

Ricardo plc Interim Results Presentation Half year ended 31 December 2013

HIGHLIGHTS – for the half year ended 31 December 2013



- A record order book up 18% to £143m (Jun 2013: £121m)
- Underlying⁽¹⁾ profit before tax up 29% to £9.3m (Dec 2012: £7.2m)
- Organic⁽²⁾ profit before tax up 11% to £8.0m (Dec 2012: £7.2m)
- Net funds up £2.1m to £8.2m (Jun 2013: £6.1m)
- Interim dividend up 8% to 4.3p per share (Dec 2012: 4.0p)
- Multi-year engine supply agreement signed with McLaren Automotive
- Outlook remains positive, strong platform for further growth

⁽¹⁾ excluding specific adjusting items, which comprise amortisation of acquired intangible assets and acquisition costs

⁽²⁾ excluding Ricardo-AEA for the period up to 8 November 2013. Ricardo-AEA was acquired in the prior year on 8 November 2012

Key indicators



	Half year ended 31 December		Year ended 30 June	
	2013	2012 Restated ⁽¹⁾	2013 Restated ⁽¹⁾	
Order intake	£135m	£106m	£218m	
Order book	£143m	£136m	£121m	
Gross profit %	39.0%	39.8%	41.5%	
Operating profit % (2)	8.8%	7.8%	10.4%	
Tax rate	18%	17%	19%	
EPS (basic) (2)	14.6p	11.4p	35.4p	
Dividend	4.3p	4.0p	14.0p	
Net funds	£8.2m	£(2.7)m	£6.1m	
Pension deficit (pre-tax)	£21.5m	£22.3m	£19.7m	
Closing headcount (including subcontractors)	2,183	2,198	2,198	

⁽¹⁾ on adoption of revised International Accounting Standard 19 Employee Benefits

⁽²⁾ excluding specific adjusting items, which comprise amortisation of acquired intangible assets and acquisition costs

Income statement



	•	Half year ended 31 December		Year ended 30 June	
£m	2013	2012 Restated ⁽¹⁾	% change	2013 Restated ⁽¹⁾	
Revenue	111.9	100.3	12%	229.7	
Gross profit	43.6	39.9	9%	95.4	
Administration costs	(33.8)	(32.1)	5%	(71.5)	
Underlying operating profit	9.8	7.8	26%	23.9	
Specific adjusting items (2)	(0.5)	(1.4)	(64%)	(2.0)	
Operating profit	9.3	6.4	45%	21.9	
Net finance costs	(0.5)	(0.6)	(17%)	(1.2)	
Profit before tax	8.8	5.8	52%	20.7	
Comprising:					
Underlying profit before tax	9.3	7.2	29%	22.7	
Specific adjusting items (2)	(0.5)	(1.4)	(64%)	(2.0)	
Taxation charge	(1.6)	(1.0)	60%	(3.9)	
Profit for the period	7.2	4.8	50%	16.8	

Excluding Ricardo-AEA results for the period up to 8 November 2013, underlying profit before tax was £8.0m, 11% up on prior year

⁽¹⁾ on adoption of revised International Accounting Standard 19 Employee Benefits ⁽²⁾ specific adjusting items comprise amortisation of acquired intangible assets and acquisition costs

Revenue by customer location



	Half year ended 31 December		Year ended 30 June	
External revenue £m	2013	2012	2013	
UK	49.5	49.8	116.5	
Germany	11.7	7.2	16.2	
Rest of Europe	11.7	7.9	21.4	
Europe total	72.9	64.9	154.1	
US	17.5	16.9	36.4	
China	6.7	3.3	8.0	
Japan	9.1	8.4	18.3	
Rest of Asia	5.2	5.6	11.6	
Asia total	21.0	17.3	37.9	
Rest of the World	0.5	1.2	1.3	
Total	111.9	100.3	229.7	

Segmental results



Half year ended 31 December

	Revenue earned		Underlying operating profit ⁽²⁾		Underlying operating profit ⁽²⁾ margin	
£m	2013	2012	2013	2012 Restated ⁽¹⁾	2013	2012 Restated ⁽¹⁾
Technical Consulting	84.7	76.7	5.6	4.7	6.6%	6.1%
Performance Products	27.2	23.6	4.2	3.6	15.4%	15.3%
Head office costs	n/a	n/a	-	(0.5)	n/a	n/a
Total	111.9	100.3	9.8	7.8	8.8%	7.8%

⁽¹⁾ on adoption of revised International Accounting Standard 19 Employee Benefits

⁽²⁾ excluding specific adjusting items, which comprise amortisation of acquired intangible assets and acquisition costs

