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**IN THE COMPETITION**  
**APPEAL TRIBUNAL**

Case No: 1284/5/7/18  
1290/5/7/18

Salisbury Square House  
8 Salisbury Square  
London EC4Y 8AP

Tuesday 17 May 2022

Before:  
The Honourable Mr Justice Michael Green  
Derek Ridyard  
Sir Iain McMillan CBE FRSE DL  
(Sitting as a Tribunal in England and Wales)

**BETWEEN:**

Royal Mail Group Limited  
BT Group PLC and Others v DAF Trucks Limited and Others **Claimants**

v

DAF Trucks Limited and Others **Defendants**

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**APPEARANCES**

Tim Ward QC, Ben Lask and Clíodhna Kelleher (On behalf of RM/BT)  
Daniel Beard QC, James Bourke and Daisy Mackersie (On behalf of DAF)

Tuesday, 17 May 2022

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(10.30 am)

THE CHAIRMAN: Good morning. Good morning, everyone.

MR BEARD: Good morning.

MR LASK: Sir, good morning. I am going to be conducting  
the cross-examination of Mr Borsboom this morning.

THE CHAIRMAN: Okay.

MR LASK: I wanted to flag up at the outset that it will be  
necessary at some point to go into closed session as  
some of Mr Borsboom's evidence is marked as  
confidential. I have discussed it with Mr Beard and,  
subject to the tribunal's views, I think it may be  
appropriate to at least start the cross-examination in  
open because there is a chunk of it that I can do  
without going to closed material and then for me to  
indicate when the appropriate moment is that it is time  
to go into closed.

THE CHAIRMAN: All right, and that has all been explained to  
Mr Borsboom, has it?

MR LASK: I am not sure it has yet.

MR BEARD: No.

THE CHAIRMAN: All right. Shall we start then with  
Mr Borsboom?

MR LASK: Yes.

1 MR RONALDUS BORSBOOM (called)

2 THE CHAIRMAN: Good morning, Mr Borsboom.

3 A. Morning.

4 MR BEARD: As you will see, at the moment I am looking at  
5 you because I am looking straight at the camera in the  
6 tribunal, but I will turn towards the screen that is in  
7 the tribunal so I will not be directing my face towards  
8 you when I ask you questions or when Mr Ward is asking  
9 you questions. It is not discourtesy. It is just the  
10 way that the courtroom is laid out.

11 Now, Mr Borsboom, you may just heard Mr Lask  
12 indicate that he would like at some point to ask you  
13 some questions about material in your statement which is  
14 confidential. When he does that, what he is going to do  
15 is indicate that he is going to move to confidential  
16 material. We will then have a short pause because only  
17 people that are privy to DAF confidential material can  
18 be in the courtroom to hear that and see that and we  
19 have to stop the live transcript, so there will be  
20 a short pause there. If at any time during any other  
21 answers you want to refer to confidential material,  
22 please say so and we will make arrangements that you can  
23 give your answer in confidential session in due course.

24 THE CHAIRMAN: Mr Beard, we need to swear in --

25 MR BEARD: I was going to call him. I just thought it was

1 appropriate to do that before swearing him in.

2 THE CHAIRMAN: Yes.

3 MR BEARD: So, Mr Borsboom, I will leave it now to the  
4 tribunal. I call you and they will swear you in.

5 MR RONALDUS BORSBOOM (affirmed)

6 THE CHAIRMAN: Thank you very much, Mr Borsboom. Mr Beard  
7 may have a couple of questions for you.

8 Examination-in-chief by MR BEARD

9 MR BEARD: Mr Borsboom, I will not ask you any questions  
10 save to confirm your witness statement, if I may. Do  
11 you have in front of you a copy of the statement which  
12 has a heading on the first page, "Witness statement of  
13 Ronald Borsboom" or it is your full name in fact?

14 A. Yes.

15 Q. If we turn to the next to last page, page 25 in that,  
16 {D/25/25}, is that your signature, Mr Borsboom?

17 A. That is indeed my signature.

18 Q. Thank you. Is this statement true to the best of your  
19 knowledge and belief?

20 A. It absolutely is.

21 MR BEARD: Thank you, Mr Borsboom. Mr Lask is going to have  
22 some questions for you on behalf of Royal Mail and BT.  
23 I do not have any questions for you at the moment.  
24 Thank you very much.

25 Cross-examination by MR LASK

1 MR LASK: Good morning, Mr Borsboom. As Mr Beard said, the  
2 camera through which you can see me and the screen  
3 through which I can see you are in different places so  
4 no discourtesy is intended if it appears that I am not  
5 looking at you when I am asking you questions.

6 I would like to start by asking you some questions  
7 about your role at DAF NV. You joined DAF in March 2000  
8 as head of vehicle development; is that right?

9 A. That is correct.

10 Q. In that role you were in charge of all development  
11 projects other than those relating solely to engines;  
12 correct?

13 A. That is correct.

14 Q. How many people were in your department at that time?

15 A. Approximately 500, I would guess.

16 Q. So 500 people responsible for the development projects  
17 that you were overseeing?

18 A. Yes.

19 Q. In December 2002 you became director of product  
20 development, also known as chief engineer --

21 A. Correct.

22 Q. -- and this brought engine development within your  
23 remit; yes?

24 A. That is correct.

25 Q. Roughly how many additional people came under your

1 oversight at that stage?

2 A. Okay. I have to make a small correction. At that point  
3 it became 500. Before that it was probably more like --  
4 something like 250 to 300.

5 Q. 250 to 300?

6 A. That is correct.

7 Q. In March 2020 you assumed your current role of executive  
8 director of product development; yes?

9 A. That is correct.

10 Q. Is it fair to say that all of these roles have concerned  
11 the engineering side of DAF's activities?

12 A. Absolutely, yes, correct.

13 Q. So you have not been involved in pricing, for example?

14 A. I have not, no.

15 Q. I would like to ask you now some questions about DAF's  
16 general approach to developing new products. Can  
17 I check? I see that you have two files in front of you  
18 and I understand at least one of them has your witness  
19 statement in it and the other --

20 A. Yes.

21 Q. -- has some documents. Do you also have access to  
22 a screen?

23 A. I do, yes, over here.

24 Q. When it comes to me to show you documents, would you  
25 prefer to view them on the screen or in the folder in

- 1 front of you?
- 2 A. The screen would probably be better.
- 3 Q. Okay. If at any time you want to look at a document in  
4 hard copy, assuming it is in the file, just ask me and  
5 I will give you the relevant tab reference.
- 6 A. Okay.
- 7 Q. So DAF's general approach to developing new products --  
8 within DAF NV the development of new products is  
9 overseen by a project board and managed on a more  
10 regular basis by a project progress committee; yes?
- 11 A. That is correct.
- 12 Q. Both bodies meet on a monthly basis with each project  
13 being discussed at least quarterly; yes?
- 14 A. That is in general correct, yes.
- 15 Q. Is it fair -- I am sorry.
- 16 A. It depends a little bit on, let us say, phases of  
17 a project and whether or not issues are worth a more  
18 frequent review, but generally speaking it is indeed  
19 once a month.
- 20 Q. So, if anything, it may be more frequent but it is at  
21 least monthly meetings and at least quarterly reviews of  
22 each project?
- 23 A. Correct.
- 24 Q. Is it fair to say that papers would be produced for  
25 these meetings and minutes taken at these meetings?

- 1 A. Absolutely, yes, it is.
- 2 Q. Thank you. You were chair of both bodies, both the  
3 project board and the project progress committee; yes?
- 4 A. That is correct.
- 5 Q. Have you held that role as chair ever since you joined  
6 DAF in March 2000?
- 7 A. No, no. No, no. The role of chair comes with the  
8 position of chief engineer or director of product  
9 development.
- 10 Q. So you would have become chair in December 2002; is that  
11 right?
- 12 A. That is correct. That is correct.
- 13 Q. In that capacity you oversaw the project for DAF's  
14 Euro 4, Euro 5 and EEV vehicles; yes?
- 15 A. That is correct, yes.
- 16 Q. But Euro 3, the Euro3 project or projects, were already  
17 largely complete by the time you joined DAF; correct?
- 18 A. That is correct.
- 19 Q. You quite reasonably state in your witness statement  
20 that even in relation to Euro 4 and Euro 5, your  
21 recollection has faded to some extent given the  
22 significant passage of time; is that correct?
- 23 A. That is correct, yes.
- 24 Q. Is it fair to say these were complex projects, spanning  
25 a number of years?



1 A. These type of projects are very complex and indeed span  
2 a number of years, absolutely.

3 Q. An important consideration for DAF in a project of this  
4 kind is timing; is that right?

5 A. Timing is of course one of the key elements of any  
6 programme --

7 Q. When you are -- sorry, I spoke over you. Would you like  
8 to say that again?

9 A. Sure. One of the four key elements of the programme is  
10 timing. The other one is cost, performance and quality.

11 Q. When DAF is embarking on a project in order to comply  
12 with emission standard legislation, you have a legal  
13 deadline by which the new vehicles must be ready; yes?

14 A. That is correct, yes.

15 Q. Can I ask you to look, please, at paragraph 12 of your  
16 witness statement? That is at {D/25/4}. You refer to  
17 two legal deadlines here. You say:

18 "The Emissions Standards (apart from EEV) specified  
19 two legal deadlines. The earlier deadline was the  
20 latest date by which manufacturers could introduce new  
21 truck types that were compliant with the new emissions  
22 standard ..."

23 Just pausing there, is there a missing "not" before  
24 the word "compliant"?

25 A. No, it is not. It is the latest by which -- any date

1 after that you would be late literally. You can of  
2 course launch before that date if there is a reason  
3 for it.

4 Q. I see. Just focusing on the earlier deadline, my  
5 understanding is that, pursuant to that deadline, if  
6 a manufacturer wants to introduce a new model that is  
7 not compliant with the upcoming emissions standard, then  
8 this earlier deadline is the latest date on which it can  
9 obtain approval for that model from the national  
10 authority. Have I understood that correctly?

11 A. Well, it is -- all the legal deadline -- beyond the  
12 legal deadline you can only certify vehicles or put  
13 a licence plate on it if they complied to the new  
14 legislation. Before that, you can introduce a new model  
15 that does not comply to the new legislation but you  
16 would do that only for a very, very, very short time and  
17 it does not make a lot of sense.

18 Q. Yes, I see. You go on to say:

19 "... and the later deadline was the date by which  
20 all trucks sold by manufacturers had to comply with the  
21 relevant Emissions Standard."

22 Generally speaking in your statement, that is the  
23 deadline you are referring to; is that right?

24 A. That is correct. Manufacturers try to avoid introducing  
25 new types close to such a deadline because, like I said,

1 basically (inaudible), the challenges with at least a  
2 year, and given the complexity and the challenges around  
3 new emissions standard, that usually is not a good idea.

4 Q. So they try not to leave it to the last minute?

5 A. Usually you try not to leave it to the last minute, but,  
6 yes, those are the reasons. There is registration.

7 *Trucks*, remember, they leave our factory and in some  
8 cases they need to go to bodybuilders before they can be  
9 registered, so there is always a little bit of time that  
10 we need to be ready prior to the legal deadline to allow  
11 for that.

12 Q. Yes. When you talk here and in your statement about  
13 introducing a new truck, there is a distinction, is  
14 there not, between launching a new truck, taking  
15 customer orders for it and then the start of production;  
16 is that right?

17 A. That is correct. First of all, you would like the  
18 markets to know about your wonderful new product,  
19 prepare the markets for it and at a certain date you  
20 start taking orders, and you need a certain amount of  
21 orders in the order board to be able to start production  
22 on it.

23 Q. Yes, so you have very helpfully summarised the  
24 chronology. You have the launch first, secondly, at  
25 some point thereafter, DAF begins taking customer orders

1 and then, thirdly -- I think you say it is between  
2 six and 16 weeks later -- the new trucks go into  
3 production. This is what -- the date they go into  
4 production is what you refer to in your statement as the  
5 "SOP" or "JOB 1 date"; yes?

6 A. That is correct. "SOP" stands for "start of production"  
7 so that is a pretty accurate description, I would say.

8 Q. Thank you. Now, subject to the legal deadline, DAF has  
9 a degree of choice in respect of timing, in respect of  
10 when it introduces new models; is that right?

11 A. Sure. That is correct.

12 Q. I am sorry. I spoke over you again.

13 A. That is correct.

14 Q. There are a number of factors that will determine  
15 whether you can and want to introduce a new truck ahead  
16 of the legal deadline; yes?

17 A. That is correct.

18 Q. You identify some of the main ones in section E, but you  
19 also explain that, even if you want to introduce a new  
20 vehicle before the deadline, you are sometimes delayed  
21 by technical issues; yes?

22 A. That is correct.

23 Q. You make clear in your statement that DAF would never  
24 launch a product before it is ready; yes?

25 A. Yes, absolutely correct.

1 Q. I want to turn now to ask you some more specific  
2 questions about DAF's Euro 3 projects, recognising, as  
3 you say in your statement, that you have limited direct  
4 knowledge because they largely predate your time at DAF.

5 Can we go to paragraph 59 of your statement? This  
6 is {D/25/17}. You acknowledge here that the Commission,  
7 the European Commission, found an agreement between DAF  
8 and other manufacturers in April 1998 relating to the  
9 introduction of Euro 3 compliant trucks. Do you see  
10 that?

11 A. I have no personal knowledge, but this indeed was  
12 explained to me, yes, as one of the findings of the  
13 Commission, that is correct.

14 Q. Are you aware that DAF has admitted that agreement?

15 A. That is what was explained to me, yes.

16 Q. You have a table here between paragraphs 58 and 59,  
17 {D/25/16}. I am not sure if it is possible to display  
18 the whole table at the same time, but, if not, just the  
19 top bit of it will do for now. This table gives details  
20 of the relevant stages in the Euro 3 projects. Sorry,  
21 is that -- yes, that is Euro 3. In particular, you  
22 have, in the penultimate column, the actual JOB 1 dates  
23 for some of the trucks and, as we have heard, the JOB 1  
24 date is the date the trucks go into production. You  
25 point out at paragraph 60 -- at paragraph 60, you

1           summarise the dates on which the trucks went into  
2           production and you point out that they went into -- some  
3           of them went into production ahead of the legal  
4           deadline.

5           A. That is correct.

6           Q. You contrast that with the agreement you refer to in  
7           paragraph 59, where you say that the -- you describe the  
8           agreement as being an agreement not to offer Euro 3  
9           trucks before it was compulsory on 1 October 2001.

10          A. That is correct, yes. That is an agreement that again  
11          was outside my knowledge prior to this and something  
12          I had nothing to do with.

13          Q. But the suggestion in your statement, as I read it, is  
14          that you are saying even if there was an agreement, of  
15          which you know nothing -- even if there was an agreement  
16          not to offer Euro 3 trucks before the deadline, it was  
17          not in fact complied with, at least as far as DAF is  
18          concerned because DAF did introduce its Euro 3 trucks  
19          before the legal deadline. Is that the point you are  
20          making?

21          A. I think that is clear from the table, so yes.

22          THE CHAIRMAN: Can I just ask, the dates in those  
23          penultimate columns, are they dates?

24          MR LASK: Yes --

25          A. Those are dates, yes. It is in years.

1 THE CHAIRMAN: Can you just explain how they work?

2 A. Yes, it is years and week numbers.

3 THE CHAIRMAN: Week numbers, okay.

4 A. So the first two digits is the year 1998, 1999 and so  
5 forth and there is a dot and then the next two digits  
6 are week numbers, starting with week 1 in January.

7 THE CHAIRMAN: I thought so. Thank you for confirming.

8 MR LASK: One has to do a spot of mental arithmetic, but  
9 I will try to flag up the dates in real-time, if I can  
10 put it that way, as we go through.

11 I would like to show you some underlying documents,  
12 if I may, and the first one is at {I1/29}. These are  
13 the minutes of an ACEA meeting which took place on  
14 6 April 1998. That date is at the bottom of this page.  
15 Do you see that? Have you seen this document before,  
16 Mr Borsboom?

17 A. I do not recognise it.

18 Q. All right. Well, I will ask you one or two questions  
19 but fully understood if you are not able to answer them.  
20 If we could scroll back up, please, you will see under  
21 the heading "Euro 3":

22 "All Members ..."

23 I take that to be members of ACEA.

24 "All Members agree not to push any anticipation of  
25 EURO 3 before it is compulsory."

1           So not to push any anticipation of Euro 3.

2           Then at the second bullet point there is a reference  
3 to:

4           "... only the Nederland has expressed the  
5 willingness to put incentives at the rate of  
6 5000 Guilders/Vehicle, with a budget of 95 Millions  
7 Guilders, starting from February 1999 until EURO 3 Date,  
8 DAF has expressed its Willingness to respond to this  
9 incentive without pushing."

10           Do you know what that might mean?

11       A. I am sorry but I do not.

12       Q. Fair enough. Then you see the third [sic] bullet point:

13           "In case of incentive and anticipation, all Members  
14 will propose EURO 3 as an option, with an additional  
15 charge in the bracket of 4500 to 5000 guilders net price  
16 for trucks over 16 [tonnes] ..."

