way? What is the
10 appropriate way of dealing with that? Maybe people
11 would give me their views on what would be ideal, maybe,
12 and then what would be -- what they have done, because
13 we are all agreed that the situation is less than ideal.

14 So I do not know who wants to start on that. Yes,
15 Ms Webster, you can start?

16 MS WEBSTER: Yes, I am happy to.

17 So perhaps a comment first on what I am most
18 interested in understanding. So from the perspective of
19 trying to understand the extent to which a change in
20 a cost then leads through to a change in the price of
21 a product, I am most interested in the variation in
22 costs and prices over time. So if it is available to
23 me, I think it is beneficial to use a panel data with
24 lots of products, the prices and costs of which vary
25 over time, and to explore the extent of that

1 relationship between cost and price at the product level
2 but analysed through the panel. Sometimes that is not
3 feasible, in which case I would prefer to -- I will do a
4 time series, and that is if, for example, I am looking
5 at exploring the relationship between costs and prices
6 at the level of an individual business.

7 I note that some of the other experts have, in
8 running a panel, also taken into account the variation
9 in costs and prices that exist across products, as well
10 as for an individual product over time. My view is that
11 variation in the relationship between costs and prices
12 that exists across products is -- I find it more
13 difficult to interpret that as pass-on. So for example,
14 take a cheap product, cost of 50, price of 60, a gap --
15 a margin of 10. I then might have, I do not know,
16 a branded product, which is more expensive, and it both
17 costs more, I do not know, 100, but then can be sold for
18 more, maybe 150, you have clearly got a situation there
19 where the higher cost product has got to very much more
20 a higher price, but that could be for any number of
21 reasons. It could be to do with the characteristics of
22 the products that are being sold which are explained by,
23 I do not know, if we then put a real product on this,
24 say it is a plain t-shirt versus a branded t-shirt, you
25 might expect there to be a difference in the margin that

1 is associated with the plain t-shirt versus the branded
2 t-shirt, but that difference between -- the relationship
3 between price and cost between the two products, is not
4 pass-on, it is just reflecting other characteristics of
5 the product, and I think that is -- the models that take
6 that variation across products into account is less
7 easily interpreted as pass-on.

8 PROFESSOR WATERSON: Thank you.

9 Yes, it reminds me actually -- this is a side
10 issue -- of a student of mine who did a very interesting
11 study of the difference between the prices of those
12 shirts with the little symbol on them, between the ones
13 that were fake and the ones which were real, and there
14 was quite a difference, although no one could tell in
15 someone wearing it whether it was fake or real.

16 Anyway.

17 MR HOLT: Shall I go next? I do not mind.

18 PROFESSOR WATERSON: Yes.

19 MR HOLT: I agree with, I think, almost all, and possibly
20 all, of what Ms Webster just said in relation to time
21 series and panel, but let me just expand on a couple of
22 points.

23 The most important thing is I agree what we are most
24 interested in here, and the reason we are most
25 interested in it is because of the counterfactual and

1 the impact that we are looking for, which is an analogy
2 to the change in MSCs, the price of an input cost, which
3 happens at a point in time, and then would persist.
4 Now, that means that the most important variation we are
5 looking for is a change in the price of an input.

6 One general remark on that is possible in the public
7 data, because the public data is indices which reflect
8 price and cost changes, and it is also possible in the
9 claimant data, at least insofar as -- at least part
10 of -- most of the claimant data has a disaggregated
11 product level pricing structure and associated cost of
12 essentially the COGS at the product level. So in that
13 case, what you have are unit prices and unit costs, and
14 therefore the variation is of the type that essentially
15 I think is relevant.

16 I agree also that the claimant data, when it is
17 disaggregated, has the attraction of that product level
18 granularity, and that means that you can adopt
19 a panel-based approach, and you can, furthermore,
20 through the use of product fixed effects, which strip
21 out the concern that Ms Webster rightly highlighted
22 that, well, you know, comparing an unbranded and
23 a branded product might show a lot of variation between
24 costs and prices that might over-interpret the pass-on,
25 but the data allows you, for the most part, to control

1 for that through product fixed effects, and that is
2 essentially what I have done, where possible.

3 What that then means is that the essential variation
4 that you are using in the model is the change in, in my
5 case, in the COGS of the products over time to see if
6 that is then filtering into any change in the prices.
7 So that is the right sort of variation.