Cashflow



	Half yea	Year ended 30 June	
£m	2013	2012 Restated ⁽¹⁾	2013 Restated ⁽¹⁾
Operating profit	9.3	6.4	21.9
Depreciation and amortisation	5.0	4.2	9.3
Working capital (increase)/decrease	(2.0)	3.6	3.1
Dividends	(5.2)	(4.5)	(6.6)
Tax paid	(0.2)	(0.2)	(0.7)
Capital expenditure	(3.4)	(3.5)	(10.8)
Proceeds of sale and lease back of offices in Germany	-	3.7	3.7
Pension charge and funding	(2.3)	(2.3)	(4.6)
Other	0.9	-	0.9
Cash inflow excluding AEA consideration	2.1	7.4	16.2
AEA consideration	-	(18.0)	(18.0)
Cash inflow/(outflow)	2.1	(10.6)	(1.8)

⁽¹⁾ on adoption of revised International Accounting Standard 19 Employee Benefits

Balance sheet summary

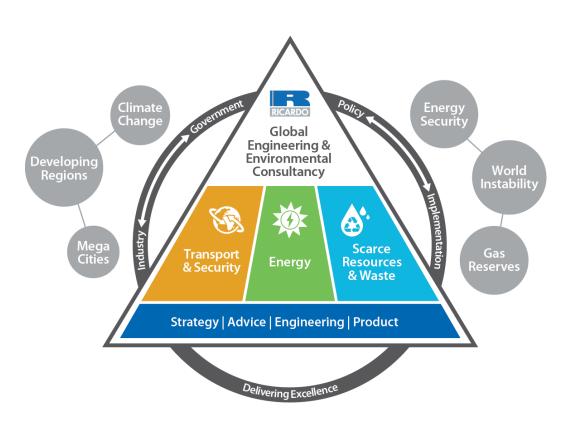


	31 December		30 June	
£m	2013	2012	2013	
Tangible assets	46.0	44.9	48.2	
Intangible assets	40.7	40.8	41.5	
Inventory and receivables	70.7	69.8	62.6	
Net funds/(debt)	8.2	(2.7)	6.1	
Trade and other payables	(54.3)	(54.4)	(47.3)	
Pension deficit (net of tax)	(17.2)	(17.2)	(15.1)	
Other	3.9	5.9	3.9	
Net assets	98.0	87.1	99.9	

The Ricardo strategy for growth is focused on global engineering and environmental consulting and the development of longer cycle revenues



- Strategy driven by global megatrends
 - Emissions Reduction
 - CO₂ Reduction
 - Changing Energy Mix (Dual Fuel)
 - Air Quality
 - Climate Change
 - Resource Scarcity (Oil, Water etc)
 - Urbanisation



Global market backdrop for H1



- Asian market growth demand from OEMs and product development to tap into developing markets
- Automotive industry in US, Asia & Europe active to meet CO₂ legislation, increased competition and global markets
- Growth in Performance Products and 'halo' products for brand differentiation
- Defence cuts creating demand for advanced technology and innovative solutions in fuel economy and lower cost product development



H1 2013/14 Highlights



- Active passenger car business in UK, US & Asia particularly Japan & China
- US 'Big 3' level of business increasing
- Large contract wins with European and Chinese motorcycle companies
- Defence orders from new export markets and multi-year US contracts
- AEA on plan, focused on private sector, international and future cities growth
- Performance Products highlights Motorsport & High Performance Vehicles:
 - Long term Porsche Cup agreement
 - Monorail application in Brazil requiring more transmissions
 - McLaren Automotive significant multi-year engine supply agreement
- Solid pipeline across all market sectors with growth in new sectors









Ricardo-AEA: Joint Initiatives



Benefiting from Ricardo's established presence in Delhi

- New sales in sustainable transport, air quality and climate finance
- Two projects jointly with Ricardo:
 - CO₂ reduction strategies for HGV's and two-wheelers
 - Reviewing India's automotive fuel policy
- Recruiting senior climate policy expert into Delhi Office

Joint Projects for European Commission

- Costs and benefits Heavy Duty Vehicle light-weighting
- Software for simulating CO₂ performance of Heavy Duty Vehicle

Expanding our offerings in Saudi Arabia

- Initial two £1m projects progressing well (Air Quality and Waste Management Strategies for Riyadh)
- Joint proposal for procurement support on Riyadh's Rapid Transit Bus System, using Ricardo's Real-Time Emissions Monitoring

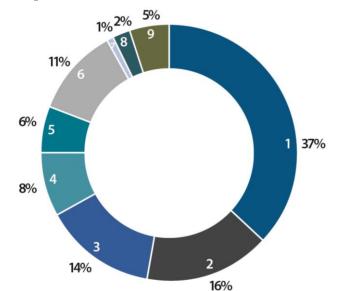


A good balance of order intake from across the globe with increasing business from Asia and Europe



