IFRS 15 workshop material



2

IFRS 15 next steps

Workshops today

- Walkthrough of IFRS 15 changes to 2015 results for Civil Aerospace for:
 - revenue
 - profit
 - balance sheet
- Examples to contrast current and IFRS 15 accounting
- Modelling IFRS 15



Highlights



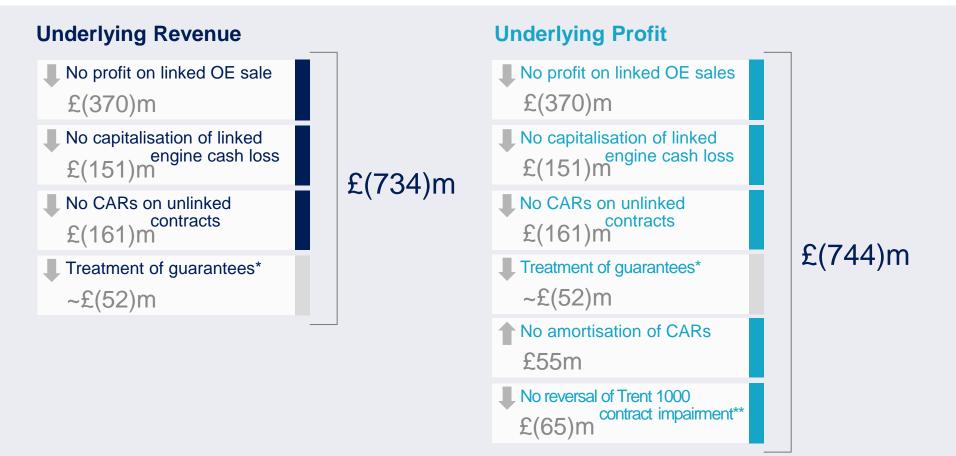
- Significant non-cash adjustments to OE and AM revenue and profit recognition in the near-term
 - Heavily influenced by high production volumes; new engine programmes and market share gains in aftermarket
- No change over product life cycle to profit achieved
 - Same overall profit recognised per engine
- No change to cash flow

Scope of impact Civil Aerospace



Civil Aerospace OE revenue	Civil Aerospace AM revenue
Large Engine OEBusiness jet and V2500	Large Engine AM Business/ Regional V2500
Installed OE	TotalCare® &Time &CorporateCare®Materials
Around 50% of OE revenues generate positive cash margin	Around 1/3 of AM revenues accounted for on a 'time & materials' basis
 Typical range of cash losses on installed large engines £1-2m 	 Around 2/3 of aftermarket revenues affected by IFRS 15
 Targeting cash break even on XWB-84 by 2020 	 Over 80% of long term contracts are pay as you go style contracts
 Cost reduction activity underway to reduce the average installed engine cash loss over the next few years 	 Pay at shop visit not materially impacted by IFRS 15

Estimated IFRS 15 changes – 2015 Civil OE



R

Rolls-Royce

No change to cash flows from any of the revenue and profit changes

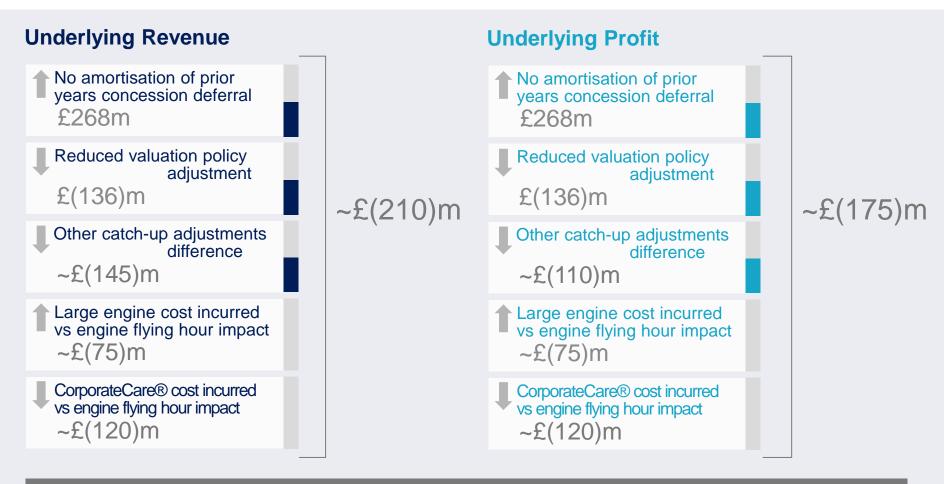
Note: All adjustments shown pre-tax effects

