

CAPITAL MARKETS DAY

Accelerating our portfolio transformation to enable energy transitions





Disclaimer statement

This presentation contains certain statements that are forward-looking. They appear in a number of places throughout this presentation and include statements regarding the intentions, beliefs and/or current expectations of Ricardo plc (the "Group")

By their nature, these statements involve uncertainty since future events and circumstances can cause results and developments to differ materially from those anticipated. The forward-looking statements reflect knowledge and information available at the date of preparation of this presentation and, unless otherwise required by applicable law, Ricardo undertakes no obligation to update or revise these forward-looking statements are profit forecast.

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AGENDA

01 STRATEGIC UPDATE PRESENTATION: Sharpened

PRESENTATION: Sharpened strategy and value proposition underpins confidence in long-term commitments Graham Ritchie, Group CEO

02

04

05

FINANCIAL UPDATE

PRESENTATION: Confidence in short-term guidance whilst investing for growth Ian Gibson, Group CFO

03 CLEAN ENERGY AND ENVIRONMENTAL FOCUS

PRESENTATION: Leadership through our Clean Energy & Environmental Solutions portfolio Rachel White, President, Clean Energy and Environmental Solutions

A CUSTOMER PERSPECTIVE

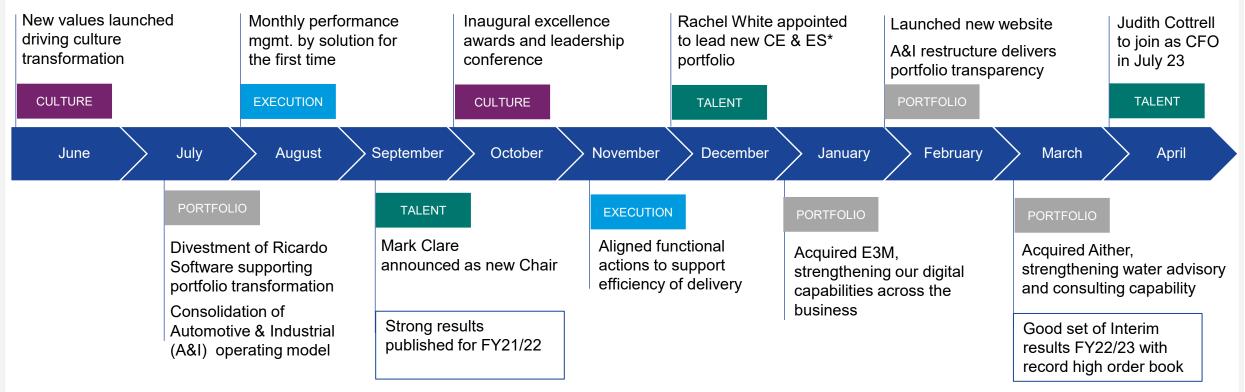
EXECUTIVE INTERVIEW: Stepping up sustainability in the financial industry Sujith Kollamthodi, Practice Director, Policy, Strategy & Economics, Ricardo Peter Bolton, Investment Director, Gresham House

PROJECT SHOWCASE

DEMONSTRATION: Meet our experts to discover the role we play across the energy transition value chain

TRANSFORMING OUR CULTURE, TALENT AND PORTFOLIO

Significant progress since our last Capital Markets Day



* Clean Energy & Environmental Solutions



CREATING LONG-TERM VALUE WHILE DELIVERING IN THE SHORT-TERM

Maintaining guidance for the full year 22/23

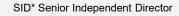
	BUSINESS UNITS	HIGHLIGHTS
ENVIRONMENTAL & ENERGY TRANSITION PORTFOLIO	Energy & Environment (EE) Rail Automotive & Industrial (A&I) Emerging	 Strong YoY growth and margin continues in H2 in Energy and Environment Rail return to YoY growth in H2 Automotive & Industrial Emerging pipeline building Two acquisitions continue portfolio transition HIGH GROWTH, HIGH MARGIN FOCUS
	BUSINESS UNITS	HIGHLIGHTS
ESTABLISHED MOBILITY PORTFOLIO	Performance Products (PP) Defense Automotive & Industrial (A&I) Established	 Extension of McLaren contract in Performance Products Continued momentum in ABS volumes Pipeline recovery and delivery of restructuring in Automotive & Industrial Established LONG-TERM ORDER BOOK VISIBILITY



OPENING THOUGHTS FROM OUR CHAIR

Board priorities and governance to support execution of strategy

EXECUTING OUR GROWTH STRATEGY	 Restructuring our A&I business Extracting value from our acquisitions Driving organic growth Disciplined capital investment 	
PERFORMANCE FOCUSED TO DELIVER	 Driving efficiencies across the business Delivering for our customers Performance focused ethos Consistency of building "One Ricardo" 	
INVESTING AND RETAINING OUR PEOPLE	 Inclusive and engaged culture Increasing engagement with the Board Aligning reward with our success 	
DELIVERING OUR OWN ESG AGENDA	 Create ESG leadership position for our customers Responsible Business Committee chaired by SID* Utilising our consulting expertise to accelerate delivery 	







02 STRATEGIC PROGRESS

ENERGY TRANSITION MEGA TRENDS UNDERPIN LONG-TERM GROWTH Ricardo environmental science and mobility engineering expertise helps optimise and navigate complexity



Differentiated, expert-led value proposition to optimise energy transition for target industries