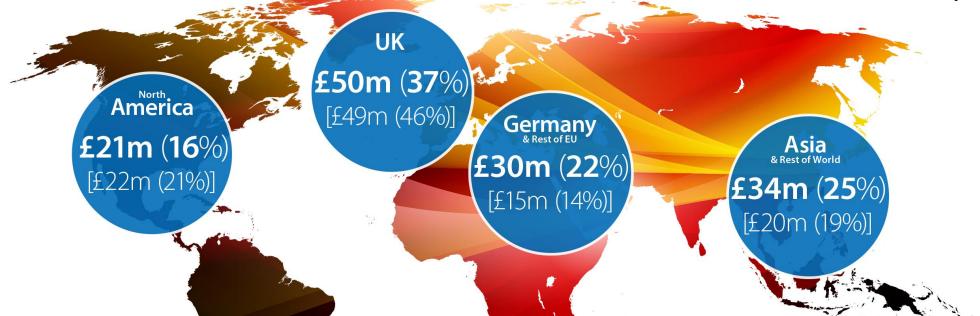


- North America
- 3. Germany
- 4. Rest of Europe
- 5. Japan
- 6. China
- 7. India
- 8. Rest of Asia
- 9. Rest of World



H1 2013/14
Order Intake £135m

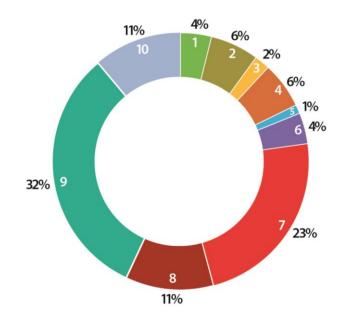
[H1 2012/13 Order Intake £106m]



Well balanced market sector order intake with a strong period for motorcycle business and high performance vehicle assembly



- 1. Clean Energy & Power Generation
- Defence
- 3. Agriculture & Industrial Vehicles
- 4. Rail
- 5. Marine
- 6. Commercial Vehicles
- 7. High Performance Vehicles & Motorsport
- 8. Motorcycle & Personal Transportation
- 9. Passenger Car
- 10. Government & Environmental



H1 2013/14
Order Intake £135m
[H1 2012/13
Order Intake £106m]



£15m (**11%**) [£3m (3%)]

G & E

£15m (11%) [£4m (4%)]



£31m (23%) [£22m (21%)]



£8m (6%) [£4m (4%)]



£6m (4%) [£4m (4%)]



£1m (1%) [£1m (1%)]



£5m (4%) [£5m (5%)]



£8m (6%) [£9m (8%)]



£3m (2%) [£6m (5%)]

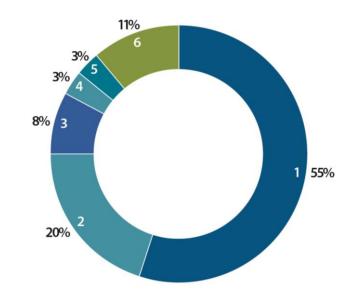


£43m (32%) [£48m (45%)]

Strong engines orders driven by CO₂ legislation, developing market penetration by the major OEMs and engine assembly



- 1. Engines
- 2. Driveline & Transmission Systems
- 3. Vehicle Systems
- 4. Hybrid & Electric Systems
- 5. Strategic Consulting
- 6. Environmental Consulting



H1 2013/14
Order Intake £135m
[H1 2012/13
Order Intake £106m]

Engines



£74m (**55%**) [£48m (45%)]

EC



£15m (**11%**) [£4m (4%)]

HES



£4m (3%) [£3m (3%)]

DTS



£27m (20%) [£22m (21%)]

SC



£4m (3%) [£4m (4%)]

VS

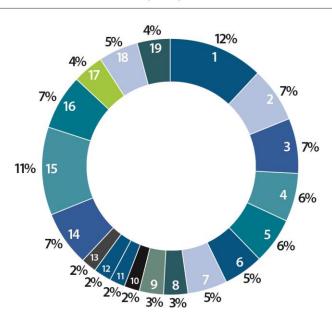


£11m (8%) [£25m (23%)]

The balance of products and good customer mix continues, with a good level of multi-year business returning



H1 External Order Intake by Key Client



- I. Key Client I
- 2. Key Client 2
- 3. Key Client 3
- 4. Key Client 4
- ______
- 5. Key Client 5
- 6. Key Client 6
- 7. Key Client 7

- 8. Key Client 8
- 9. Key Client 9
- 10. Key Client 10
- II. Key Client II
- 12. Key Client 12
- 13. Key Client 13
- 14. Rest of UK

- 15. Rest of Asia
- 16. Rest of Europe
- 17. Rest of North America
- 18. UK Government
- 19. US Defence









H1 2013/14
Order Intake £135m

[H1 2012/13 Order Intake £106m]

Summary for period and outlook



- Strategy and execution delivering continued growth in profits
- Ricardo-AEA fully integrated into Group and performing well
- Strong balance sheet providing both organic and partnership/acquisition growth options
- Record order book and encouraging pipeline
- Global passenger car OEMs returning to spend
- New market sectors of Rail, Motorcycle and Power Generation contributing well
- Significant new contract with McLaren Automotive
- Core drivers remain at the top of clients agenda
- Outlook remains positive against a slowly improving economic backdrop



Appendices

A global engineering and environmental consulting company (1/2) Government Policy Climate RICARDO Energy Change Security Global **Engineering & Environmental** Developing Consultancy World Regions Instability Implementation Industry -Mega **Scarce Transport** Gas Cities **Energy** Resources & Security Reserves & Waste Strategy | Advice | Engineering | Product Delivering Value Through Innovation & Technology

