Delivering Excellence Through Innovation & Technology





### HIGHLIGHTS – for the year ended 30 June 2019



September 2019

- A resilient performance, demonstrating the development of the business and the success of diversification across sectors and geographies
- Strong growth in Performance Products and Energy & Environment in particular, offsetting a very challenging year in our European and US Automotive businesses
- Order intake robust at £386m, compared to £413m in FY 2017/18 and £366m in FY 2016/17
- Order book increased to £314m, up £19m on June 2018
- Revenue up 2% to £384.4m on FY 2017/18
- Underlying PBT similar to prior year at £37.0m (FY 2017/18: £37.5m)
- Record McLaren engine deliveries and ABS production commenced
- Two Australian acquisitions in Rail and Energy & Environment (May 2019 and July 2019, respectively)
- Net debt at £47.4m, including £22.4m acquisition costs (June 2018 Net debt: £26.1m)
- Dividend increased by 4% to 21.28p from 20.46p
- Current political and economic uncertainties aside, we are well positioned for growth from a strong, diversified order book and pipeline, recurring revenue from long-term production programmes and the benefit of recent acquisitions

Note: the prior period has been restated due to the impact of IFRS 15 'Revenue from contracts with customers' on a like-for-like basis with the current period.



# **Key indicators**



		ended June	Year-on-Year Movement	
	2019	<b>2018</b> <sup>(1)</sup>		
Order intake (£m)	£386m	£413m	£(27)m	
Order book (£m)	£314m	£295m	£19m	
Underlying operating profit margin (2)(%)	10.3%	10.5%	(0.2)%	
Underlying effective tax rate (2)(3)(%)	22.2%	21.3%	0.9%	
Underlying basic earnings per share (pence) (2)	53.7p	55.1p	(1.4)p	
Dividend (pence)	21.28p	20.46p	0.82p	
Net debt (£m)	£(47.4)m	£(26.1)m	£(21.3)m	
FCFe (4)	£15.2m	£26.0m	£(10.8)m	
Pre-tax pension deficit (£m)	£8.5m	£4.6m	£3.9m	
Closing headcount incl. subcontractors (no.)	2,981	3,061	(80)	

<sup>(1)</sup> the prior period has been restated due to the impact of IFRS 15 'Revenue from contracts with customers' on a like-for-like basis with the current period.

<sup>(2)</sup> excluding specific adjusting items, which comprise amortisation of acquired intangible assets, acquisition-related expenditure, reorganisation costs and non-recurring items.

<sup>(3)</sup> reported effective tax rate is 24.9%.

<sup>(4)</sup> calculated as net cashflow excluding dividends, FX, purchase of and/or proceeds from shares and acquisition and restructuring related costs.

### **Income statement**



		Year ended 30 June			
£m	2019 2018 Underlying (2) Underlying (1) (2)		% change		
Revenue	384.4	378.5	2%		
Gross profit	134.9	142.7	(5)%		
Administration costs	(95.3)	(103.0)	(7)%		
Operating profit	39.6	39.7	-		
Net finance costs	(2.6)	(2.2)	18%		
Profit before tax	37.0	37.5	(1)%		
Taxation charge	(8.2)	(8.0)	2%		
Profit for the period	28.8	29.5	(2)%		

<sup>(1)</sup> the prior period has been restated due to the impact of IFRS 15 'Revenue from contracts with customers' on a like-for-like basis with the current period. Comparative information has also been re-presented to reclassify certain indirect payroll and depreciation costs from cost of sales to administrative expenses in a manner that is consistent with their classification in the current period.

<sup>(2)</sup> excluding specific adjusting items, which comprise amortisation of acquired intangible assets, acquisition-related expenditure, reorganisation costs and non-recurring items.

<sup>(3)</sup> a full income statement including these items is included in the Appendix.

# Revenue by customer location



External Revenue	Year ended
	30 June

£m	2019	2018 <sup>(1)</sup>			
UK	152.4	144.6			
Rest of Europe	96.4	99.3			
Europe total	248.8	243.9			
US	61.3	47.6			
China	30.9	38.9			
Rest of Asia	31.4	40.8			
Asia total	62.3	79.7			
Rest of the World	12.0	7.3			
Total	384.4	378.5			

<sup>(1)</sup> the prior period has been restated due to the impact of IFRS 15 'Revenue from contracts with customers' on a like-for-like basis with the current period.

# **Segmental results**



	Year ended 30 June							
	Revenu	Revenue earned		Underlying operating profit <sup>(2)</sup>		Underlying operating profit <sup>(2)</sup> margin		
£m	2019	2018 <sup>(1)</sup>	2019 2018 <sup>(1)</sup>		2019	2018 <sup>(1)</sup>		
Performance Products	113.9	91.7	11.9	9.3	10.4%	10.1%		
Technical Consulting	270.5	286.8	27.7	30.4	10.2%	10.6%		
Total	384.4	378.5	39.6	39.7	10.3%	10.5%		

<sup>(1)</sup> the prior period has been restated due to the impact of IFRS 15 'Revenue from contracts with customers' on a like-for-like basis with the current period.

<sup>(2)</sup> excluding specific adjusting items, which comprise amortisation of acquired intangible assets, acquisition-related expenditure and reorganisation costs.