* Based on Initial assessment

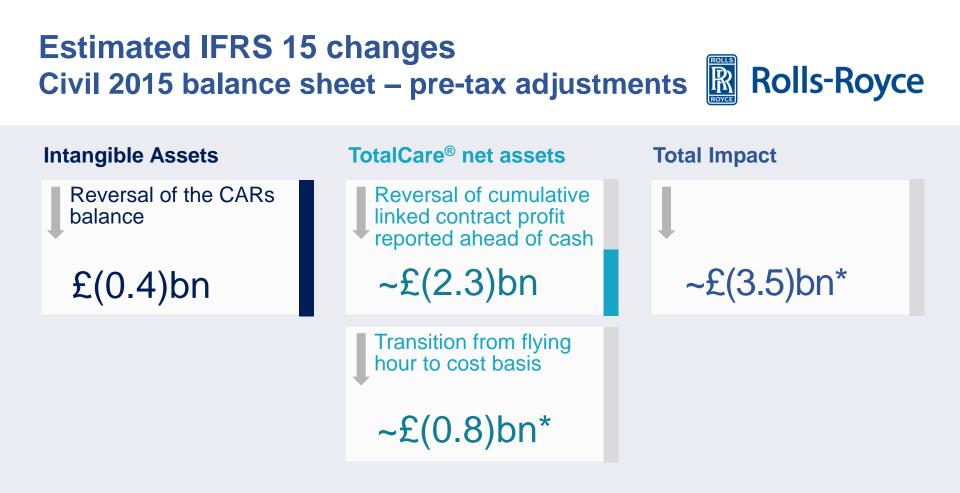
** Relates to £50m CARs impairment reversal and £15m related provision release

Estimated IFRS 15 changes – 2015 Civil AM



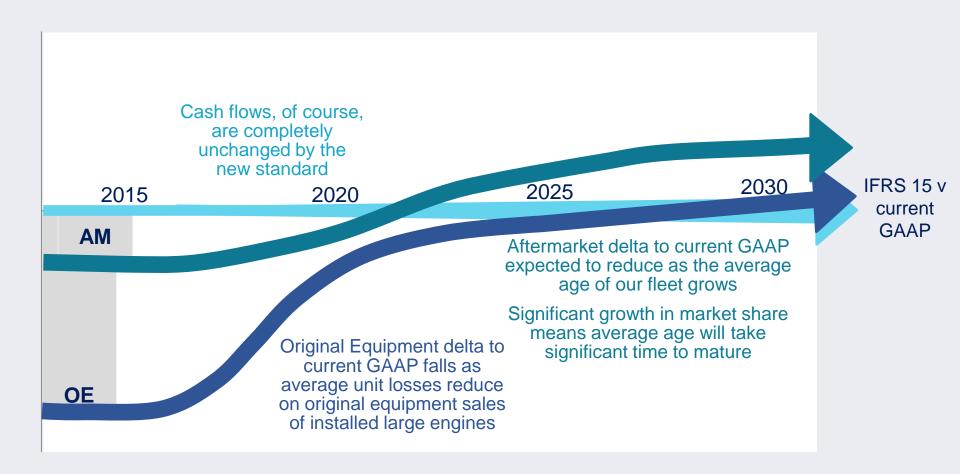


No change to cash flows from any of the revenue and profit changes



IFRS 15 v Current GAAP

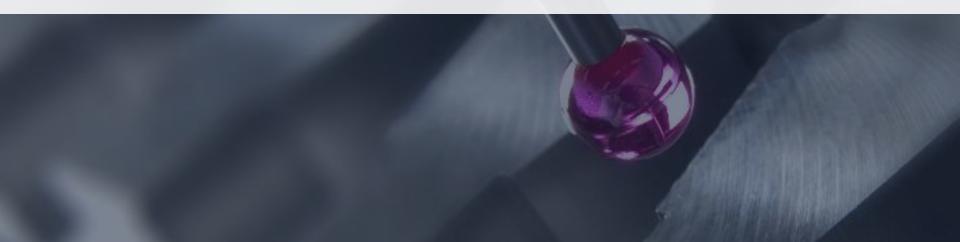






Andrew Dickinson

Chief Financial Officer – Civil Aerospace



IFRS 15 next steps



Workshops today

- Walkthrough of IFRS 15 changes to 2015 results for Civil Aerospace for:
 - revenue
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- Examples to contrast current and IFRS 15 accounting
- Modelling IFRS 15

