# OPUS 2 INTERNATIONAL

Sainsbury's Supermarkets Ltd v. (1) MasterCard Inc, (2) MasterCard International Inc, (3) MasterCard Europe S.P.R.L.

Day 13 Redacted

February 19, 2016

**Opus 2 International - Official Court Reporters** 

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1	Friday, 19th February 2016	1	their MIF to zero.
2	(10.30 am)	2	Q. So the words "there would be no commercial rationale" is
3	(Open session)	3	actually too absolute: it depends on the number of
4	MR JUSTICE BARLING: Good morning.	4	people who would actually sue and it depends how many
5	MR HOSKINS: Morning, sir.	5	people Visa would think might actually sue?
6	MR JUSTICE BARLING: Good morning, Mr von Hinten-Reed.	6	A. I think that is correct.
7	A. Good morning.	7	Q. If Visa maintained a high MIF for a number of years
8	MR HOSKINS: Can I just mention confidentiality before we	8	whilst MasterCard had a zero or a low MIF, Visa would
9	start because there are going to be some confidential	9	attract issuers to itself, we established that
10	passages today	10	yesterday. If the Visa MIF was then reduced to the
11	MR JUSTICE BARLING: Right.	11	level of MasterCard after a period of years, it cannot
12	MR HOSKINS: where I will need for us to go in camera, if	12	be assumed that all issuers who switched to Visa would
13	we get to pass through on Monday, which we hopefully	13	then switch back in any short timeframe to MasterCard,
14	will, that is all going to be in camera, because that's	14	correct?
15	all Sainsbury's protected information.	15	A. If you make the assumption that it is sticky on the way
16	MR JUSTICE BARLING: You expect that to be on Monday?	16	out, it must also be sticky on the way in.
17	MR HOSKINS: I expect it to be on Monday, you asked me to	17	Q. So I think the answer is yes?
18	let people know, so I flagged that up.	18	A. Yes, I'm trying to explain that. Yes.
19	MR JUSTICE BARLING: I am sure that has been noted then, by	19	Q. Can we go to D2, tab 2 please. This is your first
20	those here, that Monday looks as though it is going to	20	report. At paragraphs 440 and 441 you deal with the
21	be highly likely that the court will have to sit in	21	threat from Amex. So it is page 211 of the bundle,
22	camera and now you are going to say that some of today.	22	paragraphs 440 to 441. You see at the beginning of 441
23	MR HOSKINS: Some of today, but most of today will be open,	23	you say:
24	it is just certain bits.	24	"I have estimated, based on UK evidence mainly from
25	MR JUSTICE BARLING: That you don't feel you will be able to	25	MasterCard disclosure, that MasterCard would lose around

1	deal with sufficiently cryptically, as it were, so you
2	will let us know when you get there?
3	MR HOSKINS: 1 will.
4	MR NILS VON HINTEN-REED (continued)
5	Examination-in-chief by MR HOSKINS (continued)
6	MR HOSKINS: Good morning Mr von Hinten-Reed.
7	A. Good morning, Mr Hoskins.
8	Q. Could you go to bundle D2.1 please at tab 3, which is
9	your second report, page 466. It is paragraph 236.
10	This is where you are dealing with your counterfactual
11	and you say in the last sentence:
12	"There would be no commercial rationale in
13	maintaining the Visa UK MIF above the established lawful
14	level as any revenue gained from attracting MasterCard
15	issuers would be lost in damages."
16	That assumption is only correct if one assumes that
17	every single merchant able to bring a claim does bring
18	a claim and succeeds, isn't it?
19	A. We are in the section 236 is in the section which is
20	to do with damages and there we are assuming that the
21	MasterCard UK MIF was deemed to be unlawful.
22	So the argument in the last sentence of 236 is that
23	a sufficient number, it doesn't have to be everyone,
24	would bring a damages action, such that Visa would
25	determine that it would be in their interest to reduce
	2

# 3

1	5% of its market as measured by the value of credit card
2	transactions to Amex in a zero or low interchange fee
3	environment."
4	In 440, just above, you say:
5	"Since the Duo card carries a fee, it is only fee
б	paying elements of MasterCard's business that would be
7	at risk."
8	Are you aware that Amex currently offers at least
9	three different rewards based consumer credit cards
10	without an annual card fee?
11	A. Yes.
12	Q. Are you aware that Amex currently offers two high
13	rewarding consumer credit and/or charge cards without
14	an annual fee in the first year?
15	A. I wasn't aware of that.
16	Q. If it is clear therefore that Amex does also compete
17	with MasterCard's non-fee paying credit cards, is it
18	not?
19	A. A portion.
20	Q. Equally, in the last sentence of 440, you say, since the
21	Duo card carries a fee:
22	"Whilst all Lloyds Duo cards do now carry a fee"
23	Are you aware that that was not always the case?
24	A. No.
25	Q. Because for most of its existence the standard Lloyds

Duo card did not have a fee. If you can go to E3.14, at
tab 272 you will see this is a Lloyds TSB press release
dated Wednesday, 23rd November 2011. The first
paragraph below the italics:
"Lloyds TSB is relaunching its reward credit cards
and turning everyday spending into travel rewards.
A unique feature of the Duo Avios credit card account is
that customers are supplied with both an American
Express and a MasterCard."
If you turn over the page you will see the editor's
notes on page 2:
"Lloyds TSB premier Duo Avios"
Second bullet:
" representative APR of 21.9% variable inclusive
of annual fee."
Then the next one:
"Lloyds TSB Duo AVIOS, representative APR of 15.9%
variable and no annual fee."
A. Mmm. So, Mr Hoskins, can I just ask I don't want to
ask a clarificatory question, this press release, if
I read it right, is the relaunching of its reward credit
card, so they had the Duo before but apparently it
wasn't that successful. That's how I read it. So we
have two cards, as you say, one which now has an annual
fee and the other one which is variable, without a fee.

1	Q. So I just clarify the last sentence of 440 of your first
2	report isn't quite accurate, it says "since the Duo card
3	carries a fee", but clearly at certain times in its
4	history it didn't carry a fee, or certain aspects of
5	certain types of Duo didn't carry a fee?
6	A. Right. The reason why I looked at the Duo card was in
7	part because of MasterCard itself. So when I reviewed
8	some of the documents that I had been provided with,
9	I understand it was I have to be accurate here
10	because it is MasterCard and its advisers BCG, I believe
11	Mr Perez said it was the Duo fee paying card that was
12	the threat. So, you know, that is the basis on which
13	I have said 440. Now, if actually you see in 2011 that
14	we have a card which doesn't have a fee, then what
15	I have said here in the last sentence needs to be
16	altered slightly.
17	Q. Are you aware that MBNA offers sole Amex cards under
18	licence from Amex?
19	A. I understand that now.
20	Q. There's no fee for that Amex card; do you know that?
21	A. That is correct and MBNA, as I think we found yesterday,
22	has a wish to try to get into less affluent cardholders.
23	MR HOSKINS: Sir, I'm afraid I have reached one of the
24	confidential sections, I'm sorry, I'm going to try to
25	limit it as much as possible but I also need to keep the

1	flow of my questions.
2	MR JUSTICE BARLING: Right. You are going to deal with what
3	aspect now then?
4	MR HOSKINS: I need to look at various Boston Consulting
5	Group documents and they are MasterCard confidential and
6	I need to look at specific figures in them. It is not
7	going to be effective if I can't ask questions in that
8	way and the answer can't answer.
9	MR JUSTICE BARLING: I'm afraid probably people here are
10	used now to this problem. I'm afraid those who haven't
11	signed undertakings, who are not in the confidentiality
12	ring we will have to part company with you for a while.
13	We will let you know as soon as possible by removal of
14	the notice when we have gone back into public session,
15	thank you very much.
16	(10.42 am)
17	(End of open session)
18	(In camera)
19	(11.52 am)
20	(Beginning of open session)
21	Cross-examination by MR HOSKINS (continued)
22	A. May I have a small clarification, sir?
23	MR JUSTICE BARLING: Be careful because we are in open
24	session now.

A. I will be very careful. When we talk about competitive

1	advantage in vis-a-vis American Express, whether it
2	is the what you call the three and a half or the
3	four-party or the three, bear in mind on the merchant's
4	side part of the problem for Amex has been actually its
5	acceptance, and that obviously before and after the
6	regulation, so however this the impact of this and
7	let's call it the discount rate for evermore, rather
8	than confusing MSC, the discount rate has fallen, there
9	will also be a change in the rewards and also some sort
10	of impact on acceptance.
11	Mr Hoskins, sorry.
12	MR HOSKINS: No, no.
13	MR JUSTICE BARLING: Okay.
14	MR HOSKINS: Are you happy for me to?
15	MR JUSTICE BARLING: Yes, I think we are ready to roll.
16	MR HOSKINS: Can you go to D2, tab 2, which is your first
17	report. At page 211, it is something we have looked at.
18	It is simply paragraph 441, which is where you set out
19	your estimate of the 5%. You say:
20	"I have estimated, based on UK evidence mainly from
21	MasterCard disclosure, that MasterCard would lose around
22	5% of its market to Amex in a zero or low interchange
23	environment."
24	I'm going too fast. Page 211, paragraph 441.
25	A. Apologies, I lost my page.

1	Q. No problem at all.	1	transactions", you see an entry:
2	A. Okay, I'm in 441.	2	"Other three party scheme cards."
3	Q. It is the first sentence of 441, you say that:	3	Which obviously includes Amex and for the UK will be
4	" MasterCard would lose around 5% of its market	4	predominantly Amex, correct?
5	to Amex in a zero or low interchange fee environment."	5	A. Yes.
6	A. Mr Hoskins, yes.	б	Q. We will see that in the period between 2006 and 2009
7	Q. Can we go to bundle B, tab 11, please? You should have	7	Amex increased its market share from 8% to 14%, yes?
8	there one of the information tables that was handed up	8	A. Other three-party scheme cards had that effect, so
9	to the Tribunal?	9	I assume most of that is Amex.
10	A. I do.	10	Q. Okay. So we see a 6% increase over those four years?
11	Q. Have you seen this before?	11	A. Yes.
12	A. Not the last version, but I have seen a version of this.	12	Q. That's twice the level of increase which you say would
13	Q. Thank you. If you go to page 3 of this, you see there	13	have taken place over the nine year claim period if
14	is a table that's shaded, top left:	14	MasterCard had operated with zero or low interchange
15	"Percentage share of cards issued, based on 1 above,	15	fees while Amex applied its actual fees. I say that
16	2(a) debit; 2(b) credit and charge cards."	16	because I'm comparing the 2 to 3% figure which you say
17	Then (i):	17	MasterCard would have lost and I'm just noting that for
18	"Based on number of cards issued."	18	those four years, Amex actually gained 6% in any event.
19	(ii):	19	A. That is right. You are talking about the 6%, but what
20	"Based on value of transactions."	20	has actually changed in those figures changed during
21	It is that part of the table I would like it look	21	that period?
22	at. So you will see:	22	Q. Well, that 6% increase in market share for Amex took
23	"Based on value of transactions, MasterCard"	23	place during a period when MasterCard had average
24	During the claim period, we see that MasterCard had	24	interchange fees of around 0.84%. Does that sound about
25	a market share of between 40 and 60% of the credit card	25	right to you in terms of the level, or do you want to

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see the figure?
A. No, I think that's broadly right.
Q. That average interchange fee applied by MasterCard in
that period is nearly six times higher than the MIT-MIF
that you are suggesting MasterCard should have applied,
correct?
A. Yes.
Q. Yours is 0.15 and this is 0.84.
A. Roughly six, yes.
Q. If in the period between 2006 and 2009 there had been as
wide a disparity between the MasterCard MIF and the Amex
fees, as you propose, Amex would have gained a much
larger market share at MasterCard's expense than it
actually did, would it not?
A. Controlling for what? That is not controlling for
anything. If over the period, actually, you have more
affluent consumers, then you may see a shift towards
Amex, given the same ratio between Amex and the
MasterCard MIF.
Q. We have actual figures because that's what this table
suggests.
A. These are actual figures but you haven't controlled in
any way in that last statement/question for other
factors.
Q. Do you think that if the MasterCard MIF had been 0.15

1	instead of 0.84, Amex would have achieved a materially
2	larger market share at MasterCard's expense or not?
3	A. The point I'm making is that once you go to a low or
4	zero MasterCard MIF, that there would be pressure on
5	Amex to reduce their rates and that's the mechanism that
6	I saw in the Australian data.
7	Q. So that depends, again, on Australia?
8	A. It is something where something has changed and
9	therefore I can observe an effect. I can't speculate.
10	Q. Assume you are wrong on Australia, and Amex isn't under
11	any pressure to lower its merchant fees and doesn't do
12	so, do you accept that, in that scenario, the
13	differential of the sort that I have described would
14	lead to a greater shift in market share from MasterCard
15	to Amex?
16	A. Yes.
17	Q. Can we go to page 5 of the table. You will see in the
18	top left:
19	"Merchants accepting payment by card in thousands."
20	You will see "Number of merchants accepting payments
21	by MasterCard" in the first row. The figures go up from
22	811 to 1126, the same for Visa. Then:
23	"Number of merchants accepting payment by other
24	cards."
25	American Express starts at 570 and goes to 1,000.

1	So what we see is that, whilst Amex had lower acceptance
2	than MasterCard throughout the period, the gap actually
3	narrowed considerably over the period of the claim; do
4	you agree?
5	A. The gap did narrow, yes.
б	Q. Given the growth in Amex's market share between 2006 and
7	2009 that we saw on page 3, consumers obviously viewed
8	the benefits from Amex, such as higher rewards, as
9	compensating for its lower levels of acceptance; do you
10	agree?
11	A. Merchants felt cardholders benefited, merchants felt
12	that they that there was more acceptance by
13	cardholders and thought that more of these desirable
14	affluent people would come into their stores.
15	Q. Can we go to C2, tab 2. I need to keep the table, so
16	you probably want to keep that tab. C2, tab 2. If we
17	go to page 23. You should look at the first page, this
18	is the witness statement of Mr Douglas.
19	A. Yes.
20	Q. That's something you have read, isn't it?
21	A. I have read Mr Douglas.
22	Q. If we go to page 32. I think the easiest way is if you
23	just refresh your memory by reading to yourself
24	paragraphs 42 to 46, please. (Pause)
25	The particular passage I wanted to give you the

1	context, but in 44 you will see that Mr Douglas
2	explains, four lines into 44:
3	"We could not compete with Amex for these issuers
4	based on the standard default interchange fee. As such,
5	we developed and offered our issuing customers
6	an opportunity to issue MasterCard's World credit card
7	as an alternative to Amex. This was a premium product
8	created to compete with Amex in the niche travel and
9	entertainment space in 2005 to 2006. It required
10	a specific level of cardholder rewards and had a higher
11	default interchange rate to cover this. The World card
12	offered a 50 plus BPS premium over standard default
13	domestic rates, resulting in a default interchange rate
14	of between 138 and 150 BPS."
15	I would like you to see the development in relation
16	to World by looking at C2, tab 7. It is the same one as
17	Mr Douglas's statement.
18	A. Sorry.
19	Q. That's fine, tab 7. That should be the witness
20	statement of Mr Willeart?
21	A. Yes.
22	Q. Again, is this something you have read?
23	A. Yes.
24	Q. If we could go to page 128, paragraphs 48 to 49, you

25 will see the last sentence of 48:

1	"I was also involved in the development of
2	MasterCard product to compete with Amex in the co-brand
3	space. As regards the former, I was aware that
4	MasterCard had developed a premium credit card, the
5	World card in 2005, which had a higher premium fallback
б	interchange rate that was competitive for those offered
7	by Amex credit cards."
8	That's what Mr Douglas described, the creation of
9	the niche World card in his statement. Mr Willeart goes
10	on to explain:
11	"This product was subsequently adapted and used by
12	MasterCard in 2009/2010 to respond to the competitive
13	threat that Amex posed more generally in relation to
14	MasterCard's major issuers, who were seeking to target
15	affluent cardholders. MasterCard was on the verge of
16	losing a number of those issuers who were intending to
17	move their entire credit card portfolios to Amex's
18	non-proprietary card."
19	So what we see from this, tell me if you agree or
20	not, is that MasterCard prevented Amex taking further
21	market share by developing and offering to issuers in
22	2009/2010, a premium card called MasterCard World, which
23	had interchange fees which were roughly 0.5% higher than
24	MasterCard's standard interchange fees; do you agree?
25	Do you want me to repeat the question or statement I'm