# **Segmental structure**



- From 2020, segmental reporting will be changing from TC and PP to the segments below to give more granularity on the different areas of our business
- ABS will be reported in the Defence segment







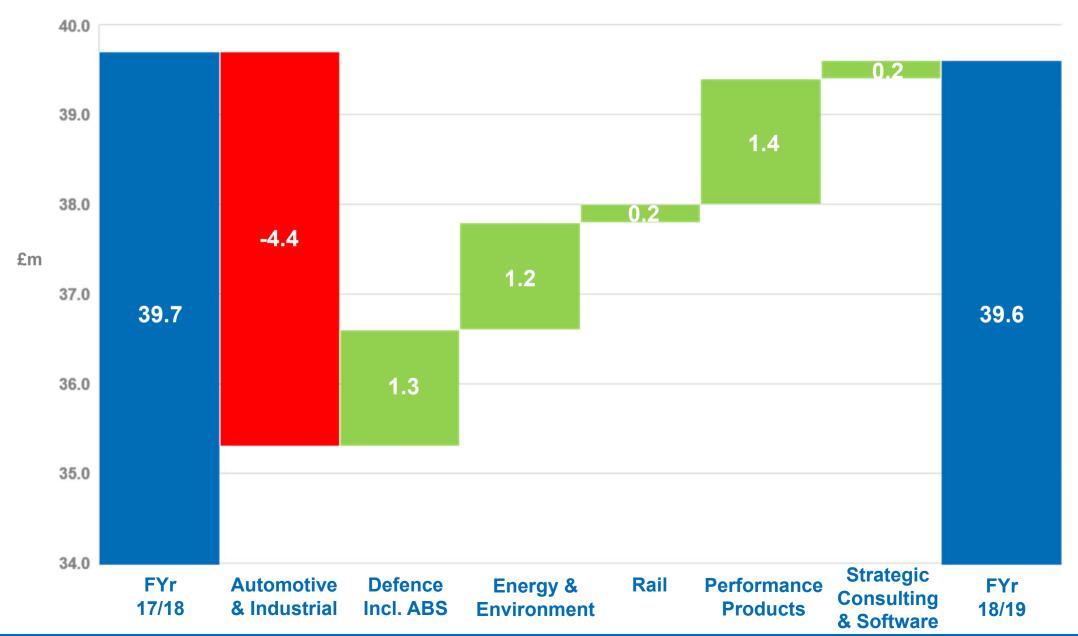






# Underlying operating profit bridge under the new segmental structure





### **Cash flow**



# Year ended 30 June

£m	2019	2018 <sup>(1)</sup>
Underlying operating profit	39.6	39.7
Depreciation and amortisation	11.4	11.6
Working capital decrease/(increase)	(7.8)	1.3
Dividends	(11.0)	(10.5)
Tax paid	(4.9)	(7.6)
Capital expenditure	(16.0)	(14.4)
Pension charge and funding	(4.3)	(4.4)
Cash flow hedges, FX, interest/other	(3.4)	0.1
Cash inflow before acq'n & restructuring related costs	3.6	15.8
Acquisition and restructuring related costs	(24.9)	(4.0)
Cash inflow/(outflow) (2)	(21.3)	11.8
Opening Cash Balance	(26.1)	(37.9)
Closing Cash Balance	(47.4)	(26.1)

<sup>(1)</sup> the prior period has been restated due to the impact of IFRS 15 'Revenue from contracts with customers' on a like-for-like basis with the current period.

(2) cash inflow/(outflow) net of movement in borrowings

# **Balance sheet summary**



### 30 June

£m	2019	2018 <sup>(1)</sup>
Tangible non-current assets	44.6	45.3
Intangible non-current assets	125.2	97.2
Inventories, trade and other receivables	155.9	148.6
Assets held for sale	2.9	-
Net debt	(47.4)	(26.1)
Trade and other payables	(89.9)	(83.0)
Pension deficit	(8.5)	(4.6)
Other (2)	(10.9)	(6.6)
Net assets	171.9	170.8

<sup>(1)</sup> the prior period has been restated due to the impact of IFRS 15 'Revenue from contracts with customers' on a like-for-like basis with the current period.

<sup>(2)</sup> other includes provisions, deferred tax and current tax liabilities.

### Investments and acquisitions



### **Transport Engineering**

Z Cash impact in year net £18.9m. Further £0.5m paid in H1 FY20 for cash and net working capital. Additional £8.2m, subject to financial performance targets, to be paid over the next two years.

Date Acquired	No. of people	Cash consideration	Revenue p.a.	Operating Profit p.a.
31 May 2019	95	£21.7m (max £29.9m)	£15.3m	£3.5m

### **PLC Consulting**

£3.9m paid in H1 FY20. Additional £1.5m, subject to financial performance targets, to be paid over the next two years.