17           Then the final bullet point:

18           "Whatever the stage of development of their engines  
19 all Members will communicate on the cost of development  
20 and investment of the new technology for EURO 3 without  
21 stressing the consumption penalty incurred by EURO 3."

22           Do you know what that might mean?

23       A. Sorry, I do not.

24       Q. Can we go to the next document, please, at {I6/134T}?

25           We understand this to be a record of a competitor



1 meeting but it is undated. Have you seen this document  
2 before?

3 A. No, I have not, sir.

4 Q. All right. Well, I will take it relatively swiftly  
5 then. Again, under the heading "EURO 3" we see:

6 "No significant strides for the promotion of EURO 3  
7 (minimum or no identification of the vehicles, no  
8 identification of the engines)."

9 I appreciate you have not seen this document, but  
10 just reading it now and reading it alongside the  
11 previous document, this looks like an agreement not to  
12 promote the Euro 3 trucks before the legal deadline  
13 rather than an agreement to withhold them from sale.  
14 Do you agree?

15 A. Again, I do not know the document. First time I see it  
16 so I find it difficult to give it an interpretation.

17 Q. All right. It is right to say, is it not, that you have  
18 not given any evidence on the extent to which DAF in  
19 fact promoted its Euro 3 trucks before the legal  
20 deadline?

21 A. I could not comment, sir, I am sorry.

22 Q. You have not given any evidence on the extent to which  
23 other manufacturers promoted their Euro 3 trucks before  
24 the legal deadline?

25 A. No, because I have no knowledge about it and it is

1           20 years or more ago, so ... and in many cases, as the  
2           years show, it was before my job started at DAF so ...

3       Q. Yes, this agreement was before you joined DAF. Did you  
4           become aware of it when you joined DAF?

5       A. No, sir, not at all.

6       Q. All right. Could we go, please, to the Commission's  
7           decision at {I5/465/12}? If we scroll down, please, to  
8           Recital 50, this is the Commission's decision in which  
9           it found an infringement by DAF and a number of its  
10          competitors. Are you familiar with this document?

11      A. No, I am not, sir. I am sorry.

12      Q. All right. If you look at Recital 50 at the bottom:

13                 "These collusive arrangements included agreements  
14                 and/or concerted practices on pricing and gross price  
15                 increases in order to align gross prices in the EEA and  
16                 the timing and the passing on of costs for the  
17                 introduction of emission technologies required by  
18                 Euro 3 to 6 standards."

19                 So that is referring not just to Euro 3 but also to  
20                 Euros 4, 5 and 6. Were you aware of any agreements or  
21                 information exchanges in relation to these matters?

22      A. Absolutely not, sir.

23      MR LASK: Sir, at this stage I do need to go to parts of  
24           Mr Borsboom's statement that are confidential so that  
25           might be an appropriate moment.

1 THE CHAIRMAN: Okay. So what does that mean in practical  
2 terms? Do we need to turn off the live screen? Have  
3 a five-minute break? All right. We will have  
4 a five-minute break and anyone who is not meant to be  
5 here will, I am afraid, have to leave. I assume  
6 everyone that is with Mr Borsboom is okay to stay; yes?

7 A. Yes.

8 THE CHAIRMAN: All right. We will have a five-minute break,  
9 Mr Borsboom, just to make practical arrangements.

10 (10.58 am)

11 (The session continued in private)

12 (12.10 pm)

13 (In public)

14 MR WARD: We now move on to the claimants' expert evidence  
15 and, as you will be aware from the timetable, what we  
16 now have is conventional cross-examination on the topic  
17 of plausibility or theories of harm, as it has been  
18 described.

19 THE CHAIRMAN: Yes.

20 MR WARD: We have Mr Harvey.

21 MR JAMES HARVEY (affirmed)

22 THE CHAIRMAN: Thank you. Make yourself comfortable.

23 Examination-in-chief by MR WARD

24 MR WARD: Mr Harvey, you have produced three reports  
25 relevant to theories of harm, dealing with theories of

1 harm, value of commerce, overcharge and loss of volume.

2 Do you have those before you?

3 A. Yes.

4 Q. Could I ask you to open your first report, please, which  
5 is E1, and could we go to page 13, {E/1/13}? Is that  
6 your signature?

7 A. It is.

8 Q. Can we now go to your second report, your reply report,  
9 which is at E/28. Could we go to page 7, {E/28/7}? Is  
10 that your signature?

11 A. Yes, it is.

12 Q. Can we now go to your supplemental report at {E/52} and  
13 again to page 7, {E/52/7}? Is that your signature?

14 A. Yes, it is.

15 Q. Do the contents of these reports represent your true and  
16 complete professional opinions on the matters to which  
17 they refer?

18 A. Yes, they do.

19 MR WARD: Please wait there. Mr Beard will have questions  
20 for you.

21 Cross-examination by MR BEARD

22 MR BEARD: Good morning, Mr Harvey. Mr Ward has just taken  
23 you to versions of your reports. They are in the  
24 non-confidential versions of the bundle. I will take  
25 you to confidential versions. Those will be what are in

1 I think the hard copy bundle next to you. If there is  
2 anything confidential that you want to refer to, say so  
3 and then we will make sure that it can be dealt with in  
4 confidential session. If I am hitting confidential  
5 material, I will try to avoid showing it on the screen  
6 to the world.

7 So what I want to do before lunch, if I can, is deal  
8 with a few preliminary points and some initial points on  
9 issues to do with certain evidence. Then I will later  
10 come on to some of the mechanisms that you have referred  
11 to in relation to theory of harm.

12 So could we just turn up your first statement at  
13 page 15, so I have got it at {E/IC1/15}, and this is not  
14 confidential.

15 THE CHAIRMAN: You are using the confidential?

16 MR BEARD: I am using the confidential so I will just keep  
17 giving those references, if that is okay. It is just  
18 there are some diagrams that do have confidential  
19 material and I do not want to be bouncing backwards and  
20 forwards between reports. So at 2.4, you say:

21 "In considering the Theory of Harm, I have examined  
22 the Settlement Decision ..."

23 So that is the Commission decision; correct?

24 A. Yes.

25 Q. "... and the Royal Mail's, BT's and DAF's pleadings [so

1 that is the formal pleaded material], DAF's Pricing  
2 Statement [which is a particular document that was  
3 submitted as part of these proceedings] and the witness  
4 evidence [and you say] in full."

5 You say "in full". Do you mean you read all of the  
6 statements? Is that what you mean by --

7 A. Yes.

8 Q. Did you look at the documents that were exhibited to  
9 those statements in addition?

10 A. Which documents?

11 Q. Any of the documents exhibited to any of the witness  
12 statements, Mr Harvey.

13 A. Yes, I would have read them.

14 Q. All of the documents that were exhibited to witness  
15 statements?

16 A. I do not think I can say that.

17 Q. Are there any witness statements you remember focusing  
18 on the attached documents more than in others?

19 A. No.

20 Q. You have not looked at any other contemporaneous factual  
21 materials that have been disclosed in these proceedings  
22 other than those documents attached to witness  
23 statements?

24 A. Any material that I would have referred to would have  
25 been referenced in my report.

1 Q. So if it is not referenced in the report, we can take it  
2 you did not --

3 A. I may have read it but not relied on it.

4 Q. So you may have read some of the other material. So you  
5 have explored some of the other factual material that is  
6 in this case?

7 A. When I have referred to it in my report, yes.

8 Q. Sorry, I misunderstood your earlier answer. Were you  
9 saying the only factual material you have looked at in  
10 this case is the stuff you have referred to in your  
11 report or was there other material you have looked at  
12 but have not referred to?

13 A. Well, there may be material that I have read and did not  
14 rely on because it was not relevant to the theory of  
15 harm, but I do not recall what that is now.

16 Q. No, sorry, I am not asking you to provide a full  
17 catalogue. So there could be documents that are not  
18 referred to in your reports that you may well have seen  
19 and potentially considered?

20 A. Yes.

21 Q. I just want to start by looking at a little bit of the  
22 empirical evidence that we have on the relationship  
23 between list price changes and transaction price  
24 changes. If we could just go to your third report which  
25 is {E/IC52/24}, just picking it up at 2.44, this is in

1 the context of a debate about Professor Harrington's  
2 paper that we will come back to, but I just wanted to  
3 pick up the second sentence in 2.44(a). It says:

4 "In relation to [I am just reading through the  
5 paragraph, but you can read it to yourself] whether the  
6 prices that were shared were 'prices which may  
7 ultimately affect the prices that consumers pay but are  
8 not necessarily the final prices that will be put before  
9 consumers', I set out why I considered that it was  
10 plausible that collusion on list prices led to an  
11 increase in transaction prices in my First Overcharge  
12 Report and [you say] set out evidence of there being  
13 a strong relationship between DAF's changes in list  
14 prices and net prices in my Overcharge Reply Report."

15 Then we see a footnote 48 which takes us back to  
16 your first report, paragraphs 2.89 and 2.91. Do you see  
17 that?

18 A. Yes.

19 Q. So that is the evidence you are citing here of a strong  
20 relationship between changes in list prices and net  
21 prices in your overcharge reply report. So shall we go  
22 to that? I think it is in {E/IC28/38}. If we can just  
23 go to 2.89, you say:

24 "I have used DAF's database disclosure to examine  
25 whether there is a relationship between DAF's own list



1 prices and its own net prices at an aggregate level."

2 So you are just looking at a relationship between  
3 list prices and net prices; correct?

4 A. That is right.

5 Q. So when you said in your third report that you were  
6 looking at changes in list prices and changes in net  
7 prices, that is not actually what this evidence is  
8 doing, is it? It is looking at just list prices and net  
9 prices. We can come on and see that if we just go over  
10 the page. You refer to them as "scatter plots"; I have  
11 been referring to them as the "kebab diagrams" but that  
12 may be unfair!

13 You see there you have got a scatter plot of total  
14 list price and net invoice prices in pounds and each dot  
15 is a truck transaction list price and invoice price --  
16 that is correct? -- in this scatter plot?

17 A. That is correct.

18 Q. So this scatter plot is not looking at changes at all.  
19 It is just plotting a line through a relationship you  
20 say exists between list prices and invoice prices;  
21 correct?

22 A. That is right.

23 Q. So these scatter plots do not assist us in the analysis  
24 between changes in list prices and changes in  
25 transaction prices, and I will come back to these

1 scatter plots in a moment. But you know that  
2 Professor Neven has looked at the relationship between  
3 changes in list prices and changes in transaction  
4 prices, do you not?

5 A. Yes.

6 Q. So let us just have a look at that. Could we go to  
7 Professor Neven's first report, section 5, which is in  
8 {E/IC10/32}. So this is section 5 of his report.  
9 I know you are familiar with this, Mr Harvey, because  
10 this is material you have engaged with. Just picking it  
11 up at 5.1, you will see:

12 "As discussed in Section 3, what is required for  
13 effective coordination is the development of a focal  
14 point on transaction prices. The exchange of pricing  
15 intentions on list prices would only be meaningful in  
16 this respect if these pricing intentions were passed  
17 through in transaction prices in a manner that was  
18 consistent over time."

19 Then Professor Neven says:

20 "The rest of the section is organised as follows.  
21 First, I present the methodology used to identify  
22 changes in list prices and the extent to which these  
23 changes are transferred to transaction prices. Second,  
24 I outline the results of the analysis of the evolution  
25 of pass-through rates and I test the robustness of my

1 results in various dimensions."

2 You are familiar with what he is doing here.

3 So what Professor Neven is doing in section 5 is to  
4 try and understand whether there would be a possible  
5 focal point for -- evidence of a focal point sufficient  
6 to sustain coordination on transaction prices. That is  
7 what he is saying he is doing overall here. You  
8 understand that?

9 A. I do. I think Professor Neven is trying to establish  
10 whether it would be possible to reach an agreement on  
11 transaction prices --

12 Q. Absolutely.

13 A. -- and he says that a focal point is necessary to do  
14 that.

15 Q. Yes, absolutely. We will come back to this. But you  
16 say that is not your theory of harm and therefore that  
17 project is, in your view, broadly irrelevant I think  
18 overall. I paraphrase, but I think that is how you put  
19 it. Is that fair?

20 A. Yes.

21 Q. I do not want to focus on the project that he has  
22 engaged in at the moment. I just want to look at some  
23 of the data that he analysed. As you know,  
24 Professor Neven carries out his project, as we have seen  
25 in relation to 5.1 and 5.2, by looking at the data on

1 gross list prices and changes in gross list prices and  
2 changes in transaction prices and he draws on two sets  
3 of data that you are familiar with, the AS400 data and  
4 the MI data. You understand that is what he is doing  
5 here?

6 A. Yes.

7 Q. So we will be coming back in due course, perhaps over  
8 the next couple of days, to talk about the robustness of  
9 the AS400 data, but for the purposes of this exercise  
10 Professor Neven thinks it can be useful. Just in  
11 relation to this exercise, you understand that  
12 Professor Neven is making no assumptions about what  
13 causes changes in gross list prices? You understand  
14 that, do you not?

15 A. Yes.

16 Q. So it could be that there is some terrible nefarious  
17 cartel creating changes in gross list prices or it could  
18 simply be that gross list prices were being flexed for  
19 commercial reasons?

20 A. Yes.

21 Q. So could we go to page 38, please, {E/IC10/38}? This is  
22 him, under the heading "Calculation of the pass-through  
23 rate", explaining what he is doing in order to carry out  
24 that analysis that he set out.

25 "As a first step, I calculate the average change in

1 transaction prices before and after a list price change  
2 episode. As already mentioned in the previous  
3 subsection, in order to avoid composition errors induced  
4 by options, I focus here on the list prices (and the  
5 transaction prices) of the chassis component of each  
6 basic specification."

7 He says:

8 "I consider all basic specifications sold by DAF."

9 Then he says:

10 "I calculate the average transaction price across  
11 trucks associated with the same basic specification and  
12 at the same level of the chassis component."

13 Then he explains:

14 "The average transaction price ... is therefore the  
15 change of the average transaction price before and after  
16 the list price changes. The change is expressed as  
17 percentage of the average transaction price in the  
18 previous period."

19 So you understand here what he is doing in terms of  
20 his analysis of transaction price changes, do you not?

21 A. Yes.

22 Q. If we then just go on to figure 8, just below 5.20 --  
23 that is page 42, {E/IC10/42} -- here is a sort of  
24 summary of the results of the first step in  
25 Professor Neven's analysis. What we are seeing here is

1 the dispersion of what he calls "the pass-through rate  
2 in the UK". When he says "pass-through rate", that is  
3 the extent to which a gross list price change is passed  
4 through to a transaction price. That is correct, is it  
5 not?

6 A. Yes.

7 Q. On this we see some blue bars with some circles in the  
8 blue bar, and we can see that explained at the bottom of  
9 the table, where it says that the blue bar is covering  
10 the 5th to 95th percentile range of the distribution and  
11 the circle dot is the weighted average. I just want to  
12 focus on the circle dot. So this is the weighted  
13 average pass-through of gross list price change into  
14 transaction price change. You understand that is what  
15 this is showing?

16 A. Yes.

17 Q. You will see a line, a horizontal dotted line, that by  
18 reference to the left-hand scale is dotting at 100%. So  
19 what that dotted line is showing is that, if you had  
20 a 3% gross list price increase, then if the weighted  
21 average transaction price in the relevant period went up  
22 by the same amount, the same percentage, then that would  
23 be 100% pass-through and the weighted average  
24 transaction price circle would be on that line. You  
25 understand that?

1 A. Yes.

2 Q. If, for example, we have a situation that Mr Ashworth  
3 talked about, where he gave evidence that he hoped that  
4 there would be a 50% pass-through on average, we would  
5 find the circles about halfway between 0 and 100;  
6 correct?

7 A. No, I do not think so.

8 Q. If Mr Ashworth was talking about the pass-through on  
9 average being 50% of any gross list price increase into  
10 a transaction price increase, that would be translated  
11 into a weighted average increase of 50%, would it not?

12 A. No, not under this method. The reason is that  
13 Mr Ashworth -- I think what you are saying is that  
14 Mr Ashworth said that when he spoke about, say, a 5%  
15 list price increase and the expectation that would give  
16 rise to a 2.5% increase in net prices, that is his  
17 expectation of what will happen. What that sort of has  
18 I think as an assumption is that nothing else will  
19 change, there is no other reason for the pass-through  
20 rates to -- sorry, the net price to change. What this  
21 chart is showing is what in fact happens after the event  
22 that takes account of both the impact of the list price  
23 change and potentially the impact of any other factors  
24 that led to a net price change.

25 Q. Let me just try again. Here you have a situation where

1           you are looking at list price changes and transaction  
2           price changes. That is what we are dealing with. Now,  
3           if Mr Ashworth was successful in moving 50% of the list  
4           price increase he saw into a 50% increase in transaction  
5           prices, you would see the relevant weighted average  
6           circle being at halfway between 100 and 0, all other  
7           things being equal; correct?

8           A. Yes, all other things being equal.

9           Q. All other things being equal. I just want to look at  
10          what is actually shown here. What we see is that -- we  
11          will see along the bottom -- it is quite hard to read.  
12          I do not know if we can slightly expand this table.  
13          That is brilliant. Thank you.