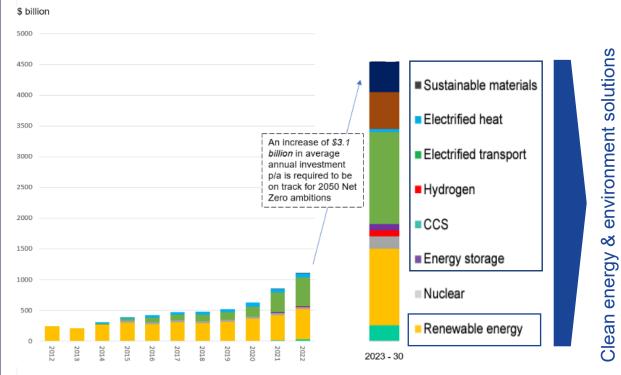
INCREASING ANNUAL GLOBAL INVESTMENT ALIGNS TO STRATEGIC FOCUS

Unconstrained environmental and mobility demand for Ricardo

\$1.11 trillion
Global energy transition investment 2021-2022
310/6
2021-2022 increase in energy transition investment

Investment required to get on track for net zero

GLOBAL ENERGY TRANSITION INVESTMENT BY SECTOR[†]



[†] BloombergNEF Energy Transition Investment Trends 2023

WHERE IS THE GREATEST INVESTMENT?

- Renewable energy is the largest sector by investment (\$495 billion, up 17% YoY)
- Electrified transport is a close second (\$466 billion, up 54% YoY)

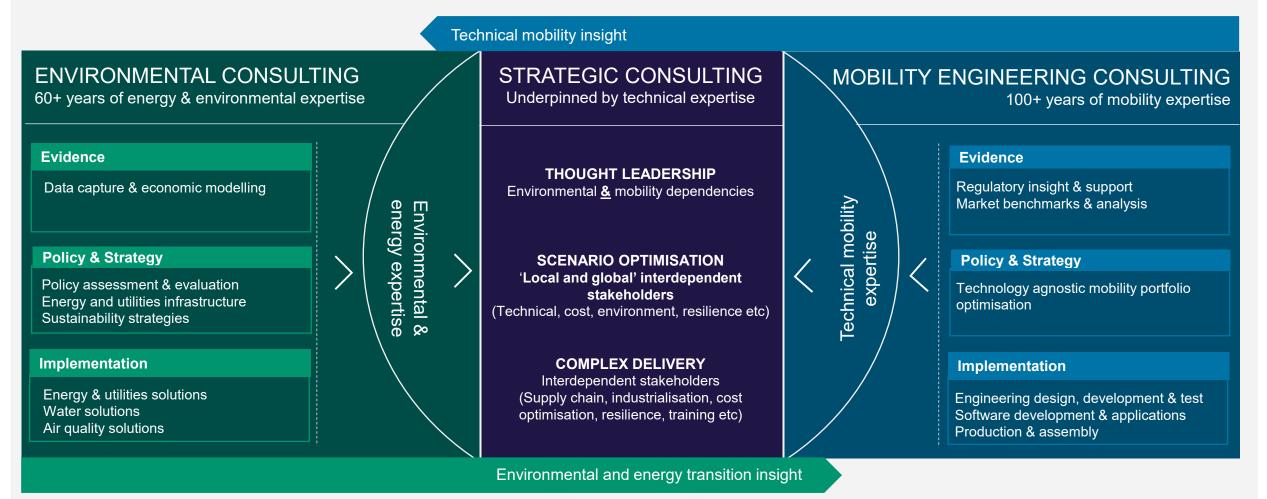
Mobility solutions

 Investment in hydrogen tripled YoY to \$1.1 billion in 2022 and is forecast to continue to grow quickly



UNIQUE DEPTH AND BREADTH IN ENVIRONMENTAL & MOBILITY EXPERTISE

Energy transition optimisation through environmental, engineering and strategic consulting solutions





REPEATABLE, DIGITAL SOLUTIONS ENABLE THE FULL VALUE CHAIN Targeted priority markets with most acute need for mobility and environmental solutions





CONSISTENT STRATEGIC GROWTH PRIORITIES

Strong progress underpins confidence in sustainable growth



ENVIRONMENTAL & ENERGY TRANSITION FOCUS

Clarity in our growth solutions Capital allocation to support growth Develop digital solutions Develop strategic consulting capability

ESTABLISHED MOBILITY FOCUS

Extend existing projects Win new projects Grow electrification production Deliver profitability



Defined industry targets Strategic key accounts Value proposition by industry Geographic expansion in our chosen markets M&A ACCLERATION

Portfolio synergies Industry penetration Geographic scale High growth, high margin



PORTFOLIO TRANSFORMATION UNDERPINS FINANCIAL COMMITMENTS

Portfolio shift to Environmental & Energy Transition supports underlying high-growth and margin

ENVIRONMENTAL AND ENERGY TRANSITION PORTOFLIO Environmental consulting & Engineering consulting		 Revenue CAGR – >10% <10% to c.20% of revenue >20% margin 		Double operating profit	Group operating profit % to mid teens
	 Revenue CAGR – high single digits 45% to >50% of revenue >10-20% margin 	\rightarrow	Average cash conversion 90%	3-4% CAPEX % of revenue	
ESTABLISHED MOBILITY PORTFOLIO	Engineering consulting & Production	 Revenue CAGR – Low single digits 45% to < 30% of revenue c.10% margin 		Dividend cover 2.5-3.0X	Leverage <1.25x EBITDA
PORTFOLIO TRANSFORMATION				FINANCIAL AM	BITION BY 26/27