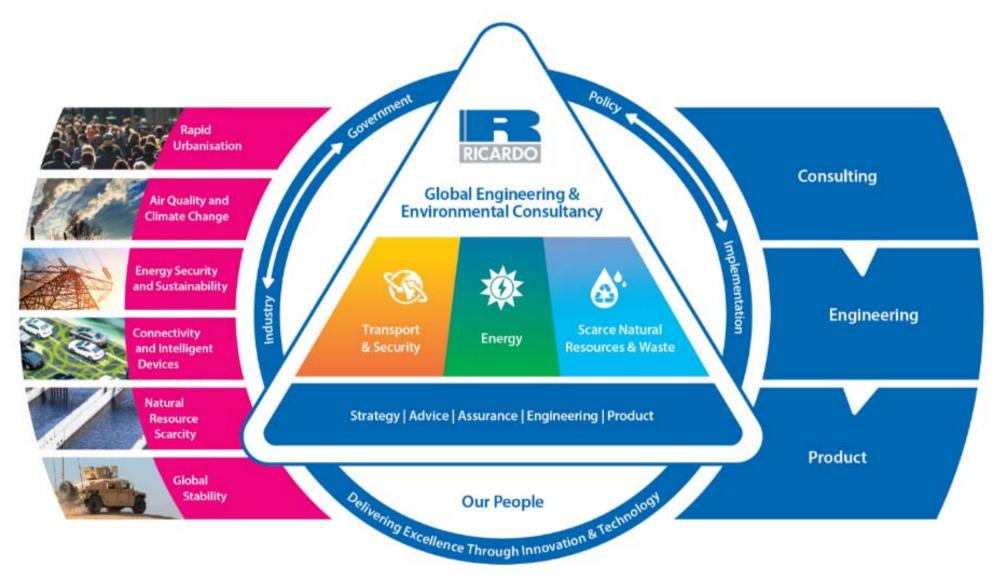
Date Acquired	No. of people	Cash consideration	Revenue p.a.	Operating Profit p.a.
31 July 2019	21	£3.9m (max £5.4m)	£2.2m	£0.8m

#### **Detroit Technical Center**

- ≥ Purchase of DTC for £14.2m in August 2019 to provide strategic flexibility and realign cost base
- Potential sale of test facility in FY20 and office building in FY21
- ž Impairment and/or gains on freehold property and assets to be treated as specific adjusting items

Our ambition is to create a world fit for the future, meeting the challenges within the markets of Transport & Security, Energy, and Scarce Natural Resources & Waste.





3,000 people

88 Nationalities

**51 Sites** 

**20 Countries** 

# Diverse, agile and flexible business model, navigating a volatile market and economic backdrop



- Continued Brexit uncertainty, very weak Automotive backdrop and slowing China economy
- CO<sub>2</sub> reduction and local urban emissions remain priorities development and adoption of electrified transport and infrastructure
- US defence spend at high levels new technologies, life extension, and cyber protection
- Investment in public transport and infrastructure to improve inter- and intra-urban mobility in developed and developing economies
- Public and government action on environmental, plastic, water, waste & recycling agendas



# Balancing the business: By market sector and geography - two Australian businesses acquired



### **Transport Engineering**

- Sydney based rail systems technical consultants
- Major rolling stock projects in NSW & Victoria
- Strong capability in:
  - Rolling stock life-cycle management
  - On-site inspection and auditing
  - Safety engineering
  - Reliability, availability and maintainability
  - Testing and systems integration
- Headcount of 95
- Revenue of c. £15m p.a.

### **PLC Consulting**

- Melbourne based planning, environment and infrastructure consultancy
- Public and private customers in Property, Transport,
   Environmental, Mining and Infrastructure
- Strong capability in infrastructure and environment planning life-cycle
- Headcount of 21
- Revenue of c. £2m p.a.



# Developing a diverse & sustainable business fit for the future



- >5,000 McLaren engines delivered. Next programme secured
- 3,500 ABS kits ordered with 1,650 delivered in ramp up year
- PanMon rail infrastructure trial systems delivered to Network Rail
- Rail contract extension for independent safety assessment of Doha Metro, Qatar
- Indian electrified urban vehicle programme secured
- Ricardo Software recurring revenue at £9m with renewal rate at 93%
- Supporting global cities and regions, including Mexico, Brazil, South Africa, Kenya, Vietnam and Bangladesh in understanding and managing their Greenhouse Gas emissions



# A continued good balance of order intake and pipeline from across the globe

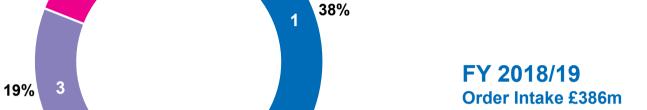
£147m (38%)
17/18 £138m (34%)
16/17 £172m (47%)

8%





- 2. Mainland Europe
- 3. North America
- 4. China
- 5. Japan
- 6. Rest of Asia
- 7. Rest of World



FY 2017/18 Order Intake £413m

FY 2016/17 Order Intake £366m

UK Orde

North America £72m (19%) 17/18 £50m (12%) 16/17 £37m (10%) Mainland Europe £92m (24%) 17/18 £112m (27%) 16/17 £86m (23%)

4% 2%

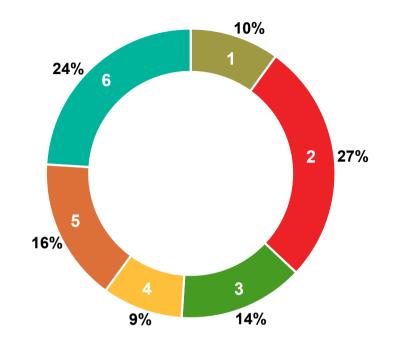
5%

Asia
& Rest of World
£75m (19%)
17/18 £113m (27%)
16/17 £71m (20%)