Rules governing the 'Capitalising' of engine losses will change under IFRS 15



			10
Cash \$m			engines
Gross revenue			100
Concession			(60)
Net revenue		1	40
Cost			(50)
Margin			(10)
	Year	Years	Total
Current accounting	0	1-15	
Net revenue	2 50	-	50
Cost of sales	(50)	3 (10)	(60)
Margin	-	(10)	(10)
CARs	10	_	
Cash	(10)		(10)
	Year	Years	Total
IFRS 15	0	1-15	
Net revenue	40	-	40
Cost of sales	(50)	5 -	(50)
Margin	4 (10)	-	(10)
Cash	(10)		(10)

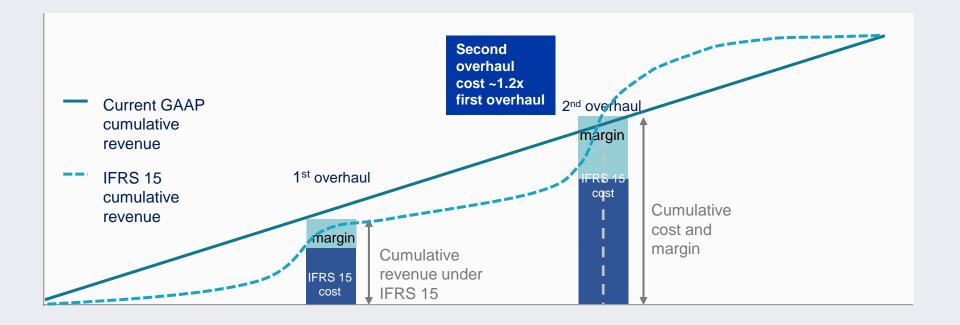
Example Figures

- 1 The net revenue (net transaction price) is the revenue under IFRS 15
- 2 Under current accounting the net transaction price is increased by the value of the cash loss to take the margin to zero
- 3 Under current accounting the cash loss is deferred and taken through the margin over 15 years as amortisation within cost of sales
- 4 Under IFRS 15 the cash loss is taken to margin when the OE sale occurs
- 5 No deferral of cash loss recognised in future years

Under IFRS 15 there is no linked/unlinked distinction so all OE sales will be treated on the same basis.

Current v IFRS 15 revenue from long-term service agreements





Large engine fleet maturity

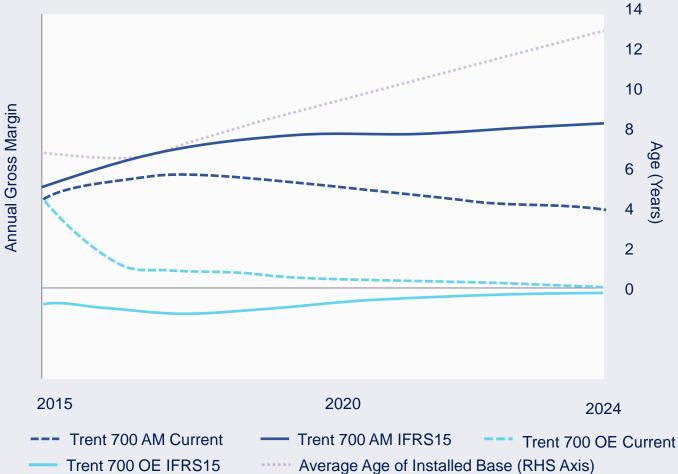




- Fleet maturity beneficial for reporting under IFRS 15
- Significant growth in market share means average age will take significant time to mature
- The faster the production ramp, the faster the fleet matures