A global engineering and environmental consulting company (2/2)



Oil Economy

Transport & Security

Energy

Burning oil more efficiently

Burning oil more cleanly

Alternative sources

Established legislation

Recognised need

Industrial & Government driven

Economic and climate benefits

Homeland and overseas security

Water Economy

Scarce Resources

Using water more efficiently

Using water more cleanly

Alternative sources

Embryonic legislation

Emerging need

Government driven

Emerging industry recognition

Economic and societal benefits

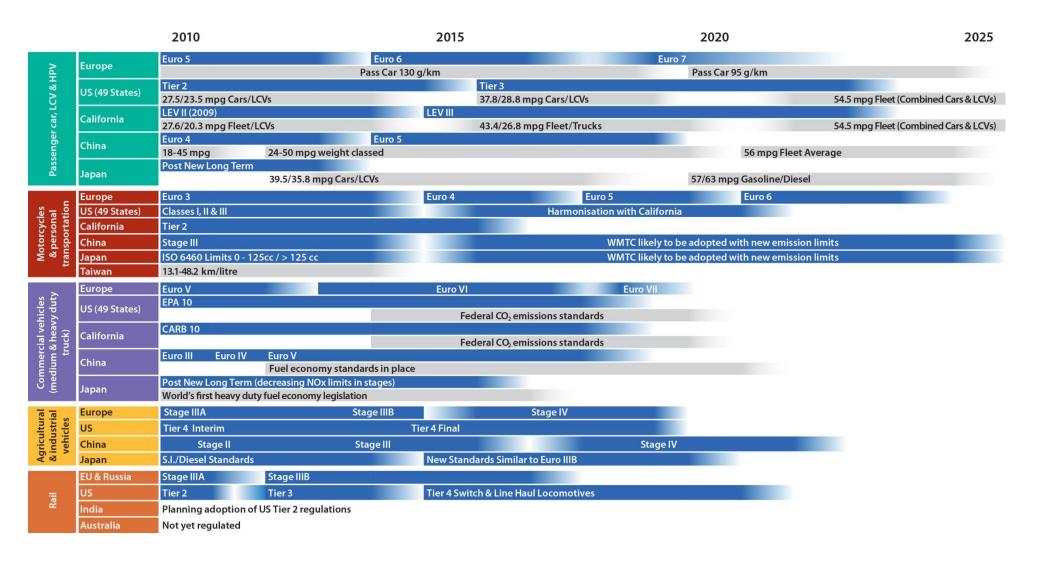
Component Technology Solutions rather than Infrastructure

Governments Thought leadership

Blue chip large industrials **Product**

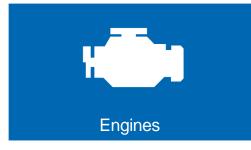
Global tailpipe and CO₂ emissions legislation adherence are "must haves" in the development budget of many of our clients





What we do – core areas of capability













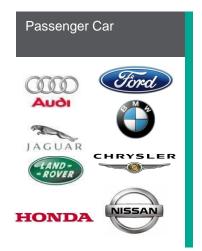






We work with a range of diverse global customers – they validate our roadmaps and we invest in the next generation of technology

















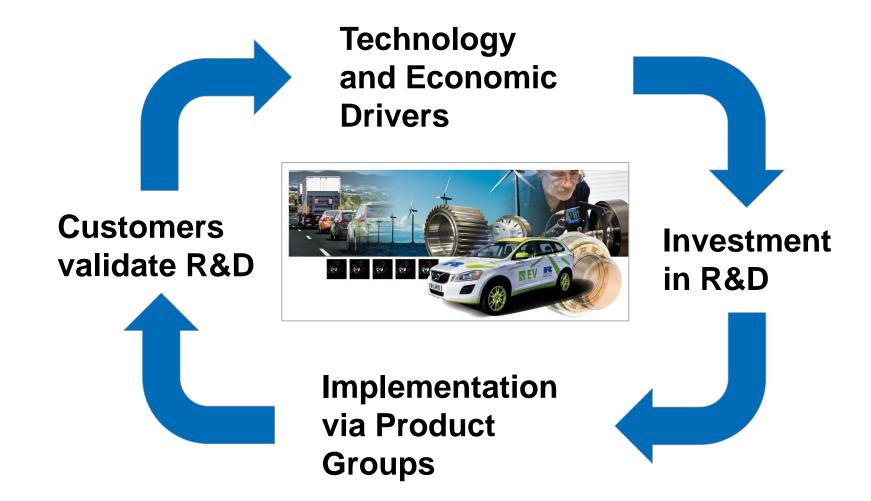






We have a value added R&D led business model





Our strategic view ensures the relevance of our products & services



Increasingly stringent emissions legislation, rising energy and resource prices, growing congestion and the impact of climate change are key drivers in the sectors we serve