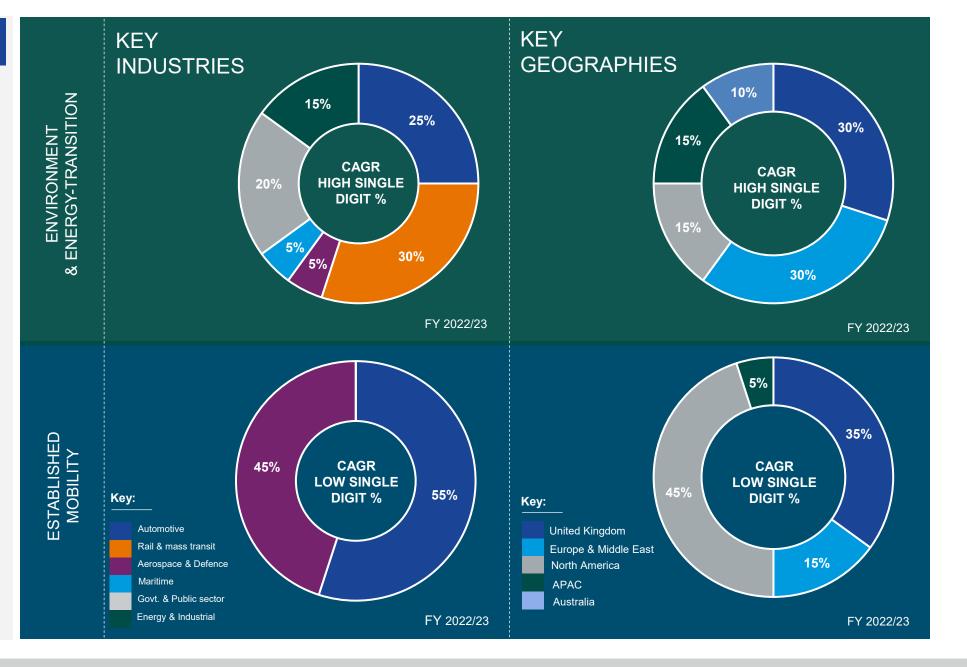
⁽¹⁾ Margin % calculated on new basis with Group costs held centrally and not allocated to reporting segments





ESTABLISHED INDUSTRY AND GEOGRAPHIC FOOTPRINT UNDERPINS REVENUE GROWTH

Our balanced exposure across the markets and the key industries provides a good foundation for further expansion







KEY ACCOUNT MANAGEMENT UNDERPINS ROUTE TO MARKET AND REVENUE GROWTH

Long-term customer relationships demonstrate the value and innovation we deliver across our chosen markets

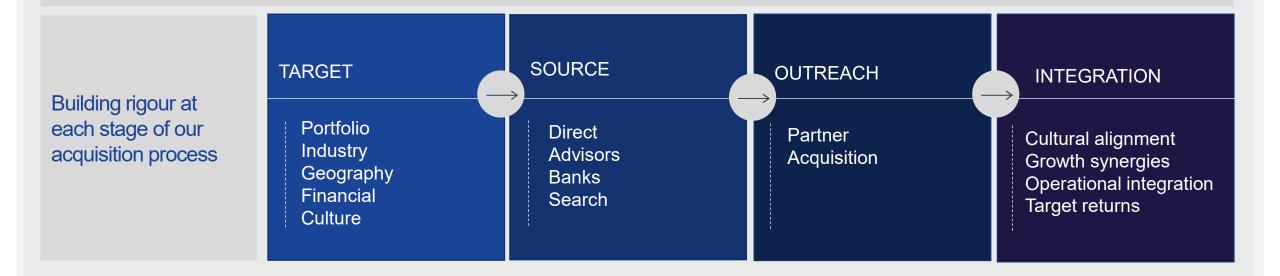


RICARDO

DISCIPLINED M&A PROCESS UNDERPINS GROWTH AND MARGIN Partnering in advance supports path to acquisition and benefits realisation

Ricardo's approach to M&A is focused on high growth, high margin and low capital-intensive businesses. Recent acquisitions have:

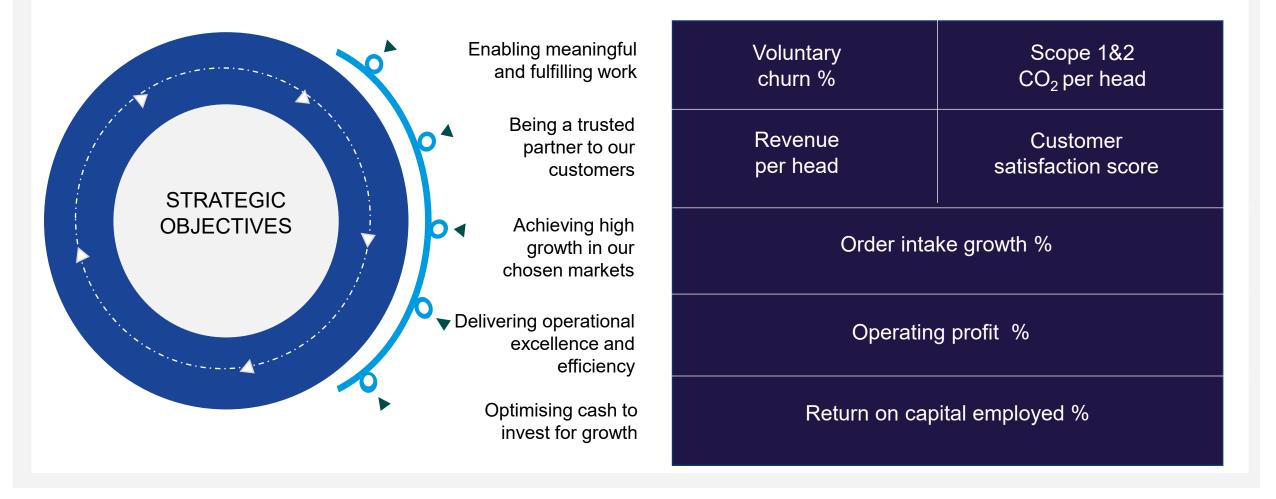
- Expanded our growth solutions and enhanced our current service portfolio
- Increased our digital footprint, creating more scalable offerings with recurring revenue
- Strengthened our geographic foothold in attractive markets
- Delivered profitable growth with increased synergies