1	asking you to agree with?	1	is and basically that's Lloyds at that point, which
2	A. Do not repeat your question, I will say yes. There is	2	wasn't working very well then that's the possibly
3	a context, I think, to some of this. But I want you to	3	the drop from 13 to 11. I hope that helps you.
4	ask questions rather than me speak.	4	Q. I think we are agreeing, because my question is not
5	Q. Can I go back to the table that we are looking at in	5	a particularly difficult one. Amex's market share
б	bundle B, tab 11. You can put away the C bundle now.	б	dropped after the introduction of the World card, just
7	Do you want to take some time to do so?	7	as a fact. Let's forget for a moment the whys and
8	A. It is going to create a mountain.	8	wherefores, that is observable from this, isn't it?
9	Q. That's what I'm worried about. You are getting	9	A. We don't know part of it. The point here I'm making is
10	overwhelmed. You need B out at the moment. So we are	10	that the part which is competing between the is the
11	back in the table at page 3. If we pick up the story of	11	GNS and your new MasterCard World card. It is not the
12	Amex's share of the market, so it is the bottom row in	12	proprietary three-party scheme.
13	the table. We have looked at the increase from 2006 to	13	Q. Footnote 12 tells us that the figures in this table
14	2009, from 8% to 14%.	14	include both three party Amex cards, the proprietary
15	What we see is that from 2010 onwards, which	15	cards and Amex GNS cards, correct?
16	coincides with the evidence we have just seen of	16	A. That is right, Mr Hoskins. I'm not going to argue on
17	MasterCard repositioning its World card as a general	17	that point. I'm merely making a factual point that the
18	premium product, what we see is Amex's market share	18	GNS card, the Lloyds card, did not come in in 2006. It
19	declined, correct?	19	came in and correct me if I'm wrong on I'm
20	A. Well, first off, I think we need to explain a bit more	20	going back to Mr Douglas' I think it came in in 2008,
21	for the panel 2008 onwards, because of that 8%, at that	21	not to hold up the Tribunal.
22	point, it is the Amex proprietary scheme. If we go to	22	Q. But the question I'm asking is a really simple one which
23	2007, it is 10%, is proprietary scheme. 13% is the	23	is the total number of Amex cards in the market
24	proprietary scheme. 14 is when we have and this is	24	decreased after 2009, correct?
25	why I need to go back to the previous one, when Lloyds	25	A. The value decreased after 2009, the total number of

1	GNS came in, that is the four-party equivalent of Amex,
2	okay?
3	So if you are going to have competition from other
4	issuers saying, look, we need to have a four-party Amex
5	or we are going to move to a, four-party Amex because
6	we have a MasterCard card and you don't offer enough
7	standard, you would expect that to be around. So the
8	Amex proposition has gone down, 13 to 11, with the
9	threat of a new MasterCard World card. Okay?
10	Q. If you look at footnote 13, it explains:
11	"In addition to three-party scheme cards, these
12	cards include the American Express cards issued under
13	the GNS initiative, which allows financial institutions
14	such as banks to issue American Express cards."
15	We have seen from the evidence that it is precisely
16	because of the GNS threat that MasterCard took the step
17	of broadening out its World card. So what we see, do we
18	not, is that with the introduction of the world card,
19	the effect, even with the launch of GNS, was a reduction
20	in Amex's market share, correct or not?
21	A. I think that needs further clarification because you
22	need to bear in mind that what I'm saying to you is, of
23	that 13%, the GNS accounts for some 2.73. So if we are
24	saying that the World card has competition with GNS and
25	that is your major substitution, then the reduction

18

# 19

1	cards increased. You can see that from number 1, which
2	is the number, and the value is the second bit at the
3	bottom, which you are referring me to.
4	Q. Yes, in a growing market, Amex's share by value of
5	transactions decreased after 2009?
6	MR JUSTICE BARLING: Sorry, you are saying the number of
7	cards increased for Amex but the value of the
8	transactions decreased after 2008?
9	A. And that is right.
10	MR JUSTICE BARLING: Is that what these show. I'm sorry,
11	I haven't followed it through. I don't know where you
12	get the number of cards for Amex.
13	A. If you look at the next row up. So it is number 1. It
14	says:
15	"Based on number of cards issued."
16	MR JUSTICE BARLING: Sorry, I'm with you now. Thank you.
17	MR HOSKINS: If MasterCard had not been able to respond to
18	the competitive threat posed by Amex in 2009, by
19	offering a premium card with higher MIFs are you with
20	me so far then Amex's market share would have
21	continued to increase after 2009, in the same way it did
22	from 2006 to 2009, wouldn't it?
23	A. The people who are holding Amex third party card without
24	a fee with a fee, are not the same people, if you
25	think of competition, who are going to go for that

23

1	MasterCard offering in 2008.
2	What we are talking about is the competition that is
3	the fee paying, competition of the GNS and the Amex
4	the Amex GNS and then the MasterCard card.
5	Q. Do you accept that the development of the MasterCard
б	World card into a general offering in 2009/2010 had
7	an impact on Amex's market share after its introduction?
8	A. In terms of value, yes. In terms of volume, it doesn't
9	say that, it is stable.
10	Q. If, rather than introducing its World card with a level
11	of MIF, which could compete with Amex, MasterCard had
12	instead cut its existing MIF to a sixth of its existing
13	level, so not increasing it, but cutting the existing
14	MIF by a sixth, the loss of market share to Amex would
15	have turned into a flood, wouldn't it?
16	A. There is a tiny bit of a problem, we don't have 2015
17	data.
18	Q. Let's concentrate on the data we have.
19	A. Well, if you
20	Q. Imagine, in my scenario what would have happened between
21	2010 and 2014, if the real world data, which is the
22	introduction on a general basis of the MasterCard World
23	card with a MIF which could compete with the Amex
24	offering, and we are imagining, in your counterfactual
25	that rather than being able to do that, MasterCard could

# 21

1	only offer a card with a sixth of its existing MIF, ie
2	0.15%. So rather than being able to compete with Amex
3	by putting a higher MIF, it had to reduce its existing
4	MIF which wasn't competing with Amex by a sixth. What
5	would the effect have been on Amex's market share?
6	A. The problem here is we are speculating.
7	Q. Of course we are, it is a counterfactual. That's why we
8	are here, I'm sorry.
9	A. No, counterfactuals should really have some realistic
10	basis, you should have a change.
11	If we open the curtain on this beautiful day we
12	notice that at point 3 the MasterCard MIF has come down
13	from 0.81. We do not observe necessarily everyone
14	rushing to get their Amex GNS at 0.69. So there has
15	been a change in the market outside and yet we are not
16	observing
17	Q. This is prior to the regulation, I'm looking at the
18	period prior to the regulation.
19	A. If you
20	Q. I'm asking you to imagine a counterfactual because
21	that's what the Tribunal has to do to decide the case?
22	A. So prior to the regulation, would we be looking at Amex
23	being regulated at all?
24	Q. No.
25	A. Okay. So if we do that, then I think we then go back to

1	the Australian evidence.
2	Q. If you are wrong about Australia, and Amex is able to
3	and does maintain its actual merchant fee levels that
4	applied during this period, but MasterCard has to cut
5	its MIFs by a sixth of what it applied between the years
б	2010 and 2014, there would have been a flood of issuers
7	switching to Amex from MasterCard, correct or not?
8	A. First off, there would be if I'm wrong about the
9	Australian evidence, that there is no merchant pressure
10	leading to the Amex discount rate falling, then for
11	issuers would have a choice whether they moved to issue
12	Amex GNS cards. Whether they are going to do that for
13	more than the premium segment, I would say not; that's
14	my submission.
15	In other words, it doesn't wipe out MasterCard. It
16	may mean that they have to retrench, which is in the
17	words, I think, of Mr Tittarelli, in some form.
18	Q. So you accept that in the counterfactual I have
19	described there would be significant switching from
20	MasterCard to Amex?
21	A. In the counterfactual you describe, yes, of some form.
22	Q. Let's go to Australia. Bundle D2, tab 2. This is,

- again, your first report at page 161, paragraph 181:
- 24 "In Australia the RBA capped the MasterCard and Visa
- 25 credit card weighted average interchange fees which fell

# 23

1	from about 0.95% to 0.55% on 1st November 2003, and then
2	to a maximum of 0.5% from 1st November 2006."
3	So the Australian regulation applied on its
4	introduction to both MasterCard and Visa, correct?
5	A. MasterCard and Visa credit cards, yes.
6	Q. Yes. The Australian experience doesn't tell us anything
7	material, does it, about what would have happened in the
8	UK if the MasterCard MIF had been materially lower than
9	the Visa MIF?
10	A. The effect was applied to both.
11	Q. So it follows that the Australian experience can't tell
12	us anything useful about what would have happened in
13	a counterfactual where the MasterCard MIF had been low
14	or zero and the Visa MIF had been maintained at its
15	actual level; Australia can't help us with that, can it?
16	A. Agree. Sorry, I said yes.
17	Q. Sorry, I did not pick up your answer. Can we go to
18	E3.14. You want to keep bundle D2 out. E3.14, tab 265.
19	It is right at the front of
20	A. Sorry.
21	Q the bundle. It should be an article by Jean Tirole.
22	A. That is right.
23	Q. If you go through to page 5694 of this article. At the
24	second paragraph on 5694:
25	"In reaction to downward pressure on interchange

1	fees, cardholders and issuers who benefit from higher
2	interchange fees, so long as merchants keep accepting
3	the card, have an incentive to migrate toward card
4	payment schemes that put more of the burden on the
5	merchant.
б	"A case in point is Australia, where, in the wake of
7	the mandated decrease in the interchange fee, three of
8	the top four Australian banks signed up agreements to
9	issue American Express or Diners Club cards."
10	Were you aware of that before you read this article?
11	A. Yes.
12	Q. But you did not mention it in your reports.
13	A. Sorry, I think we did.
14	Q. You mentioned in your reports that three of the top four
15	Australian banks signed up to agreements to issue
16	American Express or Diners Club's cards?
17	A. In 2004 and then in 2009, two episodes.
18	Q. Can we go back to D2/2. You can put away E3.14 for the
19	moment. Again, it is your first report at page 69
20	please. At paragraphs 69 to 70
21	A. Sorry, Mr Hoskins for that last answer, can I just refer
22	you to paragraph 192, which is on page 164 of my first
23	report, just to clarify, for the reference. Now 64.
24	Q. Back into yes, so we are in that report and it is
25	page 69. Paragraph 69, you say:

page 69. Paragraph 69, you say:

# 

1	"The reason why the Amex gain was so small in
2	Australia, and would have been similarly small in the UK
3	in a low interchange fee environment, is that Amex was
4	unable to obtain its relatively"
5	That should be "relatively high MSCs". Is that
б	correct, the word "high" is missing?
7	A. Yes, sir.
8	Q. What happened was the Amex MSC fell in line with the
9	fallen four-party Visa and MasterCard MSCs:
10	"With lower income from merchants, this meant that
11	Amex was not able to maintain their attractiveness of
12	their rewards. As a result, it did not gain any
13	competitive advantage over Visa and MasterCard following
14	the reduction in the interchange fees. Although it was
15	not directly affected by the regulation it nonetheless
16	experienced a similar and in fact larger fall in its
17	MSCs.
18	"What ultimately drove this process was the
19	willingness of merchants to fund rewards programmes via
20	higher MSC payments and they would only be prepared to
21	do this if there was compelling evidence that Amex cards
22	could offer a significant level of incremental spend.
23	In Australia a large number of merchants responded by
24	starting to surcharge, meaning if a cardholder wanted to
25	accumulate rewards points they would have to fund them

1	themselves. The increase in surcharging undermines the
2	Amex business model and provides a strong incentive for
3	Amex to reduce its MSCs."
4	That's what you have been bursting to tell the
5	Tribunal for most of your evidence, isn't it? That is
6	the point you have been making?
7	A. I think the point is actually not just 70, but actually
8	going back to the data and looking at the impact of Amex
9	in Australia, both in terms of its share and here in 70
10	in terms of how the price the discount rate in
11	Australia for Amex fell.
12	Q. Can we go to page 199 of your report. 367 you say:
13	"What we have seen in Australia is merchants react
14	by making increased use of surcharging."
15	Again, it is your point about merchants don't want
16	to pay higher Amex fees so they react and put pressure
17	on by surcharging; is that a fair summary of your
18	evidence in these paragraphs?
19	A. Yes.
20	Q. If you go to E3.13, at tab 249, you should have
21	a MasterCard Worldwide document entitled:
22	"UK alternative premium model."
23	A. Yes, a confidential one.
24	Q. It is okay, I am going on show you something that's
25	A. We will make sure we can deal with it, yes?

A. We will make sure we can deal with it, yes?

# 

1	Q. If you feel uncomfortable you can't give an answer, you
2	shout.
3	At 5334, you should have a slide that begins
4	"Surcharging has risen rapidly since 2006"; do you have
5	that?
6	A. I do.
7	Q. You will see top right, above the MasterCard symbol,
8	Australia. So this is relating to Australia, yes?
9	A. Yes.
10	Q. This shows what you explained in your evidence, that
11	there was a rapid increase in surcharging in Australia
12	after the introduction of their regulation, correct?
13	A. The regulation starts in 2006, in terms of debit cards,
14	and 2003, yes.
15	Q. But this confirms your evidence, that's what you are
16	talking about, isn't it?
17	A. It confirms that we have an increase in surcharging,
18	yes.
19	Q. If you put that away, can we go to bundle 5.4?
20	A. Let me just say, this slide actually says "at least one
21	credit card". It is not clear what this actually means,
22	does it actually mean Amex only or is it MasterCard?
23	I just wanted to clarify that. I don't know.
24	Q. I was showing this to confirm your own evidence which
25	was that surcharging increased (inaudible) in Australia

1	after the introduction of the regulation?
2	A. I know but this terms of surcharging, there is the fact
3	of surcharging and then it is how surcharging actually
4	takes place. That was
5	Q. Can we go to 5.4, at tab 56. This is the Commission's
б	impact assessment for the regulation; do you have that?
7	A. I do sir.
8	Q. Can we go through to page 1593, you will see there is
9	a heading in the middle of the page:
10	"2.6, option 16: exemption of commercial cards and
11	three-party schemes."
12	The third paragraph down:
13	"Based on the experience in other constituencies, in
14	particular Australia, we do not expect either commercial
15	cards or three-party schemes could take over the debit
16	and credit card markets in this situation by offering
17	more advantages to customers."
18	Then there is a discussion of the Australian
19	situation. It is the next paragraph I want to look at:
20	"Due to downward pressure on Visa and MasterCard IFs
21	through caps and increased transparency measures, a ban
22	on the no surcharge rule, removing the HACR between
23	debit and credit cards, both the MSCs on Visa MSC and
24	three-party schemes decreased. Though surcharging was
25	slow to develop among merchants, by the end of 2010

# 29

1	almost 30% of merchants imposed surcharging on credit
2	card products. The average surcharge on American
3	Express was 2.9% and for Diners Club 4%, these
4	surcharges being higher than the MSCs, 1 percentage
5	point for Amex and 1.8 for Diners Club. The RBA has
б	received evidence that consumers respond to surcharges
7	by avoiding the use of more expensive cards where
8	possible."
9	So what we see in Australia, not only was there
10	an increase in surcharging, but the average surcharge in
11	relation to American Express was actually larger than
12	its fees, correct?
13	A. Yes.
14	Q. If we can go back to you can put this way away, 5.4
15	away. Go back to your first report, D2, tab 2. Go to
16	page 224. You will see the heading at the bottom of the
17	page:
18	"Has surcharging been a realistic option for
19	merchants and, if so, has this led indirectly to
20	downward pressure on interchange fees?"
21	This is in the context not of Australia but of the
22	UK, correct, this part of your report?
23	A. Yes.
24	Q. You make a point about how surcharging would exert
25	a significant constraint but on 551, over the page, you

merchants."