8 Now, there is a couple -- there are a couple of
9 exceptions to the claimant data where I have not done
10 that approach. One is where the data just was not of
11 that format. Can I mention individual claimants here?
12 I do not think I am revealing anything confidential but
13 it might be helpful.

14 PROFESSOR WATERSON: I think Mr Trento has, so ...

15 MR HOLT: Yes, okay. We can blame him then!

16 No, I apologise.

17 So for Allianz, the data was not provided in
18 a disaggregated format, it was at a business line unit
19 level, and so that was essentially what you could do,
20 you could do a time series in that case. There is
21 a degree of a risk of a mix effect in that, but I do not
22 think it is necessarily a material one in that case and
23 it could go in any direction.

24 So that is Allianz. I did not do the full
25 disaggregated panel approach in that case because the

1 data was not there.

2 Hilton was another interesting case, and Dr Trento
3 has highlighted it. He mentioned how much disaggregated
4 pricing there is by room type, room date, you know,
5 a whole range of parameters, which I agree with his
6 factual description. The interesting thing, though, is
7 that that price data did not come accompanied with any
8 cost data, it was just the price side of things for
9 a short period of time for about three years.

10 Now, the cost data was in a different file, which
11 was over a much longer period of time, aggregated at a
12 monthly level and allowed by hotel. So there was some
13 disaggregation by hotel information for various types of
14 costs and for prices as an average room, and there is
15 also information on the average number of bookings, the
16 total number of bookings per month.

17 So there is a trade-off there, I accept. You could
18 either go down the disaggregated price information and
19 try and figure out a model that explains the more
20 precise disaggregated pricing, or you can essentially
21 accept that the cost information is at an aggregated
22 level and then essentially match that structure to the
23 price and then see what is happening.

24 PROFESSOR WATERSON: Aggregate up?

25 MR HOLT: Aggregate up, yes. Well, the information was

1 aggregated as it was.

2 Now, in my view, the far preferable approach is the
3 one I adopted because, firstly, the idea that there were
4 6 million or however many observations in the price data
5 is completely illusory, because it does not allow -- the
6 model would not allow you to take advantage of that
7 degree of variation if you were then comparing it
8 against three years of monthly overhead data. That is
9 however many, 36 observations of overheads. All you can
10 do in that case is, you know, look at the impact on the
11 average price for some different types of rooms, and for
12 a very short period, I would add.

13 Now, the concern I have with that approach is that
14 if there is a mix effect, by which I mean let us say
15 there is a lot of variation in costs over time for a mix
16 reason, ie changes in types of rooms booked and so on,
17 then that would be leading to a lot of variation in the
18 cost variable but not in the price variable. Individual
19 room prices for, say, standard and premium would not be
20 expected to be impacted by that particular factor, and
21 so you would have, in my view, a strong downward --
22 well, a downward effect. The degree of the materiality
23 is, I guess, somewhat hard to fully comprehend, but
24 a definitely downward bias associated with that mismatch
25 of the level of aggregation.

1 So that was the reason, essentially, alongside the
2 much better time period than the other data had, that
3 I did not adopt a general approach to the full
4 disaggregation.

5 The only other thing I would add is that -- I think
6 I might have already said previously, the time series
7 approach in the public data does not suffer from some of
8 these mix or aggregation type effect problems which are
9 the source of the need to use the most disaggregated
10 version of the data possible in the claimant data. So
11 although I agree that there are certainly advantages to
12 the panel and certain considerations in certain
13 circumstances, those circumstances, to the extent that
14 in part they relate to concerns about mix effects and
15 aggregation effects, do not apply for the public data.

16 There is an important question then about the level
17 of aggregation in the data regarding overheads, and
18 I think this is now perhaps, if any, the time to address
19 it, because there is going to be a lot of talk about how
20 there is, you know, millions of observations and
21 granular data, but that is not the case for the claimant
22 data. The overhead data is not of that structure at
23 all, it is generally monthly level expenditure on
24 a number of different categories.