FOCUSED EXECUTION TO DRIVE PERFORMANCE, CULTURE AND ESG

Financial and non-financial targets aligned to our strategic objectives





DELIVERING ACCORDING TO OUR STRATEGIC MILESTONES

Gaining good momentum and delivering in line with our five-year ambition

	FY 22/23	FY23/24	FY24/26	FY26/27
		\rightarrow	\longrightarrow	\rightarrow
Setting out our sharpened strategy	Organic growth focus and A&I recovery	Growth through portfolio transition	Growth and profit acceleration	Sustainable long-term value
	Continued A&I recovery Proactive sales and differentiation	 Increase R&D investment in digital capabilities Geographic footprint expansion 	 Geographic footprint optimised to deliver scale and margin Increased M&A with improved cash optimisation 	 A leading global strategy and engineering consultancy in Environmental & Energy Transition solutions



LEADING TECHNOLOGY EXPERTISE SUPPORTS ENERGY TRANSITIONS

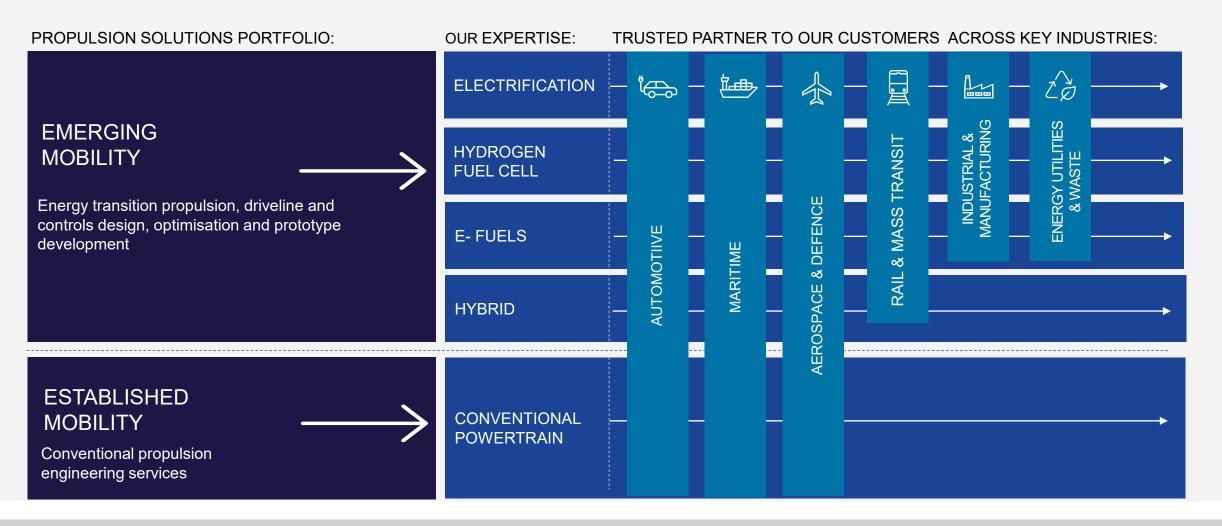
End-to-end mobility expertise across the value chain

PROPULSION SOLUTIONS PORTFOLIO:	OUR EXPERTISE:						
	ELECTRIFICATION	z					Electrified propulsion systems Design, development, test and integration of inverter, battery and e-drives
EMERGING MOBILITY	HYDROGEN FUEL CELL			SЕ		_	Fuel cell design and integration Calibration Testing Digital twin
Energy transition propulsion, driveline and controls design, optimisation and prototype development	E-FUELS	COMPONENT -	PE REAL	& OPTIMISE	 Validate	LAUNCH	Hydrogen & alternative fuel engine design & development Alternative calibration & testing Multifuel single cylinder research engines
	алана алана Ш 1			 CALIBRATE {	TEST & V	RODUCT	Dedicated hybrid transmission systems Vehicle integration Software & development
ESTABLISHED MOBILITY Conventional propulsion engineering services	CONVENTIONAL POWERTRAIN	SOFTWAR	RAPID PF	CAL		Γ. Ω.	Euro 7 calibration Transmission & driveline systems ICE development Special vehicle builds