# Well balanced market sector order intake with strong performance from Defence and High Performance Vehicles



- 1. Defence
- High Performance Vehicles
   Motorsport
- 3. Energy & Environment
- 4. Off Highway & Commercial Vehicles
- 5. Rail
- 6. Passenger Car & Motorcycle



FY 2018/19
Order Intake £386m

FY 2017/18
Order Intake £413m

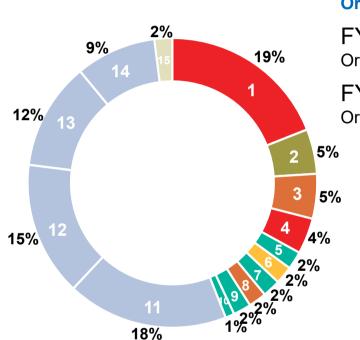
FY 2016/17 Order Intake £366m



# Diverse customer mix, with a good level of multi-year business. Our top 3 customers are spread across Performance Products, Defence and Rail



Ricardo External Order Intake by Customer for year ended 30 June 2019



FY 2018/19 Order Intake £386m

FY 2017/18 Order Intake £413m

FY 2016/17

Order Intake £366m



- I. Key client 1
  - Key client 2 7. Key client 7
  - Key client 3 8. Key client 8

9.

- . Key client 4
- Key client 5

6. Key client 6

Key client 9

Key client 10

- 11. Other UK clients
  - 12. Other Asia clients
  - 13. Other North America clients
  - 14. Other Europe clients
  - 15. Rest of World clients



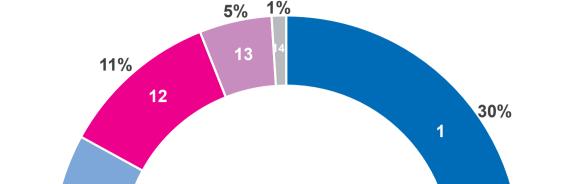


< 6 Months</li>6-12 Months

> 12 Months

# Focus on Rail – Technical Consulting







3

7%

4

4%

1. Key client 1

15%

11

2%

10

3%

3%

3%

- 2. Key client 2
- 3. Key client 3
- 4. Key client 4
- 5. Key client 5

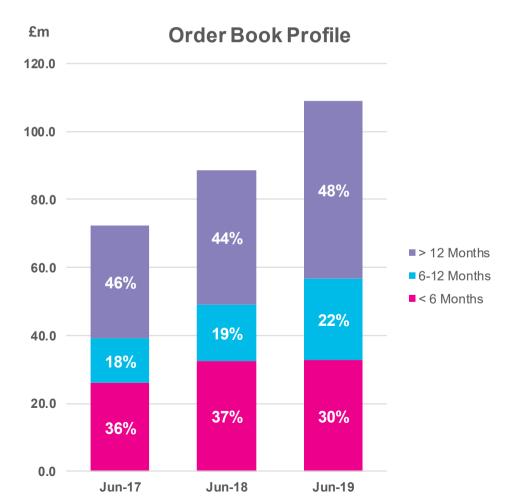
6. Key client 6

3%

- 7. Key client 7
- 8. Key client 8
- 9. Key client 9
- 10. Key client 10

- 11. Other Europe clients
- 12. Other Asia clients
- 13. Other UK clients
- 14. Rest of World clients

- Over 1,000 live projects
- No of people − 640
- Revenue of c. £70m



© Ricardo plc 2019 September 2019

11%

# RICARDO

#### Creating a world fit for the future

# Doha Metro Independent Safety Assessment (ISA)

In May 2019 the first section of the Doha Metro entered into passenger service, with the opening of 13 Red Line stations. The full network – to comprise 100 stations on four lines – is expected to be operational by 2026. Capable of speeds of up to 100km/h, the Doha Metro will be one of the fastest driverless systems in the world. Ricardo was appointed as the ISA in 2012, during the early design stages, to help ensure the safety of passengers, staff and the public is accounted for at every stage of the Metro's development.



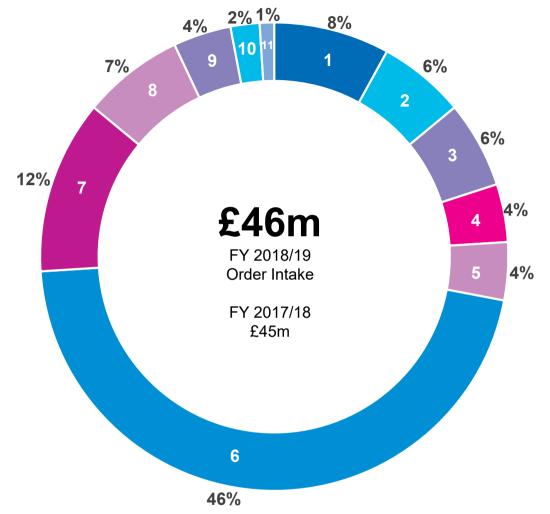




# Focus on Energy and Environment – Technical Consulting



23



Key client 1

Key client 2

Key client 3

Key client 4

Key client 5

1.

2.