270

— US-LDV

— California-LDV

— Canada-LDV

— EU

— Japan
— China
— S. Korea
— Australia

170

130

130

140

150

150

170

170

180

190

2000

2005

2010

2015

2020

2025

Rising energy prices and limited natural resources

Increasing population growth

Legislation is driving down emissions for many industries





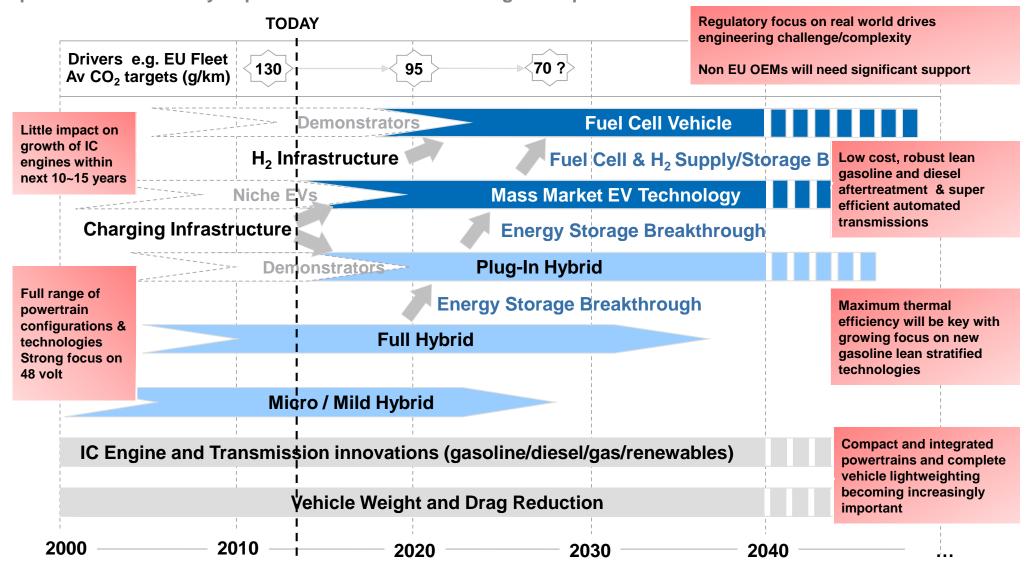




Technology Roadmap for Passenger Car



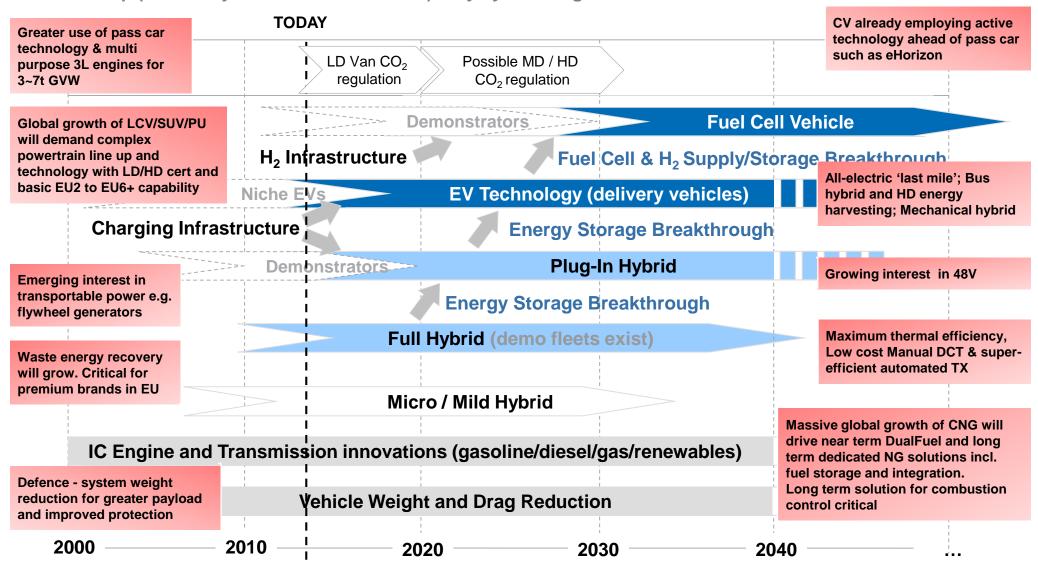
Electrification of the market will take many years during which time powertrain and vehicle optimisation will be key to product differentiation and legal compliance