25

1	say:
2	"However, in practice many merchants are reluctant
3	to surcharge for fear of losing (Reading to the
4	words) David Brooks witness statement. We do not
5	surcharge our customers for card payments because our
6	competitors do not. If we did, we would clearly risk
7	losing our customer's business to others who do not
8	surcharge."
9	Then 5.12:
10	"Additionally, the British Retail Consortium, BRC,
11	noted that the majority of members do not levy
12	surcharges. In addition to the competitive constraints,
13	the BRC noted that there are practical(Reading to
14	the words) this would present a competitive advantage
15	to another. Complex hardware, software and staff
16	training would be required to implement an accurate
17	surcharging mechanism and process this point of sale."
18	Mr Brooks' evidence on this is at C1, tab 3. If we
19	look at paragraph 32 on page 41
20	A. Could you give me that reference again.
21	Q. Tab 3 of C1, page 41, paragraph 32:
22	"We do not surcharge our customers for card payments
23	because our competitors do not. If we did we would
24	clearly risk losing our customers' business to others

clearly risk losing our customers' business to others

who do not surcharge. Most retailers do not surcharge

# 31

1	(Reading to the words) should be banned on all
2	cards. I agreed with the BRC position and this is
3	basically what I understand the regulations provide."
4	So according to Mr Brooks' evidence, surcharging is
5	neither desirable nor feasible in the UK; do you agree?
6	A. Correct me if I'm wrong, but I think I bought a Ryanair
7	ticket, where there is surcharging in the UK? Certainly
8	in the past; I haven't done it recently, I promise.
9	MR JUSTICE BARLING: You weren't asked about you were
10	asked whether you agreed it was undesirable.
11	A. At the moment, in the current situation, what Mr Brooks
12	says is a fact.
13	MR HOSKINS: Can we go to E1, tab 3. You will see this is
14	the OFT decision in relation to MasterCard that was
15	subsequently annulled.
16	A. Yes.
17	Q. If we go to page 132
18	A. Yes. Is it page 132 not the
19	Q. Page 132 of the bundle.
20	A. I have got it.
21	Q. Paragraph 281:
22	"Lastly, the OFT considers that the relative rarity
23	of surcharging by merchants in the UK is itself evidence
24	that it is unlikely it would be a viable option for many

1	Do you agree with that view of the OFT?	1	recent financial year. For credit cards the number of
2	A. At that time it would have been, yes.	2	categories of interchange fees has risen from three to
3	Q. So what we see from all this evidence, which is specific	3	19 for the MasterCard system and from five to 23 for the
4	to the UK, is that, whilst in Australia Amex reduced its	4	Visa system since November 2003.
5	MSCs because merchants began to impose surcharges on the	5	"Furthermore, there has been a significant widening
6	use of its cards, surcharging is not a feasible option	6	in the range of interchange rates. For the MasterCard
7	in the UK; do you agree?	7	system this range was widened from 63 basis points in
8	A. Given the Visa and MasterCard situation at the time, it	8	2003 (Reading to the words) 48 basis points to 180
9	was not seen as a feasible option. That's what it says.	9	basis points."
10	Q. If surcharging was not a feasible option in the UK, the	10	We see that in Australia the regulation provided for
11	Australian experience is not relevant to the UK, is it?	11	a weighted average interchange fee for MasterCard and
12	A. If in the counterfactual things change then the	12	Visa; that is correct, isn't it?
13	Australian experience is something to think about, about	13	A. That is correct.
14	how the market may change. The OFT paragraph here is in	14	Q. MasterCard and Visa were entitled to apply different
15	the context of that situation which, in effect, we are	15	MIFs to different types of credit card, correct?
16	saying is the actual.	16	A. That is correct.
17	Q. Without any feasible prospect of surcharging, it is	17	Q. When we look at graph 9 in this document, "Credit card
18	likely, is it not, that Amex would have maintained its	18	interchange fees, range of interchange fees", you will
19	merchant fees at a high level in the UK if MasterCard	19	see on the left the spread for MasterCard, we see that
20	had had a MIF at a zero or low level?	20	MasterCard did in fact apply a widespread of MIF rates,
21	A. You are mentioning Amex?	21	correct?
22	Q. Absolutely. I'm saying if, absent surcharging, then	22	A. It did, yes.
23	Amex would have maintained its merchant fee at a high	23	Q. If we can go now to bundle E3. It is a document we have
24	level, if MasterCard had a zero or low MIF?	24	seen already, MasterCard Worldwide UK alternative
25	A. Absent surcharging or non-acceptance of the Amex card.	25	premium model, yes? 2nd November 2012.

# 

1	Q. You agree with
2	A. That is I'm just defining it properly.
3	Q. It is obvious why it would have done that because it
4	would have had a significant competitive advantage over
5	MasterCard, wouldn't it?
6	A. The competitive advantage of Amex is for the affluent.
7	Not all merchants accept it. So to the extent that
8	merchants do accept, that is the case.
9	Q. Can we go back to E3.14. This time go to tab 270.
10	(Pause)
11	You will see that this is a Reserve Bank of
12	Australia document. Sorry, are you there? It is 270.
13	A. I am, sir.
14	Q. Reserve Bank of Australia, review of card payment
15	regulations issues paper for March 2015, yes?
16	A. Yes.
17	Q. Then if you can go through to page 6297, you see the
18	heading "Interchange fees". RBA states:
19	"The standards on interchange fees for MasterCard
20	and Visa systems set benchmarks for the average
21	interchange fee"
22	The average interchange fee:
23	" that could be paid in those systems, the
24	standards require that every three years or at the time
25	of any other(Reading to the words) of the most

1	A. Which tab?
2	Q. I'm so sorry, I'm ahead of myself, tab 249.
3	A. This is the confidential document.
4	Q. Thank you, you are right. Keep reminding me. The bit
5	I'm going to show you is not confidential.
6	A. We will try our best.
7	Q. No, I'm very grateful. If you can go through to 5328.
8	If you just bear with me for one second. (Pause)
9	I'm told that we are safe to refer to this page:
10	"In Australia surcharging and reduced Amex economics
11	limited shift in scheme shares. Regulations introduced
12	in 2003 caused interchange to drop by 45 basis points
13	led to significant restructuring of credit card
14	value propositions to compensate (Reading to the
15	words) issued Duo products."
16	Which is the point we saw before:
17	" led to a significant but increase in Amex share
18	from (Reading to the words) VISA, albeit slower."
19	That was the surcharging effect that we looked at
20	a few minutes ago:
21	"Merchants forced Amex to come down by surcharging."
22	Yes?
23	A. Yes.
24	Q. Then:
25	" and because MasterCard/Visa extensively used

1	a second construction and a second
T	premium interchange rates.
2	So what we see, do we not, is that, due to its
3	ability to apply higher MIFs for premium credit cards,
4	MasterCard was able to limit the damage that Amex could
5	do to it in the Australian market? It used its ability
6	to apply a range of rates to apply high rates to premium
7	cards to limit the damage from Amex, correct?
8	A. The graph, graph 9, so we do see the differential
9	widens. There were obviously some transactions at
10	the 2, towards the Amex level, and other ones have to be
11	correspondingly lower. So the argument is that Amex
12	there is a sufficient number being able to be charged
13	at 2 to limit Amex's behaviour. Now, that's pretty hard
14	as an explanation to understand why Amex then reduced
15	its discount rate.
16	Q. We know why because of surcharging, we have been through
17	all that.
18	A. But what we call anti-circumvention maybe. I don't want
19	to use that term too loosely, but if that was the case,
20	I would also expect that Amex rates would have raised in
21	response, and they didn't, if that is the explanation.
22	So I do not agree with you, sir.
23	Q. We see there was a range, we see there was a high range
24	and we see from a MasterCard internal document that
25	MasterCard and VISA extensively used premium interchange

1	rates to compete with Amex. Are you saying that
2	MasterCard and Visa did not extensively use premium
3	interchange rates to compete with Amex?
4	A. What we don't know
5	Q. Sorry, do you
6	A. They obviously did do
7	Q. Thank you.
8	A. What we don't know is how much.
9	Q. Under your proposed counterfactual, in the UK, of zero
10	or low MIFs, MasterCard would of course have had no
11	ability to apply higher MIFs for premium credit cards in
12	the UK, would it, because your MIF is 0.15?
13	A. It's 0.15, yes.
14	Q. If an issuer sought to charge by way of an annual fee or
15	a per transaction charge for a non-premium card, we're
16	talking about charging the cardholder, for a non-premium
17	card, what would happen? So if an issuer sought to
18	charge for a non-premium card what would happen?
19	A. Demand for the card should go down.
20	Q. So the number of transactions using that credit card
21	would fall, yes?
22	A. Yes.
23	Q. The number of consumers holding that credit card would
24	fall, yes?
25	A. Yes.

1	Q. If the issuer maintained that position for a reasonable
2	period of time, say a year, the following cardholders
3	would be material, yes? It is not de minimis, the
4	effect.
5	A. It is not de minimis.
6	Q. If the number of cardholders fell, merchants would be
7	less willing to pay an MSC to accept those cards,
8	correct?
9	A. Than otherwise would be the case, yes.
10	Q. If we go back to D2, tab 2.
11	A. The first expert report.
12	Q. That is correct, yes. At page 207, paragraph 419, you
13	say:
14	"Both the prohibition on ex post pricing and the
15	abolition of the HACR would involve bilateral
16	negotiations between issuers and acquirers. These could
17	potentially be costly and would yield little, if any,
18	gain for issuers."
19	Why would they be costly?
20	A. In terms of the transaction costs of actually
21	negotiating.
22	Q. Why would they yield little, if any, gain for issuers?
23	A. In terms of the ex post pricing that could be the
24	outcome of the negotiation, remember we are not in the

25 default MIF, we are in negotiation between the acquirers

1	and issuers. I think your point the ex post pricing
2	may be zero and I'm saying it could be up to the level
3	of transaction benefits. How do you measure those? It
4	is roughly 0.15, is what I'm saying.
5	Q. If the MasterCard system was subject to a prohibition on
б	ex post pricing but the Visa scheme were not, what would
7	happen?
8	A. I explained my counterfactual, in response to the Visa
9	staying up and the ex post pricing being applied to
10	MasterCard yesterday.
11	Q. Issuers would migrate to the Visa scheme, is the answer,
12	isn't it?
13	A. It depends whether that is a temporary or a permanent
14	move.
15	Q. Assume it applies over the period of the claim?
16	A. Then your supposition is correct.
17	Q. Then, going to page 220
18	MR SMITH: Sorry, Mr von Hinten Reed, just staying on
19	paragraph 419, again. When you say that there's
20	potentially little gain for issuers negotiating
21	bilaterals, is that a conclusion that you reach because
22	of your assumption that there is a prohibition on
23	ex post pricing?
24	A. Yes. In other words, you have we are in a world of
25	bilaterals, so forget about the default MIF for one

1	minute. We have a honour all cards rule and to stop the	1	issuer and acquirer is between 0 interchange and 0.15?
2	collapse, which in my submission, obviously not in	2	A. Exactly, and in the alternative world where you are not
3	Dr Niels', but in my submission that would result, you	3	thinking about the default MIF, you are thinking
4	impose an ex post pricing rule. All I'm saying to you	4	about you then have a negotiation. If you have the
5	then is: what's the value? There would still be	5	HACR, you have the ex post pricing rule, then that's the
6	negotiations, what is the value you could eke out from	6	range of negotiation value.
7	those negotiations?	7	MR SMITH: Just to be absolutely clear, your 0.15 derives
8	I think from the merchant's perspective, because	8	from the MIT-MIF.
9	they are now in negotiation, they would say up to the	9	A. Yes, but I'm deriving the I'm using the methodology
10	level of transaction benefits I'm willing to negotiate.	10	to derive the value of transaction benefits. I'm not
11	So that is the 0 to that value. I'm just simply giving	11	saying it is because it is don't confuse it with the
12	a value based upon how we calculate transaction	12	default MIF.
13	benefits. So it could be zero or it could be 0.15.	13	MR SMITH: No, no.
14	That's the sort of negotiation space you have got and it	14	A. It is simply a methodology.
15	all depends how difficult those negotiations are. If it	15	MR SMITH: I understand, we are talking about bilateral
16	is quite easy because you have the protocols, then the	16	negotiations but I wanted to understand where your
17	transaction costs of the negotiation are low, if not	17	ceiling came interest.
18	they could be high. I don't know, sir, on that.	18	A. And that is where I take it.
19	MR SMITH: On the assumptions in paragraph 419, absent	19	MR SMITH: The savings, thank you.
20	a bilateral agreement, the issuer's interchange fee is	20	MR HOSKINS: Sir, it is probably a good time. I could do
21	zero; is that right?	21	with lunch.
22	A. You need some sort of acceptance. If you have the HACR	22	MR JUSTICE BARLING: Yes, I am sure you could. I am sure
23	and I'm not assuming that the	23	Mr von Hinten Reed could as well.
24	MR SMITH: Assume the HACR is in place, assume also that	24	Mr von Hinten Reed, remember you don't talk to
25	there is a rule, as you say here, prohibiting ex post	25	anyone about the case over the lunch break.

25 there is a rule, as you say here, prohibiting ex post

# 41

1	pricing.
2	A. It doesn't necessarily have to be zero.
3	MR SMITH: But the only way you move from zero is by
4	bilateral agreement?
5	A. Exactly. That's where the negotiation comes in.
6	MR SMITH: So I don't quite understand why you are saying
7	that there is little gain for issuers because the whole
8	reason for an issuer entering into a bilateral
9	negotiation would be to shift the interchange up.
10	A. Yes, to get some of that 0.15 over to their cardholders.
11	So the question is, if the costs of negotiation are
12	large, then you eat into that money that you are
13	shifting from the merchant over to the other side.
14	MR SMITH: Right, so the reason you are saying, in
15	paragraph 419, that it would yield little is because of
16	your opinion that the range for negotiation of the
17	interchange fee is up to 0.15?
18	A. It could, yes.
19	MR SMITH: But no
20	A. I don't know where we lie on that continuum, okay?
21	Whether it is 0, 0.5 up to 0.15, I don't know.
22	MR SMITH: But what you are saying, I think, is that the
23	0.15 represents the maximum.
24	A. Yes, sir.
25	MR SMITH: In other words, the room for negotiation between

42

1	A. Even my wife.
2	MR JUSTICE BARLING: Anyone. Thank you.
3	(1.00 pm)
4	(The short adjournment)
5	(2.00 pm)
б	MR HOSKINS: Good afternoon.
7	MR JUSTICE BARLING: Okay?
8	MR HOSKINS: Yes. Our old favourite D2, tab 2. This time
9	at page 207. Just before lunch we saw paragraph 419.
10	This time 420, you say:
11	"As noted in section 6.3.1, the evidence suggests
12	that issuers are likely to remain financially viable in
13	the absence of the MasterCard UK MIF. Therefore,
14	instead of incurring the costs of bilateral negotiations
15	for potentially little gain, issuers might be willing to
16	accept "at par" clearing, that is, issuers process the
17	transaction without deducting an interchange fee."
18	I just want to clarify that would be equivalent to
19	a zero MIF, wouldn't it?
20	A. Yes.
21	Q. Then, if you can go to D3, tab 3, which is Dr Niels'
22	first report. Then go to page 258, paragraph 3.59. He
23	says:
24	"In the absence of a default UK MIF and any
25	hypothetical explicitly or implicitly requiring the

1	interchange fee to be zero, all transaction settlements
2	between an acquirer and a issuer within the scheme would
3	require a bilateral agreement between the two banks in
4	their terms of dealing, including in relation to
5	interchange. In such a situation, the relevant factor
б	in the bilateral negotiation is that the acquirer
7	effectively has no choice but to settle a payment with
8	the issuer in question, since this transaction was made
9	by one of that issuer's cardholders. In economic theory
10	this has been described as the hold up, hold out or
11	(Reading to the words) Economic models commonly
12	find that a situation with a series of bilateral
13	interchange fees and no default MIF tend to result in
14	higher interchange fees overall than one with a default
15	MIF."
16	Then you deal with that issue this is in your
17	second report, so it is D2.1, tab 3, page 455. You
18	refer to the passages we have just looked at, as
19	I understand it, you agree with the existence of this
20	economic theory, the hold up or hold out or Cournot
21	theory; is that correct?
22	A. I agree with the hold out theory.
23	Q. Then at 185, you say:
24	"Under bilateral negotiations under the honour all

25 cards rule, HACR, interchange fees would be pushed so

# 45

1	high that the scheme would collapse."
2	I think what that means is that in the situation
3	contemplated there, ie bilateral negotiations under the
4	HACR, what you are saying one would find is that MIFs
5	would have been driven higher than the actual level
6	during the period of the claim, is that correct, in the
7	first instance?
8	A. In the first instance there is nothing to stop the MIFs
9	under a HACR rising and rising.
10	Q. Then, ultimately, you say the scheme would collapse
11	under this system?
12	A. That is right.
13	Q. You will be glad to hear we can move on to a new topic,
14	which is the exemptable level of the MIF.
15	A. Can I just make a small the economic theory cited
16	I think it is the Small and Wright paper try not to
17	read it before bed, it is very technical but it
18	basically sums up that there would be a collapse in this
19	sort of situation. So that the words "implosion" or
20	"collapse" arise in that literature, that's where I get
21	this from.
22	MR JUSTICE BARLING: Thank you.
23	PROFESSOR JOHN BEATH: I think it is referenced in Dr Niels'
24	report anyway as a footnote to the paragraph we have
25	just been looking at.