25 So what are the implications of that? I think,

1 firstly, it means that you do not have the prices, going
2 back to the issue at the beginning, the MSC changes, the
3 change in the price. So it would be interesting to know
4 about wage rate changes, changes in the -- you know,
5 pounds per megawatt hour for energy or pounds per square
6 foot for your rental arrangements. Those are price
7 changes that would be quite interesting. If the
8 aggregate expenditure does not give you the information
9 about prices, you then have to assume that the variation
10 is relevant.

11 Let us just sort of take the example of what an
12 actual change in aggregate overhead expenditure could
13 really mean. So let us say for a particular retailer,
14 overheads went up by 10% from one month to the next or
15 one period to the next. The first possible
16 interpretation is the sorts of things I just mentioned,
17 wage increases, energy costs per unit went up, and so
18 on. That would be a legitimate and interesting type of
19 cost change to look into, but the information does not
20 allow you to know whether that is happening, or the same
21 10% increase might of course reflect that, you know,
22 additional staff were taken on because we are coming up
23 to the Christmas period, or maybe there was a change in
24 the store hours.

25 By the way, I am talking about stores, because one

1 suggestion is that you can get around the aggregation
2 problem by dividing aggregated expenditure by something
3 like the number of stores, and my answer to that is that
4 that fixes one problem, ie if the overhead only went up
5 because you opened a new store, but it leaves unresolved
6 all of the other problems, so I am just trying to list
7 out for your understanding what those might be.

8 So if you had -- if you added a few larger stores
9 over the course of the first period to the second
10 period, then there would be a mix effect, because your
11 overheads per store would reflect the fact that the
12 larger stores inevitably have higher overheads, or it
13 might also be that during that period of time the firm
14 added a new distribution centre, which of course would
15 have a big impact on the monthly distribution cost,
16 apparently, in the overhead calculation. But while of
17 course that would increase an overhead cost, the
18 presumed reason for doing it is that it would increase
19 the efficiency of the rest of the logistics operation.

20 Now, you could go on with lots of other points, but
21 I think the critical point is that only one of the four
22 examples I gave was a legitimate source of cost
23 variation that would be interesting for the purpose of
24 understanding pass-on, and the other three were not only
25 not interesting, because they are not relevant, but they

1 actually would likely have either a neutral or possibly
2 even a downward effect on product level prices because
3 of the efficiency benefit.

4 So I think, to cut this short, as valiant as the
5 efforts made by some of the experts have been, sadly it
6 is all meaningless, because it does not allow you to
7 measure something that is actually relevant.

8 PROFESSOR WATERSON: So in a nutshell, what you are saying
9 is that there is a mismatch between the cost data and
10 the price data, for example -- a prominent example would
11 be there is far more pricing data than there is cost
12 data, and so the apparent -- the apparent degrees of
13 freedom implied by the pricing data do not lead to the
14 actual number of degrees of freedom in the analysis?

15 MR HOLT: That is correct in only part of the problem. That
16 is the part I mentioned earlier, which is if you have
17 the mismatch on aggregation, you have the artificial
18 variation on the overheads that is being mapped on to no
19 changes in the product level prices. Then you are
20 saying, well, there is no pass-on because there is
21 variation in the aggregated variable because of mix
22 effects. So that is a downward bias. That is part of
23 the problem.

24 What I am describing is, I am afraid, a much more
25 serious problem that does not rely on the mismatch of

1 the aggregation. So even if you have the same level of
2 aggregation up, monthly prices and revenue and monthly
3 aggregated expenditure, the critical issue is not that
4 there is a mismatch, it is that the nature of what was
5 provided for data regarding overheads does not have any
6 pricing, and therefore any variation could reflect any
7 and all of the types of issues I mentioned, some of
8 which would have upward effects on price, some of which
9 would have neutral effects on price, some of which might
10 have downward effects on price, and therefore what you
11 are measuring is essentially almost pointless.

12 So -- and, frankly, that is before you even identify
13 some further problems, which is that overhead data
14 obviously, as we discussed before, is a mix of fixed and
15 variable costs. I think that that already largely rules
16 it out as a relevant proxy for that reason. But even if
17 you did not rule it out on that reason, it would have
18 a serious measurement issue because the fixed costs --
19 the pass-on of fixed cost cannot be measured in
20 a claimant dataset that lasts four or six years, because
21 even if you say that the pass-on of even a fixed cost
22 should maybe happen in three years, well, then you have
23 effectively two cycles in six years of data. There is
24 just not enough time period in the claimant data to
25 possibly capture, you know, given the inevitable noise,

1 to capture the amount of effect that you would need in
2 order to reach a reliable estimate.