Technology Roadmap for Commercial and Off Highway Vehicles



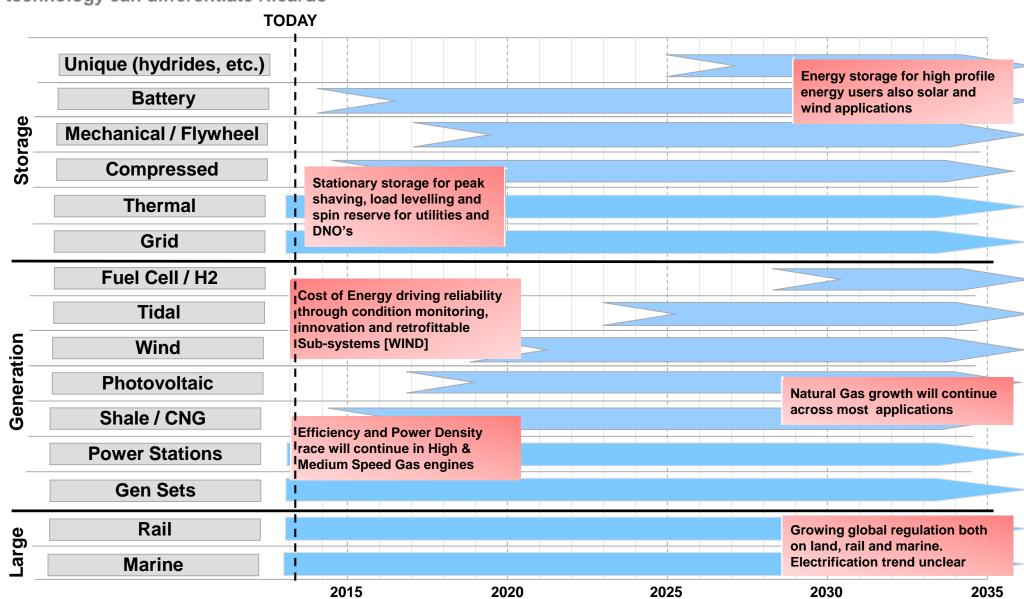
Legislation tracks passenger car trends, but key issues are cost-effectiveness, based on total cost of ownership (which is yet to be demonstrated) duty cycle and growth of CNG



Technology Roadmap for Large / Static Power

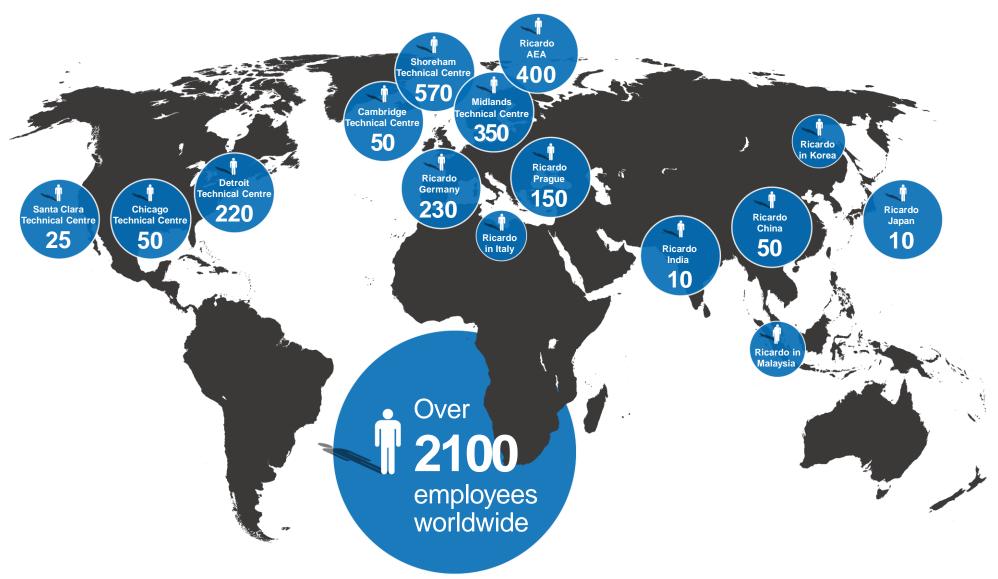


Various legislative drivers dominated by running cost and efficiency drivers. Cross sector technology can differentiate Ricardo



Where we are





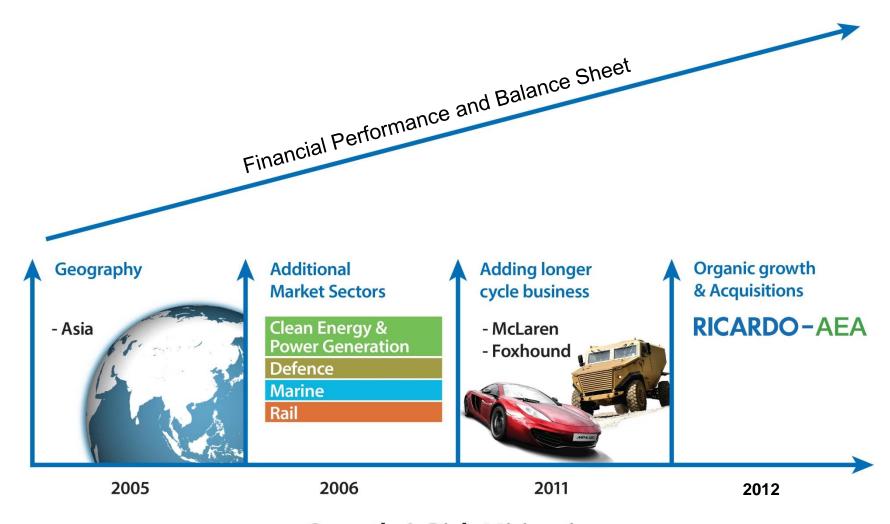
Ricardo strategy guidelines – providing a secure platform for growth and risk mitigation