Trent 700 margin

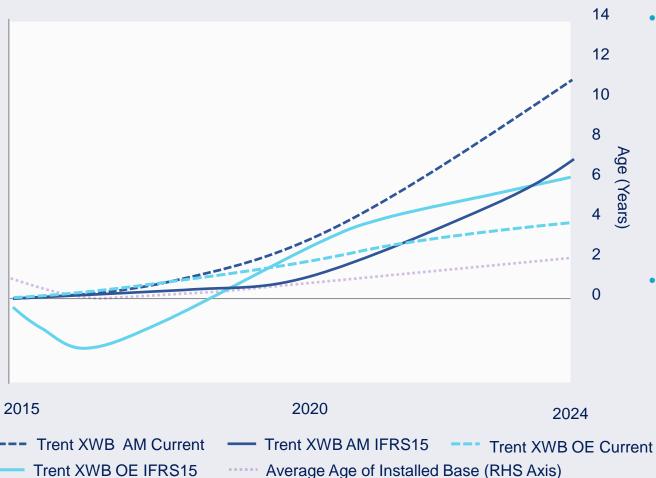




- Mature engine
 programme with
 good service
 volumes
- Benefits under IFRS 15 from absence of amortisation of aftermarket profit pulled ahead on OE via linked accounting

Trent XWB margin





- OE breakeven by • 2020:
 - Focused cost reduction activity
 - Step up through launch pricing reduces engine losses
- Minimal benefit • from linked profit amortisation

Summary



- Significant non-cash adjustments to OE and AM revenue and profit recognition in the near-term
 - Heavily influenced by high production volumes; new engine programmes and market share gains in aftermarket
- No change over product life cycle to profit achieved
 - Same overall profit recognised per engine
- No change to cash flow





Rolls-Royce

Illustrative examples to contrast accounting for large engines in Civil Aerospace using current GAAP and IFRS 15

Illustrative examples content



- 1. OE: Unlinked installed large engine OE
- 2. AM: Unlinked long-term service agreement
- 3. OE + AM: Combined unlinked OE and long-term service agreement
- 4. OE + AM: IFRS 15 vs linked OE and long-term service agreement
- 5. AM: Unlinked long-term service contract with a cost estimate change
- 6. **OE + AM**: IFRS 15 vs linked OE and long-term service contract with a cost estimate change
- 7. **OE + AM**: IFRS 15 vs current accounting for RRSPs

Context: current treatment



- Under current GAAP, when an engine is sold it is either accounted for on a linked or an unlinked basis
- On an unlinked basis engines are sold and any loss on sale is capitalised as a Contractual Aftermarket Right (CAR). This CAR, which reflects the future profitability of the service revenues on an engine, is amortised on a straight line basis over 15 years and
- Using this method service revenues are recognised as they are received and costs are accrued on a flying hours basis

- On a linked basis OE sales and TotalCare[®] agreements are negotiated as part of one commercial package
- OE margins and TotalCare margins are combined into a "blended" margin
- Profit is recognised on % complete of the combined contracts on a revenue basis

IFRS 15 implications



The introduction of IFRS15 will have the following implications:

Linked accounting will cease to exist so all OE sales will be treated on the same basis

OE Engine losses will no longer be capitalised as CARs Revenue in the aftermarket will be recognised on a cost input basis

1. Unlinked installed large engine OE



Under IFRS 15 there is no linked/unlinked distinction so all OE sales will be treated on the same basis and the cash loss is taken to margin when the OE sale occurs.

(10)

	10	
Cash \$m	engines	
Gross revenue	100	
Concession	(60)	
Net revenue	40	1
Cost	(50)	
Margin	(10)	

	Year	Years	Total
Current accounting \$m	0	1-15	
Net revenue	50 2	-	50
Cost of sales	(50)	(10) 3	(60)
Margin	-	(10)	(10)

10	-	
(10)		(10)
Year	Years	Total
0	1-15	
40	-	40
(50)	-	(50)
(10) 🔽	4 -	(10)
	(10) Year 0 40 (50)	(10) Year Years 0 1-15 40 - (50) -

(10)

Cash

Example Figures

- 1 The net revenue (net transaction price) is the revenue under IFRS 15
- 2 Under current accounting the net transaction price is increased by the value of the cash loss to take the margin to zero
- 3 Under current accounting the cash loss is deferred and taken through the margin over 15 years as amortisation within cost of sale
 - Under current accounting recognise \$40m transaction price and \$10m revenue from Contractual Aftermarket Rights (CARs), taking margin to zero
 - No additional revenue is recognised in respect of the CARs under IFRS 15
- Under IFRS 15 the cash loss is taken to margin when the OE sale occurs