PROACTIVE SALES TO DELIVER GROWTH ACROSS OUR TARGET MARKETS

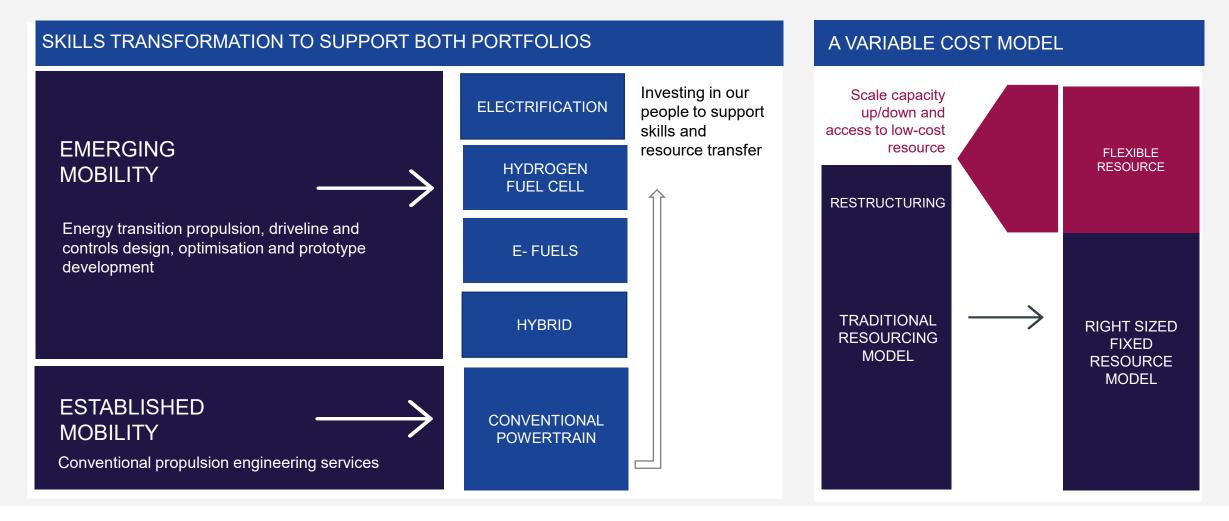
Optimising technology solutions for different industry applications





TRANSFORMING OUR DELIVERY MODEL FOR GROWTH

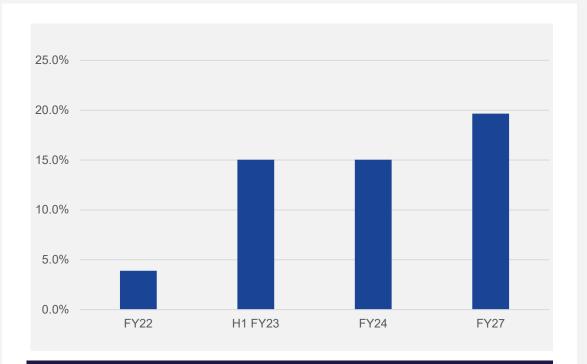
Variable cost model ensures resilience through the economic cycles





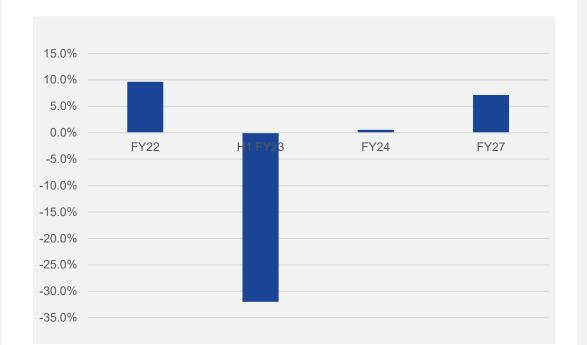
FOCUSED EXECUTION TO UNDERPIN SUSTAINABLE PROFITABLE GROWTH

High growth, margin and mix of emerging mobility



EMERGING MOBILITY ——

Revenue CAGR – mid single digits c.18% of Group revenue



ESTABLISHED MOBILITY -----

Revenue - flat from 23 levels c.7% of Group revenue

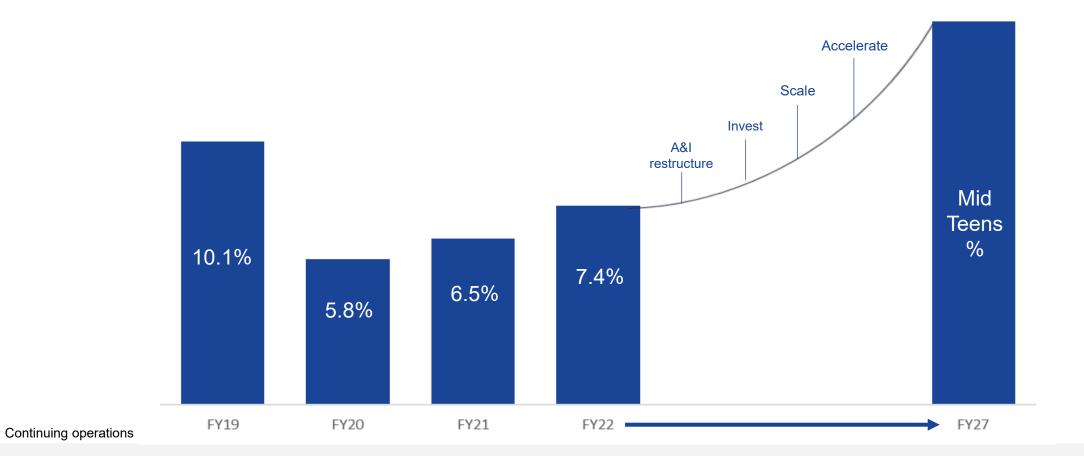




02 FINANCIAL PROGRESS

STRATEGIC ACTIONS UNDERPIN OPERATING PROFIT MARGIN PROGRESSION

Operating margin accelerates through the period as benefits from transformation are realised