3 PROFESSOR WATERSON: Thank you.

4 So, Mr Coombs, maybe.

5 MR COOMBS: So there has been some discussion about panel
6 data. I am not sure if everybody in the room
7 understands what a panel is so maybe I could just
8 briefly explain. There are two types of data. So we
9 can have time series data which varies over time and we
10 can have cross-sectional data which varies across
11 different products and we can think of like a table,
12 where we have products along one dimension and time
13 along the other.

14 So if you think about, say, with Primark, we might
15 have the cost of a men's shirt over time, the cost of
16 a men's pair of trousers over time, the cost of a pair
17 of socks over time and so on. So when we are talking
18 a panel, we are talking about the fact that we have time
19 series for different products over time. So eventually
20 we have like a table which shows how prices of each of
21 these products varied over time.

22 Now, when it comes to the public data, the approach
23 that I have used, I have not used a panel, I have just
24 used time series data. So I have a price, average price
25 for the sector, which is basically defined by an index

1 that is created by the ONS, and then I have a cost index
2 for the sector, and all I am doing is regressing the
3 price index across the cross index -- across the cost
4 index.

5 The reason I do that is because for the public data
6 I have a lot of observations over time. So I am looking
7 at a period starting generally in the 1990s through
8 to 2019. So I have somewhere between 200-300
9 observations over time. So that is enough observations
10 to do a time series analysis.

11 When it comes to the merchant data, generally there
12 is a shorter period of time and there is data for lots
13 of different products. So in that case, like other
14 experts, I have used a panel. So, as I have said, with
15 Primark it will be men's shirts, men's socks, men's
16 trousers and so on over time and I have done -- used
17 that in my regression.

18 Now, the issue that Ms Webster has identified is
19 that with a panel potentially you are getting a mix of
20 two different effects. You are getting how price
21 changes over time in response to a change in cost and
22 you are getting how prices of different products vary
23 related to how the costs of those different products
24 vary.

25 Now, one way that you can design the analysis in

1 order to only be looking at the variation over time is
2 by including fixed effects for each product, which is
3 almost like a dummy variable for each product, and
4 therefore you strip out the variation across products
5 and all you are capturing is the variation over time,
6 but you are benefiting from the panel, from the fact
7 that you have all these different products, because it
8 means that you might, for example, I do not know, say
9 you only have 12 periods of time but if you have 12
10 periods of time but you have lots of the different
11 products, it means that you have more than 12
12 observations. You have 12 times the number of products.

13 So that is the approach that I have used when I was
14 using the merchant data. So I have used a panel, but
15 I have controlled with these fixed effects for
16 variations across products. So what I am essentially
17 doing is still only really capturing how costs and
18 prices are related to each other over time and have
19 captured a time series analysis.

20 So I think, coming back to the question, the
21 question is: are we interested in variation over time or
22 are we interested in variation over products? The
23 approach I have taken has been to capture the variation
24 over time, rather than the variation across products.
25 I am not necessarily saying that capturing variation

1 across products is completely meaningless and
2 irrelevant, but it is not what I have done. It is not
3 the way I have approached the analysis.

4 PROFESSOR WATERSON: Thank you.

5 Just to come back very briefly to you, Mr Holt.
6 When you use public data, what sort of size of dataset
7 are you looking at?

8 MR HOLT: So I have smaller datasets than what Mr Coombs has
9 identified for two reasons. One, I have a shorter time
10 period because I focused primarily on the claim period
11 relevant to the merchant claims, but also because in the
12 main, even though I have done sensitivities to look at
13 what if I do not limit it to that, but I sort of expand
14 the dataset to an earlier period, in many cases the data
15 does not go back that much further than the claim period
16 in any event, and the difference between us, I think, in
17 that regard is that we have looked at somewhat different
18 subsectors. So I have some extra ones and some of the
19 extra ones I have do not have quite as long a data
20 series.

21 I think a related issue is that we have adopted
22 different methodologies. So I have adopted, I think,
23 a simpler methodology, which is essentially a reduced
24 form unless type model, and then I have taken into
25 account the general time series issues around

1 stationarity, which I will not go into too much detail
2 now, but I am sure we will get into it, but I have
3 addressed that by adopting either levels of first
4 differences, depending on the outcome of those tests.