2. Unlinked long-term service agreement



The tables below illustrate a simplified TotalCare contract; cash revenues received annually (constant flying hours) and infrequent costs driven solely by engine overhauls:

						Yea	ar					
Cash \$m	0	1	2	3	4	5	6	7	8	9	10	Total
Net revenue	—	10	10	10	10	10	10	10	10	10	10	100
Cost	_	_	-	_	(25)	-	_	—	(25)	_	_	(50)
Margin	_	10	10	10	(15)	10	10	10	(15)	10	10	50
Margin %												50%
Current						Yea	ar					
accounting \$m	0	1	2	3	4	5	6	7	8	9	10	Total
Net revenue	-	10	10	10	10	10	10	10	10	10	10	100
Cost of sales	—	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	2 (50)
Margin	-	5	5	5	5	5	5	5	5	5	5	50
Margin %		50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	3 50%
Completion %	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	
IFRS 15						Yea	ar					
accounting \$m	0	1	2	3	4	5	6	7	8	9	10	Total
Net revenue	-	_	_	_	50	_	_	_	50	_		100
Cost of sales	-	_	-	_	(25)	_	_	_	(25)	_	-	(50)
Margin	_	-	_	_	25	_	-	_	25	-	-	50
Margin %		n/a	n/a	n/a	50%	n/a	n/a	n/a	50%	n/a	n/a	6 50%
Completion %	0%	0%	0%	0%	50%	50%	50%	50%	100%	100%	100%	

Current Accounting

- Revenues are recognised as they are received.
- Costs are accrued to match the stage of completion of the contract based on flying hours.
- An even margin is recognised over the term of the contract.

IFRS 15

- 4 Revenue is recognised to match the stage of completion of the contract based on costs.
- 5 Costs are recognised as they are incurred.
- 6 Margin is recognised when contract activity occurs.

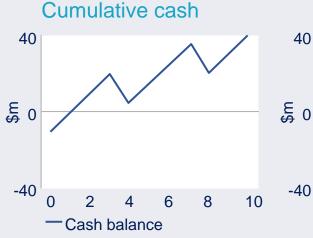
Lower revenues will be recognised in early stages of service agreements under IFRS 15

NB: In practice, costs will be spread more evenly as:

- a) Routine monitoring and service costs are incurred continuously; and
- b) Not all the engines in a fleet will be overhauled in the same period.

3. Combined unlinked OE and long-term service agreement



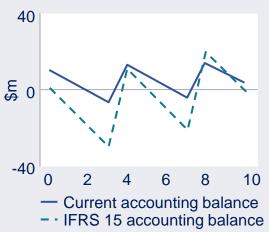


- Cash is unchanged under IFRS 15
- -40 0 2 4 6 8 10 - Current accounting margin - Cumulative IFRS 15 margin

Cumulative margin

- Under IFRS 15 any cash deficit on OE will be recognised immediately, rather than as a CAR
- IFRS 15 AM margin is recognised as goods and services are provided, rather than in line with engine flying hours
- Initially AM cash is collected in advance of margin recognition

Balance sheet



- Current accounting comprises CARs and TotalCare balances. CARs will not exist under IFRS 15 and any cash deficit on OE delivery will be recognised immediately
- Under both cases there are timing differences between margin and cash recognised through TotalCare balance
- Before the first overhauls, the IFRS 15 balance is negative, as cash is collected, but no margin is recognised
- At the time of the overhauls (years 4 and 8), revenue is recognised to reflect the goods and services provided, reducing the balances

4. IFRS 15 vs linked OE and long-term service agreement



The tables below illustrate the same OE and simplified TotalCare® contract, but now it is assumed to be linked:

95%

100%

						Yea	r					
Cash \$m	0	1	2	3	4	5	6	7	8	9	10	Total
OE - Gross revenue	100	-	-	_	_	_	_	-	-	-	-	100
OE - Concession	(60)	-	-	-	-	-	-	-	-	-	-	(60)
AM - Gross revenue	-	10	10	10	10	10	10	10	10	10	10	100
Net revenue	40	10	10	10	10	10	10	10	10	10	10	140
OE - Cost	(50)	-	_	_	-	-	-	_	_	_	-	(50)
AM - Cost	-	-	-	-	(25)	-	-	-	(25)	-	-	(50)
Margin	(10)	10	10	10	(15)	10	10	10	(15)	10	10	40
Margin %												29%
						Yea	r					
Current accounting \$m	0	1	2	3	4	Year 5	r <u>6</u>	7	8	9	10	Total
Current accounting \$m OE - Gross revenue	0 100	1 -	2	3	4			7	8	9	<u>10</u>	Total 100
		1 - (3)	2 - (3)	<u>3</u> - (3)	4 - (3)			7 - (3)	8 - (3)	9 - (3)	<u>10</u> - (3)	
OE - Gross revenue	100	1 - (3) 10	_	-	-	5	6	7 - (3) 10	_	-	-	100
OE - Gross revenue Concession	100 (30)		- (3)	- (3)	- (3)	5 - (3)	6 - (3)		- (3)	- (3)	- (3)	100 (60)
OE - Gross revenue Concession AM - Gross revenue	100 (30) -	10	- (3) 10	- (3) 10	- (3) 10	5 - (3) 10	6 - (3) 10	10	- (3) 10	- (3) 10	- (3) 10	100 (60) 100
OE - Gross revenue Concession AM - Gross revenue Net revenue	100 (30) - 70	10	- (3) 10	- (3) 10	- (3) 10	5 - (3) 10	6 - (3) 10	10	- (3) 10	- (3) 10	- (3) 10	100 (60) 100 140
OE - Gross revenue Concession AM - Gross revenue Net revenue OE - Cost of sales	100 (30) - 70 (50)	10 7 -	- (3) 10 7 -	- (3) 10 7 -	- (3) 10 7 -	5 (3) 10 7 -	6 (3) 10 7 -	10 7 -	- (3) 10 7 -	- (3) 10 7 -	- (3) 10 7 -	100 (60) 100 140 (50)

						Yea	ır					
IFRS 15 accounting	\$m 0	1	2	3	4	5	6	7	8	9	10	Total
OE - Gross revenue	100	-	-	-	-	-	-	-	-	-	-	100
Concession	(60)	-	-	-	-	-	-	-	-	-	-	(60)
AM - Gross revenue	-	_	_	-	50	-	-	_	50	-	-	100
Net revenue	40	-	-	-	50	-	-	-	50	-	-	140
OE - Cost of sales	(50)	-	-	-	-	-	-	-	-	-	-	(50)
AM - Cost of sales	-	-	-	-	(25)	-	-	-	(25)	-	-	(50)
Margin	(10)	-	-	-	25	-	-	-	25	-	-	40
Margin %	-25%	n/a	n/a	n/a	50%	n/a	n/a	n/a	50%	n/a	n/a	29%
Completion %	50%	50%	50%	50%	75%	75%	75%	75%	100%	100%	100%	

70%

75%

80%

85%

90%

Completion %

50%

55%

60%

65%

1 Current Accounting

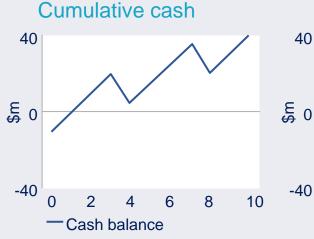
The linked accounting allocates the OE cash concessions between the OE and AM to give an even accounting margin over the combined contract.

IFRS 15

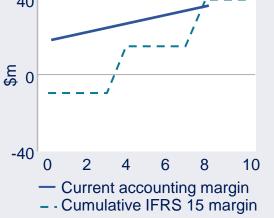
There is no linked accounting under IFRS 15, so this is simply the sum of the OE and AM accounting shown on the previous slides.

4. IFRS 15 vs linked OE and long-term service agreement





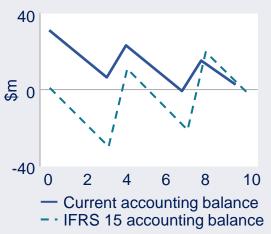
Cash is unchanged under IFRS 15



Cumulative margin

- Any cash deficit on OE is recognised immediately, rather than recognising a margin on the linked contracts
- IFRS 15 AM margin is recognised as goods and services are provided, rather than in line with engine flying hours
- Initially AM cash is collected in advance of margin recognition