DISCIPLINED CAPITAL ALLOCATION TARGETS REMAIN UNCHANGED

High return on capital with prudent net debt

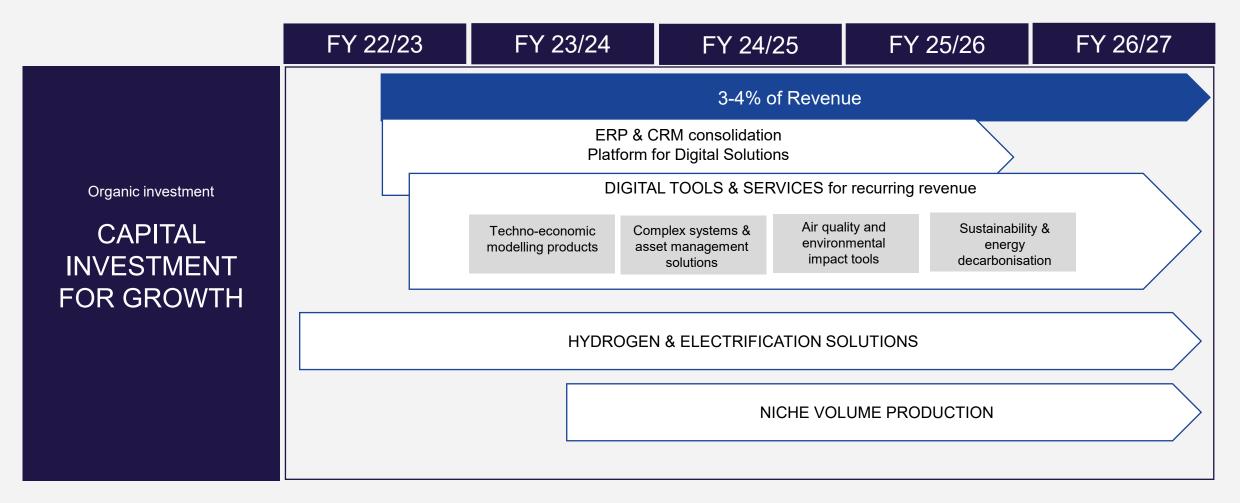


⁽¹⁾Leverage calculated on a pre-IFRS 16 basis



PRIORITISING INVESTMENT FOR GROWTH

Investing in repeatable, digital solutions to drive recurring revenue streams







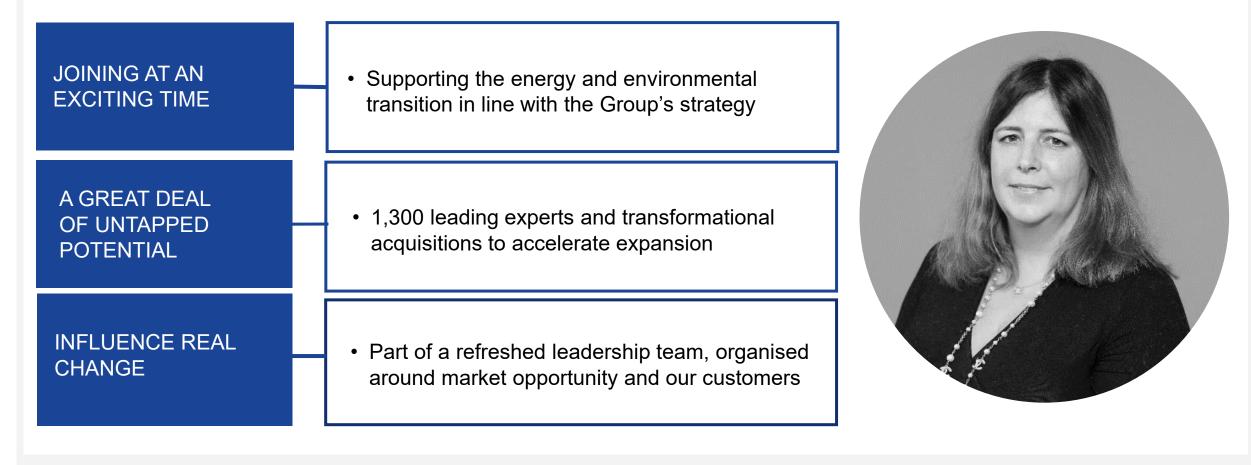
BREAK



03 DEEP DIVE

OPENING THOUGHTS FROM RACHEL WHITE

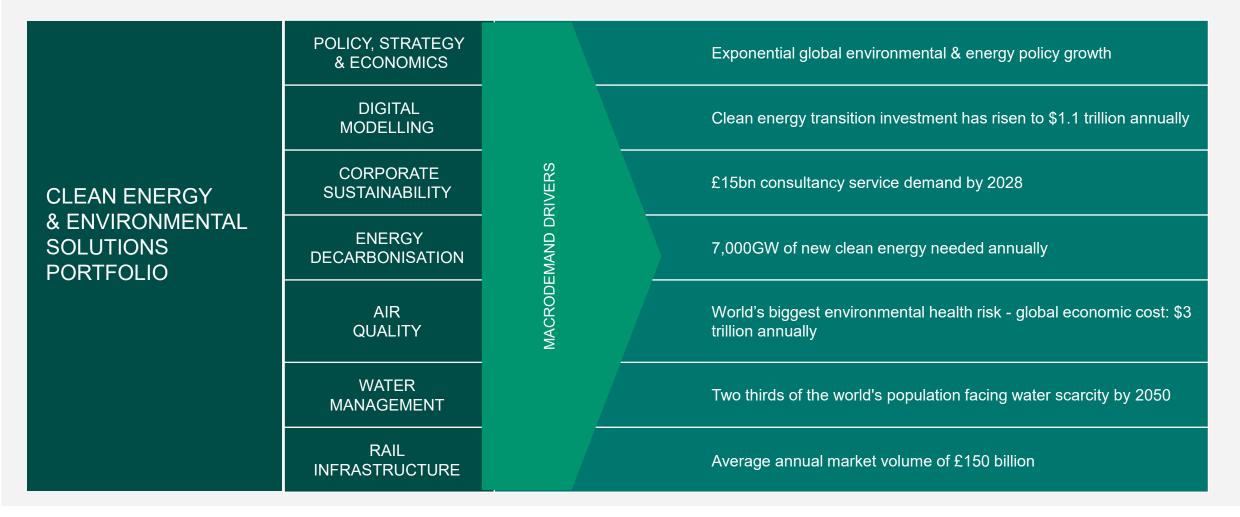
Exponential growth opportunity accelerated by global mega trends