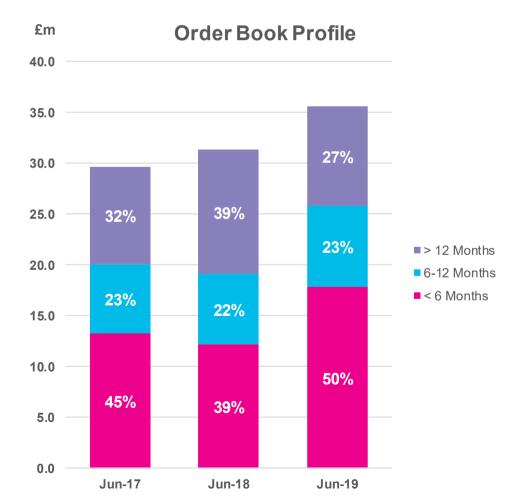
3.

4.

5.

- 6. Other UK clients
- 7. Other UK Gov clients
- 8. Other Europe clients
- 9. Other Rest of World clients
- 10. Other North America clients
- 11. Other Asia clients

- Over 1,100 live projects
- No of people − 490
- Revenue of c. £45m



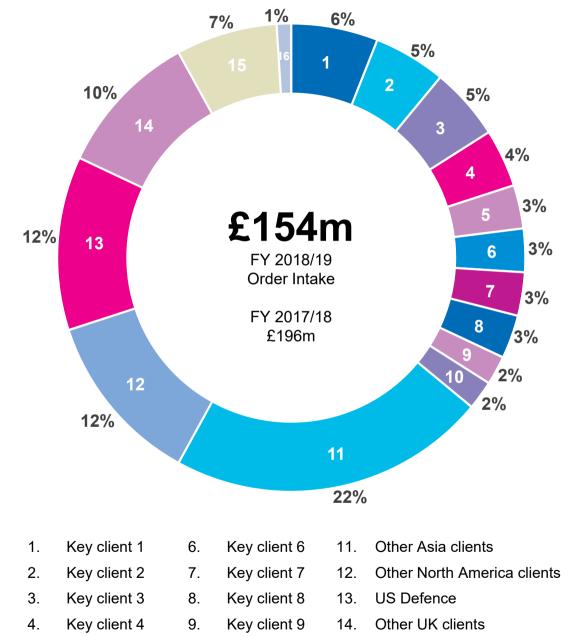






# Focus on Automotive, Industrial and Other – Technical Consulting





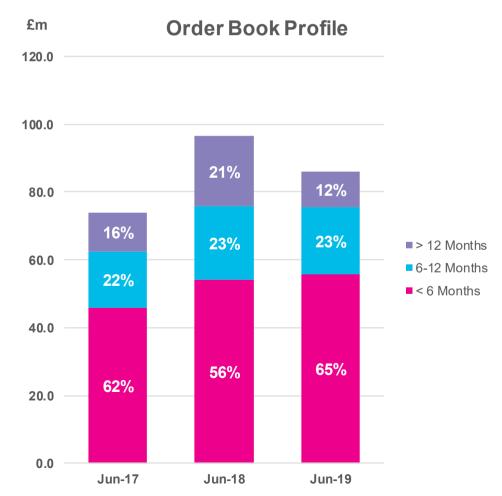
Key client 10

15.

Key client 5

5.

- Over 500 live projects
- No of people − 1,380
- Revenue of c. £160m



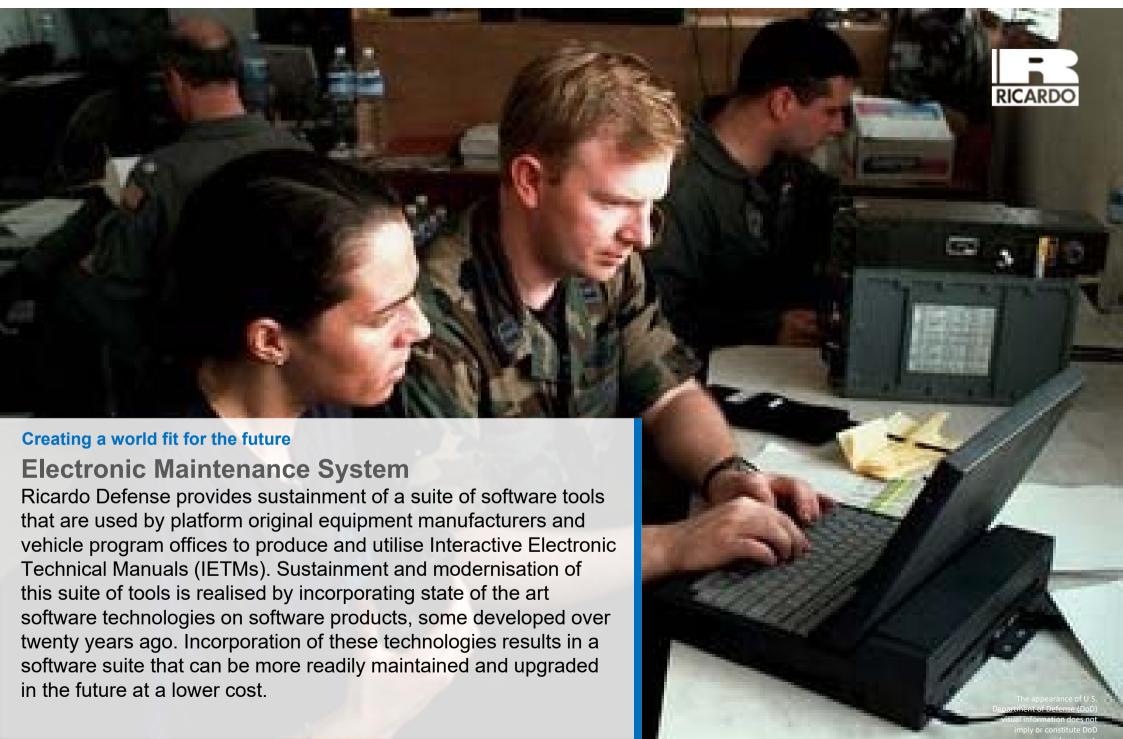
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Other Europe clients