14                 You see along the bottom dates, 1997, q1, q2, q3,  
15                 q4, and you see that it is a date range going from 1997  
16                 to q3, 2010.

17          A. Yes.

18          Q. So if we could just focus back in slightly so we can see  
19          the full table. Thank you.

20                 So the first bar we see is that in 1997 -- what is  
21                 identified by the data is that the pass-through from  
22                 gross list price increase that occurred in 1997, a gross  
23                 list price increase event in 1997, actually did not  
24                 translate or is not linked to any increase in weighted  
25                 average transaction prices at all. In fact, what is



1 identified in the data is a fall in transaction prices,  
2 and you accept that is a correct representation of the  
3 data?

4 A. Yes.

5 Q. Then in 1998 we actually see that, in relation to the  
6 gross list price increase event, the transaction price  
7 is -- pass-through is actually negative, so that is  
8 showing that the transaction price is falling when the  
9 gross list price is increasing; correct?

10 A. Yes.

11 Q. The same is then true in relation to 1999 and 2000, and  
12 in fact we see negative changes or zero changes all the  
13 way through effectively to 2005, when we see a 50%  
14 weighted average pass-through; correct?

15 A. Yes, but none of these dots tell me where the dots  
16 should have been without the list price agreement.

17 Q. So your point is that, absent the agreement, you cannot  
18 tell anything from this material. But I think what  
19 I had been suggesting to you is that -- and I think you  
20 accepted -- that Professor Neven is working on the basis  
21 that he is analysing the extent of transaction price  
22 changes by reference to list price changes, even  
23 assuming that there is some kind of cartel operating and  
24 dealing with gross list prices; correct?

25 A. That is right, but I think there is a slightly

1 different -- there is a different point, which is what  
2 we do not know from this chart is where those blue  
3 circles would have been with a different list price  
4 change. That is what you cannot tell from this chart.

5 Q. I see. So let us just be clear. Your hypothesis is  
6 there is unlawful information exchange or agreement in  
7 relation to gross list prices that means that gross list  
8 price changes are higher in the actual world than they  
9 would have been in the counterfactual world; correct?

10 A. Not necessarily. I think within my theory of harm all  
11 that you require is that one of the other competitors  
12 believed that your net prices would be higher as  
13 a consequence of the list price exchange.

14 Q. Well, let us just take a step back. So it is no part of  
15 your theory of harm that in fact DAF's gross list prices  
16 would be higher than in the counterfactual world; is  
17 that what you are saying?

18 A. No, I am not saying that, but it is not a requirement.  
19 All we need to believe is that, in exchanging the  
20 information, the competitors would think that DAF  
21 intends to price its trucks higher than they would have  
22 otherwise believed.

23 Q. But in relation to the pass-through analysis here, what  
24 we are seeing is that increases -- so changes in gross  
25 list prices do not result in changes in transaction

1 prices. That is correct, is it not?

2 A. In the factual, yes.

3 Q. In the factual, and what we are actually seeing is that,  
4 even though gross list prices were being increased --  
5 and I can take you back to Professor Neven's selection  
6 of the points of increase which I think you are aware  
7 of -- that in relation to each of those increases, you  
8 are not seeing an increase in transaction prices in any  
9 part of this period; correct?

10 A. Well, I think we should look at the evidence that is  
11 referred to.

12 Q. Certainly. Let us go back to page 37, figure 5,  
13 {E/IC10/37}.

14 THE EPE OPERATOR: That figure is confidential.

15 MR BEARD: I think it is better if we just look at it in  
16 hard copy in those circumstances. We will need it off  
17 the screen. The only difficulty is the tribunal needs  
18 to see --

19 THE CHAIRMAN: I am looking at it.

20 MR BEARD: Are you able to click back on your screen?

21 Sorry, you have it?

22 THE CHAIRMAN: I have it.

23 MR BEARD: What you should have is a headed figure 5,  
24 a table entitled, "Share of basic specifications  
25 affected by a change in list price over the total number

1 of specifications sold each quarter in the UK".

2 So what we see there in the coloured boxes at the  
3 bottom as a key are orange, "Generalized", light  
4 blue, "Partial", and dark blue, "Generic". If we go  
5 back to the preceding paragraph, 5.12, what you see  
6 there is an explanation of the different categories that  
7 are being defined by colour. Do you see that? Under  
8 5.12(a), (i) through to (iii), {E/IC10/36}, you will  
9 see:

10 "Quarters in which ... prices have changed for all  
11 basic specifications [of trucks] ..."

12 So that is referred to as a "generalised catalogue  
13 price change", so that is a generalised list price  
14 increase. Do you see that?

15 A. Yes.

16 Q. Yes. So that is price list changes for all  
17 specifications. Then (ii):

18 "Quarters in which list prices have been  
19 systematically changed only for a subset of all basic  
20 specifications ..."

21 So these are partial changes in list prices. So not  
22 all basic specification trucks have been subject to  
23 a list price increase in the particular period where  
24 there is a light blue bar, but a substantial quantity  
25 have, which is what the representation across the

1 plot -- the X axis on the graph shows proportion of  
2 changes.

3 So you can see orange is all basic specifications,  
4 light blue is substantial numbers and then other  
5 quarters are labelled "generic quarters".

6 So you know, Mr Harvey, that what was being done  
7 here by Professor Neven was taking these key general  
8 price changes, the partial changes and the generalised  
9 changes -- so this is when basic specifications of  
10 trucks were subject to list price changes -- and looking  
11 at the extent to which those changes passed through.

12 You understand that?

13 A. Yes.

14 Q. So what we could actually do is correlate the  
15 light blues and oranges with the bars we saw on figure 8  
16 with a couple of exceptions. You understand that?

17 A. Yes.

18 Q. Yes. So that is the way -- for the benefit of the  
19 tribunal, what is being done here is identifying periods  
20 where there was substantial changes in list price on  
21 basic specifications of trucks and then looking at how  
22 that had an impact on transaction prices.

23 THE CHAIRMAN: You are excluding the dark blue?

24 MR BEARD: Yes, because they are not dealing with basic  
25 specifications.

1 THE CHAIRMAN: Yes.

2 MR BEARD: That is why. I think that is understood by  
3 Mr Harvey. Mr Ward may of course cross-examine  
4 Professor Neven in relation to the modalities of this,  
5 but I am just -- I think there is not in fact, from  
6 Mr Harvey's answers, a dispute about the data that is  
7 being identified here.

8 If we now go back then to what is on the screen and  
9 figure 8, what we see are these weighted average  
10 transaction prices -- changes, I am sorry, the weighted  
11 average changes, and in the blue bar the dispersion of  
12 individual transactions. We see there is a wide  
13 dispersion and we will come back to that.

14 But you understand what Professor Neven was doing  
15 here was identifying the list price for the chassis for  
16 each basic specification; correct?

17 A. Yes.

18 Q. Then he was looking at the price for the chassis  
19 actually purchased; is that correct?

20 A. Well, my understanding is that Professor Neven has  
21 I think constructed the list price and the transaction  
22 price for the basic specification.

23 Q. You understand the way he has done that; is that what  
24 you said?

25 A. Yes.

- 1 Q. So what we are talking about in relation to basic  
2 specification are the core components common to each  
3 truck?
- 4 A. Yes, that is right, but they are not the trucks that  
5 customers necessarily bought or the price that they paid  
6 for them.
- 7 Q. For the truck as a whole?
- 8 A. Yes, because Professor Neven has stripped out some  
9 elements of the price, both the list price and the net  
10 price, so it is not what the customer actually paid.
- 11 Q. So just to run through a little bit more detail of how  
12 it is done, you understand that Professor Neven and his  
13 team calculated a chassis transaction price for each  
14 individual truck; correct?
- 15 A. Well, Professor Neven has defined what the chassis  
16 transaction price is and then calculated that.
- 17 Q. Do you understand how he assessed that chassis  
18 transaction price?
- 19 A. Broadly speaking, I think that he has removed the  
20 elements of the actual chassis that was purchased, the  
21 list price associated with those, to end up with a truck  
22 that is what was actually purchased minus some extra  
23 bits that was purchased at the time.
- 24 Q. Well, just to be clear, he is taking out effectively  
25 elements from the truck that would be options that would

1 mean you were not comparing apples and apples when you  
2 were carrying out this analysis. That is broadly what  
3 he is seeking to do, is it not?

4 A. Yes.

5 Q. You accept that trying to do an apples and apples  
6 analysis here is the relevant comparison you need to  
7 carry out?

8 A. It is, yes.

9 Q. Here what we are seeing is that -- using an apples and  
10 apples comparison of different trucks, what we are  
11 seeing is no pass-through in relation to the list price  
12 of the chassis, the basic specification, as compared  
13 with the transaction price on a weighted average basis;  
14 correct?

15 A. No, I do not think that is correct, and the reason it is  
16 not correct is what I went back to earlier, which was  
17 that what you actually need to know is what the net  
18 price would have done without that change or in  
19 a different change. That is not what these charts are  
20 showing.

21 Q. I am asking you about the factual situation here because  
22 what I am interested in assessing is whether, on the  
23 data available to us, what we see is a pass-through from  
24 gross list prices into transaction prices, whatever the  
25 cause of the gross list price change, and what this



1 evidence shows is that there is no basis for you saying  
2 that there is in the real world any pass-through from  
3 gross list prices into transaction prices when there are  
4 changes. That is correct, is it not?

5 A. No.

6 Q. But what we are dealing with here is the list price of  
7 the chassis component which is actually observed;  
8 correct?

9 A. Yes.

10 Q. We are talking about the transaction price of that  
11 chassis component which has been assessed and we are  
12 looking at situations where that list price of the  
13 chassis component has increased; correct?

14 A. Correct.

15 Q. The list price of the chassis component has increased  
16 but the transaction price of the chassis component has  
17 not increased in the real world. That is correct, is it  
18 not?

19 A. In the factual, yes.

20 Q. So in the factual world, in the real world where we  
21 observe list price increases, we do not observe  
22 a pass-through of those list price increases into  
23 transaction prices. That is correct, is it not?

24 A. On the basis of this analysis, yes. There are other  
25 analyses that suggest otherwise.

1 Q. You have done no analysis of pass-through of gross list  
2 prices into transaction prices, have you, Mr Harvey?

3 A. We -- I have examined the relationship between list  
4 prices and transaction prices as shown in the kebab  
5 diagram.

6 Q. No, Mr Harvey, that diagram, as we identified at the  
7 start, does not look at changes, does it --

8 A. That is correct.

9 Q. -- whereas what this does is it looks at changes in list  
10 prices and changes in transaction prices; correct?

11 A. Yes, it does.

12 Q. So when you said in your report that there was strong  
13 evidence of there being -- or that you set out evidence  
14 of there being a strong relationship between DAF's  
15 changes in list prices and net prices, the kebab reports  
16 do not show that -- the kebab diagrams do not show that,  
17 do they, because they do not deal with changes?

18 A. No, they deal with levels, that is correct.

19 Q. Instead we have clear evidence here that in fact there  
20 is not a strong relationship between DAF's actual  
21 changes in list prices and the transaction prices for  
22 DAF's trucks. That is correct too, is it not?

23 A. It shows in the factual that there is not  
24 a relationship. It does not tell us what that line or  
25 those dots would have looked like in the counterfactual.

1 Q. I understand you want to go to the counterfactual. I am  
2 just sticking with the real world. I am dealing with  
3 the statement you made. You say that you set out  
4 evidence of there being a strong relationship between  
5 DAF's changes -- and you mean their actual changes in  
6 list prices, do you not?

7 A. Yes.

8 Q. -- and its net prices -- by which you mean its actual  
9 transaction prices, do you not?

10 A. Yes.

11 Q. -- and that evidence does not exist, does it, Mr Harvey?

12 A. In terms of changes, no.

13 Q. No, and instead what we have is evidence to the  
14 contrary, that in the real world gross list price  
15 changes for DAF Trucks did not pass through into  
16 transaction price changes. That is the situation, is it  
17 not, Mr Harvey?

18 A. No, it is not.

19 Q. I will be coming back further to these issues in due  
20 course, but I put the points to you, Mr Harvey.

21 Now, I want to just, before I go on to deal with  
22 some of the theories of harm, go back to the points that  
23 we touched on to begin with in relation to the nature of  
24 the theories of harm that you are dealing with.

25 I think it is right, is it not, that you recognise

1           that Professor Neven's report analyses at least in part  
2           the plausibility of the theory that the infringement led  
3           to coordination on transaction prices?

4           A. Yes.

5           Q. So that is within an economic framework of coordination;  
6           correct?

7           A. Yes.

8           Q. Your theory of harm does not involve coordination in  
9           respect of transaction prices, does it?

10          A. No, it does involve coordination, yes, because that is  
11          what we are considering.

12          Q. It does involve coordination of transaction prices?

13          A. No, it involves coordination.

14          Q. So I will just put the question again. Your theory of  
15          harm does not involve coordination with respect to  
16          transaction prices, does it?

17          A. No.

18          Q. But let us just see if there is any common ground on  
19          these issues between you and Professor Neven on a couple  
20          of basic points.

21                 You agree, I think, that the theory of harm being  
22                 put forward by Professor Neven and explored in his  
23                 report, that is a theory of harm based on coordination  
24                 which is grounded in economic literature. You accept  
25                 that, do you not?

- 1 A. Yes, it is a standard economic theory.
- 2 Q. Yes. You also agree that any theory of harm that is  
3 being developed requires consideration of two problems  
4 that Professor Neven referred to: the agreement problem  
5 and the implementation problem? You accept that?
- 6 A. Yes, provided that you are seeking to analyse a theory  
7 of harm that has at its heart agreeing over net prices.
- 8 Q. So if there is no element of agreement in theory of  
9 harm, you are saying there need not be any agreement  
10 problem; correct?
- 11 A. Yes.
- 12 Q. If your theory of harm does not involve any agreement,  
13 are you saying that the implementation problem also does  
14 not arise?
- 15 A. No, I am not saying that. It is of a different nature.
- 16 Q. So we accept that the implementation problem, which is  
17 the idea that even if on the face of it a particular  
18 change in strategy or pricing by a company might look  
19 like it could be beneficial to them, the problem is that  
20 other people might cheat and undermine the supposed  
21 benefits of that strategy or pricing; correct?
- 22 A. No, it is slightly different to that because, without an  
23 agreement, you do not have a cheating problem but you do  
24 need to evaluate whether the commercial behaviour that  
25 you are entering into, ie the exchange, is to your

1 benefit. So this is why I say it is a slightly  
2 different nature of problem.

3 Q. But when you are assessing on the basis that you put  
4 forward as to whether or not it is to your benefit, what  
5 you are concerned about is how other people might react  
6 to it and whether or not essentially a stable  
7 equilibrium position can be reached between you in the  
8 market; is that right?

9 A. Yes.

10 Q. We will come on to it but what we are actually looking  
11 for is what I think is referred to as a "Nash  
12 equilibrium"; is that fair?

13 A. Yes.

14 Q. A Nash equilibrium, as I understand it -- and I am not  
15 going to pretend anything other than I have looked this  
16 up -- but a Nash equilibrium is an equilibrium in  
17 a strategic game -- so you have a number of stages in  
18 a strategic game potentially; correct?

19 A. Correct.

20 Q. -- and a Nash equilibrium is reached where neither party  
21 can improve its position if the other party does not  
22 shift its stance; is that right?

23 A. That is correct.

24 Q. So in simple non-economist terms, it is a stable state  
25 in a multi-stage game. Is that a fair summary?

1 A. Yes.

2 Q. So what we are looking for in relation to any theory of  
3 harm, coordination or non-coordination, is a theory of  
4 harm using economic analysis that will establish  
5 a stable state because otherwise rational operators will  
6 shift their positions; is that correct?

7 A. Yes.

8 Q. So just for completeness on coordination issues, you are  
9 not putting forward an account that involves  
10 coordination in relation to transaction prices but as  
11 a general proposition I think you agree that  
12 coordination in relation to any matter requires firms to  
13 align on an objective for that coordination; correct?

14 A. No.

15 Q. Sorry, you can have coordination without an alignment of  
16 objective?

17 A. So if you are seeking to agree transaction prices  
18 through the coordination, then obviously you need to  
19 align. If, though, the coordination is changing your  
20 beliefs about what the other player will do, so you are  
21 still coordinating in the way that we have described but  
22 you are not seeking to reach an agreement, that does not  
23 require an alignment of objectives.

24 Q. So you are saying that all of the players could have  
25 completely different objectives but could still reach

- 1 a coordinated solution in those circumstances?
- 2 A. I am saying that they could reach a different decision  
3 on the prices that they had set in the market through  
4 the coordination.
- 5 Q. I am sorry, I am not sure I understand that. The  
6 question I asked you is whether or not the different  
7 players could have different objectives but could still  
8 reach a coordinated solution. Is that "Yes" or "No" to  
9 that question?
- 10 A. If you define a coordinated solution as agreeing on net  
11 prices, then they need to have common objectives.
- 12 Q. Yes.
- 13 A. If they are not seeking to agree net prices, then they  
14 need to have a common objective, which is to maximise  
15 their profits. They do not have to agree on what price  
16 they are setting.
- 17 Q. So you are saying that in relation to certain forms of  
18 coordination, an objective of obtaining higher profits  
19 is a sufficient objective for coordination?
- 20 A. For coordination to give rise to players making  
21 a different pricing decision compared to the one that  
22 they would have made, yes.
- 23 Q. We will come back to, possibly after the short  
24 adjournment -- when you talk about a different solution,  
25 you are talking there about the possibility of higher



1 prices or lower prices; correct?