STRONG DEMAND DRIVERS UNDERPIN OUR GROWTH STORY

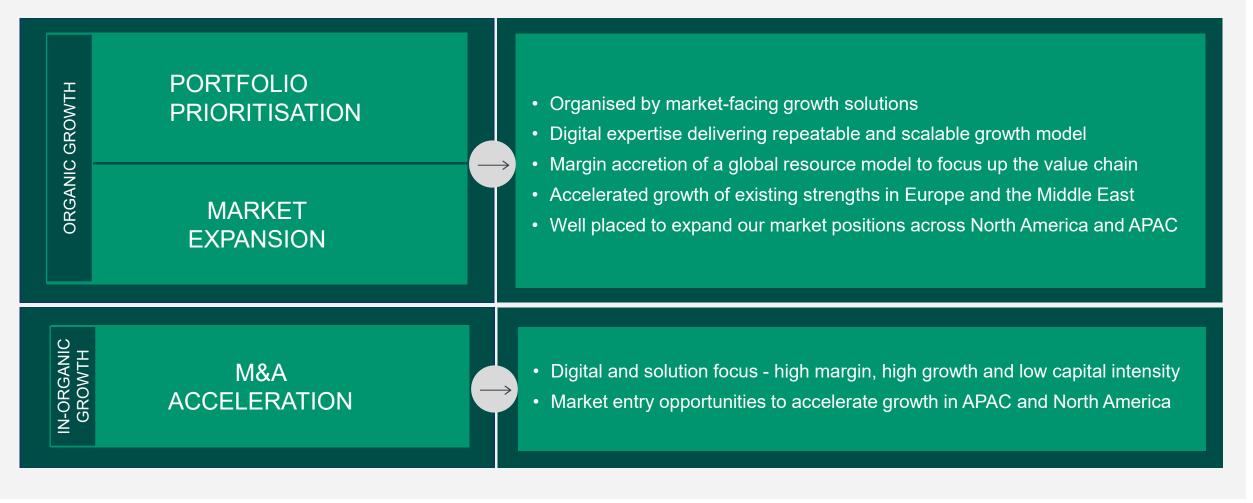
Leveraging our unique access to deliver transformational growth across our entire portfolio





OUR GROWTH STRATEGY TO DELIVER MARKET OUTPERFORMANCE

We are accelerating growth through our three key levers aligned to Group's strategy







POLICY, STRATEGY & ECONOMICS

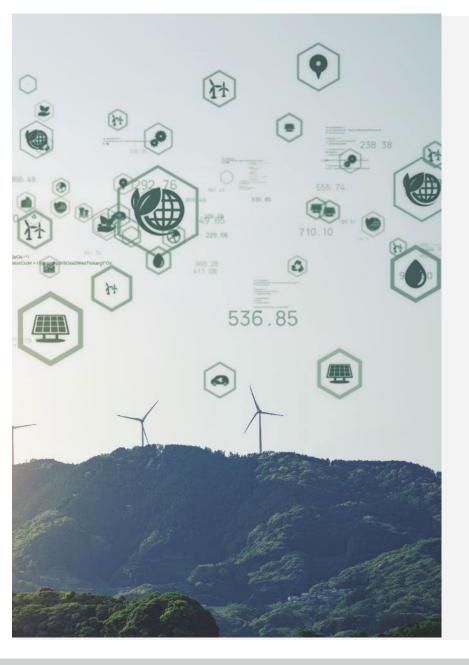
Developing policy initiatives and transformational strategies to address global energy and environmental challenges

FOCUS

- Trusted advisors to the European Commission, providing strategic advice and economic analysis
- Cutting-edge policy work for the European Commission
- Supporting the European Union enables Ricardo to replicate our capabilities with governments and corporates across the world

- Supported EU's "Fit for 55" climate package
- Developed world's most comprehensive approach for lifecycle environmental impacts of road vehicles
- Supporting the Govt. of Abu Dhabi to assess carbon pricing policies
- Analysing market opportunities for production of sustainable aviation fuels in Colombia





DIGITAL MODELLING

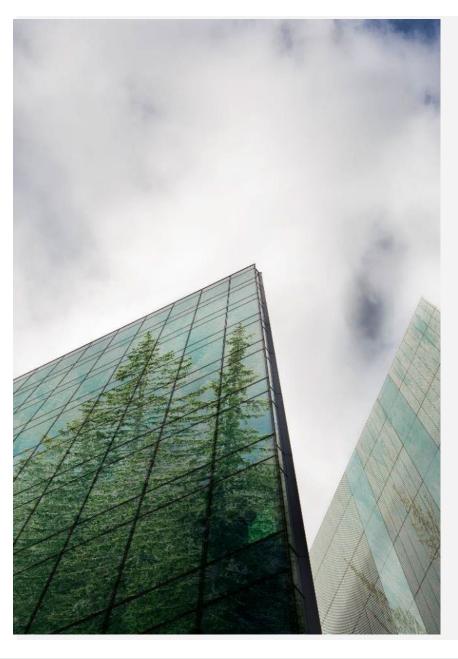
Modelling the energy-environment economy to support the low carbon transition