Balance sheet



- Balance is difference between cumulative margin and cumulative cash
- No IFRS 15 balance on OE delivery as any cash deficit is recognised immediately
- An IFRS 15 credit balance builds up initially as cash is collected, but no margin recognised until the overhaul
- At the end of the contract they will be the same and the TotalCare balance will be zero

Context: current treatment Margin changes during the contract



- The forecast margin on the TotalCare contract will change over its life as estimates are revised
- A change in forecast TotalCare margin due to a change in estimates results in a catch-up adjustment in the period in which the re-assessment is made
- The catch-up reflects over/under recognition of revenue in prior periods compared to the latest assessment
- Catch-up adjustments may be significant, particularly later in the life of a contract when the catch-up covers a number of prior years



Drivers of the TotalCare balance

Contract outlook and margin improves
Increased debits

Contract outlook and margin deteriorates > Increased credits

5. Unlinked long-term service contract with a cost estimate change



1 The tables below illustrate the same simplified TotalCare contract, but with a change in future cost estimates during year six. It is now expected a cost reduction of \$5m will be achieved in year 8

Cash \$m	0	1	2	3	4	5	6	7	8,	, 9	10	Total
Net revenue	_	10	10	10	10	10	10	10	10	10	10	100
Cost	—	—	—	—	(25)	—	—	—	(20)	1 -	—	(45)
Margin	-	10	10	10	(15)	10	10	10	(10)	10	10	55
Margin %												55%

		Year											
Current \$m	0	1	2	3	4	5	6	7	8	9	10	Total	
Net revenue	_	10	10	10	10	10	10	10	10	10	10	100	
Cost	—	(5)	(5)	(5)	(5)	(5)	(2)	2 (5)	(5)	(5)	(5)	(45)	
Margin	_	5	5	5	5	5	8	6	6	6	6	55	
Margin %		50%	50%	50%	50%	50%	80%	55%	55%	55%	55%	55%	
Cum. margin%		50%	50%	50%	50%	50%	55%	3 55%	55%	55%	55%	55%	

No change to amounts recognised in prior years

	Year												
IFRS 15 \$m	0	1	2	3	4	5	6	7	8	9	10	Total	
Net revenue	—	—	—	—	50	—	6	4 –	44	-	—	100	
Cost	—	—	—	-	(25)	—	_	-	(20)	-	—	(45)	
Margin	_	—	—	—	25	—	6	—	24	—	—	55	
Margin %		n/a	n/a	n/a	50%	n/a	100%	n/a	55%	n/a	n/a	55%	
Cum. margin%		n/a	n/a	n/a	50%	50%	55%	55%	55%	55%	55%	55%	

2 Current Accounting

 A catch-up adjustment
 of \$2.5m is included in
 cost of sales to reflect
 the 'over accrual' of
 costs in years 1-5, so
 that the cumulative
 margin recognised at
 the end of year 6 is

 3 55%, the revised
 overall forecast
 contract margin.

4 IFRS 15

A catch-up adjustment of \$5.6m is included in revenues to reflect the 'under recognition' of revenues in years 1-5, so that the cumulative margin recognised at the end of year 6 is
55%, the revised overall forecast contract margin.

6. IFRS 15 vs linked OE and long-term service contract with a cost estimate change



The tables illustrate the same simplified contract, but with a change in future cost estimates during year six. It is now expected a cost reduction of \$5m will be achieved in year 8.

 2 Current Accounting A catch-up adjustment of \$4.4m is included (split between concession rephasing and cost of sales), so that the cumulative margin recognised at the
 3 end of year 6 is 32%, the revised overall forecast contract margin.

IFRS 15

There is no linked accounting under IFRS 15, so this is simply the sum of the OE and AM accounting shown on the previous slides.