2 A. Yes, in theory.

3 MR BEARD: Yes.

4 I am about to move on to another topic where I think  
5 there are a number of questions that will flow and,  
6 given two or three minutes, it is probably better just  
7 to pause there.

8 THE CHAIRMAN: All right. We will resume at 2 o'clock.

9 Mr Harvey, I am sure you are well aware that you are  
10 not meant to talk about your evidence.

11 A. Yes.

12 THE CHAIRMAN: You must not talk about your evidence over  
13 the lunch adjournment.

14 A. There are not many people queuing up!

15 THE CHAIRMAN: All right. We will resume at 2 o'clock.

16 (12.57 pm)

17 (The short adjournment)

18 (2.02 pm)

19 MR BEARD: Mr Harvey, good afternoon.

20 I am going to move on to an academic paper you refer  
21 to in your report -- in your first report, in fact.

22 I think you refer to it again and a later version of it  
23 but I am just going to refer to the first one you have.

24 Just so you have the reference, it is {E/IC1/38} -- just  
25 so you have the reference. That is paragraph 2.46.

1 This is a reference to Professor Harrington's report and  
2 it is a paper from 2020 by Professor Harrington that  
3 I just want to take you to. The paper itself is in the  
4 bundle at {I4/289} and you probably have it in that  
5 bundle. I think it is the second tab in your hard copy  
6 bundle. Do you have it, Mr Harvey?

7 A. Yes.

8 Q. Thank you. Sorry, I only paused because of course nods  
9 do not come out on the transcript.

10 As I say, you do cite a later version of that from  
11 2021 by Professor Harrington but it is broadly the same  
12 approach being adopted in both papers; correct?

13 A. Yes.

14 Q. Can I just pick it up at the bottom of page 2,  
15 {I4/289/2}? It says:

16 "The EU is less tolerant than the US when it comes  
17 to ... sharing prices. The European Commission has  
18 taken the position that 'mere attendance at a meeting  
19 where an undertaking discloses its confidential pricing  
20 plans to its competitors is likely to be caught by  
21 Article 101(1)'. This view has been put into their  
22 guidelines which state: 'information exchange can  
23 constitute a concerted practice if it reduces strategic  
24 uncertainty ... because it reduces the independence of  
25 competitors' conduct and diminishes their incentives to

1           compete'."

2           Then you will see at 6 you have got a reference to  
3           the European Commission "Guidelines on the Applicability  
4           of Article 101 of the Treaty [TFU] ... to Horizontal  
5           Co-operation Agreements". You are familiar with that  
6           document in the footnotes?

7           A. Yes.

8           Q. But you do not refer to it anywhere in your reports,  
9           do you?

10          A. No.

11          Q. Can we just go to those guidelines for a moment? I am  
12          just going to divert from -- I am coming back to  
13          Harrington, but just go to the guidelines. They are at  
14          {AU/2.17/13}. So this is within the document that is  
15          those guidelines, page 13, and it is under the heading  
16          "General Principles on the Competitive Assessment of  
17          Information Exchange".

18          If we go over the page to paragraph 61,  
19          {AU/2.17/14}, we will actually see the bit that  
20          Professor Harrington quoted at the bottom of 61. He  
21          misses out the "Hence" but:

22          "... information exchange can constitute a concerted  
23          practice if it reduces strategic uncertainty in the  
24          market ..."

25          The ellipsis was "thereby facilitating collusion".

1 He had missed that bit out.

2 "... that is to say, if the data exchanged is  
3 strategic."

4 So that is the bit he is quoting. You are aware of  
5 that?

6 A. Yes.

7 Q. If we go over the page again in these guidelines,  
8 {AU/2.17/15}, we see under 2.2, this is "Assessment  
9 under Article 101(1)", so this is all within that  
10 section on information exchange. You will see at 64 it  
11 says:

12 "Once it has been established that there is an  
13 agreement, concerted practice or decision by an  
14 association of undertakings ..."

15 I am not going to ask you questions about law but  
16 you know those are the basic criteria used in  
17 Article 101?

18 A. Yes.

19 Q. "... it is necessary to consider the main competition  
20 concerns pertaining to information exchanges."

21 Then it has two headings on this page. The first is  
22 "Collusive outcome" and then, if we scroll down, we are  
23 in the territory of "Anti-competitive foreclosure".

24 I think we can leave aside anti-competitive foreclosure  
25 for today. That is not what we are talking about.

1 Agree, Mr Harvey?

2 A. I agree.

3 Q. So can we go back up to "Collusive outcome"? This is  
4 65. It says:

5 "By artificially increasing transparency in the  
6 market, the exchange of strategic information can  
7 facilitate coordination (that is to say alignment) of  
8 companies' competitive behaviour and result in  
9 restrictive effects on competition. This can occur  
10 through different channels."

11 So the concern that has been articulated here is  
12 that the exchange of strategic information can enable  
13 alignment of competitive behaviour. That is the  
14 principal concern that is being identified here;  
15 correct?

16 A. Yes.

17 Q. When it talks about competitive behaviour, it is there  
18 talking about the behaviour that actually companies are  
19 competing to win business. You understand that, do you  
20 not?

21 A. Yes.

22 Q. So what it is talking about is the alignment of  
23 competitive offerings by companies, is it not?

24 A. Yes.

25 Q. So what it is there talking about is coordination of

- 1 competitive offerings, is it not?
- 2 A. Yes, but I think the concern here is the collusive  
3 outcome that arises because of coordination.
- 4 Q. Well, we can deal with that in due course. I am just  
5 asking you about this particular phraseology. What it  
6 is is coordination of the companies' competitive  
7 behaviour, and I think you accept there that what we are  
8 talking about is their behaviour in winning customers  
9 being allied(?). If we translate that across to our  
10 current situation, the primary concern that this  
11 economic framework is talking about is a concern about  
12 what we would call coordination of transaction prices,  
13 is it not?
- 14 A. I think this can include coordination of transaction  
15 prices but not exclusively. It could include other  
16 forms of coordination including product development and  
17 so on.
- 18 Q. It could include product development, but the primary  
19 focus that is being articulated here is coordination of  
20 competitive behaviour and, in this context, we are  
21 talking about coordination of transaction prices being  
22 the pricing equivalent in the context of this market;  
23 correct?
- 24 A. Well, as I say, I think this is broader than just  
25 pricing behaviour. It is --

- 1 Q. It is broader than pricing behaviour, I accept --
- 2 A. Yes.
- 3 Q. -- but if we are talking about pricing behaviour and we  
4 are asking about what the main focus of this analysis is  
5 translated to the current market, we are talking about  
6 coordination of transaction prices, are we not?
- 7 A. In the context of pricing behaviour, yes.
- 8 Q. Let us go back to the Harrington paper, if I may. So  
9 just staying on the bottom of page 2, {I4/289/2}, it  
10 says:
- 11 "The lack of a well-accepted treatment of the  
12 sharing of prices is at least partly due to the absence  
13 of a well-established theory of harm. This missing  
14 theory of harm is exemplified by the EU's view that the  
15 exchange of prices is potentially harmful because it  
16 'reduces strategic uncertainty'."
- 17 Now, the observation that Professor Harrington is  
18 making here is that actually the economic world lacks  
19 a well-established theory of harm dealing with the  
20 potential adverse effects of sharing prices. That is  
21 what he is saying here, is he not?
- 22 A. Yes, I think so.
- 23 Q. Then over the page, {I4/289/3}, he goes to, as he says,  
24 reducing strategic uncertainty. Then I think -- but  
25 I do not know whether you agree with this:

1            "... there is no theoretical or empirical bases upon  
2            which to conclude that less 'strategic uncertainty'  
3            among firms implies higher prices for consumers."

4            You accept that, I think, Mr Harvey?

5            A. In the broadest terms, yes, but I think what  
6            Professor Harrington is trying to explain here is that  
7            the intuition that people typically use to explain why  
8            this has an effect, that is if I exchange prices with  
9            you, that gives you essentially a heads-up as to what  
10           I am going to do next, that is the reduction of  
11           strategic uncertainty and that could lead to price  
12           increases. That intuition is well established in  
13           economic theory. The gap that Professor Harrington is  
14           trying to fill here is to put it into a formal economic  
15           modelled framework.

16           Q. Well, let us just unpick that slightly, shall we? He  
17           says:

18           "... there is no theoretical or empirical bases upon  
19           which to conclude that less 'strategic uncertainty'  
20           among firms implies higher prices for consumers."

21           What he is saying is that if you exchange  
22           information that reduces strategic uncertainty, that  
23           does not imply higher prices for consumers or, more  
24           exactly, there is no theoretical or empirical basis to  
25           infer that. That is what he is saying, is he not?



1 A. He is saying that it is not inevitable.

2 Q. No, that is not what he is saying, Mr Harvey. That is  
3 a misreading of that.

4 "... there is no theoretical or empirical bases upon  
5 which to conclude that less 'strategic uncertainty'  
6 among firms implies higher prices for consumers."

7 He is saying there are no bases for concluding that  
8 if an exchange of information results in less strategic  
9 uncertainty, there is any implication of higher prices  
10 for consumers. That is straightforwardly what he is  
11 saying here, is it not?

12 A. Yes.

13 Q. So the point he is making is that reducing strategic  
14 uncertainty amongst firms can have two effects. One is  
15 possibly it might result in higher prices, but, equally,  
16 they might take that information and use it against one  
17 another, might they not, Mr Harvey?

18 A. They might, but then you would question why they would  
19 carry on exchanging the information.

20 Q. Well, you may, Mr Harvey, and people may ask that  
21 question, but this is an analysis of the economic  
22 framework, and what the academic you have relied upon  
23 and referred to says is there is no theoretical or  
24 empirical basis for concluding that there is any  
25 implication of higher prices from a reduction in

1           strategic uncertainty, and you are not disagreeing with  
2           that, are you?

3           A. I think if we take a step back for a moment, what very  
4           basic economics says is that firms engage in behaviour  
5           when it is profitable to do so. That is what it says.  
6           In this case the firms exchange this information for  
7           a long period of time and in this case we do not have  
8           any other alternative explanation for why they did that.  
9           So I do not think it is a large analytical jump to  
10          conclude that in this case the exchange of information  
11          was profitable without pro-competitive rationale.

12          Q. I see. So your story is here that Professor Harrington  
13          is wrong in making his statement. There is  
14          a theoretical basis on which to conclude that  
15          a reduction of strategic uncertainty through this  
16          infringement does imply higher prices for consumers  
17          because it went on for a while. Is that your position?

18          A. No, not quite. My position is that economic theory says  
19          that firms will engage in behaviour when it is  
20          profitable to do so and what I am saying is that,  
21          without a story about why they are doing it, we do not  
22          have a pro-competitive story for why they did it.

23          Q. So let us just be clear here. If, for example, you saw  
24          that a truck manufacturer increased its market share  
25          over time so that there would be a benefit to it, then

- 1           you would see that as a pro-competitive basis,  
2           would you?
- 3       A. No, not necessarily. I think in this case the truck  
4           manufacturers exchanged commercially sensitive  
5           information. The question becomes, "What was the  
6           rationale for that in economic theory?", and the  
7           rationale would be: because it was profitable to do so.  
8           Now, I am not saying that there are no other possible  
9           explanations as to why they did it, but I do not think  
10          that conflicts with the fundamental economic theory.
- 11       Q. Well, let us just be clear on two points.  
12           Professor Harrington is not qualifying his statement by  
13           the longevity of any exchanges in relation to the  
14           reduction of strategic uncertainty, is he?
- 15       A. No.
- 16       Q. He is saying there is no theoretical or empirical basis  
17           for implying high prices by a reduction in strategic  
18           uncertainty, is he not?
- 19       A. In the broadest terms, yes.
- 20       Q. He is. When you talk about a rationale for entities  
21           doing things, are you saying that the rationale, the  
22           basis on which people do things, immediately translates  
23           into a theory of harm, Mr Harvey? They can be  
24           different, can they not?
- 25       A. They can, yes.

1 Q. Yes. So what he is talking about here is, aside from  
2 coordination, there is no well-established economic  
3 theory of harm about how sharing price information,  
4 which would reduce strategic uncertainty, actually  
5 results in higher prices for consumers, aside from  
6 coordination. That is what he is saying, is it not?

7 A. Yes.

8 Q. So what he is then going on -- if we go over the page,  
9 if we may, {I4/289/4}. Sorry, I have just lost my  
10 reference here. Give me one moment, Mr Harvey.

11 THE CHAIRMAN: Whilst you are doing that, can I just ask one  
12 question about that sentence?

13 MR BEARD: Of course.

14 THE CHAIRMAN: Mr Harvey, it says "strategic uncertainty",  
15 {I4/289/3}, in quotation marks. What do you understand  
16 he meant by using --

17 A. I think this is their beliefs about what their rivals  
18 will do in the future. That is how I interpreted it.  
19 So --

20 THE CHAIRMAN: Why is Professor Harrington using quotation  
21 marks around "strategic uncertainty"?

22 A. Oh, I see. I think this is a reference to the  
23 Commission guidelines that refer to strategic  
24 uncertainty but do not necessarily develop what that  
25 means. So I think sort of what he is trying to do here

1 is to give an economic meaning to the phrase "strategic  
2 uncertainty" and I think that is why it is in  
3 quotations. That was my interpretation.

4 MR BEARD: If we just move on to the next paragraph,  
5 {I4/289/3}, he says:

6 "The relevance of information exchanges regarding  
7 prices is [he says] exemplified by the recent trucks  
8 cartel case in the EU. It was documented that  
9 executives of truck manufacturers regularly met and  
10 shared gross list prices."

11 Then he describes gross list prices. So what he is  
12 saying here is that there is no economic theory of harm  
13 in relation to this sort of price sharing that is  
14 exemplified in the trucks cartel case. That is what he  
15 is setting out here. I know he is going on in a project  
16 to embark on exploring it, but that is what he is saying  
17 here, is it not?

18 A. Yes, in relation to the list prices, yes.

19 Q. Well, he is focusing in particular on list prices but  
20 actually he is talking about all the strategic  
21 uncertainty which you have just helpfully given your  
22 interpretation of to the tribunal; yes?

23 A. Well, he is saying here that this is specifically  
24 focusing on list prices.

25 Q. Yes, but obviously exemplified by the recent trucks

1 cartel?

2 A. Yes. Later, when he develops the theoretical model, he  
3 is looking at list prices.

4 Q. Yes. I will come on to that.

5 I notice that he does not mention that he has  
6 actually been providing evidence in trucks cartel  
7 litigation in this paper or indeed in the later one.  
8 Do you find that surprising? I think normally  
9 economists, if they are citing a particular case like  
10 *Trucks*, as here, and they are advising on it, would  
11 disclose that. That would be the normal course,  
12 would it not, Mr Harvey?

13 A. I confess that I seem to remember him actually  
14 disclosing it.

15 Q. Ah okay. I will come back to it. We will double-check.

16 A. I cannot remember whether it was in this version or the  
17 later version.

18 THE CHAIRMAN: Do we know that for a fact, that he has been?

19 MR BEARD: We do, yes. We do not know precisely from when  
20 and I am not going to -- well, unless Mr Harvey knows  
21 the answer to whether he has been involved --

22 A. No.

23 Q. Anyway let us move on. That is another question I think  
24 I can take further with you.

25 If we just go down the page to "Motivated by these

1 issues ...", so motivated by the issues of there being  
2 a lack of economic theory of harm in relation to why  
3 strategic uncertainty might imply higher prices.

4 "Motivated by these issues, this paper addresses two  
5 questions. First, is it harmful to consumers when firms  
6 privately share their prices? Second, if it is harmful,  
7 should the sharing of prices be subject to the per se  
8 rule (by object) or rule of reason (by effect)?"

9 This is because he is an American economist talking  
10 about American anti-trust language, where they use terms  
11 like "per se" and "rule of reason".

12 A. At this point he seems to be zooming in on the price  
13 elements of the motivation.

14 Q. So:

15 "This paper develops a theory of harm associated  
16 with the sharing of prices and delivers conditions when  
17 such an information exchange raises prices."

18 A. Yes.

19 Q. Yes, so I think that is what you are referring to.

20 If we go down the page, he looks or sets out or  
21 outlines the conditions that he puts in place or  
22 specifies certain of the conditions -- we will come back  
23 to some others later -- certain of the conditions that  
24 he applies in relation to his theory. You see that,  
25 bottom of the page, last two lines:

1           "The first feature is that firms (or, more  
2 specifically, their executives) are not sharing  
3 transaction prices."

4           So he is saying that this is not a transaction price  
5 sharing situation that he is trying to model. That is  
6 correct, is it not?

7       A. Yes.

8       Q. Then he says:

9           "They are sharing prices which may ultimately affect  
10 the prices that consumers pay but are not necessarily  
11 the final prices that will be put before consumers."