- No profit dependence on any one sector, client, product, geography or Ricardo division
- Tight diversity around a common competence
- Expansion into neighbouring sectors which can use our expertise
- Maximise utilisation and efficiency of engineering pool, whilst ensuring the attraction, retention and development of the Ricardo employee base
- Pursue innovative and value added assembly programmes when they augment and bring benefit to the Technical Consulting business (whether that be directly as part of a project or through Brand enhancement or client relationship enhancement)
- Continued focus on markets with enduring drivers legislation, structural change, scarce resources and waste
- Reduction of cyclicality with multi year programmes and relationships
- Pursue organic and inorganic growth (acquisitions and strategic partnerships)
- Maximise IP exploitation through a variety of routes to market

Ricardo strategy implementation – the story so far

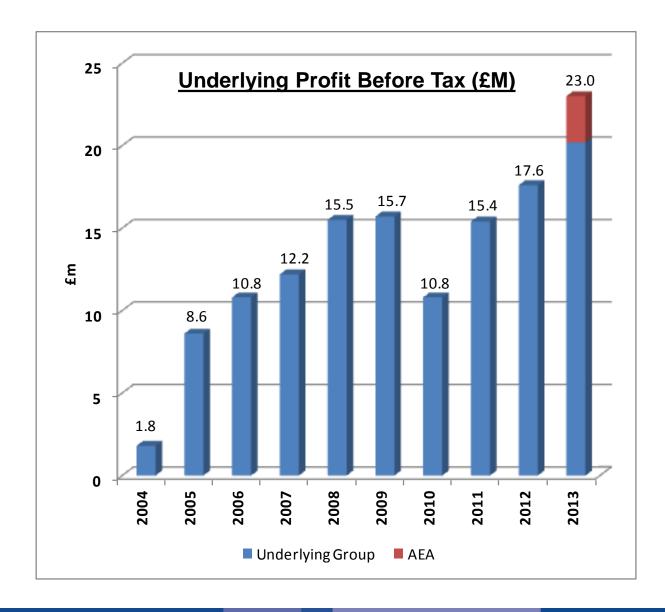




Growth & Risk Mitigation

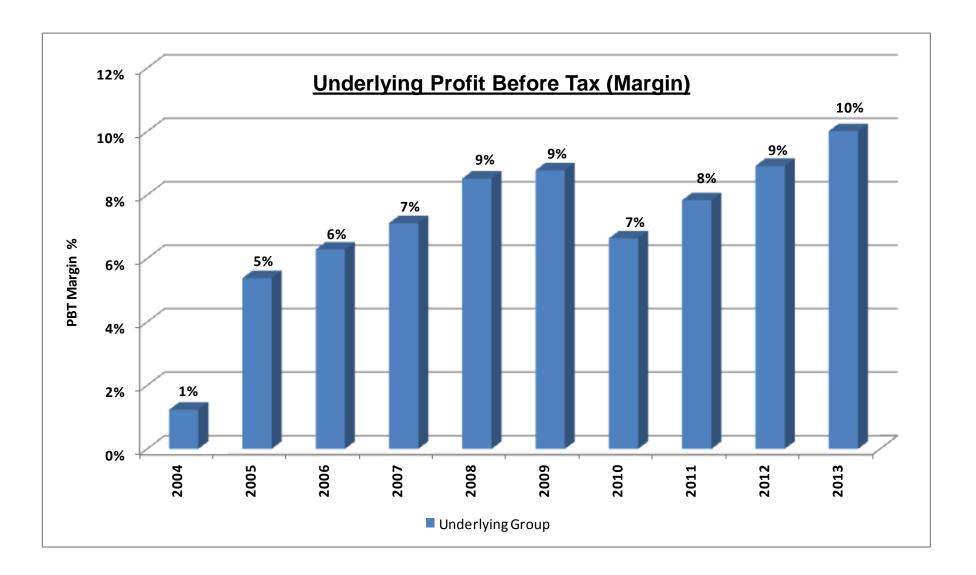
Strategy for growth and risk mitigation demonstrated pre, during and post recession (1/2)