Rest of World clients





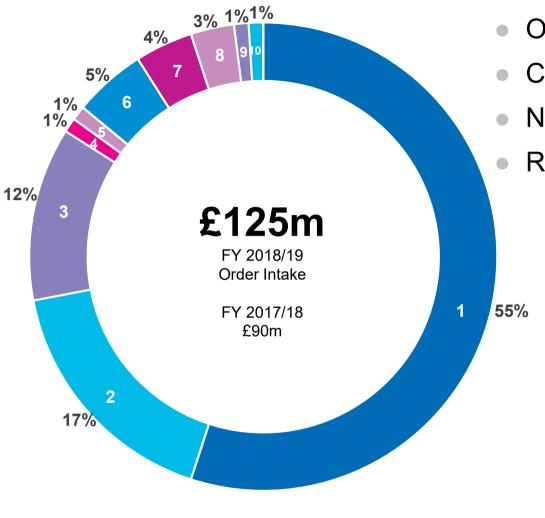


### **Focus on Performance Products**



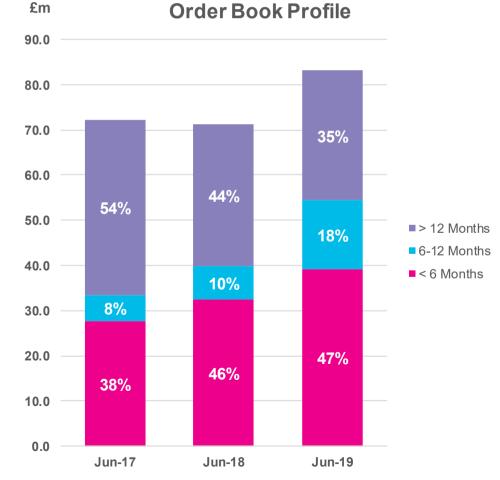


- Contracts outside of order book is > £100m
- No of people 420
- Revenue of c. £110m



- 1. Key client 1
- 2. Key client 2
- 3. Key client 3
- 4. Key client 4
- 5. Key client 5

- 6. UK Defence
- 7. Other Asia clients
- 8. Other UK clients
- 9. Other Europe clients
- 10. Other North America clients





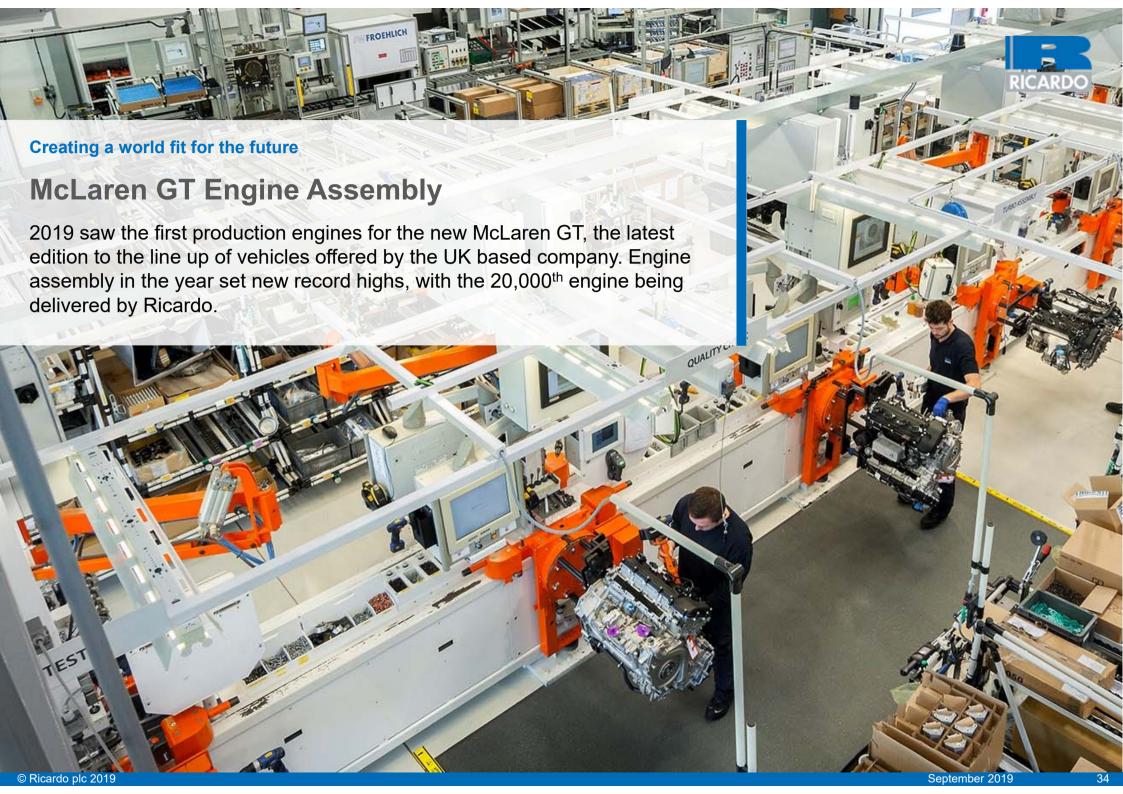
#### Creating a world fit for the future