1	MR HOSKINS: As we know, in relation to the exemptable level
2	of the MIF, you have suggested that the merchant
3	indifference test is the most appropriate way to
4	calculate the acceptable level of the UK domestic MIF
5	during the period of the claim, yes?
б	A. Yes.
7	Q. Can we go to E3.10, tab 202.
8	A. I don't seem to have that.
9	Q. Which: the tab or the bundle?
10	A. No, the bundle is E3.10. I don't have
11	Q. Then tab 202.
12	A. I don't have 202, sorry.
13	Q. If someone can help find a copy, it is the Commission's
14	2015 survey on merchants cost of processing.
15	A. It is not there.
16	MR JUSTICE BARLING: I think it was added to ours.
17	PROFESSOR JOHN BEATH: Yes.
18	MR HOSKINS: So the Tribunal has the document?
19	MR JUSTICE BARLING: We have it because I think it was
20	referred to in submissions.
21	MR HOSKINS: Let me hand up an extra copy.
22	You see this is the Commission's survey which you

- have probably read a few times, I imagine?
- 24 A. Yes.
- 25 Q. Can we pick it up at page 4295. Paragraph 6, the

# 47

1	Commission says:
2	"The determination of the nature of costs, in
3	particular the actual split between fixed costs and
4	variable costs, is crucial for the definition of the
5	cost functions of payment instruments and the
б	implementation of the MIT."
7	Do you agree with that?
8	A. Yes.
9	Q. Then it goes on to say:
10	"The total cost function of a payment instrument is
11	typically defined as the sum of fixed costs, ie costs
12	which do not vary with the number and value of payments
13	with the payment instrument and variable costs."
14	Do you agree with that?
15	A. As a definition, yes.
16	Q. If we go to paragraph 7, the Commission says:
17	"The definition of fixed costs (Reading to the
18	words) costs become variable."
19	Again, do you agree with that?
20	A. Yes, although I think it is more helpful for the panel,
21	in my report I have described these things as "avoidable
22	costs". So, in other words, when you change from cash
23	to card it is the costs that you don't need to incur, so
24	that it is perhaps more helpful.
25	Q. What sort of costs might vary or be avoidable over

1	a longer period give me some examples?
2	A If you think of the movement from cash to cards, it may
2	he that the costs of transporting the cash to the bank
5	
4	may change. If the increment is sufficient. So if it
5	is one transaction, it won't make an awful lot of
6	difference, and if it is 10% of transactions that may
7	change somewhat. It depends upon the circumstance.
8	Q. So cost of transporting cash, cost of security, having
9	cash on the premises?
10	A. That could be. I have done in my annex B I have
11	actually set out a very extensive classification, so if
12	you would like to go to that, I would be happy to do
13	that but
14	Q. I just want some examples of
15	A. So
16	Q the sorts of things that might vary over time, over
17	a longer period.
18	A. For example, in a store, if you go to Sainsbury's round
19	the corner you will see the tills, and the tills are
20	self service some are self service and some are
21	manned and that's changed over time.
22	The wages that are paid by to people on the shop
23	floor and the amount of labour you need to not transport
24	but handle cash in the back office may change as well.
25	That sort of thing.

# 

1	Q. Again, at paragraph 7 the Commission goes on:
2	"The different sets of results obtained through the
3	present study correspond to either short-term,
4	medium-term, three to four years, or long-term
5	definition of fixed and variable costs."
6	In your report you have adopted a medium-term
7	approach, correct?
8	A. I did but I think there is a basic problem with this
9	sentence because Deloittes remember this is
10	a one-year survey. So you can't really think of long
11	term in terms of one year. If you are going to do
12	a long-term approach you need to have more than one
13	year, indeed many more than one year.
14	Q. The same would apply to medium term then, three to four
15	years, that is more than one year.
16	A. You can assess it in terms of medium term, in terms of
17	thinking about things that have changed over that period
18	of time, but it depends upon the sort of analysis you
19	are trying to actually do.
20	Q. What Deloittes did was ask the merchants to categorise
21	costs according to particular timescales, so the fact
22	that this was a survey for one year doesn't matter
23	because, as we will see, what they were doing was asking
24	merchants to classify costs as essentially fixed or
25	variable over a certain period of time. They were asked

# to assess, weren't they?

2	A. They were asked to assess and basically, in terms of
3	that question, that is really scenario 2 when you think
4	about how things have changed over a period of time. If
5	in terms of long-term analysis, which is the econometric
б	approach, that is based on one year and you are supposed
7	to assume that that is long-term. That for me is not
8	correct.
9	Q. In your report, just to clarify, because I don't think
10	you have answered a question yet, you have adopted
11	a medium-term approach?
12	A. Yes, sir, which, by the way for them I know we are
13	going to use these terms quite often, so we may as well.
14	The short term is scenario 1, that was one
15	transaction. The medium term was a 10% increment or
16	decrease in the use of cash to cards. That was measured
17	over three to four years. Then the long term is the
18	econometric approach. Is that helpful, sir?
19	Q. I mean, that's what the Commission did, yes.
20	A. Yes.
21	Q. Again, this is a fairly obvious question, I hope, but
22	a MIT-MIF, which is calculated on the medium-term
23	approach will necessarily not take account of costs
24	which would vary over a longer period; do you agree?
25	A. Yes, it would be deemed to be fixed.

1	Q. A MIT-MIF calculated on a medium-term approach will
2	necessarily not fully reflect the total costs and
3	benefit to the users or to society more generally of
4	a given payment system; do you agree?
5	A. Let me explain the medium-term approach, in terms of the
6	costs of cash in payments for the merchant. In terms of
7	social welfare, you are not thinking in terms of
8	a producer on the other side. So what we are talking
9	about are the merchants. So the answer to your question
10	is yes.
11	Q. Can we go to E3.14, at tab 266. You should have
12	an article called the "Economics of payment cards", by
13	Rysman and Wright?
14	A. Yes.
15	Q. If we can go to page 5736. You will see there the last
16	paragraph on page 5736 begins "Another important
17	practical concern"; do you have that?
18	5736, and it is the last paragraph on that page, it
19	begins "Another important practical concern".
20	A. Mmm hmm.
21	Q. If you go down six lines, you will see they say:
22	"The concept of a merchant indifference test is
23	based on a theory that(Reading to the words)
24	cards or cash and that the extra costs of one or more
25	transaction is constant, it therefore focuses on

2

8

1	marginal costs, ie the additional costs to the merchant
2	if a cardholder uses cash rather than card for a single
3	transaction."
4	Do you agree with that statement?
5	A. The theory that's referred to here is, I think, the
6	Rochet and Tirole paper, in terms of the Tourist Test on
7	one transaction. If you go to the medium-term approach,
8	or think of it in terms of avoidable cost, you are
9	actually thinking in terms of some of those costs of
10	payments actually changing over time as the amount of
11	cash reduces and the amount of cards increases. So it
12	is not quite true.
13	Q. Do you agree with the statement that the concept of
14	a merchant indifference test is based on a theory which
15	assumes no fixed costs to merchants of accepting cards
16	or cash? I appreciate the definition of "fixed costs"
17	can vary over time, we have established that?
18	A. Okay.
19	Q. But once you have adopted your timeframe and established
20	their fixed costs, the MIT doesn't take account of them,
21	does it?
22	A. There are some fixed costs, yes.
23	Q. Which are not taken account of?
24	A. Which are not taken account of, no.
25	Q. Then the authors go on to say:

### 53

1	"However, in reality, there are some lumpy costs.
2	For example, the costs saving of eliminating (Reading
3	to the words) These types of costs should presumably
4	still be averaged per transaction and included since
5	they ensure the regulated interchange fee provides the
б	right long-run incentives."
7	Do you agree with that?
8	A. Yes, that's why I preferred the scenario 2, over three
9	to four years over the one transaction. I think we are
10	agreed on that across the parties.
11	Q. But, insofar as there are costs which may vary over
12	a longer term, ie more than three to four years, do you
13	accept that your MIT calculation underestimates a MIF on
14	that basis?
15	A. The calculation the central calculation does but
16	I have also done a sensitivity test implying basically
17	everything moves to variable by value or variable by
18	volume.
19	Q. I'm going to come onto that but the MIT itself, over
20	three to four years, by definition, I think you have
21	already agreed, will exclude costs that vary over
22	a longer time period than three or four years?
23	A. Yes.
24	Q. Julian Wright, who is one of the co-authors of this
25	paper is a well respected academic in this field, isn't

4	
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- he? A. Yes.
- 3 Q. And so is Jean Tirole?
- 4 A. Yes.
- 5 Q. And so is Professor Rochet?
- б A. Yes.
- 7 Q. They are all recognised as having specialised knowledge
  - in the economic analysis of MIFs, aren't they?
- A. Of the regulation of MIFs, that's the literature, yes. 9
- 10 Q. If we look at page 5701 of this document --
- 11 A. Sorry, 5701?
- 12 Q. Yes, the first page.
- 13 A. I apologise.
- 14 Q. You see at the bottom of the page "Acknowledgements", it 15 says:
- "This research was supported by a grant from Visa." 16
- 17 Do you see that?
- 18 A. Yes, I do.
  - Q. If particular research or a paper has been supported in
- 20 that way, it is good academic practice to state that
- 21 expressly, isn't it?
- 22 A. Yes.

19

- 23 MR JUSTICE BARLING: Just to interject, I haven't got
- 24 page 5701 -- I haven't got the beginning, I start at
- 25 page 5703. If there's any chance at some point, no

1	hurry, someone could thank you, Mr Cook. Sorry to
2	deprive you. (Handed)
3	MR HOSKINS: Do merchants want the MIF to be high or low?
4	A. Low.
5	Q. The calculation of the MIT-MIF in the Commission's 2015
б	survey, under the medium-term approach, was based on
7	data supplied by merchants, wasn't it?
8	A. Yes.
9	Q. Can we go back to the survey. So that is E3.10,
10	tab 202. At page 4294, you see at the bottom
11	"Methodology". If I can pick it up at the top of the
12	next page, you will see five lines down there is
13	a sentence that begins in the middle:
14	"The detailed data collection"
15	Do you see that?
16	A. I see that, yes.
17	Q. "The detailed data collection requested by DG
18	competition was therefore very resource intensive and,
19	as such, could not be carried out with a large number of
20	merchants. In order to maximise coverage and to ensure
21	the best quality data, it was decided to focus the cost
22	measurement only on large merchants in ten countries
23	with the highest retail turnover in the EU. Eventually
24	this represents a trade off between provision of data
25	and sample size and representativeness. Furthermore,

1	the data collection did not manage to reach the target
2	number of replies. Several merchants mentioned resource
3	implications and confidentiality concerns to justify
4	their refusal to participate.
5	"Ensuring the representativeness of the sample is
6	another difficult task. DG competition requested
7	a random selection of merchants from the consultant.
8	However, given that participation in this survey was
9	voluntary and that the large volume of data required
10	limited the number of participating merchants, one
11	cannot entirely rule out potential self-selection bias."
12	So we see from this that the onerous nature of
13	participating in the survey led to potential problem of
14	self-selection bias; do you agree?
15	A. There was a potential problem of self-selection bias,
16	yes.
17	Q. Then at paragraph 6, as we have just seen, the
18	Commission said:
19	"The determination of the nature of costs, in
20	particular the actual split between fixed costs and
21	variable costs, is crucial for the definition of the
22	cost functions of payment instruments and the
23	implementation of the MIT."
24	If costs are classified as fixed rather than
25	variable, that is likely to lead to a lower MIF,

1	correct?
2	A. It is best to explain I was going to actually, when
3	I was thinking about this this morning, I was thinking
4	in terms of a diagram for the panel. So, everything
5	else being equal, if you have a higher variable costs of
б	cards or higher variable costs of cash let's think of
7	cash, higher variable costs of cash, that would lead to
8	a higher MIF.
9	Q. But is it right: if costs are classified as fixed rather
10	than variable that would lead to a lower MIF? You are
11	excluding costs to the MIT and so it leads to a lower
12	MIF?
13	A. That is right.
14	Q. Can we go to your second report, so that is D2.1, tab 3.
15	Page 521. This is your second report.
16	A. Okay.
17	Q. It is paragraph 472 on page 521.
18	A. Yes.
19	Q. You say there:
20	"In determining the proper classification of costs
21	for the MIT-MIF calculation is a challenging task. It
22	requires a different type of thinking about costs than
23	typically done by merchants' finance departments."
24	Can you explain what you mean by "a different type
25	of thinking"?

1	A. When we think about the classification of costs and
2	how for example, in scenario 2, the move from cash to
3	cards over a three to four-year period, trying to say to
4	what extent the change would actually affect either the
5	value or the volume was not something that necessarily,
6	for example, Sainsbury's finance department would
7	necessarily think of independently.
8	Q. Would they be well placed to carry out that analysis or
9	do you think it would be beyond them?
10	A. It is certainly not beyond them because they manage to
11	do one in 2010/2011. But there will not to be too
12	arrogant be mistakes from an economic perspective.
13	Q. The fact you make a submission doesn't actually mean you
14	have got the classification right; it just means you
15	have put in a submission.
16	A. That may be the case.
17	Q. At paragraph 473, you say:
18	"It is the case that the cost classifications
19	provided by merchants and their answers may include
20	a degree of error, due to the problems described above.
21	However, on the whole (Reading to the words) of
22	the MIT-MIF."
23	That assumption would not be correct if
24	participating merchants provided answers which were
25	designed to lead to a lower MIF, ie I'm asking you to

1	assume a systematic bias.
2	A. Well, the systematic bias could actually be either way.
3	I will explain, probably in a minute, that it is not
4	obvious that the finance departments, if they were
5	thinking of trying to get a lower MIF as a strategic
6	advantage, their finance departments might not actually
7	achieve it, they may go the opposite way.
8	Q. That is not quite an answer to the question, which is:
9	your statement that the errors would average out across
10	merchants wouldn't be correct as an assumption if in
11	fact participating merchants had provided answers which
12	were designed to lead to a lower MIF, because all the
13	biases would be down, so they couldn't cancel each other
14	out?
15	A. Sorry, I misunderstood your question. If it was all in
16	one direction, then the answer is yes.
17	Q. The merchants were told what the purpose of the survey
18	was before they participated, weren't they?
19	A. The merchants were surveyed across Europe and they were
20	told.
21	Q. Whether they acted on it or not, merchants, therefore,
22	had an incentive to categorise costs as variable rather
23	than fixed, didn't they?
24	A. If people were thinking strategically they may have
25	done. I'm not ruling that possibility out.

1	Q. Can we go to E3.14, at tab 266. So we are back in the
2	Rysman and Wright article, yes?
3	A. Okay, yes.
4	Q. If you go to page 5737. It is the paragraph that
5	begins:
6	"First, these surveys are often conducted only with
7	larger retail firms."
8	Can you see that paragraph?
9	A. I do, yes.
10	Q. They go on to say in the third line:
11	"Second, asking retail managers to report costs is
12	unlikely to give unbiassed estimates of the cost of
13	different instruments."
14	Do you agree with them that there's that risk of
15	bias in this sort of survey?
16	A. There is that risk of bias and as an expert before this
17	court I have got to recognise that and try and actually
18	avoid that bias. The way in which I, quite frankly,
19	have approached this is the reason why I have asked
20	Sainsbury's for cost data and to do these annex B, is
21	to try to get a fix without the bias and not necessarily
22	have to rely on what Deloittes managed to do.
23	In that sense, I'm comparing I do not rely on
24	Deloittes, I use it to inform whether my estimates are
25	in the ballpark.

1	Q. So, as we know, Sainsbury's took part in the Deloittes
2	survey, and we also know from Mr Brooks' evidence, it is
3	first Brooks, paragraph 38, that Sainsbury's was aware
4	of the purpose of the survey, correct, or would you like
5	me to show you that?
б	A. No, let's not waste time. Let's assume yes.
7	Q. Can we go to D3, tab 3, which is Dr Niels' first report.
8	Go to page 329, paragraph 6.75, he says:
9	"I have also assessed the extent to which
10	Sainsbury's allocation of total costs between fixed and
11	variable may have been subjective. To do this, I have
12	reviewed Sainsbury's final survey submissions to
13	Deloitte in several earlier draft versions of this
14	submission. I have provided an overview of the cost
15	allocations in the various drafts and how they changed
16	in the different versions in appendix 2."
17	If we go to page 422 we will find appendix 2.
18	A. So this is yellow.
19	Q. I don't need to refer to the detail of it.
20	A. Okay, it is just for me to understand.
21	Q. Mine is actually blue but it doesn't really matter.
22	A. Okay.
23	Q. But you were aware that he has carried that out, you
24	rely on it and or you comment upon the exercise,
25	rather?