12          I will come back to this a little more in a bit, but  
13 he says, {I4/289/4}:

14          "In the Trucks case, manufacturers shared list  
15 prices, and list prices would be expected to affect  
16 dealer prices which would then affect the prices paid by  
17 final purchasers."

18          Now, we will come back to that, but he has clearly  
19 got a particular view about how pricing works in the  
20 trucks market. You understand that?

21       A. Yes, his view is that the list prices can affect the  
22 final prices.

23       Q. He is going a bit further than that, but we will come  
24 back to it, because he is talking about what the chain  
25 of causation in relation to pricing is here. That is



1           what he is saying in that sentence, is it not?

2           A. Yes, he is saying that there is a causal connection  
3           between the sharing of list prices and what final prices  
4           are paid.

5           Q. No, he is doing more than that, Mr Harvey. He is  
6           saying:

7                     "... list prices would be expected to affect dealer  
8           prices which would then affect the prices paid by final  
9           purchasers."

10                    So he is putting a causal route in, is he not?

11           A. Yes, I suppose he is, yes.

12           Q. If we go halfway down that paragraph, it says:

13                     "The second feature is that the executives who are  
14           sharing prices may be able to influence transaction  
15           prices but do not have full control over them."

16                    That is just part of the assumptions he is making in  
17           relation to the modelling. Again we will come back to  
18           it, but that is the second key condition, is it not?

19           A. Yes.

20           Q. If we go down to the next paragraph, just setting out  
21           how this modelling works a bit more, he says:

22                     "The way those two features are encompassed in  
23           a formal model is stylised but [he says] the insight it  
24           yields is intuitive and robust (in the sense that it  
25           only relies on some general assumptions)."

1           Well, therein may lie some interesting questions for  
2 further on, but let us just go to the next bit:

3           "The sharing of prices by firms is captured with  
4 a two-stage structure. Firms first choose prices and  
5 then, after sharing those prices, can change the price  
6 at some cost."

7           So that is how he is looking at the first part of  
8 this process. Do you understand what he is suggesting  
9 here is a choice of list prices that are then shared and  
10 then they can be changed but only at some cost to the  
11 business that has put forward those prices? That is  
12 correct, is it not?

13       A. Yes, but what I think he is trying to capture here is  
14 this idea of incomplete control.

15       Q. So let us just see what he then says:

16           "To relate this structure to, for example, the  
17 *Trucks* case, suppose an executive chooses a list price.  
18 In the absence of sharing that list price with other  
19 manufacturers, that list price would lead to some final  
20 price for purchasers according to the firm's internal  
21 pricing process."

22           So that is his causal approach.

23           "When executives of truck manufacturers share their  
24 list prices, knowledge of other manufacturers' list  
25 prices may induce an executive to intervene in the

1 internal process by which the list price affects the  
2 final purchaser price."

3 So he is talking about a list price and then an  
4 intervention to change that list price potentially, but  
5 it is a cost involved; correct?

6 A. Yes, but within the framework of his model I do not  
7 think that the cost has only to be to change the list  
8 price. An intervention could involve some other form of  
9 intervention that is costly that would lead to a change  
10 in the final purchaser price.

11 Q. He certainly conflates those two stages, you are right.  
12 What he does is that he talks about the possibility of  
13 change -- intervening to change the list price or  
14 somehow intervening to change the discounts that are  
15 part of the causal process leading to the final price,  
16 you are quite right.

17 A. Yes.

18 Q. But that is on the basis of his causal linkage that he  
19 has already described, is it not?

20 A. I think it is on the basis that other manufacturers  
21 would interpret list price changes as implying  
22 aspiration to change the net price, so in that sense we  
23 are going back to the conversation we had earlier about  
24 relationships.

25 Q. No, let us just pause there. You are going back to

1 a suggestion that you made about interrelationships  
2 earlier that we will be coming back to, but  
3 Professor Harrington here is not talking about other  
4 manufacturers. What he is talking about is a process by  
5 which a manufacturer sets a list price, he shares that  
6 list price -- or it shares that list price with  
7 others --

8 A. And in that sense he is talking about other  
9 manufacturers.

10 Q. Yes, undoubtedly. But what he is talking about then is  
11 that there is a cost to him if he then wants to alter  
12 that list price in the light of the exchange of  
13 information he has had with others; correct?

14 A. Correct, yes.

15 Q. You are also correct that Professor Harrington talks  
16 about that cost either being a change of the list price  
17 or of the discounting structure for transaction prices,  
18 so he is saying that it can be either of those costs  
19 that are relevant; correct?

20 A. Yes.

21 Q. He does that because he links the list price directly to  
22 the transaction price through that causal mechanism we  
23 have outlined -- we have seen above; correct?

24 A. That is not how I interpret Professor Harrington's  
25 modelling.

1 Q. I see.

2 A. So with this type of model it is obviously necessary to  
3 make quite stylised assumptions, simplifications. What  
4 Professor Harrington is trying to capture is the idea  
5 that the list price contains information that is  
6 relevant to the other party to interpret what they might  
7 do with their net price. That is the first part.

8 The second part is cost, is around the idea that  
9 those that are exchanging information, that is giving  
10 commercially useful information to someone else, cannot  
11 immediately, after having done that, fiddle with either  
12 the list price or easily affect the transaction price.  
13 So although the mathematical model is organised in a way  
14 that says there is a connection between list prices and  
15 net prices, I do not think that is the causal route.  
16 The causal route is the belief that the list price  
17 contains useful information on net prices.

18 Q. But just to be clear -- I think you have just clarified  
19 actually a question I was going to come to, but the  
20 maths is essentially linking the list prices to the  
21 transaction prices, is it not?

22 A. Yes.

23 Q. So it is a direct causal linkage?

24 A. Within this mathematical formulation of the intuition  
25 that Professor Harrington is exploring, but what it is

1 capturing there is the idea that the list price has  
2 information about net prices.

3 Q. Well, undoubtedly that is part of the motivation that  
4 Professor Harrington has in building this model. I do  
5 not think we are disagreeing about that. Whether or not  
6 he is adequately capturing these ideas or whether or not  
7 there is a problem in relation to his model and  
8 certainly its application here is something I am going  
9 to come on to.

10 If we just move down the page, "The main finding  
11 ..." -- do you see that?

12 A. Yes.

13 Q. "The main finding is that a private information exchange  
14 of prices by competitors is harmful to consumers when  
15 the cost of adjusting price is neither too small nor too  
16 large which can be interpreted as the colluding  
17 executives having some but not full control over the  
18 final price."

19 So just pausing there, what he is saying is that  
20 there can be circumstances where the private information  
21 exchange that we are talking about can give rise to  
22 a situation where the costs of altering the list price  
23 or interfering in the transaction price in this  
24 modelling gives rise to a situation where that can be  
25 harmful to consumers. That is correct, is it not?

1 A. Yes.

2 Q. When he says "neither too small nor too large", it is  
3 slightly redolent of Goldilocks. Those costs have got  
4 to be just right in order for the conditions applying in  
5 relation to his model to obtain. That is correct, is it  
6 not?

7 A. They do need to be, yes, in between too small or too  
8 large, obviously within a theoretical model. No number  
9 is put to that.

10 Q. Well, that is something else I am going to be coming  
11 back to.

12 Just staying on that section, it says:

13 "Contrary to EU guidelines, the harm from sharing  
14 prices is not tied to reducing strategic uncertainty.  
15 Indeed, the event of sharing prices is itself not  
16 harmful in that, at the equilibrium, the prices that  
17 consumers pay are the same whether or not firms shared  
18 those prices. The harm comes from the agreement to  
19 share prices in that it is the anticipation of sharing  
20 prices that causes firms to raise the prices that will  
21 be shared, and it is that which ultimately harms  
22 consumers."

23 So he is just refining his main finding here and  
24 saying, "Well, it is not actually the sharing of prices,  
25 it is the anticipation of sharing prices that gives rise

1 to this specific window where, if the relevant costs  
2 obtain, then you could end up with harm to consumer  
3 prices"; correct?

4 A. Yes.

5 MR RIDYARD: Mr Beard, sorry to interrupt your flow but  
6 I just wanted to ask the witness about his notion of the  
7 costs of not following through or ... Can you expand on  
8 what you understand by this notion of costs? Can you  
9 make it a bit more concrete so we can understand what it  
10 is we are talking about here?

11 A. Yes. Within the model it is not actually specified, it  
12 is just a cost, but one interpretation of the cost is  
13 simply that it requires management time and effort to  
14 revisit the list prices or indeed influence the net  
15 prices that have been set. So it may be sort of shoe  
16 leather costs or it could be simply that those that are  
17 making the final pricing decisions are different from  
18 the people that are sharing the list prices and so the  
19 interaction between them could potentially be a costly  
20 or imperfect process. So I think that is sort of one  
21 interpretation of the cost.

22 The second is that -- I do not think is explicit in  
23 here, but I think it is possible -- is the fracturing of  
24 trust that might arise as a consequence of doing  
25 something different to what you said you would do in



1           that initial exchange. Neither of those things are set  
2           out explicitly in Harrington but I think that is two  
3           plausible interpretations of what he is trying to get  
4           at.

5           MR RIDYARD: Thanks.

6           MR BEARD: I was going to move on to costs so perhaps it is  
7           worth just going to page 5, {I4/289/5}. So there are  
8           a couple of further assumptions that are being  
9           identified here:

10                 "First, [that] colluding executives have a large  
11                 influence on the prices that they will be sharing."

12                 So this is the list prices. Then:

13                 "Second, after sharing prices, those executives have  
14                 limited influence when it comes to either changing  
15                 prices that were shared or influencing the internal  
16                 pricing process that translates those prices (such as  
17                 list prices) into the prices faced by consumers ..."

18                 We have touched on how the maths deals with that.  
19                 Then this may well go to the point that you were just  
20                 answering in relation to Mr Ridyard's question:

21                 "In our model, this second assumption is modelled by  
22                 assuming an executive can influence the subsequent  
23                 prices but only at a cost. This cost captures having to  
24                 go outside of standard protocol -- such as changing the  
25                 list price which the firm had already decided upon -- or

1           exerting pressure on other employees who have more  
2           authority over the subsequent pricing process -- such as  
3           sales managers who control discounts."

4           So he has actually here set out what he considers to  
5           be the likely costs that he is talking about. You  
6           understand that, Mr Harvey?

7           A. Yes, and I think this emphasises the departure from  
8           standard protocol, but it seems to me that even going  
9           through the standard protocol could be costly, and that  
10          is the shoe leather cost that I spoke about earlier.

11          Q. I will come back to that because I think we do not  
12          concur on that issue. But I am going to take the  
13          terrible risk as a lawyer of going to an equation now,  
14          if we could go to page 9 in this article, {I4/289/9}.  
15          Now, the tribunal may well be pleased that I am not  
16          going to try to work my way through all of these  
17          equations, but if I could just pick up equation --

18          THE CHAIRMAN: I was looking forward to that!

19          MR BEARD: Sir, obviously I did not want to spoil what would  
20          obviously be the entertainment for your spare time so  
21          I will just cut through.

22          So equation 4, if I may. You can see that?

23          A. Yes.

24          Q.  $\pi_1(L, H)$  minus  $\pi_1(H, H)$  is less than or equal to  $k$   
25          which is less than or equal to  $\pi_1(L, L)$  minus  $\pi_1$

- 1 (H, L). Yes?
- 2 A. Yes.
- 3 Q. You will be more familiar with the annotation than I am,  
4 but  $\pi_1$  is effectively the profit of the firm in  
5 question when the list prices that are being specified  
6 are the two prices in the brackets?
- 7 A. That is right.
- 8 Q. This is annotation I can cope with, "L" is low and "H"  
9 is high in those brackets; correct?
- 10 A. Excellent, Mr Beard. Yes.
- 11 Q. Thank you. So we are looking at the profit of the firm  
12 in circumstances where there is a low price -- a low  
13 list price and a high list price put forward by the  
14 firms in question less the profit where they both put  
15 forward high prices; correct?
- 16 A. That is right.
- 17 Q. Then that sum is less than or equal to  $k$ , and " $k$ " is  
18 this critical costs value that is being identified, is  
19 it not?
- 20 A. Yes.
- 21 Q. So when we were previously talking about the cost  
22 window, what I referred to as the "Goldilocks cost  
23 window", what you need to identify, that is what is  
24 critical to ending up in an equilibrium situation in  
25 relation to the list pricing that is offered by the two

1 firms. That is correct, is it not?

2 A. Yes.

3 Q. Actually, that is summarised at the bottom of the page,  
4 where it says that:

5 "... both firms choosing a low initial and final  
6 price is always a ..."

7 "Sub-game perfect equilibrium"; is that right?

8 A. Yes.

9 Q. "... outcome ..."

10 In other words, if both of the firms choose low  
11 initial and final list prices, then that is a stable  
12 situation; yes?

13 A. Yes.

14 Q. "If  $k$  is moderate in value, so that [equation] (4) is  
15 satisfied, then it is also a [sub-game perfect  
16 equilibrium] ... for both firms to choose a high initial  
17 and final price."

18 Correct?

19 A. Yes.

20 Q. So what is being suggested here is that actually you can  
21 have two equilibria even if you are within that cost  
22 window for  $k$ , where it is between the two profit  
23 calculations. That is what Professor Harrington is  
24 suggesting. You can have a high pricing equilibrium or  
25 a low pricing equilibrium. That is correct, is it not?

- 1 A. Yes.
- 2 Q. So on the face of it, even if you fell within that cost  
3 window,  $k$ , you still do not, even under  
4 Professor Harrington's model, have any basis for  
5 concluding that lower or higher prices would be implied  
6 in circumstances where there is an information exchange.  
7 That is correct, is it not?
- 8 A. No, and the reason for that is that, within this model,  
9 Professor Harrington then goes on to consider --
- 10 Q. Little  $z$ ?
- 11 A. Little  $z$ .
- 12 Q. Let us go to little  $z$ .
- 13 A. Let us go to little  $z$ . But it then goes on to consider  
14 the circumstances under which you would agree to share  
15 the information in the first place.
- 16 Q. Well, that is what little  $z$  is talking about. Can we go  
17 to page 10, please, {I4/289/10}?
- 18 So at the moment what equation 4 is saying is that,  
19 if you manage to fall within that cost window  $k$ , even on  
20 this model with all sorts of assumptions in it, then you  
21 could still end up with a higher price equilibrium or  
22 a lower price equilibrium. Nothing, even on  
23 Professor Harrington's model, can be concluded.
- 24 But then, as you say, we have this additional  
25 element of little  $z$ , and if we go halfway down the page:

1           "When there are two equilibria, a slight  
2 modification of the game allows us to use forward  
3 induction and weak dominance to select the equilibrium  
4 with high prices. Append the two-stage game with  
5 a stage 0 ..."

6           So you change the game and you add an additional  
7 stage; that is correct?

8       A. Yes.

9       Q. "... in which firms simultaneously decide whether or not  
10 to propose sharing prices. If one or both firms ... do  
11 not share prices then the ensuing game is the one-stage  
12 game in which they choose prices and realise profits."

13           So if they do not share prices, then they choose  
14 prices and realise profits.

15           "If both choose share prices then the ensuing game  
16 is the two-stage game in which they choose initial  
17 prices and then, after having shared those prices,  
18 decide on their final prices."

19           Then it says:

20           "Assume each firm incurs a small cost  $z$  ... when  
21 both choose share prices, perhaps due to possible  
22 litigation."

23           So here what he is saying is, if there is a small  
24 cost of sharing prices, then that is the little  $z$  being  
25 greater than 0; is that correct?

1 A. Yes.

2 Q. What we see in the remainder is actually that, if  
3 little  $z$  is greater than 0 due to cost sharing -- cost  
4 of sharing the information, then that is what  
5 effectively says that if you are within that  $k$  costs  
6 window, you will end up with the higher price  
7 equilibrium rather than the lower price equilibrium.  
8 That is correct, is it not?

9 A. Yes.

10 Q. Now, I just want to go back to one or two points in  
11 relation to the assumptions made here.

12 To be clear, in your reports you say that your  
13 theory of harm does not depend on the specific economic  
14 models developed by Professor Harrington and you say it  
15 is only one example, but when we go back to the initial  
16 analysis and the nature of the project that  
17 Professor Harrington was setting out that I took you to,  
18 is not the point that Professor Harrington is making  
19 that it is only in rather particular circumstances which  
20 he has set out in his paper that you could make any  
21 assumption of adverse effects from list price sharing at  
22 all? Is that correct?

23 A. That is what Professor Harrington is saying, yes.

24 Q. He is saying more than that though, is he not, because  
25 he is saying that, outside that window, he does not

1           consider that there is an economic theory of harm that  
2           implies higher customer prices from list price sharing,  
3           is he not?

4           A. Yes, from list price sharing.

5           Q. So the idea you can take from Professor Harrington's  
6           theory a central case and say, "Well, what we have got  
7           here is not quite that but it is similar", that does not  
8           work because, unless you fall within the parameters of  
9           Professor Harrington's case at least in relation to  
10          pricing information, in fact his modelling is saying you  
11          do not have a good theory of harm, is he not?