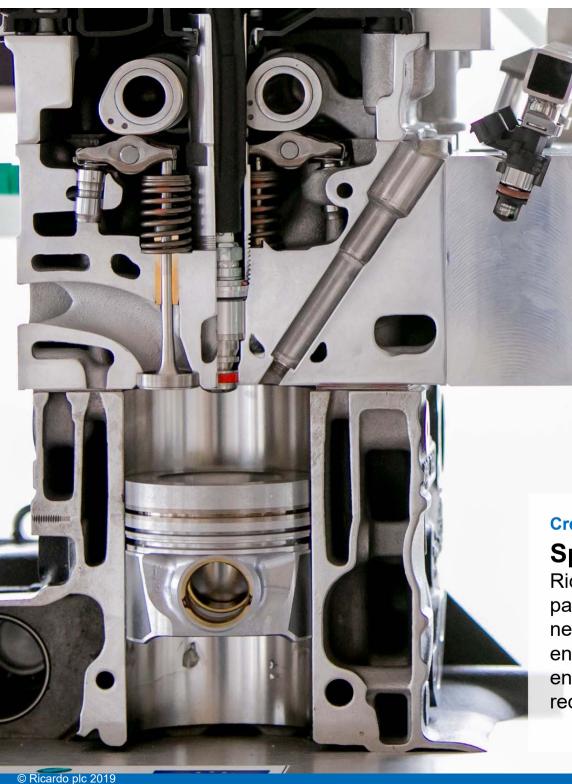
# Formula E Development

2019 marks Ricardo's third year of development activity in the exciting world of Formula E. This all electric racing championship places extreme demands on the drivetrain to which Ricardo are called upon by major constructors to apply their expertise and knowledge in the development of some of the world's most efficient mechanical transmissions.











#### Creating a world fit for the future

# **Spark of inspiration**

Ricardo Software is collaborating with European research partners to create solutions enabling the development of a new form of compact, lean-burn automotive natural gas engine. For use in future hybrid electric powertrains, the new engine offers diesel-like power and performance, significantly reduced CO<sub>2</sub> and extremely low NO<sub>x</sub> emissions.

September 2019

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Delivering Excellence Through Innovation & Technology





# **Income statement – Underlying and total Group**



#### Year ended 30 June

£m	2019	2019	2019	<b>2018</b> <sup>(1)</sup>	<b>2018</b> <sup>(1)</sup>	<b>2018</b> <sup>(1)</sup>	Year on Ye	ar growth
	Underlying	Specific adjusting items <sup>(2)</sup>	Total	Underlying	Specific adjusting items <sup>(2)</sup>	Total	Underlying <sup>(2)</sup>	Total
Revenue	384.4	-	384.4	378.5	-	378.5	2%	2%
Gross profit	134.9	-	134.9	142.7	-	142.7	(5)%	(5)%
Administration costs	(95.3)	(10.5)	(105.8)	(103.0)	(10.5)	(113.5)	(7)%	(7)%
Operating profit	39.6	(10.5)	29.1	39.7	(10.5)	29.2	-	-
Net finance costs	(2.6)	-	(2.6)	(2.2)	-	(2.2)	18%	18%
Profit before tax	37.0	(10.5)	26.5	37.5	(10.5)	27.0	(1)%	(2)%
Taxation charge	(8.2)	1.6	(6.6)	(8.0)	(1.3)	(9.3)	2%	(29)%
Profit for the period	28.8	(8.9)	19.9	29.5	(11.8)	17.7	(2)%	12%

<sup>(1)</sup> the prior period has been restated due to the impact of IFRS 15 'Revenue from contracts with customers' on a like-for-like basis with the current period. Comparative information has also been re-presented to reclassify certain indirect payroll and depreciation costs from cost of sales to administrative expenses in a manner that is consistent with their classification in the current period.

<sup>(2)</sup> specific adjusting items comprise amortisation of acquired intangible assets, acquisition-related expenditure, reorganisation costs and non-recurring items.