1	A. I comment on it and we will get on to what I rely on
2	later
3	Q. We will. If you go to D2.1, tab 3, which is your second
4	report. At page 522, at paragraph 482, and this is
5	where you are commenting on the various Sainsbury's
6	drafts, you say:
7	"It is also not the cost that all cost items move
8	from fixed to variable. For instance, out of the two
9	relevant broad cash(Reading to the words) 54% of
10	cash costs move from variable to fixed but 13% also
11	moved from fixed to variable."
12	But as that demonstrates, the move in the
13	Sainsbury's drafts was in favour of fixed rather than
14	variable, wasn't it, the overall effect?
15	A. The overall effect, yes.
16	Q. If costs, as I think we have agreed, are classified as
17	fixed rather than variable that is likely to lead to
18	a lower MIF?
19	A. That is correct, but may I clarify? Basically, if you
20	go from the start and this is the example I say about
21	the finance department not knowing guite what it was
22	doing so, in the email of sorry, everyone, it is
23	page 422.

# page 422.

24

- Q. This is confidential, if you are going to refer to the
- 25 detail. I am not stopping you but we might need to go

# 63

1	into close.
2	A. I am trying to avoid
3	Q. I'm doing what you do for me.
4	A. Thanks very much. In effect, what they Sainsbury's
5	on their own did in 2010/2011 came up with an allocation
6	and I was sent this version of the 5th/7th 2013.
7	Q. So the first draft in this?
8	A. The first draft, I was sent this and I commented on this
9	saying "I don't understand what's going on here" because
10	they have managed to actually reduce the number of
11	categories that were by variable, compared with
12	2010/2011, but the variable cost of cash actually had
13	gone up significantly. So when it came to the
14	estimates, which you can see in my report and we are
15	referring to it, it is in table 7-6 if they had
16	adopted their 2010/2011 categorisation, which they
17	submitted to the Commission so in effect what
18	happened between MDR does everyone have I'm sorry
19	if I'm
20	Q. I'm actually about to come onto this, my next question
21	is about table
22	A. Please do the question.
23	Q. If that helps. First of all, you said you were shown
24	the 5th July 2013 draft, had you already been retained
25	by Sainsbury's in relation to this litigation?

1	A. Yes, I was retained in October, late October 2012.
2	Q. Did you see the other draft, did you see the 24th July
3	draft?
4	A. I was on holiday.
5	Q. Did someone in your team review the 24th July draft?
б	A. They must have seen I would assume so.
7	Q. Were you involved throughout this process, you or your
8	organisation?
9	A. We were involved and it would have been my Rotterdam
10	office who would have looked at this survey.
11	Q. But were you principally responsible for it?
12	A. I'm always responsible for anything I say in terms of
13	this.
14	Q. Let's go to D2.1, tab 3, which is your second report
15	A. Yes.
16	Q page 520
17	A. Yes.
18	Q paragraphs 466 to 467, and table 7.6.
19	A. Mmm.
20	Q. My understanding of this is that if we are looking at,
21	in relation to credit, the changes made by Sainsbury's
22	to its cost classifications from its first draft to its
23	final submission, would cause a MIT-MIF calculated on
24	the basis of those costs to decrease by roughly
25	threefold; is that right?

# 

1	A. This is why I need to explain the actual process. So,
2	whoever I think it is Bruce Lessels or the
3	department managed to come up with a survey that
4	would have implied 0.31 and 0.29, you see the first
5	email which is 5th July. If they had actually followed
6	their classification in 2010/2011, basically they would
7	have had MDR0062728, and then that 0.18.20 because they
8	failed to actually be consistent and managed to actually
9	get a higher MIT-MIF despite the incentive that you have
10	outlined.
11	So this is the error that they have made. When
12	I received the 5th July email, I talked to my team and
13	my team looked at the estimate and basically compared it
14	with 2010/2011 and said: they are just not consistent.
15	So what happened in the end was that they adopted
16	eventually the 2010/11 classification and the rates came
17	down, that is true, and the final submission is 0.09 and
18	0.11.
19	Q. So taking table 7.6, the MIT-MIF, comparing the analysis
20	in the first draft with the final submission, the
21	MIT-MIF resulting MIT-MIF decreased by roughly
22	threefold, correct?
23	A. As I say, if you had actually been consistent in
24	Sainsbury's finance department, they should have
25	employed 2010/2011 classification and they would have

had something closer to the 0.118 and 0.20.
Q. But am I right about the rate of decrease
A. Sorry, let me be very clear, there is a rate of decrease
here.
Q. That's also consistent I'm not saying this did or
didn't happen, but it is also consistent with a merchant
categorising cost so as to achieve a lower MIF?
A. If you had had applied the 2010/2011 we actually have
a MIT-MIF which is in the particulars of claim, which
are in April 2013, which is a MIT-MIF based upon the
scenario 1 of 0.04.
MR JUSTICE BARLING: That's the one based on 2010/2011,
which you say is the right one?
A. It is but the thing is this is based on the different
methodology. The 2010/2011 survey and the particulars
of claim were based upon scenario 1, which is one
transaction, and I have said I did not like that in my
report, I wanted something different and in Deloittes
2011/2012, (a) the survey itself is not the same as 2011
but they have also gone and asked different questions to
elicit the avoidable costs over three to four years. So
we are talking apples and pears here.

- 23 PROFESSOR JOHN BEATH: So MDR0662728 uses scenario 1?
- A. No, it uses the 2010/2011 cost classification.
- 25 PROFESSOR JOHN BEATH: Under --

1	A. Under scenario 2.
2	PROFESSOR JOHN BEATH: Under scenario 2, sorry.
3	A. But we said "Look, at the start please do this, because
4	you have submitted something to the Commission
5	previously and you have got to have some sort of
6	consistency". It is not that I wanted or I believe,
7	even, Sainsbury's I mean they got it horribly wrong,
8	horribly, and that's what I have detailed. And I hasten
9	the add the first expert report is a totally and utterly
10	different exercise because I viewed the final
11	submission, and by the way, I actually I should state
12	categorically, I was asked whether they should send this
13	submission in and I said no because I was not happy
14	about some of the supporting evidence. So when in
15	June/July 2014 I started the process again, and
16	Professor Beath that is the annex you have seen.
17	PROFESSOR JOHN BEATH: Yes.
18	A. I hope the Tribunal sees it is a quantitatively and
19	qualitatively different exercise.
20	PROFESSOR JOHN BEATH: Right.
21	MR HOSKINS: In relation to reviewing these drafts, the
22	Sainsbury's drafts, who at Sainsbury's was primarily
23	responsible for dealing with you?
24	A. David Brooks is head of finance and is still head of
25	that particular department, but I was actually engaged

1	with Mr Ed Anderson and Ms Kate Botting(?), who are in	1
2	Sainsbury's legal team.	2
3	Q. Was Mr Brooks aware of the function you were performing?	3
4	A. Yes, as an independent outside expert. He was made	4
5	aware that I was not there to try to get any particular	5
6	figure.	б
7	Q. If we go to paragraph 468 of your second report?	7
8	A. Yes.	8
9	Q. You say:	9
10	"Secondly, in my own analysis, I have not relied on	10
11	Sainsbury's cost classification but I have thoroughly	11
12	reviewed all cost items and determined how they should	12
13	be classified."	13
14	A. Yes.	14
15	Q. If we go still in this report to paragraph 744. It is	15
16	page 577	16
17	A. Yes.	17
18	Q you see what your results are. The resulting average	18
19	MIT-MIF is 0.15% for credit cards. That's the figure	19
20	you get taking the Sainsbury's data but reclassifying	20
21	it, whether you think it is fixed or variable over the	21
22	three to four-year period?	22
23	A. That is correct. It is my classification. It is fully	23
24	set out in annex B.	24

25 MR JUSTICE BARLING: Sorry, I think I have missed something,

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1	I want to be sure before we leave this topic. When we
2	looked at Dr Niels' report at tab 3 of D3, and we looked
3	at the table which is confidential at page 422, which of
4	those because it is so small I'm having trouble
5	reading it drafts and scenarios is the one that you
6	eventually is it the one dated 24th July 2013 on
7	scenario 2, MDR0062728? Is that the one that represents
8	your final position?
9	A. It is not my final position.
10	MR JUSTICE BARLING: No.
11	A. Let's be very clear, these are emails about a process of
12	filling out the Deloittes 2010/2011 survey that was done
13	in 2013. The eventual one, I think, was you are
14	right it is too small but I think it was sent in
15	fact, late September.
16	MR JUSTICE BARLING: Yes.
17	A. I think it is late September. But we don't have a date
18	here. Basically there was confusion as to whether it
19	was actually sent, and apparently it was sent even after
20	I had said it wasn't fit for purpose.
21	MR JUSTICE BARLING: None of these represent something which
22	you thought was fit to be sent, is that the position?
23	A. Exactly so.
24	MR JUSTICE BARLING: Is that the position?

A. Exactly. None of this. That's why I went through the 25

MR JUSTICE BARLING: Could you just take me -- remind me where annex B is. I'm sorry, Mr Hoskins, I just want for my note to get this right. Where is your annex B? A. Annex B to the first expert report, so I think it is in --MR JUSTICE BARLING: D2. A. This is a weight lifting course. MR JUSTICE BARLING: I don't know whether this is confidential or not. MR BREALEY: D2.1. MR JUSTICE BARLING: It is in D2.1 the annex B, is it? MR BREALEY: Tab 3A. MR JUSTICE BARLING: Tab 3A. Right, okay, sorry. A. There is a letter from Mischon de Reya at the front. MR JUSTICE BARLING: It is at table B. A. So it is 659A.10, is the start. You can see the table of contents. MR JUSTICE BARLING: Right, I see. PROFESSOR JOHN BEATH: But the meat comes at A.83, doesn't it, where you actually give the reasoning behind the cost categorisation?

process which you see in annex B, in the following year.

A. That is right, sir.

PROFESSOR JOHN BEATH: That's where the meat of the report 25 is.

1	A. I would say the meat is roughly
2	PROFESSOR JOHN BEATH: That's where the definitions are?
3	A. It is where the definitions are and then I do
4	a calculation. The whole purpose of this depth was to
5	try to get a document that could be replicated by anyone
6	who picked it up and could get the calculations and do
7	sensitivity analysis. See, I recognise that Deloittes
8	and the confidentiality concerns in Deloittes means that
9	sometimes it is very hard to replicate.
10	MR JUSTICE BARLING: Right. I think that's clarified that.
11	Thank you very much. Sorry, Mr Hoskins, carry on.
12	MR HOSKINS: Not at all. If we go back to your table 7.6,
13	at D2.1, tab 3, 520. What we see in relation to credit,
14	therefore, is five examples of a MIT-MIF based on
15	different classifications of fixed and variable costs;
16	is that correct? That's what that table is?
17	A. There are different classifications, yes.
18	Q. What that shows us is it proves the point of just how
19	sensitive the MIT-MIF is to the classification of costs
20	as fixed or variable, which the Commission described as
21	critical, yes?
22	A. It shows that if you get it wrong, then the numbers
23	change, but the thing is, what you need to actually see
24	is, if we go to the Deloittes actual figure, that they
25	quote, it is for credit cards, it is 0.13%. Now, let's

1	get the causation right, the 0.15 is based on annex B,
2	the 0.13, which they derive over 200-odd large merchants
3	and we ought to define that as well, is 0.13.
4	Q. It is not just if you get it wrong that it varies
5	because fixed variable costs is a bit of science and
6	a bit of art. It is subjective by nature. You accept
7	that at paragraph 469.
8	A. I do accept that.
9	Q. All I'm saying is that, because of the degree of
10	subjectivity in the classification of fixed or variable
11	costs you can actually get a quite widely divergent
12	MIT-MIF cost as you see in table 6, correct?
13	A. You are able to achieve that.
14	Q. Can we go to E3.10, back to the Commission's survey.
15	A. Yes.
16	Q. Tab 202, page 4297. At paragraph 13 the Commission
17	says:
18	"DG competition undertook computations of the MIT
19	using all the data coming from surveyed merchants,
20	including their allocation between fixed and variable
21	costs. It has also undertaken a computation of the MIT
22	which are based on(Reading to the words) The
23	choice to deploy econometric techniques has been
24	motivated by two main objectives. First reducing the
25	dependency of the results on the merchant's judgments

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1	and cost nature and (2) treating the heterogeneity of
2	merchants and trying to perform out of sample
3	predictions."
4	Then they go on to say:
5	"First, econometric techniques are capable of
6	identifying fixed and variable costs without relying on
7	the merchants' views."
8	Do you agree that the use of econometric techniques
9	reduces the dependency on the merchants on judgments on
10	whether costs are fixed or variable?
11	A. It reduces the subjectivity but econometrics is not like
12	pressing a button and getting the right result. If you
13	are objectively measuring the wrong thing, and that's my
14	contention here, then it is garbage in, garbage out.
15	Q. Can we go back to your second report, D2.1, tab 3,
16	page 520, paragraph 469 which we have seen you say:
17	"It is the case that there is some degree of
18	(Reading to the words) which are themselves
19	a matter of subjective judgment."
20	In conducting its own econometric analysis, if
21	anything, the Commission would have preferred a lower
22	than a higher MIF, wouldn't it?
23	A. Sorry, I don't quite understand the link to objectivity.
24	Q. You say that, fairly, when you are putting together
25	an econometric model, you have to make certain

1	assumptions?
2	A. That is right.
3	Q. You have to use your skill?
4	A. Yes.
5	Q. So you say, well, econometrics involves a degree of
6	subjectivity. My point to you is that the econometric
7	model that the Commission created and carried out is not
8	one that's created by someone with an incentive to
9	produce a high MIF. The Commission would either have
10	been neutral or may even have had a sneaking incentive
11	to create a lower MIF, because that's what the
12	Commission has been trying to do for years.
13	So in terms of exercising subjectivity, it was the
14	Commission who were being subjective and they had no
15	interest in a higher MIF, correct?
16	A. I think we need to get off the idea of subjectivity
17	Q. It is you that introduced it. It is 469, I'm dealing
18	with your report.
19	A. Okay, then I will explain it in very simple terms, in
20	terms of what we are trying to measure: what we are
21	trying to measure is the avoidable cost of going from
22	cash to cards for a 10% increment over three to four
23	years. That is a within firm estimation. Now, what
24	they did econometrically was not that at all.

It was an increment across a wide range of firms, so

1	remember what "large" is here, it is 20 to 20 billion.
2	20 million, 6 to 7, to 200 category, and then above that
3	are very large firms. You can see there is an inherent
4	number of different cost functions.
5	They did it effectively with one year's data.
6	PROFESSOR JOHN BEATH: I think what you mean is the only
7	feasible set of data these people could have, because
8	they have one year of data, is a cross-section?
9	A. Is a cross-section it is not
10	PROFESSOR JOHN BEATH: So the only way you could estimate
11	a fixed cost and variable cost is by fitting a linear
12	line through this cross-section. I just make a factual
13	point, l'm sorry.
14	MR HOSKINS: No, it is very helpful.
15	PROFESSOR JOHN BEATH: It is very hard to see how, if you
16	with given numbers, you fit a straight line through the
17	cross-section, you can make any judgments at all about
18	bias or trying to get particular results, the results
19	are simply what the data you have they are embedded
20	in the data.
21	A. Yes, and
22	MR HOSKINS: I'm not trying to make submissions but, in
23	a sense, that's what I was trying to get across because
24	we have looked at Commission scenario 2, which is based
25	on the merchant's approach.