12          A. Sorry, can you ask me the question again?

13          Q. Yes, of course. I am sorry, I recognise it was a little  
14          long.

15          A. Yes.

16          Q. So the idea you can take from Professor Harrington's  
17          theory that it is a central case is not right because  
18          what he is identifying is that at least in relation to  
19          the exchange of pricing information, unless you fulfil  
20          the specific conditions that he has identified, you do  
21          not have an economic theory of harm that implies higher  
22          customer prices. That is correct, is it not?

23          A. Can you clarify what you mean by "central case"? Sorry.

24          THE CHAIRMAN: I was getting a bit lost in that question as  
25          well.



1 MR BEARD: Okay. So let me just ask the question without  
2 the central case element and then we can try again.

3 So Professor Harrington's theory is that at least in  
4 relation to the exchange of pricing information, unless  
5 you fulfil the specific conditions that he has  
6 identified, you do not have an economic theory of harm  
7 that implies higher customer prices. That is correct,  
8 is it not?

9 A. On his modelling, to find higher prices, you need to  
10 fall within these parameters. I do not know whether he  
11 meant that there is no other -- I think what he means is  
12 no other unilateral theory that has been developed  
13 mathematically within the literature. I do not think he  
14 is ruling out other coordinative theories and I do not  
15 think he is necessarily ruling out other models that  
16 capture what happened in this cartel that have not yet  
17 been developed.

18 Q. What I am asking -- what I have identified in  
19 Professor Harrington's report is he starts off by saying  
20 there are no theoretical or empirical bases upon which  
21 to conclude that less strategic uncertainty among firms  
22 implies higher prices for consumers. We agreed on that.

23 A. Yes.

24 Q. He then goes on to create a model where, in relation to  
25 the sharing of prices, he says, "I have created an

1 economic theory of harm, a model, which shows [he says]  
2 that if you fulfil these conditions, then it may imply  
3 an adverse effect on consumer prices from the sharing of  
4 list prices". That is correct, is it not?

5 A. Yes.

6 Q. But what he is doing is saying, "I am not aware of any  
7 other theory of harm that deals with this in relation to  
8 reductions of strategic uncertainty and this is the  
9 exception". That is why he has engaged in this project,  
10 is it not?

11 A. Yes.

12 Q. The point is that he has therefore defined rather strict  
13 conditions which show when an exchange -- on his  
14 account, which show that when there is a gross list  
15 price exchange, you can infer an adverse effect on  
16 customers and therefore it is the exception to the  
17 general proposition he puts at the beginning of his  
18 paper, is it not?

19 A. So I think there is two parts to the question. There is  
20 two parts to the question you have asked me, two points.  
21 One part is the question of how restrictive  
22 Professor Harrington's conditions are, and I do not  
23 regard these conditions as terribly restrictive in the  
24 sense that saying firstly that the people sharing the  
25 information do not find it costless to change prices but

1           equally do not find it terribly costly to change prices,  
2           they are in that middle zone and then the second  
3           condition that we have just been through, the z  
4           condition, is that there is a cost to sharing prices in  
5           the first place. I would accept, obviously, that there  
6           is no -- we cannot put any numbers to those parameters  
7           but I do not think I can accept that they are  
8           restrictive. They seem quite a general formulation to  
9           me and indeed that is what Professor Harrington says.

10          Q. Well, that is certainly what Professor Harrington says.

11           I am going to come back to the nature of those  
12           assumptions in a moment. But what I am saying is that  
13           he has built a very specifically structured model with  
14           specific assumptions and it is only under those  
15           assumptions, fulfilling the criteria in his  
16           calculations, that he identifies on his account that  
17           there is implied some sort of adverse impact on consumer  
18           pricing from sharing gross list pricing. That is the  
19           position, is it not?

20          A. On -- yes. He has been able to drive out this

21           conclusion on the basis of his mathematical modelling.

22          Q. So working back to the point I was making earlier, what  
23           you cannot say is that you have a theory a bit like  
24           Professor Harrington's and this somehow shows that there  
25           is an economic theory of harm because he has defined his

1 very strictly and carefully and, if you vary those  
2 assumptions, the conclusions do not follow. That is  
3 correct, is it not?

4 A. I do not and have not used this type of literature in  
5 that way at all. It is quite normal in economic  
6 analysis to rely on mathematical models to understand  
7 the factors that would lead to different types of  
8 outcomes. They are an abstraction from reality and  
9 therein lies their limitation. So I do not think that  
10 the fact that this is a stylised model and depends on  
11 certain assumptions of itself means that it is --  
12 I think, as you are suggesting -- a significant step to  
13 use it to inform the theory of harm in this case any  
14 more than one might refer to general economic theory in  
15 the context of a merger and try and understand what  
16 effect that would have on prices.

17 Q. General economic theory I can see but this is not  
18 a general economic theory. It is a very specific  
19 economic theory in order to define an exception to what  
20 he says is a lack of economic theories of harm in  
21 relation to reductions of strategic uncertainty.

22 So the point I am putting to you is that you cannot  
23 use it like general economic theory. You either fall  
24 within its scope or you do not. If you do not fall  
25 within its scope, it does not inform you that there is

1 a theory of harm suggesting that there is an adverse  
2 effect on consumer pricing from sharing list pricing.

3 That is correct, is it not?

4 A. No. He is seeking to define a general economic theory.  
5 That is what this paper is trying to do.

6 Q. Well, I think that is a matter of dispute and no doubt  
7 something that will be the subject of cross-examination  
8 of Professor Neven. I have put the point to you but now  
9 I want to go back and look at some of the assumptions  
10 that apply around the costs of changing prices and some  
11 of the assumptions that are otherwise used in the  
12 modelling in any event.

13 So just to be clear, and I think you have accepted  
14 it, rather than modelling -- seeking to model  
15 a hypothetical firm's internal pricing process,  
16 Professor Harrington's approach is to represent that  
17 process as a cost faced by the notional colluding  
18 executive. That is correct, is it not?

19 A. Yes.

20 Q. We have already dealt with the fact that that approach  
21 is predicated on the mathematical structure that the  
22 initial list price and final list price flows through  
23 into a transaction price; correct?

24 A. Yes, but your point about it being part of the  
25 mathematical structure is important because, as I said

1 earlier, that is a modelling simplification to capture  
2 this idea of the list price containing information and  
3 it ultimately being costly to change those things. So,  
4 yes, that is the way it is modelled and I do not think  
5 it is what it is seeking to understand itself, if you  
6 see what I mean.

7 Q. Yes, I understand. Your position is that that is built  
8 into the maths and therefore one can see this as a more  
9 general proposition being developed. I have put to you  
10 that this is actually one of the fundamental assumptions  
11 that goes to his conclusion that has quite limited  
12 parameters attached to it and I think we see where the  
13 difference lies in relation to those issues.

14 A. Yes.

15 Q. Now, if we could go to page 5 again in relation to this  
16 paper, {I4/289/5}, we have touched on the idea that the  
17 second of his assumptions -- this was actually the  
18 passage I took you to after your response to  
19 Mr Ridyard's question -- that what is being referred to  
20 in the second of these particular assumptions is the  
21 idea that an executive has to go outside the standard  
22 protocol; is that correct? That is one of the basic  
23 assumptions here?

24 A. Yes, well, here it speaks about executives having  
25 limited influence.

1 Q. Yes.

2 A. Yes.

3 Q. Therefore having to go outside the standard protocol in  
4 order to change a list price that has been shared;  
5 correct?

6 A. Yes.

7 Q. Then if we go down to the bottom of that page, I will  
8 not read it out but if you pick it up:

9 "Authority over the list price may reside at a high  
10 level where the marketing division plays an important  
11 role, while discounts are apt to be controlled by the  
12 sales division."

13 This is reflecting, I think -- if we just go over  
14 the page, {I4/289/6} -- how he is understanding the  
15 price setting process that he is then effectively  
16 providing the simplified modelling in relation to;  
17 correct?

18 A. Yes, I think here he is providing some examples of the  
19 type of list price, net pricing process, that would fall  
20 within the realms of this modelling. I think they are  
21 examples rather than mechanical, if you see what I mean.

22 Q. But in all of these examples the reason  
23 Professor Harrington is talking about this potential  
24 cost is because the cost of changing the shared list  
25 price or intervening in the discount process is because,

1 otherwise -- is because that explains why an executive  
2 would not try to deviate from the announced price; is  
3 that correct?

4 A. It is explaining -- yes, but it is explaining why that  
5 list price would contain some information with regards  
6 to future net pricing.

7 Q. Sorry, just to be clear, what he is doing here is  
8 talking about the potential cost of changing that shared  
9 list price or the discounting process and, in doing so,  
10 what he is doing is explaining effectively why an  
11 executive would not try otherwise to deviate from the  
12 announced price; is that correct?

13 A. Sorry, can you take me to the piece that you are  
14 actually referring to?

15 Q. Well, I was just taking you to one of those examples,  
16 but let me try putting the point another way.

17 All else being equal, there would be an economic  
18 incentive for the executive and the company in question  
19 to undercut the rival with whom this price has been  
20 shared; correct?

21 A. Yes.

22 Q. But if there is a cost to undercutting because there is  
23 a cost to changing the list price or intervening in the  
24 discount process, the incentive to deviate is mitigated  
25 or eliminated. Is that broadly what is being said here



1 effectively?

2 A. Sort of. Sorry. What is going on here I think are two  
3 things. Firstly, the cost means that the list price  
4 that you have shared contains some information about  
5 what net prices you will be intending to charge in the  
6 future. If it was a very, very easy for you to nip off  
7 and then change them again, then the other firm would  
8 potentially reason that it is not -- not your intention.  
9 But the second role that this plays is in the context of  
10 the k parameter that we spoke about.

11 Q. So let us just transpose this across the internal  
12 organisation of DAF on pricing on which we have heard  
13 evidence. I think the idea that Mr Ward has put forward  
14 is that whoever was the executive engaged in sharing  
15 prices would want to set a high list price and then,  
16 after he had shared that price with other manufacturers,  
17 the idea is that that high list price would feed through  
18 into the transaction prices. That you understand is  
19 being put forward?

20 A. Yes.

21 Q. But the assumption is being made, then, that it would  
22 not be standard protocol for him to change the list  
23 price or intervene in the downstream pricing process in  
24 any way if we are applying the Harrington approach.  
25 That is correct, is it not?

1       A. Mr Beard, can I ask whether the words "standard  
2       protocol" have a particular meaning to you or is that  
3       just your shorthand? The reason I raise that is that  
4       I think what Professor Harrington is getting at here is  
5       that there is a cost to intervening and he has  
6       articulated that in terms of moving outside of the  
7       standard protocol, but what I am saying is I do not  
8       think that necessarily you would need to move outside of  
9       the standard protocol. It could just be that operating  
10      the protocol is costly.

11      Q. But that is not what he is saying, is it? He is saying  
12      that there is an incremental cost of pricing and that is  
13      why he talks about moving outside the standard protocol.  
14      That is part of his reasoning here, is it not?

15      A. That is part of his reasoning, yes.

16      Q. So you are then trying to extend his account by saying,  
17      "No, no, no, it is not just outside the standard  
18      protocol. If you were just incurring the normal costs  
19      of pricing, that could be problematic". Is that what  
20      you are saying?

21      A. Yes.

22      Q. You have no basis for saying that in relation to  
23      Professor Harrington's approach because, in those  
24      circumstances, it is not necessary to take into account  
25      the internal costs of pricing that are normally incurred

1 in the course of pricing for transactions generally.  
2 That is correct, is it not?

3 A. No. No, it is not. It is using the phrase -- I agree  
4 that he is motivating the idea of the cost via  
5 a departure in the standard protocol, but some of the  
6 examples that he has included here, for example the one  
7 that starts, {I4/289/6}, "The managerial costs of price  
8 adjustment increase with the size of the adjustment  
9 because the decision and internal communication costs  
10 are higher for larger price changes", the costs occur  
11 because more people are involved. The increased costs  
12 occur because larger prices lead to more internal  
13 discussions. Those types of things strike me as -- they  
14 do not hinge on standard protocols being moved in or out  
15 of. They are simply costs of changing prices.

16 Q. Let us just pause there. He is talking about the change  
17 in the list price resulting in those changes in pricing  
18 and costs of pricing, is he not? That is what he is  
19 concerned about here. He is talking about an additional  
20 cost by reason of the change in the list pricing or the  
21 change in transaction pricing, is he not?

22 A. Yes.

23 SIR IAIN MCMILLAN: Mr Beard, could I ask a question --  
24 MR BEARD: Of course. I am so sorry.

25 SIR IAIN MCMILLAN: -- about the increase in costs, and it

1 is really to get clarity about is it an increase in  
2 overall costs or is it a redistribution of the same cost  
3 because executives are spending their time differently  
4 on internal discussions and so on. There may be an  
5 opportunity cost here because the executives are  
6 spending their time on that rather than other things,  
7 but does it mean that the actual overall cash cost to  
8 the business is greater? It does not seem to me but  
9 I may be wrong.

10 MR BEARD: Sorry, I am happy to make submissions on it.

11 I do not know whether the question is directed to me or  
12 to Mr Harvey.

13 A. So my interpretation is that he is not referring to an  
14 increase in cash costs here. He is referring --  
15 although that could arise. I think here he is referring  
16 to an incremental cost, but that could well be the  
17 diversion of management time. So I do not think he has  
18 ruled out the increase in cash costs but I do not think  
19 his argument hinges on it.

20 Q. Just to be clear in relation to the answer you have just  
21 given to Sir Iain, it is an incremental cost of some  
22 sort. It is not a re-allocation of costs within the  
23 business. That is correct, is it not?

24 A. The re-allocation of costs within a business could well  
25 be an opportunity cost for the purpose of making this

1 price decision an incremental one, so I think either  
2 work.

3 Q. In theory but it has to be an incremental cost, does it  
4 not?

5 A. Yes.

6 Q. Just to be clear, what we are talking about here are the  
7 costs of changing the pricing in the light of the  
8 exchanges of information. If and insofar as the pricing  
9 undertaken by the company in question incurs costs in  
10 any event, those costs are not part of the analysis of  
11 cost being undertaken by Professor Harrington, are they?

12 A. Well, that is just the same as saying that if there are  
13 no additional costs of making a price change, then they  
14 will not get counted, no.

15 Q. So in circumstances where, for example, you would have  
16 a bilateral discussion between either DAF or a dealer  
17 and a customer in order to create the price that the  
18 customer buys at, you would in any event be incurring  
19 potentially quite significant pricing costs. That is  
20 correct, is it not?

21 A. Yes.

22 Q. It is only if there is an increase in those costs that  
23 you then would consider the increment as part of the  
24 analysis of Professor Harrington's case; is that  
25 correct?

1 A. You would consider an increment if they incur either  
2 a direct cost or an opportunity cost from involving  
3 yourself in a decision that you would not otherwise have  
4 involved yourself in, in this example.

5 Q. Just closing off that for a moment, in relation to the  
6 cost that we are talking about of engaging in pricing,  
7 it is not the case, is it, that DAF NV, for example,  
8 sets list prices and then delegates price setting to  
9 local subsidiaries in the ordinary course, is it?

10 A. No.

11 Q. So, in those circumstances, under normal processes,  
12 DAF NV always has the ability and role to intervene in  
13 pricing after list prices have been set. That is  
14 correct, is it not?

15 A. Yes.

16 THE CHAIRMAN: Can I just understand the timing of this and  
17 what seems to be underlying the questioning? When are  
18 these changes to list prices said to be taking place?  
19 After the exchange of information?

20 A. Yes.

21 THE CHAIRMAN: So list prices would have been published in  
22 some way prior to the exchange of information and then,  
23 after the exchange, they need to change the list price  
24 in some way?

25 A. I do not think here they are necessarily published. It

1 is just that --

2 THE CHAIRMAN: Published internally?

3 A. Yes, exactly. They exist, they have been created and  
4 then they are shared, and it is the cost that would be  
5 incurred after that point.

6 THE CHAIRMAN: Do we know that that is the way it worked,  
7 that there were prices that were distributed internally  
8 which then had to be changed as a result of the exchange  
9 of information?

10 A. I do not think I do know that, no.

11 MR BEARD: It is the next round of questions I was coming  
12 to.

13 Mr Harvey, you have not sought to calculate or  
14 assess whether or not the costs you are referring to  
15 here fall within the window of  $k$  that is identified in  
16 the equation in Professor Harrington's model, have you?

17 A. No.

18 MR BEARD: We have the evidence from those involved in  
19 pricing on those matters.

20 I am conscious of the time. Now might be a good --

21 THE CHAIRMAN: Is that a convenient time?

22 MR BEARD: That is a convenient moment.

23 THE CHAIRMAN: All right. We will break for ten minutes.

24 (3.12 pm)

25 (A short break)

1 (3.25 pm)

2 MR BEARD: Before I finish with Professor Harrington's  
3 report, there are a couple more questions I wanted to go  
4 back to, if that is okay.