# **Specific adjusting items**

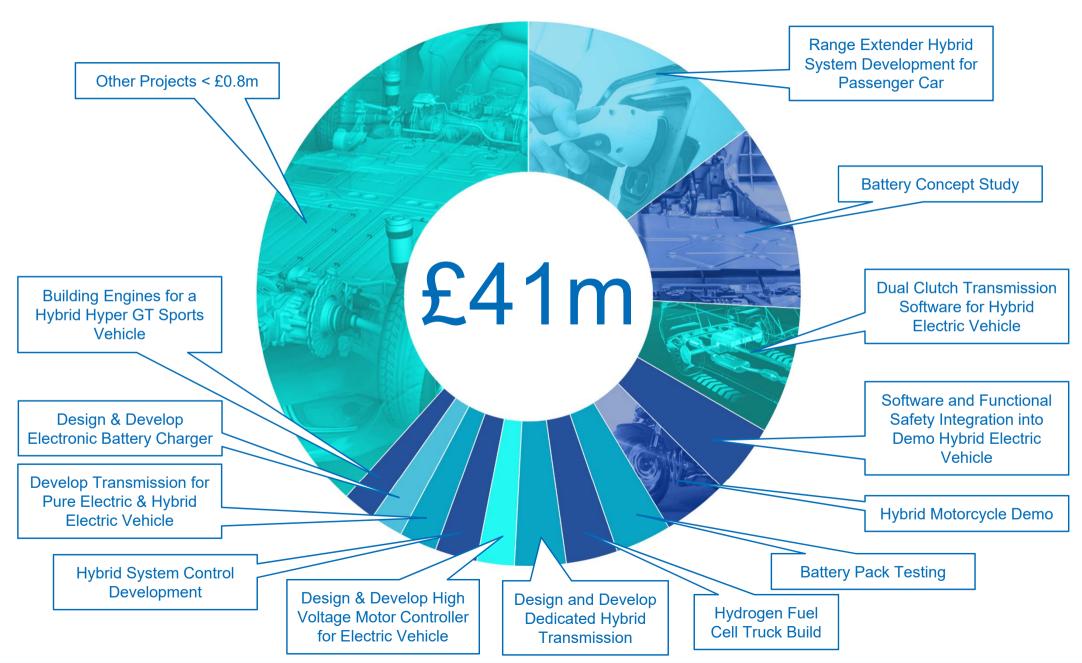


### Year ended 30 June

£m	2019	2018
Amortisation of acquisition-related intangible assets	4.0	4.3
Acquisition-related expenditure	1.8	1.4
Reorganisation costs	3.4	4.8
Guaranteed minimum pensions ('GMPs') equalisation	1.3	-
Total before tax	10.5	10.5
Tax credit on specific adjusting items	(1.6)	(0.9)
Derecognition of net deferred tax assets	-	2.2
Total after tax	8.9	11.8

# Order intake relating to electric or hybrid vehicles is £41m





# **Considerations regarding Brexit**



Key mitigating actions we have taken include:

#### Performance Products

- ✓ McLaren Supply chain on notice to increase inventory in support of engine production. Currently jointly monitoring the situation with McLaren;
- ✓ Bugatti Supply chain on notice to increase inventory in support of transmission production. Currently jointly monitoring the situation with Bugatti;
- ✓ Export Systems and Compliance Documentation updated to accommodate a No Deal scenario.

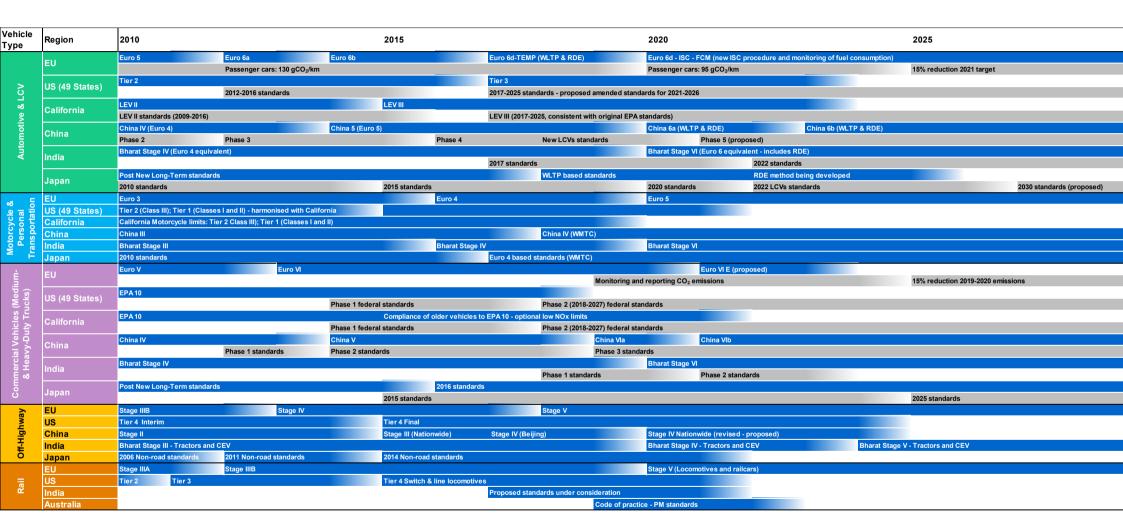
#### > Technical Consulting

- ✓ We hold licences for our Rail Certification business in Utrecht to provide certification services throughout the EU;
- ✓ We continue to bid for and are contracting with European customers from our Utrecht offices;
- ✓ We have the ability to deliver some Automotive projects within the EU using our Prague technical centre (260 engineers).
- Brexit strategy is to mitigate, where possible, the impact of Brexit whilst avoiding unnecessary cost.



# Global tailpipe and CO<sub>2</sub> emissions legislation adherence are "must haves" in the development budget of many of our clients





Source: Ricardo EMLEG Emissions Legislation database www.emleg.com