1	PROFESSOR JOHN BEATH: No, no
2	MR HOSKINS: You have my point, and the Commission itself
3	says econometric analysis reduces the dependency on
4	subjectivity.
5	A. It is not about pressing the return button and get the
6	right the thing is, if you are measuring the wrong
7	thing, if you are thinking about the increment and you
8	are thinking about all this huge range of firms from
9	20 million to 200 or 12 20 billion, you are not
10	actually measuring if you don't take full account of,
11	for example, the admitted variable bias issue,
12	Professor Beath. So the econometrics, if it is not
13	correct and I will show you why it is probably not
14	correct when it produces certain estimates is
15	objectively measuring the wrong thing. And, you know,
16	what I will try to do and I
17	PROFESSOR JOHN BEATH: I think we could have a seminar on
18	this but I don't think
19	MR HOSKINS: I think we are having a seven-week seminar.
20	PROFESSOR JOHN BEATH: I just wanted to make a rigorous
21	technical point.
22	A. It was a very good point, sir.
23	MR SMITH: When you say it is measuring the wrong thing,
24	what exactly is wrong about it? What is the wrong
25	thing?

1	A. Well, we have a cross-section of data, we have firms
2	that go from 20 to Sainsbury's size, 20 million to
3	Sainsbury's size, in that sample. There are all these
4	different types of cross function and we are trying to
5	estimate what the econometric scale across one year's
6	data, across all these different sizes of firm.
7	That is not really telling us what happens within
8	a firm when you change the component of cash to the
9	component of cards. Ultimately, that's what we are
10	trying to measure. What changes? The avoidable cost
11	over an increment. What's the increment? 10%. Is the
12	10% reasonable or should it be higher, should it be
13	lower? That's scenario 2.
14	You know, I appreciate that there are these issues
15	about DG competition wanting politically to get lower
16	interchange fees. But my understanding, from living in
17	Brussels and having been in the Commission, and
18	understanding these political pressures, is that in this
19	case, this was the economist team
20	MR HOSKINS: I'm not sure this is appropriate evidence, I'm
21	sorry to interrupt. I don't want to go into what the
22	MR JUSTICE BARLING: I wouldn't worry too much about it.
23	But I would still like to understand the answer better
24	to Mr Smith's question, you know, about
25	MR HOSKINS: Can I see if I can manage it with a question

1	which is: is your main objection to the Commission's
2	econometric analysis, the fact that it doesn't
3	sufficiently take account of the heterogeneity of the
4	merchants in the sample?
5	A. We can do the heterogeneity
6	MR JUSTICE BARLING: Can you not answer yes or no to that
7	question? It would help us.
8	A. It is a no, it is more than the heterogeneity.
9	MR HOSKINS: But is that part of it?
10	A. It is part of it.
11	Q. Well, that's a start.
12	MR SMITH: Okay, apart from heterogeneity then, is it the
13	fact that one only has one year of data, is that another
14	issue you have?
15	A. That is another issue. That is what it is. What we are
16	trying to get here is the average transaction benefit.
17	I'm not worried whether it is the average merchant or
18	not, I'm worried about the average transaction benefit
19	because I'm trying to get something that is actually
20	measurable for the purpose of article 101.1. That's
21	what I'm trying to measure. So I want to know what are
22	the benefits of swapping cards and cash, and I don't

- 23 think I'm getting that via the econometric approach, or
- 24 at least there is something going on here -- and I will
- 25 show you in practical terms later why I think it is

1	coming up with wrong estimates. Let's leave that for
2	now.
3	MR SMITH: Let me just ask you one very simple question,
4	just this: are you saying that the econometric approach
5	is a misconceived approach no matter what data you use?
б	In other words, that it is
7	A. No
8	MR SMITH: simply not the way to do it, you should look
9	at, as you have done, the actual costs of an enterprise.
10	A. If we had managed to have ten years' worth of data and
11	we had managed to account for all those reasons why
12	costs change in a firm, or between firms, so as you get
13	the issuers as you get larger, you have different
14	things, you have legal departments coming in, so you
15	have different fixed costs and all those other things.
16	If it had taken account of that, you could understand
17	it. But it is not taking into account that. It is
18	trying to measure across firms when it is easier in this
19	case actually to do, within the firm, and measure the
20	then the issue is, is that estimate representative?
21	Then you have to work out whether it represents a fair
22	share. That is the exam question.
23	MR SMITH: Right, just identifying the issues you have with
24	the data, it is period of time and the fact that the
25	data doesn't sufficiently differentiate between sizes of

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firm?
A. The data itself goes between 20 and 20 billion, in terms
of size, but we are not actually taking full account
then of how things
MR SMITH: The cross balance may be different
A. The reasons why things are changing over time in terms
of the cost function. So we have a large the implied
increment in the econometric approach is rather large,
so it is an empirical point, should it be large or
should it be 10%, or should it be some other number?
MR SMITH: Thank you.
MR HOSKINS: Can we go to your annex B, so that is D2.1, at
tab 3A. It is page I will ignore the 659A, it is
page 127 in that tab. (Pause)
A. I have 125.
Q. So you don't have 127? It runs out?
MR JUSTICE BARLING: Mr Cook has it. (Handed)
MR HOSKINS: Have you got 126?
A. I don't have 126 either.
MR SMITH: Are you referring to bundle numbering or to the
internal numbering?
MR HOSKINS: The page I'm looking at has the number 659A.127
on it.
A. Sorry.
MR HOSKINS: That's fine. It's not the easiest numbering

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1	system.
2	A. So 126 is the DSS cost and cost of equipment.
3	Q. Yes, and it is the top of 127 I want to look at. So at
4	8.6:
5	"Relative use of cash and cards in the UK in the
6	past 10 years, the number of value and card
7	transactions"
8	I think it has been cut off. It probably should be
9	"in the UK".
10	A. Yes.
11	Q. " has been steadily increasing", I think it should
12	say.
13	A. Mmm hmm.
14	Q. Then if we go over the page, 259, you say:
15	"However, the increase in card transactions cannot
16	be directly interpreted as a displacement of cash
17	transactions, as at least a part of this increase may be
18	due to the general increase in the value and number of
19	transactions."
20	What you then go on to do is try to estimate the
21	cash displacement rate; is that correct?
22	A. Yes.
23	Q. Then at 261 you come up with your estimate and your
24	estimate is for an annual displacement ratio of about
25	7%; is that correct?

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A. It states there 7 % but that s a mistake.
Q. What should it be?
A. If I go to Dr Niels' table, figure 3.1, I think we will
get a ballpark idea of what it should be.
Q. The place I was going to take you to, to see if this was
correct or not, let's see if we can shortcircuit it, was
D3.1, tab 6. This is Dr Niels' second supplemental
report. Then if you go to page 601, it is
paragraphs 339 and 340. He supports what I hope is the
same error that you have said there is, and he says that
because you give an annual figure of 7%, given that we
are dealing with a three to four-year period, what you
should have actually said was a cash displacement rate
of 20 to 25%; is that the error you are referring to?
A. The error I refer to is the 7%. In fact, the next error
is actually in Dr Niels' next sentence. It is not
an error in the sense that if you take cards, that is
debit and credit cards, you would get that figure, but
we are talking about credit cards and, hence, I wanted
to go to figure 3.1 of Dr Niels' first report just to
give you a
Q. So you agree with his correction there at 340 but you
want to he deals with cards and you want to clarify

A It states there 70/ but that's a mistalia

# it further in relation to credit cards; is that correct? A. Yes. sir.

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Q. Show us what you want to --A. It is figure 3-1 of Dr Niels' first report. It gives you an overview of how things have changed in the UK. Q. 247, Mr Brealey kindly informs me. MR BREALEY: D3, 247. A. D3. MR HOSKINS: D3, tab 3, page 247. A. So figure 3.1, which is on 247, the point I'm making is that if you see over -- it is a very nice figure going from 2000 to 2014, credit cards is the -- can everyone see the colour at the bottom? It is the very dark one. That is credit cards. You will see share of the payment methods, it actually has not moved much. Let's assume zero. The displacement of cash, which I assume is the ATM and cash, which is the light green, so cash is getting squeezed. What's squeezing it is actually the debit. So the shift is actually the debit card. That's also, by the way -- we see that, a similar picture, in Australia. Q. So what is the correction you want to make to your

- figure, D2.1, tab 3A, page 130, paragraph 261?
- A. So the Commission has an increment of 10% but if you took these figures on face value, the cash displacement to credit card would be 0.

1	Q. You are changing your evidence from annual displacement
2	ratio of about 7% and you want to say it is now 0?
3	A. I'm just looking at this figure saying, look, we have to
4	sort of step back
5	Q. But what's your evidence, because we have got your
6	evidence at the moment let's look at it, it is
7	D2.1
8	A. The reason
9	Q. Please let's look at, this is important.
10	A. Sure.
11	Q. D2.1, tab 3A, page 130, paragraph 261. Now, there is
12	a fair bit of reasoning before that, but the punchline
13	is the last sentence of 261:
14	"This corresponds to an annual displacement ratio of
15	about 7%."
16	What is now evidence now? What's the figure that
17	you want to give?
18	A. Look, I would be quite happy if we keep to the
19	Commission's 10%, as a very conservative figure.
20	MR JUSTICE BARLING: So you change your 7% you prefer to
21	have 10% there; is that what you are saying?
22	A. No, the point about this paragraph is to say was the
23	Commission's 10% reasonable? And I made the point,
24	which is erroneous, that it looks like 7%. If you go to
25	the figure, it could be 0 but I'm simply saying, look,

1	let's keep to 10%.
2	MR JUSTICE BARLING: You say it doesn't matter what it is?
3	A. It doesn't matter. It doesn't matter, we could actually
4	have said zero.
5	MR JUSTICE BARLING: As a matter of interest why did you say
6	it was 7 again, what was the mistake?
7	A. Because I looked at it and I basically, as Dr Niels has
8	pointed out, I have made an arithmetic error and if
9	Dr Niels' calculation he made he suggested it was
10	25%, and that was for cards, and I'm making the point
11	that actually the growth or the substitution seems to be
12	debit card and cash, not credit card and cash.
13	MR HOSKINS: To be fair to Dr Niels, he was actually
14	following through the logic of your 7%.
15	A. He did.
16	Q. That was not his own figure, he said on your own
17	analysis of 7% that should have been the correct figure
18	if you followed the logic through.
19	A. If I followed the logic in terms of credit cards but in
20	terms of sorry. He followed my logic, my logic was
21	wrong. It should have been on credit cards. I got the
22	arithmetic error. This 25% though is on cards and, as
23	I suggested in figure 3.1, the substitution looks to me
24	on this basis of this evidence from cash to debit, not
25	cash to credit.

1	Q. But you are ignoring charge cards, aren't you, in figure
2	3.1? We are dealing here with credit and charge cards
3	as against cash, aren't we? If you include charge
4	cards, then the displacement is more marked, isn't it?
5	A. I can't even read that up there.
б	Q. Well, the charge card is the light blue.
7	A. Yes.
8	Q. You will see that colour, it is if you go on the
9	vertical axis, 80%, you will see a little blue block.
10	We have all got different colours. It is a dark grey.
11	The first block between the 80 and 90 on the vertical
12	axis?
13	A. That looks like it has grown by, let's say, 5% over the
14	period.
15	Q. You have to add that in when you are comparing
16	displacement of cash as against credit cards.
17	A. Lagree.
18	Q. So you have to put that in as well?
19	A. Yes, we should.
20	Q. In terms of the costs, because we are looking at here
21	costs which vary over time in terms of handling cash, as
22	opposed to accepting cards, and in this specific
23	instance credit cards, but the costs of accepting debit
24	and credit cards, it doesn't matter, you have to look at

25 them altogether, because the infrastructure is the same,

1	whether you are accepting a debit or a credit card.
2	A. Mmm hmm.
3	Q. So the distinction you make in saying you have to look
4	at just credit cards isn't correct, is it, because the
5	infrastructure is the same, therefore one is looking at
6	the total costs?
7	A. The infrastructure may be fixed costs which are not
8	contained in the calculation. If they don't vary over
9	time, that's the three to four years. If they do, they
10	are in.
11	Q. For this purpose, there is no utility in the distinction
12	between debit or credit because the infrastructure is
13	the same: yes or no?
14	A. In terms of the actual increment, can I think about it
15	for a few more minutes?
16	Q. We do have to move on. I have one more question on this
17	topic
18	PROFESSOR JOHN BEATH: Before we move on, and while he is
19	thinking about it, could I be assured that the data set
20	that was used to construct figure 3.1 is exactly the
21	same as the data set that was used to construct figure
22	B6.5?
23	MR HOSKINS: Sir, 3?
24	PROFESSOR JOHN BEATH: In Mr von Hinten Reed's second
25	report, before the phrase we have been looking at about

1	displacement ratio, it is based upon a chart.
2	MR HOSKINS: Sir, can you give me the bundle reference?
3	PROFESSOR JOHN BEATH: Sorry, D2.1, tab 3, 659A.129, then on
4	the page before the statement about 7%, the paragraph
5	says it was based upon this calculation and this figure,
6	and it covers not quite the same but almost the same
7	period, has a larger aggregation of units, I just wonder
8	whether it is the same data set used.
9	MR HOSKINS: I will ask Dr Niels
10	MR JUSTICE BARLING: In that case
11	MR HOSKINS: I have one more question on this, otherwise we
12	will lose the chain. So if you will just let me finish
13	off.
14	MR JUSTICE BARLING: Okay, go on.
15	MR HOSKINS: I need to go back to D3.1, tab 6, page 601. At
16	paragraph 3.41, he says:
17	"As I explained above, the Commission's medium-term
18	approach (Reading to the words) over a three to
19	four-year period."
20	Then he goes on to say:
21	"Given that a larger level of cash displacement
22	(Reading to the words) timeframe"
23	You corrected your error, but if you have a higher
24	cash displacement rate, that provides evidence that
25	a greater proportion of fixed costs should be included

### than the medium-term approach considers. 1 2 I want to unpack, because that obviously includes the area you corrected, but is it correct that the 3 4 greater the cash displacement, the greater proportion of fixed costs should be included than the medium-term 5 6 approach suggests, ie the greater the cash displacement, 7 the less costs are fixed? 8 A. The greater the cash displacement, the costs that are 9 displaced will increase. 10 Q. Therefore it should be variable rather than fixed? 1 A. It should be variable rather than fixed. 11 1 12 MR HOSKINS: Sir, that is a good point to break. 1 MR JUSTICE BARLING: Good, right, we will have a break. 13 1 14 (3.20 pm) 1 15 (A short break) 1 16 (3.30 pm) 1 17 MR HOSKINS: I'm glad it is Friday. Am I allowed to say 1 that? 18 1 MR JUSTICE BARLING: Yes, you are now. 19 1 20 MR HOSKINS: It's too late. 2 2 21 PROFESSOR JOHN BEATH: Some of us have been away from home 22 2 for a while. MR HOSKINS: There we are. 2 23 24 MR JUSTICE BARLING: Okay. 2 25 MR HOSKINS: I have an answer to Professor Beath's question 2

1	on whether these are based on the same data. The answer
2	is: they are not.
3	PROFESSOR JOHN BEATH: They are not, okay.
4	MR HOSKINS: So if we go to Mr von Hinten Reed's figure 6.5,
5	which is at D2.1, tab 3, 659A.129
6	PROFESSOR JOHN BEATH: Yes.
7	MR HOSKINS: you will see that the source stated there is
8	the UK Cards Association
9	PROFESSOR JOHN BEATH: Yes.
10	MR HOSKINS: and have debit cards credit and charge cards
11	cash and cheques. Figure 3.1 in Dr Niels' report, so
12	that is D3, tab 3, 247 came from MasterCard internal
13	documents.
14	PROFESSOR JOHN BEATH: Thank you.
15	MR HOSKINS: Whether they obtained information from the UK
16	Cards Association, I don't know, but they are not on
17	their face from the same source.
18	PROFESSOR JOHN BEATH: Thank you.
19	MR HOSKINS: Obviously, it is clear, figure 3.1 includes
20	more types of payment.
21	PROFESSOR JOHN BEATH: Yes. That's why I mentioned in
22	relation to Mr von Hinten Reed's it seemed to me
23	aggregating things together.
24	MR HOSKINS: Yes.
25	There was a question that Mr von Hinten Reed asked

1	for more time to think about, I don't know if he wants
2	to take up that
3	A. Yes, just a small in terms of thinking about common
4	costs and fixed costs, in annex B, 659A.34, so in
5	effect, we have the first table which is table B2.13 on
6	debit cards. The second table is overleaf, B2.14 on
7	credit cards. So I have separately treated the fixed
8	and variable costs involved in debit and credit card
9	payments. To the extent that there are common aspects
0	to them, they are in the cost allocations. In my view,
1	the increment is not the place to actually change. What
2	we are trying to ask there is, what is the change that
3	we observe from cash to a credit, or in charge card, not
4	a debit card. That's not what we are trying to assess
5	here.
6	So I have actually calculated the MIT-MIF separately
7	for the credit card and the debit card, the debit card
8	being slightly higher.
9	Q. Can we go to E3.10, which is the Commission's survey
0	again.
1	A. Sure.
2	Q. Tab 202, page 4315, paragraph 82. So E3.10, tab 202,
3	page 4315. It is paragraph 81, the Commission says:
4	"Merchants in this population are likely to be
5	heterogeneous with respect to the relative cost payments

1	(Reading to the words) need to be taken into
2	account."
3	A. Mmm.
4	Q. Skipping the next sentence:
5	"The size of the merchant may also have an impact
б	since a larger size may imply different organisation of
7	the business or a specific payment process and therefore
8	a different transaction cost."
9	First of all, do you agree with the Commission that
10	the relative costs of payment methods may vary between
11	merchants?
12	A. Yes.
13	Q. Do you agree that one of the factors that may have
14	an impact on costs is the size of the merchant?
15	A. Yes.
16	Q. Can we go to E3.14, tab 266. It is the Rysman and
17	Wright article. If we can go to page 5737. We looked
18	at this again earlier in another context. It is
19	a second complete paragraph on the page that begins
20	"Firstly surveys are often conducted":
21	"Firstly surveys are often conducted only with large
22	retail firms, firms that will tend to have lower costs
23	of accepting cash due to the economies of scale involved
24	in cash handling, as opposed to cards which are fairly
25	scale invariant."