5 THE CHAIRMAN: Yes.

6 MR BEARD: Just going back to little z if we may, you can  
7 turn it up but you can probably answer these questions  
8 without reference to the paper. We have already  
9 established we are in essentially the non-coordination  
10 paradigm, you are looking at a different theory of harm  
11 in Professor Harrington's model and we have identified  
12 that z is the additional factor in addition to k that on  
13 the analysis you require to be greater than zero in  
14 order to end up with an equilibrium of high prices;  
15 correct?

16 A. Yes.

17 Q. Just to be clear, z is the cost of sharing information  
18 so it is an incremental cost above just a unilateral  
19 provision of information; is that correct?

20 A. What do you mean by "unilateral provision of  
21 information"? Sorry.

22 Q. Well, there is not any sort of sharing arrangement. It  
23 is giving out information unilaterally.

24 A. It is the cost of firm A giving firm B its, in this  
25 case, list price information.



- 1 Q. Is that -- and it is not the sharing of the information?
- 2 A. Sorry, that is sharing information.
- 3 Q. No, that would be unilateral -- what I am talking about
- 4 is the reciprocal provision of information.
- 5 A. I think in this model the way that it is motivated is
- 6 from the cost of getting found out, litigation or
- 7 something like that, so I think the interpretation of
- 8 it -- it could be a one-way cost in the sense to the
- 9 firm that is giving information over, there is a cost,
- 10 then that would be  $z$ . Sorry, I think I might have been
- 11 misinterpreting your question.
- 12 Q. No, I do not think you are, but I think you are implying
- 13 that there is a risk of litigation if you unilaterally
- 14 provide information and I am not sure that that
- 15 necessarily holds with the proposition, does it?
- 16 A. No, but I think here the cost is just a cost that arises
- 17 once you share information, so the act of giving someone
- 18 your list prices.
- 19 Q. But that is not right, is it, because, as you say, it is
- 20 not the act that is the cost that is attributed, it is
- 21 the threat of litigation, is it not?
- 22 A. Well, that is what Professor -- how Professor Harrington
- 23 motivates  $z$ , but I think formally it can be a cost that
- 24 arises once you enter into an act that is different from
- 25 keeping the information to yourself.

- 1 Q. That is something we will perhaps come back to but  
2 I understand your position in relation to it.
- 3 I think you would also accept that there could  
4 potentially be cost savings from sharing information if,  
5 for instance, this was information that could be  
6 obtained through other mechanisms legitimately; correct?
- 7 A. Yes.
- 8 Q. So effectively you could have a saving of transaction  
9 costs in those circumstances?
- 10 A. Yes.
- 11 Q. You, I think it is very clear, have not carried out any  
12 analysis in relation to  $k$  or  $z$  here?
- 13 A. Within this, there is no analysis that can be done to  
14 estimate a  $k$  that you can compare to this model because  
15 it is a theoretical model.
- 16 Q. I see. But you have not attempted to look at either of  
17 those figures?
- 18 A. No.
- 19 Q. No. Just in relation to these -- I think we established  
20 in exchanges previously that the predicate of the model  
21 is a structure that involves list prices feeding through  
22 to transaction prices. I think we agreed that; correct?
- 23 A. Yes, I think we did.
- 24 Q. So just to be clear, I think you accept that  
25 Professor Harrington's model does not apply and it does

1 not give rise to a theory of harm if there were evidence  
2 in fact that list price changes did not in fact  
3 translate into changes in transaction prices; correct?

4 A. No. Sorry. So I think this goes back to this  
5 distinction between the mechanical -- the maths that  
6 Professor Harrington uses, where he says that there is  
7 this relationship between list prices and net prices and  
8 what he is seeking to understand, which is that when  
9 I give you information, it informs the other person  
10 about what my list price will be, they will make an  
11 inference about what my net price will be.

12 Q. If the evidence we have were to be that in fact changes  
13 in list price did not translate into transaction prices,  
14 that would be a factual divergence from the assumption  
15 in the mathematical model that Professor Harrington is  
16 using, is it not?

17 A. It depends what that evidence is and what it shows.

18 Q. Understood. I want to move on to one or two other  
19 suggested mechanisms that you highlight or mention in  
20 your report. Can we go to -- we will take it in your  
21 second report, paragraph 2.23, which is {E/IC28/15},  
22 I think.

23 THE CHAIRMAN: When you say "second report", is that the  
24 reply?

25 MR BEARD: Yes, I am sorry, it is the reply. I just have it

1 as "JH2" in my notes. Sorry, that is lazy.

2 Do you have 2.23 in front of you on your screen?

3 A. Yes.

4 Q. So obviously you are more than familiar with this.

5 "For example, in my First Overcharge Report I set  
6 out some of the ways in which DAF may have sought to  
7 increase prices, based on information that it would not  
8 have had but for the Infringement. I noted that DAF's  
9 witness evidence provides details of some of the  
10 mechanisms [you say] by which management could have  
11 affected the final prices DAF charged, through the  
12 mandate structure and the involvement of senior  
13 management. This process involved both the setting of  
14 target margins and the use of a cost metric known as  
15 IKP, which DAF's witnesses explain, by 2003 was not  
16 reflective of costs incurred ..."

17 I think this is --

18 "... but 'an instrument by which DAF NV tried to  
19 steer local sales units to negotiate higher prices'."

20 You are there citing evidence from Mr Habets, who  
21 provided evidence in the tribunal. I do not know  
22 whether you were here during the period when Mr Habets  
23 and Mr van Veen gave evidence or have seen a transcript  
24 of that?

25 A. No.

1 Q. You have not, okay. I may need to take you back to one  
2 or two pieces in relation to it, but let us start with  
3 that for a moment.

4 So in that passage would it be fair to say you have  
5 identified three potential mechanisms? One is the IKP  
6 cost which is the surcharge on MLO -- that is the first  
7 one -- the second is using target margins and the third  
8 is by reference to the mandate structure. Is that fair  
9 that you are referring to those three here?

10 A. Yes.

11 Q. Yes, okay. Let us go to transcript {Day7/93:10}. This  
12 is Mr van Veen. I know you have read his witness  
13 statement, but this is Mr van Veen, page 93. If we pick  
14 it up at line 10 -- I think this is actually in response  
15 to a couple of questions from Mr Ridyard where he  
16 explains how the IKP works. Would you mind just reading  
17 through and shouting out when you want to move down? If  
18 you could read through to page 95, just line 2 --  
19 line 3, I am sorry, on page 95, {Day7/95:3}. (Pause)

20 A. Can we move on to page...? (Pause)

21 Okay.

22 Q. Lovely, thank you very much.

23 So let me just start with the IKP surcharge, if  
24 I may. I want to make sure I have inferred correctly  
25 how you say this might work so let me set it out and

1           then you can -- I will ask you a couple of questions  
2           about it. I think the position is broadly -- your  
3           position is broadly that DAF might have made a different  
4           decision on the level of IKP cost in the light of the  
5           information on gross list prices or other information it  
6           obtained or shared. That is the starting point, is it  
7           not, in relation to IKP surcharge? Correct?

8           A. Yes.

9           Q. So specifically what you are saying is DAF might have  
10          increased the IKP surcharge, the amount added on to the  
11          MLO cost, to generate an IKP cost beyond the increase  
12          that would have been obtained in the -- that would have  
13          obtained in the counterfactual; correct?

14          A. Yes.

15          Q. Yes, and I think what you are then saying is that that  
16          artificial increase in IKP surcharge would have had the  
17          effect of essentially communicating to local sales units  
18          an IKP cost measure of increasing IKP beyond the  
19          counterfactual; correct?

20          A. Yes, that is one possible mechanism.

21          Q. That in turn, I think it is being suggested, would have  
22          resulted in that local sales unit negotiating higher  
23          prices than in the counterfactual; correct?

24          A. Yes.

25          Q. So let us just start with the first stage of that, the

1 setting of the IKP surcharge. I think there are  
2 a number of assumptions that are being made in there.  
3 I think the first is that the level of the IKP surcharge  
4 could be influenced by any individual at DAF NV who  
5 participated in the infringement. That is the  
6 assumption that you are making there; correct?

7 A. No, I do not think so. I think it could have been  
8 indirectly influenced by the -- so the person  
9 participating in information exchange does not  
10 necessarily need to be the person with the hand on the  
11 IKP data.

12 Q. No, I think I used the word "influenced".

13 A. Yes.

14 Q. Yes?

15 A. Yes.

16 Q. That individual would believe, I think is the predicate  
17 of your -- one of the predicates of your approach, that  
18 based on the information exchange, that DAF's  
19 competitors were going to offer higher transaction  
20 prices than they would have done absent the information  
21 exchange. That is also true, is it not?

22 A. Yes.

23 Q. Right. The individual involved who is seeking to  
24 influence would be seeking similarly to increase DAF's  
25 transaction prices because he believed that was a better

- 1 strategy for DAF than seeking to undercut the  
2 competitors and win volume; correct?
- 3 A. Can you say that -- sorry, can you repeat that?
- 4 Q. So the person that we are assuming could influence the  
5 IKP surcharge, you are also assuming that he believed  
6 that it was a better strategy for DAF to increase  
7 transaction prices rather than undercut the competitors  
8 and win volume?
- 9 A. Yes.
- 10 Q. So let us just start with the assumptions about trying  
11 to increase the transaction prices to  
12 a super-competitive level. I think you would accept  
13 that an economically rational course of action for DAF  
14 or indeed any of the other manufacturers in the face of  
15 price increases by their competitors would be to  
16 maintain their own prices or even decrease them to  
17 undercut competition on price and win volume; correct?
- 18 A. No, that depends on what they think the other competitor  
19 is going to do.
- 20 Q. But you would accept that it would be economically  
21 rational for them to undercut their competitors to seek  
22 to win business and win volume; correct?
- 23 A. No, that is not correct for the same reason that you do  
24 have -- obviously have -- you have markets where prices  
25 are above costs and you do not get that -- it is in



- 1           their interests not to undercut.
- 2       Q.   That it may be economically rational, I think is then  
3           what you are saying, depending on the circumstances, to  
4           undercut the competitors and win business?
- 5       A.   In most models that deal with price competition, when  
6           you believe that your competitor is raising their  
7           prices, you will follow with a price increase of your  
8           own.
- 9       Q.   When you say "follow", you do not actually mean at the  
10          same level; you mean lower than, do you not?
- 11      A.   No.
- 12      Q.   You do not mean lower than? You mean that you would  
13          forego the business in those circumstances?
- 14      A.   If you believe that your rival is raising its price,  
15          then it would not be in your interest to cut your own  
16          price.
- 17      Q.   That is not what I asked you, Mr Harvey.
- 18      A.   Sorry.
- 19      Q.   You said that, "In most models that deal with price  
20          competition, when you believe that your competitor is  
21          raising their prices, you will follow with a price  
22          increase of your own", and I said, "When you ...  
23          'follow', you do not actually mean at the same level;  
24          you mean lower than, do you not?", and you said "No".  
25          But what I think you mean is that in those pricing

- 1 models you would have an incentive to increase your  
2 prices but not as much as your rival in order that you  
3 won the business but at a higher margin; correct?
- 4 A. No, not necessarily, because then that depends what the  
5 rival does next, so, no, that does not follow.
- 6 Q. So that depends on what the rival does next?
- 7 A. Yes.
- 8 Q. So if the rival were to know that you were going to  
9 undercut them to win the business, the rival would  
10 undercut you; is that correct?
- 11 A. No -- sorry, we have to be slightly careful with the  
12 sequence of who does what when. In these models  
13 essentially the firms are making decisions at the same  
14 time regarding their pricing and you are, I think,  
15 putting the scenario to me which is you believe that  
16 your rival is going to raise their price and you will  
17 raise your price too.
- 18 Q. Well, I am only responding to your answer to the  
19 question.
- 20 A. Sorry.
- 21 Q. I tested the question: if the rival raised their price,  
22 would you have an incentive to price below theirs in  
23 order to try to win the business?
- 24 A. You would have an incentive but you would not  
25 necessarily act on it.

1 Q. But it has to be profitable to undercut the competitors  
2 if you are expecting that you will still be able to  
3 charge a price above the competitive level, does it not?

4 A. I think that type of logic gets you back to why do we  
5 not have all markets pricing at cost and we do not, and  
6 the reason we do not is that the firms are always making  
7 the trade-off between the extra margin that they gain by  
8 raising their prices and the volume loss. So I do not  
9 think it does follow that you will just undercut them  
10 a touch. It depends on your beliefs about what they  
11 will do.

12 Q. I see. But if we are talking about a single tender  
13 situation, for example, in those circumstances -- let us  
14 just think about the single tender situation and we are  
15 talking about bespoke pricing -- I think we all agree on  
16 that in relation to customer deals -- I do not think you  
17 disagree with that proposition, do you?

18 A. No.

19 Q. No. So we are talking about bespoke tender pricing and  
20 in those circumstances, if the competitor was to offer  
21 a higher price than you did, that would mean that you  
22 would win the business and, if it is at a higher price  
23 than otherwise had been available to you, that would be  
24 beneficial, you would gain more profit; correct?

25 A. Yes, if you would have won at the lower price and not

1 the higher price.

2 Q. Yes. Let us just assume too for the moment because it  
3 makes it easier for these purposes.

4 But obviously your competitor is concerned that you  
5 could undercut them in those circumstances; correct?

6 A. Yes.

7 Q. Therefore there is the danger that you engage in  
8 a multi-stage game of thinking that drives your prices  
9 down. I am not saying that you need to have ten stages  
10 of actual negotiation where you each offer new prices.

11 A. Well, if I am participating in that bid, the price that  
12 I will offer will depend on what I think the rival will  
13 do, and so if I think the rival will charge a certain  
14 price X, I may not be concerned about cutting my price.  
15 If I am concerned that the rival will cut their price,  
16 then I might. I do not -- do you see what I mean?

17 Q. Yes, absolutely, I do see what you mean. It is right  
18 that essentially, in that tender process, the tender  
19 prices offered, at least in the first round, would not  
20 be available to the rivals competing. That is our  
21 understanding; correct?

22 A. Yes, although they might have a view on the relative  
23 price position, so they may not see the numbers that go  
24 into that bid, but they may have an understanding of  
25 broadly what those prices would be.

1 Q. But neither DAF nor the competitor would have any way of  
2 checking whether or not, in that tender process, DAF or  
3 the competitor had succeeded in increasing transaction  
4 prices, would it?

5 A. No.

6 Q. No. So you are not saying, I do not think, that DAF  
7 would have gone with a strategy of trying to raise  
8 transaction prices here. You are just saying it might  
9 have done?

10 A. Yes, it might have done on the basis of the information  
11 exchange.

12 Q. It might have done, but it might not have done?

13 A. It might not have done.

14 Q. Yes. Your report is essentially saying that you think  
15 it is plausible or possible that that could have  
16 happened; correct?

17 A. Yes.

18 Q. But, equally, I think perfectly fairly, you are saying  
19 it is plausible or possible that it did not happen?

20 A. I am saying it is possible that it did not happen. Can  
21 you explain to me the distinction you are making between  
22 "plausible" and "possible"?

23 Q. Absolutely not because it is language you use in your  
24 report interchangeably, so that was one for you,  
25 Mr Harvey.

1       A. So I think it is plausible, and the basis for that is  
2       that -- it goes back to what I was speaking about  
3       earlier -- is that when I reject -- if I reject a theory  
4       of harm, I find it hard to rationalise the thing that  
5       I am trying to develop a theory about, which is the  
6       information exchange, so it is on that basis that  
7       I think it is plausible.

8       Q. So it is plausible. You are not saying it is --

9       A. But I am not saying it is inevitable.

10      Q. You are not saying it is actually more likely than not.  
11      You are just saying it is plausible?

12      A. I am saying it is plausible.

13      Q. So you are perfectly capable of saying that two things  
14      are plausible here?

15      A. Yes, I think I am -- so that question about "more likely  
16      than not", I think that is where the fact that they  
17      continued with the infringement is relevant from an  
18      economics perspective because of the profit motive that  
19      I spoke about earlier, so I think I would lean towards  
20      "more likely than not".

21      Q. Well, you might lean towards it but that is not what you  
22      have said anywhere in any of your reports, is it? All  
23      you have said -- and I can take you through lots and  
24      lots of references -- is that your account is plausible  
25      or possible; correct?

1 A. That is what I write, yes.

2 Q. Yes, and that is not "more likely than not".

3 Let us just move on slightly from the questions  
4 about --

5 A. Sorry, can I just ... I think I am saying it is more  
6 likely than not.

7 Q. Well, that is not what you have said in any of your  
8 reports, is it, Mr Harvey?

9 A. I think perhaps the word "plausible" is my shorthand for  
10 that.

11 Q. Is it?

12 A. Yes.

13 Q. I see. So we should read every reference to "plausible"  
14 as being "more likely than not", should we, in your  
15 reports?

16 A. I do not think I would say that.

17 Q. No --

18 A. No.

19 Q. -- because that would be something of a perversion of  
20 language, would it not, to treat "plausible" as "more  
21 likely than not" when you have provided three reports  
22 and a joint statement, would it not, Mr Harvey?

23 A. I am not sure about that. I think you asked me the  
24 question whether I think, on this particular issue, it  
25 is more likely than not. I have said, on the basis of

1 the information exchange continuing and there being  
2 a profit -- I believe there is a profit motive for what  
3 they have done, that is what the economics would say,  
4 that allows me to sort between something that is more  
5 likely than not. So in this context I am trying to  
6 answer the question that you put to me.