						ioui						
Cash \$m	0	1	2	3	4	5	6	7	8	9	10	Total
OE - Gross revenue	100	-	-	-	-	-	-	-	-	-	-	100
OE - Concession	(60)	_	_	_	_	_	_	_	_	_	—	(60)
AM - Gross revenue	_	10	10	10	10	10	10	10	10	10	10	100
Net revenue	40	10	10	10	10	10	10	10	10	10	10	140
OE - Cost	(50)	_	_	_	_	_	_	_	_		—	(50)
AM - Cost	_	_	_	_	(25)	_	_	_	(20)	1)-	—	(45)
Margin	(10)	10	10	10	(15)	10	10	10	(10)	10	10	45
Margin %												32%
						Year	r					
Current accounting \$m	0	1	2	3	4	5	6	7	8	9	10	Total
OE - Gross revenue	100	_	-	_	_	_	-		_	_	_	100
Concession	(30)	(3)	(3)	(3)	(3)	(3)	(2)	2 (3)	(3)	(3)	(3)	(60)
AM - Gross revenue	—	10	10	10	10	10	10	10	10	10	10	100
Net revenue	70	7	7	7	7	7	8	7	7	7	7	140
OE - Cost of sales	(50)	_	_	_	_	_	-		_	_	_	(50)
AM - Cost of sales	—	(5)	(5)	(5)	(5)	(5)	(2)	2 (5)	(5)	(4) *	(5)	(45)
Margin	20	2	2	2	2	2	6	2	2	2	2	45
Margin %	29%	29%	29%	29%	29%	29%	76%	32%	32%	32%	32%	32%
Cum. margin %	29%	29%	29%	29%	29%	29%	32%	3 2%	32%	32%	32%	
	Ν	lo chan	ge to ar	mounts	recogn	ised						
			in pri	or years	3							
						Year	r 🔄					

Year

						Yea	ar					
IFRS 15 accounting \$r	m 0	1	2	3	4	5	6	7	8	9	10	Total
OE - Gross revenue	100	_	-	_	-	-	-	-	-	-	-	100
Concession	(60)	-	-	-	-	-	-	-	-	-	-	(60)
AM - Gross revenue	_	_	_	_	50	_	6	_	44	_	_	100
Net revenue	40	_	-	_	50	-	6	-	44	-	_	140
OE - Cost of sales	(50)	-	-	-	-	-	-	-	-	-	_	(50)
AM - Cost of sales	_	_	_	_	(25)	_	_	_	(20)	_	_	(45)
Margin	(10)	_	-	_	25	-	6	-	24	-	-	45
Margin %	-25%	n/a	n/a	n/a	50%	n/a	100%	n/a	55%	n/a	n/a	32%
Cum. margin %	-25%	-25%	-25%	-25%	17%	17%	22%	22%	32%	32%	32%	

7. IFRS 15 vs current accounting for Risk and Revenue Sharing Partners (RRSPs)



Recognition of partner's share of aftermarket flows will be re-phased to match Rolls-Royce activity to meet our aftermarket obligations.

	Year											
Cash \$m	0	1	2	3	4	5	6	7	8	9	10	Total
Net revenue	_	10	10	10	10	10	10	10	10	10	10	100
Cost	_	-	_	_	(25)	_	-	_	(25)	-	_	(50)
RRSP share	_	(2)	(2)	(2)	3	(2)	(2)	(2)	3	(2)	(2)	(10)
Margin	-	8	8	8	(12)	8	8	8	(12)	8	8	40
Margin %												40%

Current												
accounting \$m	0	1	2	3	4	5	6	7	8	9	10	Total
Net revenue	_	10	10	10	10	10	10	10	10	10	10	100
Cost of sales	-	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(6)	(60)
Margin	-	4	4	4	4	4	4	4	4	4	4	40
Margin %		40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
Completion %	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	

IFRS 15	Year											
accounting \$m	0	1	2	3	4	5	6	7	8	9	10	Total
Net revenue	_	_	_	_	50	_	_	_	50	_	_	100
Cost of sales	—	—	_	—	(30)	_	_	—	(30)	—	_	(60)
Margin	_	_	_	_	20	_	_	_	20	_	_	40
Margin %		n/a	n/a	n/a	40%	n/a	n/a	n/a	40%	n/a	n/a	40%
Completion %	0%	0%	0%	0%	50%	50%	50%	50%	100%	100%	100%	

20% RRSP partner receives a share of Rolls-Royce revenues and costs whilst providing free of charge parts.

(In year of service the RRSP partner has \$5m cost share but still receives \$2m revenue, so net \$3m received by Rolls-Royce).

Current Accounting

RRSP payments, like any other cost, are accrued within CoS to match the stage of completion of the contract based on flying hours.

IFRS 15

Recognition of payments to RRSP matched to periods when Rolls-Royce performs activity for the customer. Revenue and margin is recognised when contract activity occurs.