1	Do you agree that large retail firms will tend to
2	have lower costs in accepting cash due to economies of
3	scale?
4	A. Yes.
5	Q. Can we go to E3.5, tab 99A. This is the Rochet and
б	Tirole article from 2008, yes?
7	A. That is correct.
8	Q. The numbering is 2194A, it's 0029 that I would like to
9	go to. You will see the third paragraph on that page
10	begins "First, in the short run"; do you see that?
11	A. Yes.
12	Q. If you skip five lines down, there is a sentence that
13	begins:
14	"Third, merchants are heterogeneous and an IF that
15	properly guides cardholders' decisions must reflect the
16	(Reading to the words) at the social optimum."
17	Do you agree with that?
18	A. In terms of the statement, yes.
19	Q. Can we go to E3.10, tab 202, so the Commission survey
20	again. E3.10, tab 202 at 4295. Again, it is something
21	I think we looked at in another context. The first
22	paragraph in that page, paragraph 4 continues at the top
23	of the page. If you go up from the bottom of that
24	paragraph seven lines, you get to a sentence that
25	begins:

1	"In order to maximise coverage"
2	It begins in the middle of the page.
3	A. Yes.
4	Q. The Commission says:
5	"In order to maximise coverage and to ensure the
6	best quality data, it was decided to(Reading to the
7	words) Eventually, this represents a trade off
8	between precision of data and sample size and
9	representativeness."
10	We see from that the Commission study only took
11	account of large merchants, yes?
12	A. Large merchants above 20 million.
13	Q. The Commission believed that that had implications for
14	the representativeness of the study, correct?
15	A. In that it didn't actually have small firms in it.
16	Q. Can we go to paragraph 23 in this document. The
17	Commission says:
18	"The report finally explores the possibility to
19	obtain figures that would describe the whole merchant
20	population and not only large merchants. This, however,
21	requires very strong assumptions on the cost functions
22	of the different payment means for smaller merchants.
23	Taking this into account and after careful
24	consideration, the Commission therefore considers that
25	without further data from small merchants, it is not

1	possible to draw reliable conclusions from the study
2	concerning the level of indifference of all merchants."
3	Do you agree with the Commission that without
4	further data from small merchants it is not possible to
5	draw reliable conclusions from the study concerning the
6	level of indifference of all merchants?
7	A. You cannot get the level at least you can calculate
8	what it should be for all merchants but you can't get
9	the level of indifference for all merchants because we
10	don't have small firms.
11	Q. Do you agree it is not possible to draw reliable
12	conclusions concerning the level of indifference of all
13	merchants for that reason?
14	A. The meaning of "indifference" to me is in the exam
15	question is that firms are no worse off, that's the
16	Article 101.3(b) criterion. So I can tell you that
17	large firms will be worse off if, for example, they have
18	to pay a MIF, which is estimated for the category 6
19	to 7, but what I can't do is tell you whether actually
20	the small firms are benefiting and offsetting the loss
21	made by large firms. That's what I can't do.
22	Q. Do you agree or not with the Commission's own assessment
23	of its own survey that, without further data from small
24	merchants it is not possible to draw reliable
25	conclusions from the study concerning the level of

indifference of all merchants?	1	for the UK discussed above.
A. In that context which I have just said, yes.	2	"As I mentioned earlier, no data is available for
Q. Dr Niels has sought to deal with this problem by relying	3	the cost of payments to small merchants(Reading to
on the cost data for the group of smaller merchants	4	the words) being twice as high and three times as
within the Commission's sample of large merchants, which	5	high. I apply the sensitivity test to three MIT-MIF
he has taken as merchants with an annual turnover	6	estimates."
between EUR20 million sorry, the Commission's sample	7	You don't cite any evidential basis for your
is EUR20 million and EUR200 million, but you are aware	8	assumption that the MIT-MIF for small merchants is twice
of that, aren't you, he relies on a subset of that data?	9	or three times as high as for large merchants, why is
A. I am and let's be clear it is category 6 to 7 and the	10	that?
larger merchants than that are category 8. So if	11	A. That is correct, because I do not have any evidence on
I refer to that	12	the exact costs for cash and cost of payments for small
Q. If we go to your second report, that's D2.1, tab 3, 523.	13	firms. In 7.7, by the way, large merchants there are
D2.1, tab 3, at page 523, it is your paragraph 489, this	14	categories 6, 7 and 8.
is where you deal with what Dr Niels has done in terms	15	Q. Can we go back to the Commission's survey. That's E3.10
of the sample he has taken, and you say:	16	at tab 202. This time can we go to page 4350, it is
"I note that excluding the largest merchant	17	paragraph 185. It is E3.10, tab 202, page 4350. If you
seriously limits the reliability of results and their	18	pick it up at paragraph 185:
applicability to the UK. As 130 merchants out of 256	19	"As regards the distribution of the MIT MSC levels
included in the sample(Reading to the words) as	20	of individual merchants, the figures below indicate
also shown by lower R2 values."	21	heterogeneity among the merchants in the sample. In
Your preferred approach is to rely on the cost data	22	particular, where the MIT MSC is between 0 and 0.5 for
submitted by Sainsbury's to Deloitte which you then	23	the majority of merchants, there is a non-negligible
reassess for fixed or variable, correct?	24	number of observations resulting in very high or
A. That is correct and then I try and do sensitivity tests,	25	negative sales."
	<ul> <li>indifference of all merchants?</li> <li>A. In that context which I have just said, yes.</li> <li>Q. Dr Niels has sought to deal with this problem by relying on the cost data for the group of smaller merchants within the Commission's sample of large merchants, which he has taken as merchants with an annual turnover between EUR20 million sorry, the Commission's sample is EUR20 million and EUR200 million, but you are aware of that, aren't you, he relies on a subset of that data?</li> <li>A. I am and let's be clear it is category 6 to 7 and the larger merchants than that are category 8. So if I refer to that</li> <li>Q. If we go to your second report, that's D2.1, tab 3, 523. D2.1, tab 3, at page 523, it is your paragraph 489, this is where you deal with what Dr Niels has done in terms of the sample he has taken, and you say: "I note that excluding the largest merchant seriously limits the reliability of results and their applicability to the UK. As 130 merchants out of 256 included in the sample(Reading to the words) as also shown by lower R2 values." Your preferred approach is to rely on the cost data submitted by Sainsbury's to Deloitte which you then reassess for fixed or variable, correct?</li> <li>A. That is correct and then I try and do sensitivity tests,</li> </ul>	indifference of all merchants?1A. In that context which I have just said, yes.2Q. Dr Niels has sought to deal with this problem by relying on the cost data for the group of smaller merchants3within the Commission's sample of large merchants, which he has taken as merchants with an annual turnover6between EUR20 million sorry, the Commission's sample of that, aren't you, he relies on a subset of that data?9A. I am and let's be clear it is category 6 to 7 and the larger merchants than that are category 8. So if I refer to that11Q. If we go to your second report, that's D2.1, tab 3, 523.13D2.1, tab 3, at page 523, it is your paragraph 489, this14is where you deal with what Dr Niels has done in terms15of the sample he has taken, and you say:16"I note that excluding the largest merchant17seriously limits the reliability of results and their18applicability to the UK. As 130 merchants out of 25619included in the sample(Reading to the words) as20also shown by lower R2 values."21Your preferred approach is to rely on the cost data22submitted by Sainsbury's to Deloitte which you then23reassess for fixed or variable, correct?24A. That is correct and then I try and do sensitivity tests,25

1	which kind of replicate what category 6 to 7 would look
2	like.
3	Q. But your basic approach, by relying on the cost data
4	submitted by Sainsbury's, is to rely on a sample of one,
5	isn't it?
6	A. It is a sample of 1 and then we conduct sensitivity
7	tests to try to replicate data for a wider sample.
8	Q. So you rely on a sample of one with sensitivity analyses
9	and Dr Niels relies on a sample of 126?
10	A. He relies on a sample of 126, but by excluding or
11	focusing on the average merchant you are not actually
12	focusing on the average transaction benefit, which is
13	what we get from the literature as being the appropriate
14	thing to measure.
15	Q. Let's go to your second report, again. D2.1, tab 3 at
16	526. Paragraph 505, you say:
17	"We know, however, that in the UK a typical payment
18	takes place at a large retailer."
19	Then at the end of the paragraph you conclude:
20	"Therefore, it is reasonable to assume that the
21	MIT-MIF obtained for these retailers would be
22	representative for the vast majority of the UK sales."
23	Then at 506 you go on to say:
24	"As a sensitivity check I consider how the MIT-MIF
25	(Reading to the words) based on the Eurostat data

# 99

1	Then, over the page, the Commission sets out
2	figure 11, which is a distribution of estimated MIT MSCs
3	by number of merchants. We know from paragraph 14 the
4	number of merchants in the sample is 254, yes?
5	A. Yes.
6	Q. The range of MIT MSCs is on the horizontal axis. You
7	see that below 0, minus 2, minus 2 to minus 1, minus 1
8	to 0.5 etc, that is the range of MSC MITs, yes?
9	A. Yes.
10	Q. Then the number of merchants within each range is on the
11	vertical axis, yes?
12	A. Yes.
13	Q. We see from this graph that most merchants had a MIT MSC
14	from the 0 to 0.5 range. That's in the middle of this,
15	yes?
16	A. Yes.
17	Q. If you move to the right, we see around $15\%$ had a MIT
18	MSC in the 0.5 to 1% range, yes?
19	A. Yes.
20	Q. If you take the median point of those ranges, so for the
21	first we are looking at the median of 0 to 0.5 is 0.25,
22	and the median of the 0.5 to 1 is 0.75, yes?
23	A. Could you re-do that one?
24	Q. Of course. I'm looking, first of all, at the most
25	popular category, 0 to 0.5. The median of that is 0.25.

1	I'm just saying half of 0.5 is
2	A. I should have said yes.
3	Q. If you go to the next range, 0.5 to 1, the median is
4	0.75?
5	A. Yes.
6	Q. 0.75 is around three times higher than 0.25?
7	A. Yes.
8	Q. So that indicates that around 15% of larger merchants
9	had a MIT MSC around three times higher than the
10	majority of large merchants, yes?
11	A. Yes.
12	Q. Let's do the same exercise for the 1% to 2%. That's
13	three in from the right. 1% to 2%.
14	A. Yes.
15	Q. Around 6 to 7% of large merchants had a MIT MSC in that
16	range, yes?
17	A. Yes.
18	Q. Take the median of that, that's 1.5%, yes?
19	A. Yes.
20	Q. If you compare that again with the most popular range,
21	the median of which is 0.25, what we see is 6% to 7% of
22	large merchants had a MIT MSC around 6 times higher than
23	the majority of large merchants, correct?
24	A. Yes.
25	Q. We will do the same again for the 2% to 5%, the median

1	of that is 2.5%. There is about 5% in that range, yes?
2	A. Yes.
3	Q. That shows therefore that around 5% of large merchants
4	had a MIT MSC that was 14 times higher than the
5	majority, yes?
6	A. Mmm.
7	Q. Then, finally, if you take the last category on the
8	right, around 2% of large merchants had a MIT MSC above
9	5%, and if you do the same exercise that tells us that
10	around 2% of large merchants had a MIT MSC that was
11	20 times or more higher than the majority of large
12	merchants; is that correct?
13	A. Yes. Remember that you have got MSC, so you have got
14	the acquirer margin coming in here.
15	Q. But that's minimal compared to the
16	A. It is not so minimal all the time. But your point is
17	taken.
18	Q. Of course this survey was based only in large merchants,
19	we know that, don't we?
20	A. Yes, above 20 million.
21	Q. One would expect the disparity to be even greater
22	between small and large merchants, wouldn't you?
23	A. Small in terms of small 1 to 5 and 6 or?
24	Q. I mean small outside this category
25	A. So 1 to 5?

1	Q. You accept that, the disparity you would expect to be
2	greater?
3	A. I don't know what 1 to 5 really is, but I'm just
4	I will assume for the purpose of this that it is.
5	Q. I think you are saying the answer is yes, you would
6	expect the disparity to be greater.
7	A. I would expect it to be greater, based on my estimates.
8	Q. In your evidence yesterday you referred on a number of
9	occasions to the interest that issuers earned from
10	cardholders. Just to be clear, are you suggesting that
11	the interest that is earned in that way is large enough
12	to cover the whole scheme costs; is that your evidence?
13	A. The interest earned by issuers?
14	Q. Yes.
15	A. For issuing cards is greater than the cost of them
16	issuing the cards.
17	Q. Is the logic of that that no MIF is necessary?
18	A. The logic of that is that lending, which is the process
19	by which banks are offering credit, for example, would
20	happen anyway, with or without the MIF.
21	Q. Is your logic that no MIF is necessary?
22	A. On that, yes.
23	Q. How does that tally with what you also said yesterday,

- Q. How does that tally with what you also said yesterday,
- which is that a MIF is necessary to balance the two
- sides of a four-party system?