7 Q. You know that "more likely than not" is a sort of  
8 critical legal threshold, do you not, Mr Harvey?

9 A. Yes, I do.

10 Q. Yes, you do. You have provided three reports where you  
11 do not use that phrase anywhere, Mr Harvey.

12 A. And that is partly why.

13 Q. Oh, is it? I see. So should I take your references to  
14 "possible" as meaning "more likely than not", then, as  
15 well?

16 A. I think it would depend on the reference.

17 Q. Right. Would it? So just to be clear, there are  
18 occasions when we read your report when we should take  
19 the word "possible" and say "When I say it is possible,  
20 I mean it is more likely than not that this happened"?  
21 Are you seriously telling the tribunal that that is how  
22 we should read your reports, Mr Harvey?

23 A. No.

24 Q. No, and that is true also of your use of the word  
25 "plausible" which you use almost interchangeably with



1 "possible", is it not, Mr Harvey?

2 A. Yes.

3 Q. Yes. Thank you, Mr Harvey.

4 I just want to go back to the IKP surcharge, if  
5 I may. I think you recognise from the evidence because  
6 you referred to Mr Habets' statement -- and I probably  
7 do not need to take you to the transcript on it, but let  
8 us go to his statement, {D/IC23/15}. I am just going to  
9 go to paragraphs 61 and 62, Mr Harvey. Now, I think you  
10 do not disagree with any of this. Indeed I think you  
11 have referred to Mr Habets' statement in your report.  
12 It says, 61:

13 "When I first joined DAF ... the purpose of IKP was  
14 to cover costs that were not included in MLO, such as  
15 SE&A and warranty costs."

16 I think there is no dispute there. He says "this  
17 soon changed", although "soon" is a somewhat relative  
18 term there because it is around 2003 or 2004. Now up  
19 until 2003/2004 I think you are accepting that the IKP  
20 surcharge was a costs metric that was derived from the  
21 MLO plus an additional cost element relating to other  
22 cost factors. You are not disputing any of that,  
23 are you?

24 A. No.

25 Q. So when we are talking about the alleged infringement,

1 we are talking essentially about half the period where  
2 the IKP surcharge was clearly being set -- and quite  
3 fairly you do not contest this -- by reference to DAF's  
4 actual costs. That is correct, is it not?

5 A. Yes, with one caveat, which is that it refers to here  
6 the idea of a complete cost measure, which would include  
7 both manufacturing costs, MLO, and other overhead costs.  
8 So it depends what goes into those other overhead costs,  
9 the proper interpretation of this cost measure.

10 Q. Of course.

11 A. Specifically what I mean by that is another way of  
12 writing "other overhead costs" is margin.

13 Q. Margin, I see.

14 A. A truck-level margin that makes a contribution to  
15 overheads.

16 Q. I see. Right.

17 A. But that is the one caveat.

18 Q. But this is just pure speculation on your part?

19 A. Yes.

20 Q. Yes, and I am not going to go to it now but that was not  
21 a proposition that was put to Mr Habets as the meaning  
22 of "IKP surcharge". You are not aware of that?

23 A. No.

24 Q. No. But let us assume for these purposes that your  
25 speculation about some kind of margin element being

1           baked into it, that it is either a standard margin that  
2           is applied throughout or there is not a margin being  
3           baked into that costs figure, then you would accept that  
4           your theory in relation to manipulation of the IKP  
5           surcharge just does not apply up until 2003/2004 at all;  
6           correct?

7           A. If the margin is allocated to the -- that could have  
8           been allocated to the IKP surcharge was not affected by  
9           market conditions, then, yes, this would only apply up  
10          to 2003 or 2004 -- sorry, after 2003 or 2004.

11          Q. Now, I think you said you were not aware of the position  
12          post 2004 or, more exactly, the evidence provided by  
13          Mr Habets in relation to these matters, that he provided  
14          evidence that in fact the IKP surcharge was used to keep  
15          the IKP cost measure flat even if there were reductions  
16          in MLO costs. You are not aware of that?

17          A. This is his evidence recently?

18          Q. Yes.

19          A. No, you need to take me to it.

20          Q. I will take you to that but let us just deal with that  
21          in principle. I have various references, if that helps,  
22          but his evidence was that if the MLO cost rose, then the  
23          IKP surcharge -- the IKP surcharge would effectively  
24          mean that the IKP cost moved up. On the other hand, if  
25          the MLO cost fell, the IKP surcharge would be changed so

1           that cost measure remained the same. That is what  
2           I meant by "flat".

3           A. Right.

4           Q. I am summarising. I think probably this is not a very  
5           fair question to you given that you were not privy to  
6           the evidence, but there is no reason to think that DAF  
7           would have done anything different in relation to that  
8           particular arrangement in the counterfactual, is there?

9           A. I do not know. Sorry.

10          Q. No, fair enough. You know that, after 2004, the  
11          infringement arrangements were not among HQ exchanges,  
12          headquarters exchanges. It was to do with German  
13          subsidiaries? You know that?

14          A. Yes.

15          Q. So it is more remote from the supposed head office  
16          arrangements; you know that too?

17          A. Yes.

18          Q. Now, just staying with IKP costs for a moment, you know,  
19          I think, although you do not specifically set it out in  
20          your evidence, that the IKP cost is not seen by dealers.  
21          You are aware of that, are you not?

22          A. Yes.

23          Q. So when we are talking about this theory that I outlined  
24          at the outset of this line of questioning about IKP  
25          costs and IKP surcharges feeding through, that cannot

1           operate in relation to dealers, I think, on your  
2           account; is that right?

3       A.   Yes, I think that is right because they are not  
4           responding to the IKP cost change.

5       Q.   I think there are probably a couple of other brief  
6           points on IKP surcharges and the mechanism that would be  
7           applying just in relation to the fleet and direct sales.  
8           The mechanism I think would require, would it not, that  
9           DAF UK, who were the people actually doing the deals  
10          with direct and fleet -- they were more concerned about  
11          achieving a certain margin above IKP cost than securing  
12          volume; is that correct?

13      A.   Sorry, can you repeat that?

14      Q.   So in order for the story that we ran through in  
15          relation to the IKP surcharge mechanism that you  
16          remember I set out to you -- you have accepted that it  
17          does not apply in relation to dealers so I am just  
18          focusing on direct and fleet sales that were carried out  
19          through DAF UK.

20      A.   Yes.

21      Q.   Sorry. I probably should have just spelled that out.

22                 In order for that mechanism to operate as you  
23                 suggest, it would have to be the case that DAF UK was  
24                 more concerned about achieving a certain level of margin  
25                 above IKP cost rather than securing volume; is that

- 1 correct?
- 2 A. They would need to be concerned about securing a margin.
- 3 I do not understand the second point about more
- 4 concerned than volume.
- 5 Q. But you understood that for DAF UK there was significant
- 6 incentive to get deals done and maximise volumes, do you
- 7 not?
- 8 A. Well, I am sure that was one of their incentives, yes.
- 9 Q. So here you are speculating about what DAF UK could have
- 10 done but not would have done in those circumstances;
- 11 correct?
- 12 A. I do not necessarily see a tension with achieving
- 13 a margin and achieving volume, so it was the ...
- 14 Q. Understood. Just in relation to these IKP costs and IKP
- 15 surcharge measures, the data on IKP costs including the
- 16 data on IKP surcharge has been disclosed to you, has it
- 17 not, Mr Harvey?
- 18 A. Yes.
- 19 Q. So it would have been possible for you to consider
- 20 changes in IKP surcharge over time and test this theory;
- 21 correct?
- 22 A. I would not necessarily know the reasons why the
- 23 surcharge had changed.
- 24 Q. But you did not do anything empirically to assess
- 25 whether or not changes in IKP surcharge had, for

1 instance, affected transaction prices? You have not  
2 sought to do that, have you?

3 A. No, I have not.

4 Q. No. You, I do not think, have considered evidence about  
5 the relevance of IKP cost metric in the negotiations  
6 with these claimants, have you?

7 A. No.

8 Q. No. Okay. I am going to move on now, if I may, to IKP  
9 target margins. I think the transcript I took you to at  
10 Day 7 -- if we could just go back to that. It is  
11 page 95 on Day 7, {Day7/95}. So we stopped where  
12 Mr Ridyard said "I see", {Day7/95:4}. Then there was  
13 some questions from the chairman and some responses that  
14 related to the target margin percentage.

15 Would you mind just reading that page and through to  
16 line 20 on the following page, page 96, {Day7/96:20}.

17 A. Yes.

18 Q. If you let the Opus operator know when to turn. (Pause)

19 A. Okay, carry on.

20 Q. Thanks. (Pause)

21 A. Thank you.

22 Q. So we see there overall target margin would be set by  
23 the board on a series level and that would include the  
24 involvement of DAF NV and then there would be individual  
25 target margins set for hundreds of different models

1 across many countries, and then you saw how Mr van Veen  
2 gave a simplified example of the board setting one  
3 margin and then it being dispersed and --

4 THE CHAIRMAN: Is it Mr van Veen or Mr Habets?

5 MR BEARD: I am so sorry, did I misattribute this? This is  
6 Mr van Veen. Did I say "Mr Habets"? I am so sorry. If  
7 I said "Mr Habets", I am sorry to have confused you,  
8 Mr Harvey. It is Mr van Veen, I apologise.

9 Yes, it certainly is Mr van Veen. The aim was to  
10 come up with a set of target margins across different  
11 models, countries, customer types, that would meet the  
12 board's target and Mr van Veen was involved alongside  
13 the financial control department.

14 Now, you do not specifically, in your report,  
15 consider how target margins might be a route to increase  
16 transaction prices, but, again, I will run through a few  
17 propositions and see if I am understanding how you are  
18 thinking about this correctly.

19 So is it that, first of all, the level of IKP  
20 targets could be influenced by the individual at DAF NV  
21 who participated in the infringement? That is your  
22 starting point, is it?

23 A. It is rather that the infringement could influence the  
24 IKP margin. I do not think it requires the specific  
25 individual to pull the lever, as it were.



1 Q. No, "pull the lever" -- again I used the word  
2 "influenced". I think the point I am making is it does  
3 not necessarily have to be direct. That is not the  
4 point I am putting to you, Mr Harvey.

5 A. Okay.

6 Q. But I think it needs to be the individual or individuals  
7 who have been involved in the information exchanges have  
8 to influence, do they not?

9 A. Well, they need to be able to set about a chain of  
10 events that causes the margin to change, so yes --

11 Q. I will go with causation being influence.

12 A. -- if that is what you mean.

13 Q. Yes, I will stick with that.

14 The underlying proposition is that that person could  
15 have been incentivised to increase them beyond the level  
16 that he would otherwise have done in the counterfactual;  
17 is that broadly right?

18 A. Yes.

19 Q. I think the thinking is that that would have led to  
20 increases in the target margin seen by the local sales  
21 units; correct?

22 A. Yes.

23 Q. Your thinking is that that could in turn have resulted  
24 in local sales units negotiating higher transaction  
25 prices than would have been achieved in the

- 1 counterfactual; correct?
- 2 A. Yes.
- 3 Q. Now, I think -- again, you have given your answer in  
4 relation to IKP surcharge. I think you accept that this  
5 does not apply in relation to dealers because they do  
6 not see IKP costs or IKP target margins; correct?
- 7 A. Yes.
- 8 Q. We have already discussed, I think, to some extent the  
9 possibility of incentives to undercut, but let us just  
10 try it in relation to target margins. Let us just  
11 assume for the sake of argument that again we are  
12 dealing with a tender situation but there has been an  
13 incremental increase in the overall target margin for  
14 each of the relevant truck series, XF, CF, LF. Just  
15 make it simple. I am not going to change it between  
16 series. It is an increase on your account beyond that  
17 which would have occurred in the counterfactual; okay?
- 18 A. Yes.
- 19 Q. Obviously, if that was done at a general level by the  
20 board at DAF NV, the next stage, of course, would be to  
21 decide how the target margins changed for different  
22 models in different countries. You understand that from  
23 the evidence you have seen?
- 24 A. Yes.
- 25 Q. Yes, and so, in other words, bringing it back slightly

1 more parochially, it would matter how the board's  
2 general instruction translated into target margins for  
3 the UK; correct?

4 A. Yes, it would.

5 Q. Just to be clear, you have not actually considered any  
6 evidence in relation to those target margins, have you?

7 A. No.

8 Q. In relation to the target margins, the hypothesis is  
9 that DAF UK, in dealing in relation to direct or fleet  
10 matters, would have negotiated a price with the customer  
11 that was higher than would otherwise have been the case  
12 absent the change in target margins; correct?

13 A. Yes.

14 Q. In engaging in a tender process, what DAF UK would be  
15 doing is trying to win business as against competitors;  
16 correct?

17 A. Yes.

18 Q. In those circumstances I think, as we have already  
19 established, there would not be transparency as to the  
20 prices that were being tendered by the competing truck  
21 manufacturers; correct?

22 A. No.

23 Q. No. So in those circumstances, even if DAF UK had an  
24 ambitious target margin, that would be meaningless for  
25 DAF UK if it actually lost the business, would it not?

- 1 A. Yes.
- 2 Q. So in those circumstances DAF UK would have  
3 a significant incentive to ensure that it priced in such  
4 a way as to win the business; correct?
- 5 A. If we are going round the "You would have potentially  
6 set a lower price to win the business" argument again,  
7 I give you the same answer that I gave earlier, which is  
8 it depends on your expectations of what your rival would  
9 do.
- 10 Q. I see. So it does not matter that we are talking about  
11 internal target margins in these circumstances; you  
12 consider it has the same potential impact as an IKP  
13 cost?
- 14 A. Yes, I think it could do.
- 15 Q. Okay. We also know that in relation to target margins  
16 that often they were not hit by DAF UK. You know that,  
17 do you not?
- 18 A. Yes.
- 19 Q. If they were not going to be able to hit their target  
20 margins, you also know that in those circumstances they  
21 would have to get approval for the deal in question;  
22 correct?
- 23 A. Yes.
- 24 Q. That is engaging in the mandate structure; correct?
- 25 A. Yes.

1 Q. So does the theory then go, as we move into mandate  
2 structure, that DAF NV would have rejected more  
3 transactions that were passed to it from the local sales  
4 unit under the mandate structure?

5 A. Yes, I think that does follow.

6 Q. I see. So DAF NV would have rejected more transactions  
7 than it otherwise would have done and DAF UK would have  
8 lost out on some of those deals?

9 A. Well, I think in terms of the way that a mandate  
10 structure could work, that is one possible outcome, that  
11 there are in fact greater rejections. The other  
12 possible outcome is that there are not, but in  
13 anticipating that more rejections would take place,  
14 DAF UK tries harder to get a better price. So I think  
15 there is a distinction between what might happen in the  
16 end and how that influences DAF UK's behaviour.

17 Q. Right. So you are offering two alternatives. One is,  
18 because of the threat of refusal under the mandate  
19 structure, that actually DAF UK just competes harder so  
20 it does not have to engage so -- is that right?

21 A. Well, it tries to secure a better price so it does not  
22 trigger the mandate structure.

23 Q. I see. So it is trying to avoid the mandate structure  
24 by offering a price that would not be competitive  
25 against the other competitor?

1 A. Yes, but where their belief is that their competitor is  
2 not competing as hard as it was.

3 Q. I see. But they do not know what price the competitor  
4 is offering, do they?

5 A. No, they do not.

6 Q. We have seen in relation to -- we are only talking here  
7 about direct and fleet and we know that those are the  
8 sorts of deals which had to go up for approvals more  
9 than other deals, and you have not carried out any  
10 analysis of whether or not there was a greater refusal  
11 rate in relation to mandate approvals, have you?

12 A. No.

13 Q. So you do not actually know whether or not there was any  
14 impact in relation to IKP target margins on the levels  
15 of refusal through the mandate structure and you are  
16 speculating about DAF UK putting forward higher prices  
17 in circumstances where it would run a significant risk  
18 of losing the business in question; correct?

19 A. That is the theory of harm, yes.

20 Q. I see.

21 I am conscious of the time. I have a few more  
22 questions that I was going to go through but I can carry  
23 on tomorrow morning.

24 THE CHAIRMAN: How are you doing for time?

25 MR BEARD: In relation to mandate structure I am going to be

1 another good hour or two, I think, on the basis of the  
2 questions I have got here, so that is the only reason  
3 why I --

4 THE CHAIRMAN: Right. I think you were scheduled to go to  
5 probably lunchtime tomorrow.

6 MR BEARD: Yes, I will be done by lunch -- well in advance  
7 of lunchtime tomorrow, so that is the only reason why  
8 I am not trying to push on through.

9 THE CHAIRMAN: Yes. I think it will probably be good for us  
10 all to have a break now.

11 Mr Harvey, the same rules apply.

12 A. Same rules.

13 THE CHAIRMAN: So no discussion of the case overnight and we  
14 will resume at 10.30 tomorrow.

15 MR BEARD: I am most grateful.

16 (4.15 pm)

17 (The hearing adjourned until  
18 Wednesday, 18 May 2022 at 10.30 am)

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