5 So -- but basically I do not need, in my view, quite
6 as long time series as Mr Coombs perhaps did because he
7 imposes a particular structure in his long-run-based
8 approach. I do not adopt an explicit long-run-based
9 approach; I assume that the variable cost pass-on
10 effectively is happening within a year through my use of
11 lagged quarters.

12 The other reason why I have fewer observations, by
13 the way, is I have used quarterly data, rather than
14 monthly. In my view, that is not a really important
15 distinction because there is not that much additional
16 information when you break it down by month versus
17 quarter.

18 PROFESSOR WATERSON: That is what I was wondering about.

19 MR HOLT: Yes. So I have done it at the quarterly level
20 basically, but that is for the public data.

21 Obviously generally I have used the frequency of the
22 claimant data at the level that it was provided usually.
23 Sometimes that is by week, sometimes by month and so on.

24 PROFESSOR WATERSON: Thank you.

25 Dr Trento.

1 MR TRENTO: Yes, okay. I think on the question of time
2 series versus panel data, I used panel data because it
3 is the data that is available for the Claimants. I am
4 interested in pass-on of total overhead costs and for
5 that pass-on I have used variation in time, but one
6 thing I wanted to explain is that Mr Holt has set out
7 a few issues with the overheads data. I think there is
8 some misunderstanding and I think I would like to
9 clarify.

10 So the first one is the following: he said: oh, yes,
11 you talk about the claimant data but in millions of
12 observations but with overhead costs, you only have
13 monthly data. That is correct. It does not mean that
14 the very disaggregated data that I get from the
15 Claimants is less useful because, as I have said before,
16 what you want to do in estimating pass-on is you want to
17 explain prices and all of the variation in the data that
18 allows you to explain prices, it also allows you to
19 identify a causal effect, in my case, of total overhead
20 cost of prices. So the fact that overhead data is only
21 aggregated at a monthly level, it does not mean that we
22 are not using the whole of the granularity and
23 information that is in the Claimants' data. We are
24 using fully all of that granularity.

25 Let me make an example, coming back to a point that

1 was raised by Mr Holt, which is he says for Hilton's
2 data, yes, you have prices at the transaction level but
3 then you only have cost at the monthly level and, again,
4 this is true, but the granularity at the transaction
5 level gives you a lot of information on factors that
6 affect prices. So, for instance, again, the type of
7 room or, you know, the difference between the time of
8 booking and the time of arrival, the number of guests
9 and all this information, and this needs to be used, in
10 my opinion, in order to estimate a causal effect of cost
11 on prices and Mr Holt said, no, because you only have
12 three years of data. That is not correct. You have
13 five years of data. It is not three.

14 Then, second of all, the problem that he -- the
15 problem with aggregating the data is the
16 following: imagine you have a hotel where the share of
17 standard room that is booked go up in time so meaning
18 people are booking more and more standard rooms and less
19 and less premium rooms, then if you aggregate the prices
20 what you see is that you see a decline in prices there
21 that is not real. It is just an aggregation effect.
22 When you use aggregated data, like Mr Holt has used and
23 I have not used for Hilton, then you have a problem, in
24 my opinion.

25 So, going back to the Hilton example, you know,

1 I think using disaggregated data is better than using
2 aggregated data.

3 There is another issue that Mr Holt raised here,
4 which is about overhead costs. I think the issue that
5 he raises is that you do not have a price for the
6 overhead costs so you do not know whether wages have
7 gone up, you do not know whether the price of coffee
8 machines have gone up, you do not know, you know,
9 whether the price of electricity has gone up and so on
10 and so forth. I think that is correct, but I have two
11 observations on that.

12 The first one is the one that I have said before,
13 which is overhead costs, if you are a price manager you
14 cannot look individually at the price of each individual
15 component of the overhead costs. This is not the way it
16 works. The way it works is that they look maybe at big
17 components and maybe they look at how the overhead costs
18 affect profitability, so a broader perspective and not,
19 you know, what is the price of input A, B, C, D, etc,
20 etc. So this is one point.