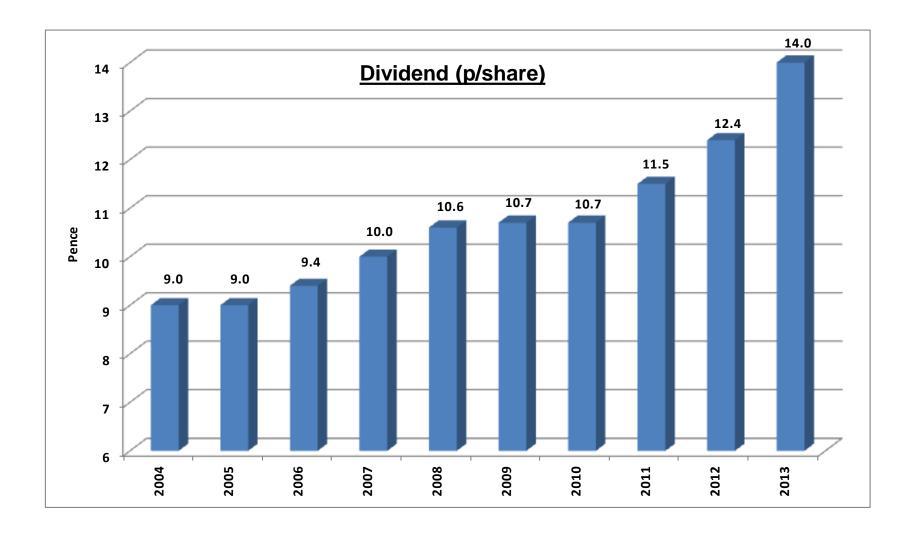
Strategy for growth and risk mitigation demonstrated pre, during and post recession (2/2)





Progressive dividend policy – dividend cover in the range 2 to 2.5 times

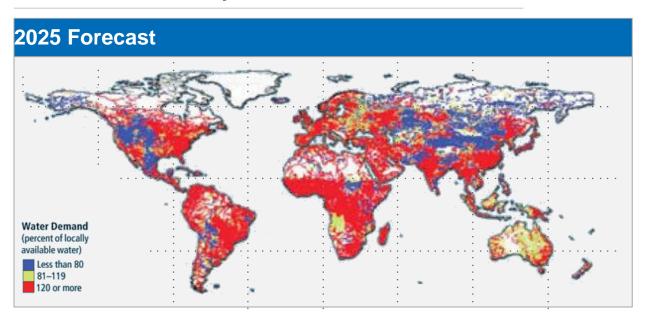




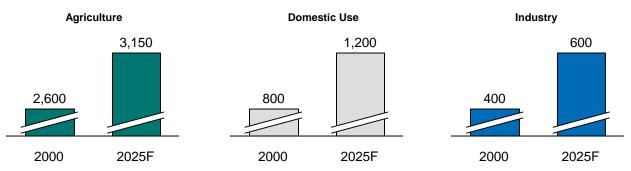
Climate change, population and economic growth could lead to significant water scarcity across the globe by 2025



Global Water Scarcity



Water Demand Trends by Sector (km³ p.a.)



- Climate change, population growth and economic development put water resources under stress
- Significant increase of water demand across domestic, industrial and agricultural user
- In absence of concerted efforts to professionally and efficiently extract, process and consume water sources, major parts of the world will face serious water scarcity by 2025

Strong regional regulations driving water market investment around the world



Water Market Regulation: EU, US and Asia

Europe	US	Asia	
		China	Japan
Dangerous Substances Directive (1976)	Clean Water Act (1976): pollutant discharge legislation	China – Prevention and Control of Water Pollution (1984 – revised 1996)	Japan – Sewage Law (1970)
Urban Wastewater Treatment Directive (1991): sewage discharge	Safe Drinking Water Act (1984)	China – The Water Law of PRC (1998 – revised 2002)	Japan – Water Pollution Control Law (1997)
Directive on Nitrates Pollution from Agricultural Sources (1991)	Arsenic Rule (2001)	China – Law of PRC on Water and Soil Conservation (1991)	Japan – Water Works Law (last revision in 2001): controls water quality
Directive on Integrated Pollution Prevention and Control (1996)	Enhanced Surface Water Treatment Rule (LT2) (2005) Pathogen Control	China – 11th 5 Year plan : RMB 330bn investment in Wastewater	
EU Water Framework Directive (2000): combines many of	Stage 2 Disinfection By Product Rule (2005): drives UV treatment	China – 12th Five Year Plan : Water and waste USD 450bn investment –	
the above measures to cover industrial effluent, pesticides, nitrates,	Combined Sewer Overflow (CSO) Rules	specific provisions approved for enhanced water quality	
biocides	ARRA (2009): \$6 billion in funding for municipal water (\$2b) and sewer (\$4b) projects	, ,	

- National governments increasing water regulation to address stressed water resources
- Regulators dictating water quality and quality of service
- EU Water Framework
 Directive commits
 member states to
 achieving good quality
 water in sufficient
 quantity by 2015
- Government initiatives are supported by significant investment commitments, driving the overall market growth

Source: Impaxam

In summary, growth is being pursued in the following key areas



Area of the Business	Priority Activities
Technical Consulting	 Transport and Energy sectors Exploiting CO₂ and emissions legislation Innovative and roadmap led R&D investment Critical mass technical delivery in core developed markets Asian market growth (business development focus) World leadership in powertrain and whole vehicle delivery
Performance Products	 Global motorsport delivered from UK base Global niche assembly delivered where appropriate Exploitation of IP through royalties and product
Ricardo-AEA	 Overseas expansion in environmental sector Private sector growth Cities agenda Expansion into water and scarce resources