1	A. If the revenues and the costs are all on one side, then
2	the issuers are making more than the costs of actually
3	providing the service.
4	Q. So is your evidence that a MIF is necessary or not
5	necessary?
6	A. A MIF is necessary for the part which attracts
7	transaction efficiencies. So the switch between cash
8	and cards. To that extent, that benefit, I think
9	a MIT a MIT-MIF measures it, also Visa 2 indirectly
10	measures it and that's the justification for a MIF.
11	Q. Your MIT-MIF analysis doesn't take account of interest
12	revenue received by issuers, does it?
13	A. That is right.
14	Q. Can we go to E3.14. At 265, it is the Tirole article we
15	have looked at earlier today.
16	A. I'm with you.
17	Q. Page 5696, it is the top of that page, the first
18	paragraph, Tirole says:
19	"There is substantial debate as to whether
20	anti-trust authorities should factor profits into the
21	computation of social welfare and they rarely do. Take
22	issuer profits. If the profits associated with
23	cardholders and(Reading to the words) leads to
24	enhanced cardholder welfare. Ultimately, what fraction
25	of profits should be factored into the computation of

1	interchange fee is an empirical question which we will	1	A. Yes.
2	not attempt to resolve here but there is no question	2	Q. Some banks are primarily transactor banks, aren't they?
3	that not including any leads to a conservative estimate	3	A. Yes.
4	of the desirable interchange fee."	4	Q. If a bank is primarily a transactor bank it couldn't
5	Do you accept that it follows from that analysis	5	operate without the MIF, could it?
б	that your MIT analysis results in a MIF that is too low?	б	A. The issue is primarily and the issue then is basically
7	A. My MIT-MIF is based upon Article 101.3. It is not based	7	whether that is a statement of truth.
8	on Rochet/Tirole or Rochet/Wright or Wright and	8	Q. But it is a possibility?
9	something else. The issue that Jean Tirole comes up	9	A. It is a possibility. If, for example, their interchange
10	with here is quite interesting because if we are right	10	income went down, they have an option of increasing
11	that interest is above the cost of issuing cards, then	11	cardholder fees. If that was really on the margin of
12	what is the exact market failure that necessitates some	12	the decision, but that's not obvious.
13	subsidy from merchants to achieve that end? I don't	13	Q. Does the MIT-MIF apply to online transactions? Is it
14	think there is.	14	intended to cover them?
15	Q. Let's assume, leave aside what the legal position is or	15	A. MIT-MIF was designed for the cash and cards, online is
16	isn't	16	cards.
17	A. That's your job.	17	Q. So is your MIT-MIF intended to cover online
18	Q. That is right. If one accepts Tirole's analysis of	18	transactions?
19	profits as being capable of driving technological and	19	A. My MIF, the 0.15 covers till operations not online.
20	pricing innovations as well as new entry, if one accepts	20	Q. But a MIT-MIF is for not just for Sainsbury's, it is for
21	that the test is social welfare, do you agree with his	21	all people who use MasterCard or Visa, isn't it? It has
22	logic? I know you don't agree with everything but	22	to be a general application?
23	assume those factors are corrected, do you agree that	23	A. That's true, that's why I go back to the way in which
24	failing to take account of them would lead to a MIF that	24	I characterise it. What is the benefit we are trying to
25	was too low?	25	measure under Article 101.3. If it is basically the
	105		1.07

1	A. A MIT-MIF could be too low compared with the social	1
2	optimum.	2
3	Q. Not all credit card holders are revolvers, are they?	3
4	A. Transactors.	4
5	Q. If a MIF were to take account of the interest that	5
б	issuers earned from revolvers, then the MIF would be	6
7	lower than it would otherwise be?	7
8	A. Yes.	8
9	Q. I think you said yesterday, but I want to clarify, would	9
10	that, in effect, lead to a degree of cross subsidisation	10
11	of revolvers by transactors?	11
12	A. Transactors benefit or use the 28-day funding. The	12
13	question, again, is the additionality of that particular	13
14	funding thing and what benefits that actually derives.	14
15	It is not a benefit in terms of transactions. If it is	15
16	additional sales, well, a transactor is basically paying	16
17	off next month what they have used this month and it is	17
18	a fact of financial services that the reason why you	18
19	offer a 28-day funding is to actually attract people	19
20	into having a card and, eventually, you want to become	20
21	revolvers, and that's where the stickiness comes in.	21
22	Q. But do you agree that if the MIF were to take account of	22
23	interest that issuers earn from revolvers, there would	23
24	be a degree of cross-subsidisation of revolvers by	24
25	transactors?	25

1	substitution of card for card, then there is no
2	efficiency. Therefore, we don't need to measure it.
3	Q. But your MIF as you said therefore does not take account
4	of online transactions?
5	A. That's true.
6	Q. Can we go to E3.14 at 265. Back to the Tirole article,
7	if we can pick it up at 5689. It is the second
8	paragraph on that page, the first complete one, "Even
9	for debit cards" it begins. It is page 5689, second
0	paragraph down begins:
1	"Even for debit cards"
2	Do you have that?
3	A. Yes.
4	Q. At the end of that paragraph Tirole says:
5	"More importantly still, e-commerce is vastly
6	facilitated by the use of electronic payments. Cash or
7	even cheques cannot easily substitute for cards for
8	online purchases."
9	Do you agree that cash is not generally suitable for
0	online transactions?
1	A. Yes.
2	Q. Can we go to your second report at D2.1, tab 3,
3	page 528. You say:
4	"To assess efficiencies, the first issue to address
5	is what would happen if the MIFs were not at the level

1	obtained by Dr Niels, but at a lower level(Reading
2	to the words) by more efficient card transactions."
3	But that statement isn't true, is it, if a consumer
4	has a choice between buying online or going to a shop,
5	because then he does have a choice between a card or
6	cash, correct?
7	A. If he goes to the shop he has a choice between a card or
8	cash.
9	Q. A consumer has a choice between buying online or buying
10	in a shop?
11	A. Yes.
12	Q. Failure to take any account of online transactions will
13	result in a MIT-MIF which is too low won't it, because
14	the MIT-MIF has to be applied generally across all sorts
15	of transactions?
16	A. The MIT-MIF is applied to online transactions. One has
17	to think that is a distribution channel. So the
18	benefits are all in terms of the cardholders not having
19	to get out of bed or use their shoes to go down to
20	Sainsbury's, or wherever.
21	So I don't quite get where the efficiencies in terms
22	of transaction on the merchant's side and that's what
23	we are measuring come in. In fact, the merchants are
24	actually having to build out, imply lots of cost to
25	actually achieve that end. I think that's in John

1	Roger's second statement.
2	Q. Are you suggesting that online transactions are a burden
3	for retailers?
4	A. Online transactions are basically another distribution
5	channel, if you are favouring one over another, what is
6	the additional sale you are getting? Well, it may be to
7	the individual. So Amazon may have, for example, a real
8	interest in promoting online sales but that's not
9	necessarily the case for a book store.
10	Q. Retailers set up online stores because they believe it
11	is going to be profitable, don't they?
12	A. They believe that they should actually earn a profit
13	otherwise they wouldn't do it.
14	Q. I'm not sure whether you accept or not that failure to
15	take any account of online transactions will necessarily
16	compromise the accuracy of a MIT-MIF?
17	A. The MIT-MIF is about measuring transaction benefits on
18	the merchant's side, of getting the efficiencies, of
19	transfer of cash to cards. I can't see where the
20	efficiency of card use comes in on its own.
21	Q. Is your evidence then that the MIT-MIF does not need to
22	take any account of online transactions?
23	A. If you come back up to the point of what is the benefit,
24	if you can't see the benefit according to 101.3 then you
25	don't need to measure it.

1	0. So your evidence is MIT MIF does not need to take any
2	account of online transactions?
3	A. That is my evidence, sir.
4	Q. Can we go to E3.14, tab 266. This is the Rysman and
5	Wright article. If we can go to 5736, pick the first
6	paragraph up from the bottom, where it says:
7	"Future work might consider"
8	Do you have that?
9	A. Yes.
10	Q. It says:
11	"Future work might consider a broader range of
12	possible (Reading to the words) case of internet
13	transactions, in case these make use of only payment
14	cards and no other payment instruments."
15	So Rysman and Wright believe that further work is
16	necessary in order to take account of online
17	transactions, correct?
18	A. They do, they don't consider that in the context of
19	101.3.
20	Q. The Commission's 2015 survey doesn't take any account of
21	online transactions, does it?
22	A. That's true.
23	Q. Amex is a closed platform, isn't it?
24	A. Yes.

- A. Yes.
- 25 Q. Looking, again, at what we have just been looking at,

1	the Rysman and Wright at 5376, in the section I just
2	read out they said, in relation to future work that
3	might be necessary:
4	"For instance, existing theory does not cover the
5	case in which the relevant alternative to the open
б	platform cards is closed platform cards."
7	They think that further work is necessary to take
8	account of closed platform cards such as Amex, correct?
9	A. They believe that.
10	Q. The Commission's 2015 survey doesn't take account of
11	Amex where it is a relevant alternative to open platform
12	cards, does it?
13	A. It doesn't. I can't talk about the Deloitte or the
14	Commission but, in my view, again, there is no
15	efficiency benefit.
16	Q. Your analysis doesn't take any account of Amex where it
17	is a relevant alternative to an open platform cards,
18	does it?
19	A. That's true.
20	Q. Can we go to your first report, D2, tab 2, at page 263.
21	Paragraph 707, you say:
22	"For face to face payments, the most appropriate
23	comparator to card payments is cash."
24	Do you say that is true for both face-to-face debit
25	and credit card purchasers?

1	A. Yes.	1	Now, the view you express in your report is not
2	Q. Can we go to Dr Niels' first report, that's D3, tab 3 at	2	consistent with Rochet and Wright's view expressed
3	page 335. This is Dr Niels' first report, page 335,	3	there, is it?
4	paragraph 6.99:	4	A. That is right for, I think, a good reason, that you are
5	"Cash is a comparator for credit card purchases. In	5	going to ask me.
6	its implementation of the(Reading to the words)	б	Q. Well, according to Rochet and Wright, if you accept
7	credit card purchases."	7	their analysis, the MIT test that was developed by
8	You just told us that's your approach as well,	8	Rochet and Tirole in 2008 is not suitable for credit
9	correct?	9	cards; that's their view, correct?
10	A. Yes.	10	A. That's their view. I think Jean Tirole in footnote 13
11	Q. "While cash would be a closer comparator for	11	makes the point, in his paper, that the MIT test has
12	face-to-face debit card purchases (Reading to the	12	a few problems in terms of competition law.
13	words) funds credit purchases."	13	Q. Can we go to E3.14?
14	That's where you and Dr Niels not for the first time	14	A. Sure.
15	differ, correct?	15	Q. Tab 265 is the Tirole article, 5696. You will see
16	A. Yes.	16	a heading halfway down the page:
17	Q. Can we go to E3.6, tab 130A. You see that this is the	17	"Subsidise competing means of payment."
18	article by Rochet and Wright. You see that on the	18	A. I do.
19	second page of this.	19	Q. Tirole says:
20	A. Sorry, I have got the wrong bundle. (Pause)	20	"The analysis assumed that alternative payment
21	Found it.	21	methods, cash/cheques, are fairly priced. This,
22	Q. Thank you. Again, it is the horribly convoluted	22	however, need not be the case. In some countries banks
23	numbering. If you turn over the first page, you will	23	are not allowed to charge for the costs they incur on
24	see the title. You will see it is an article called	24	cheques. In this case cheques are subsidised in that
25	"Credit card interchange fees" by Rochet and Wright,	25	their costs are recovered through cross (Reading to

# 113

1	yes?	1	the words)
2	A. I do.	2	What he
3	Q. Then if we can go to point 6. You will see in the	3	social costs
4	middle of the page there is a paragraph that begins:	4	account of
5	"In our model, credit cards can be used for two	5	A. The MIT a
6	types of transactions: ordinary purchases for regular	6	take accour
7	convenience usage, for which cash or a debit card will	7	Q. If one acce
8	soon provide identical benefits and for credit purchases	8	too low.
9	where credit is necessary for purchases to be realised.	9	A. If you viev
10	Credit purchases include a range of different types of	10	too low.
11	purchases such as unplanned purchases, impulse purchases	11	MR HOSKINS
12	and large purchases for which the consumer does not have	12	about to me
13	the cash or funds immediately available to complete the	13	A. Sir, may Li
14	purchase or for purchases to which the deferment of	14	Rochet and
15	payment facilities facilitates the transaction. For	15	MR JUSTICE I
16	ordinary purchases we assume credit cards are	16	A. The existe
17	inefficient given that we assume (Reading to the	17	terms of th
18	words) for ordinary purchases."	18	it is an obje
19	Then they go on to say:	19	a credit car
20	"Taking into account both types of transactions,	20	what is the
21	a monopoly card network always sets its interchange fee	21	thinking ab
22	too high in our setting. Thus, regulators(Reading	22	to. If I go to
23	to the words) only likely to give a lower bound of	23	through the
24	possible interchange fees that maximise consumer	24	it aids rival
25	surplus."	25	So using

1	the words) cash is then unduly favoured."
2	What he is doing is identifying that there are
3	social costs of cash and your MIT analysis doesn't take
4	account of those social costs of cash, does it?
5	A. The MIT analysis consistent with Article 101.3 does not
6	take account of those social costs of cash.
7	Q. If one accepts Tiroles' analysis it will be likely to be
8	too low.
9	A. If you view his assumptions as correct then it would be
0	too low.
1	MR HOSKINS: It is probably a good time to stop, sir, I'm
2	about to move on to a new topic.
3	A. Sir, may I make just one two small points about
4	Rochet and Wright?
5	MR JUSTICE BARLING: Yes.
б	A. The existence of a credit card, we establish usually in
7	terms of the restriction on whether you can actually
8	it is an objective necessity. When you get to 101.3,
9	a credit card exists, so you have to ask yourselves,
0	what is the benefit that Rochet and Wright are actually
1	thinking about, that the MIF is actually contributing
2	to. If I go to Rochet and Wright's model, you can look
3	through the mathematics but, essentially, it is saying
4	it aids rivalry between retailers.
5	So using a credit card has some benefit between

1	retailers. That is an additional sales argument at the
2	retail level but he actually says, explicitly, in his
3	model that there's no global additional sales to the
4	totality of merchants which is our test.
5	The second thing is that I think even I'm not
б	saying even you but you have read the mathematics,
7	but you also note that there is no interest in his
8	model. So if, actually, as I have said before interest
9	on the issuer side is greater than the cost, then the
10	additionality of providing that credit is absent.
11	I was given the homework last night of reading these
12	lovely surveys and I really appreciate it because it
13	brought home to me that we can have as many theories as
14	possible, but ultimately they have got to be grounded in
15	the law. I'm the economist, you are the lawyers, that's
16	the basis.
17	Q. Before we finish then, is your evidence that you believe
18	your MIT-MIF complies with 101.3, but the logic, the
19	result of everything we have seen so far is that what
20	you are saying is, in order to comply with 101.3, one
21	has to apply a MIT-MIF which Rochet, Tirole and Wright
22	all consider would not be appropriate economically
23	because it would be too low? That's your evidence?
24	That is the impact of it, isn't it?
25	A. The impact of Rochet Tirole is: I think we ought to

1	measure transaction benefits. Everything apart from
2	that I do not think is much use in the context of 101.3,
3	where the central issue is actually fair share. That is
4	not a straight economics point because you asked me
5	yesterday: does economics worry about the level? Well,
б	the law worries about the level and that's fair share.
7	Q. Let's stick to economics because that's your expertise.
8	A. Indeed.
9	Q. Your evidence is that you would prefer a MIT-MIF which,
10	according to Rochet, Tirole and Wright, would be too
11	low?
12	A. Yes.
13	Q. Thank you.
14	PROFESSOR JOHN BEATH: Might I ask exactly on that point,
15	because I think this whole line of questioning arose in
16	looking at the final sentence of the Rochet paper,
17	E3.14, page 5696, tab 265.
18	"The use of this term leads to a conservative
19	estimate of the desirable IF."
20	I think we should be careful that the word
21	"conservative" is being as it seems to be being used
22	is too low. In fact, if you take the range of
23	theoretical results, the word "conservative" means it
24	has not accounted for all the relevant factors. It
25	could be either too low or too high.

1	MR HOSKINS: Sir, can I respond to this with the legal
2	submissions I made in opening, which is remember here we
3	are in the context of the broad axe.
4	PROFESSOR JOHN BEATH: Yes.
5	MR HOSKINS: And the judges have applied the broad axe in
6	the past and recognised the need to favour the defendant
7	rather than the claimant. So when one is looking the
8	reason why I'm taking you to all these articles is to
9	show you there is a series of issues, a series of
10	factors that would lead to a higher MIF that are not
11	taken account of. My submission, giving nothing away,
12	at the end in closing is going to be, if you want to
13	apply the broad axe you have to be nice to me and you
14	have got to take account of all these factors that
15	aren't in the MIT-MIF.
16	PROFESSOR JOHN BEATH: I take the point and I still believe
17	I am correct in my use of the term "conservative" to
18	mean not all factors taken into account. Okay.
19	MR SMITH: Mr Hoskins, one query that we had. We had some
20	mention earlier today of the introduction of the
21	MasterCard World card in 2008/2009.
22	MR HOSKINS: Yes.
23	MR SMITH: It may well be in the documents but, if so,
24	I haven't been able to find it. But did Visa have

25 an equivalent premier card at any time, no need to

1	answer this now.
2	MR HOSKINS: No.
3	MR SMITH: And if it did, can you give us a rough date as to
4	when it was introduced. Thank you.
5	MR JUSTICE BARLING: Thank you very much.
6	Mr von Hinten Reed, I have already said to you you have
7	to be very careful not to talk about your evidence or
8	the case except in that one respect where you are going
9	to raise it with the team.
10	A. I appreciate that. Thank you very much, sir.
11	MR JUSTICE BARLING: Have a good weekend.
12	A. And you.
13	MR JUSTICE BARLING: Thank you very much.
14	(4.31 pm)
15	(End of open session)
16	(The court adjourned until 10.30 am on
17	Monday, 22nd February 2016)
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February 19, 2016

# Sainsbury's Supermarkets Ltd v. (1) MasterCard Inc, (2) MasterCard International Inc, (3) MasterCard Europe S.P.R.L.

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<b>40 (3)</b> 0.05 10.0 17	07.13 70.10 97.10 98.1 00.17 101.1F				
-10 (3) 7.20 10:2,17 10% (1) 10.4	70.1 77.14 101:15 101.00 100.00				
10/0 (1) 10.0 11 (2) 21.10 21	101.22 102:23				
110 (5) 20.12 10.10	6% (5) 11.10 10 10 22				
417 (3) 39:12 40:19	101-21				
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