21 The other point is that he said, yes, okay, overhead
22 cost could increase, not because prices have increased
23 but because of other factors. I agree with that. We
24 have tried to take this issue into account in our
25 estimation. So, for instance, what we use is

1 a normalised version of total overhead costs whereby
2 what we do is we divide the value of total overhead
3 costs by the number of stores because we think this is
4 the biggest variation you can have in overhead costs.
5 If you open up a new supermarket, then of course your
6 overhead costs are going to go up but you would not
7 expect there to be an effect on prices. I agree with
8 that. We control for that in our analysis. There are
9 smaller -- you know, it is possible that other things
10 may happen. So, for instance, business -- sorry,
11 Christmas period is busier than usual, maybe the
12 overhead costs may go up in there because you want more
13 retail staff. We also try to control for these things.
14 So we control for seasonality in our analysis, and we
15 also do another thing, which is we use -- sorry, this is
16 a technical term, but we use a moving (inaudible), which
17 means if we want to explain the price in December 2020,
18 we use the average total overhead costs in the
19 three months previous to December or in the six months
20 or in the 12 months. We do all three. Therefore, we --
21 so if there is a spike in overhead costs which is due
22 to, for instance, Christmas, we control for that.

23 The last point is on the timeline of the passing on
24 of overhead costs. We have heard from Mr Holt that he
25 thinks you cannot estimate the pass-on of overhead costs

1 because it takes longer for them to be passed on.

2 I think he actually says that the two avenues for the
3 pass-on of MSCs are that the company copies or monitors
4 the price of the competitors and for that kind of
5 pass-on, I do not think there is any delay.

6 Another possibility that -- another possibility for
7 the pass-on of overhead costs is that they affect
8 profitability and then, because profitability went down,
9 maybe you want to increase your costs, but for that you
10 have reviews of profitability and that happens maybe
11 every month or every three months or every six months or
12 every year. So it does not take four years to -- for
13 the overhead costs to be passed on.

14 I agree with Mr Holt that there are a few
15 instances -- well, sorry, I agree with Mr Holt that if
16 the effect of overhead costs on prices is indirect, so
17 it is not an effect that a company says overhead costs
18 have increased and then we increase our prices, but if
19 it is that overhead costs have increased, that has made
20 some of the companies in the market unprofitable, the
21 companies that are unprofitable leave the market and
22 then the companies that stay in the market then increase
23 their prices, yes, I agree that can take longer, but
24 I think that the first thing I would say is that what we
25 want to establish as econometricians, we want to

1 establish causality and when you look at a longer period
2 of time there are a lot of confounding factors that are
3 difficult to control for.

4 Yes, the second thing that I would say is that I do
5 not think my model would miss that effect. It would
6 capture that effect with a delay. Of course if it takes
7 40 years or six years, maybe I miss that effect, but
8 also if it takes six years and the claim period is
9 ten years, that means that the pass-on for the six years
10 is zero and that also must be taken into account.

11 PROFESSOR WATERSON: Thank you.

12 Actually one of your claimants, and I will not name
13 them obviously for this purpose, but one of your
14 claimants in a sense made a point, which is partly for
15 you and partly against you in this argument, that in
16 response to a change in costs they changed the price of
17 one item amongst their set of items. So that is the
18 point in favour of what you say.

19 The point against you is that, of course, that would
20 have been -- that may well be picked up also in the
21 aggregate across their products and therefore a slight
22 change, but it might be too small to measure; I do not
23 know.

24 Anyway, you may well know who I am talking about but
25 I will not name them because it is detailed information.

1 Mr Harman, do you want to say anything on this
2 topic?

3 MR HARMAN: Thankfully not.

4 PROFESSOR WATERSON: Good.

5 Well, I am hesitant about moving on to another
6 topic.

7 THE CHAIRMAN: Maybe we should not. No one wants to say
8 anything more on that topic? No. Okay. I think we are
9 sort of up with the timetable, are we not?

10 PROFESSOR WATERSON: Yes.

11 THE CHAIRMAN: It has been quite a long day so I think we
12 should call it a day and we will resume at 10.30
13 tomorrow.

14 Of course you are still in the witness box, as such,
15 so no discussion about the evidence.

16 All right. 10.30 tomorrow.

17 (4.25 pm)

18 (The hearing adjourned until 10.30 am
19 on Tuesday, 26 November 2024)

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