FOCUS

- De facto provider of model-based climate and energy analysis to the European Commission
- Recognised position as a leading model-based provider to EU climate and energy policy analysis means corporate customers seek our advice
- Investing in our energy and climate modelling tools to bring them to a wider audience with subscription access to regular updates

- Part of a consortium developing artificial intelligence framework for big climate datasets
- Supporting major financial institutions by analysing investment risks related to possible spikes in the EU carbon price
- Providing model-based analysis for banks on the transition and physical risks of climate change and impacts





CORPORATE SUSTAINABILITY

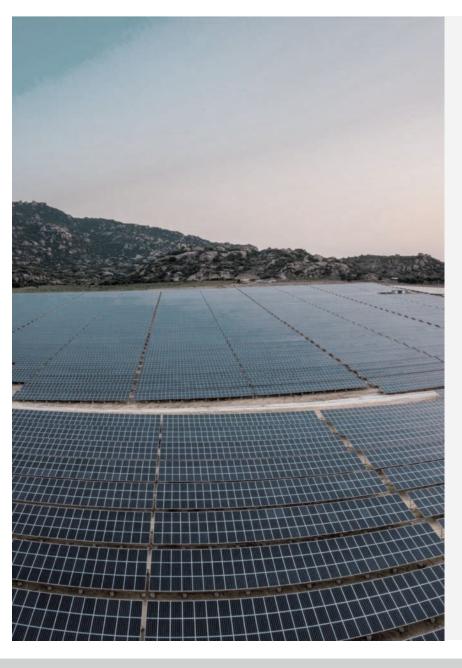
Expert advice to corporates on all aspects of sustainability

FOCUS

- Regulatory and investor pressure driving ESG strategy support
- Leading-edge policy and technology insights differentiates us
- Using digital modelling (E3M) to underpin credible sustainability strategy development
- European expertise highly-valued and 'door-opener' for international businesses

- Strategic sustainability partner to FTSE 100 and FTSE 250 sector customers
- Taskforce on Climate related Financial Disclosures (TCFD) for large multi-nationals
- Supporting energy-intensive and difficult to decarbonise businesses with ESG journey





ENERGY DECARBONISATION

Enabling the energy transition through innovative technology solutions

FOCUS

- Long-term established relationships
 with energy network operators
- Deep expertise in renewables, hydrogen and electrification
- Supporting financial institutions with clean energy investment decisions
- Regulatory drivers for innovation across the energy sector
- Resolving complex engineering challenges associated with renewables integration

- Solving complex grid integration problems for investors
- Shipping sector decarbonisation from strategy to implementation
- Supporting the UK Government's Net Zero Innovation Portfolio programme
- Development of national hydrogen plan for Indonesia



Ultra low emission

ULEZ

ZONE

At all times

AIR QUALITY

Longest established and largest air quality consultancy in Europe

FOCUS

- Impacts of air quality on health has significantly increased in recent years with additional regulations
- Over 60 years as world-leaders in nationally critical air quality management, modelling and measurement systems
- Leveraging global technical leaders to develop cutting-edge and scalable digital products
- Supporting businesses with air quality compliance and regulator pressures

- Design of Warsaw's first ever Low Emission Zone
- Design and manage UKs National Pollution modelling scenario support tool
- Supplying Abu Dhabi with a stateof-the-art air quality management system
- Supporting development of the world's first zero emissions zone





WATER MANAGEMENT

Delivering sustainable water management solutions in the face of climate change

FOCUS

- Water scarcity driving global demand for our services
- Supporting multi-billion-pound water infrastructure capital investment decisions
- Acquisitions of Inside Infrastructure and Aither creates leading water advisory in Australia
- Solutions to water pollution compliance unlocks built environment infrastructure opportunities

- Created world's first net zero route map for UK water industry – now adopted in water sectors globally
- Delivering water regulation and policy advice into Saudi giga projects (NEOM)
- Strategic and technical advice to water scarce sites such as BHP's mines
- Strategic water resource analysis to assist in management national water scarcity





RAIL INFRASTRUCTURE

Diverse global portfolio of projects with increasing focus on decarbonisation

FOCUS

- Critical safety and sustainability support for mega-city rail projects
- Whole-life support across complex railway programmes
- Need to optimise and improve strategic resilience for existing investments in rail infrastructure
- Integrating renewable energy systems into the complex, safety-critical railway environment

- Net zero commuter services to support Australian Govt. 2050 emissions targets
- Providing independent safety assessment (ISA) services for the European Train Control System
- London's Elizabeth Line, one of largest and most complex assurance projects
- Appointed safety auditor for Finch West Light Rail Transit in Canada



ASIA PACIFIC: REVENUE GROWTH TO £55M BY 2027

Well placed, particularly in Australia to take leading market positions



DEMAND DRIVERS

- Support demand from Asian Govts to meet climate commitments
- Australia is playing catch-up on the energy transition
- Leveraging the AUS-UK free trade agreement
- Decarbonising complex energy-intensive industries

ROUTE TO MARKET

EXAMPLES

- Acquired companies bring a significant client portfolio
- Targeting governments and corporates with heavy industry assets
- World-leading carbon pricing expertise for the Govt. of Indonesia
- Supporting the Philippines with its clean energy transition
- Infrastructure advisory for \$165 m, solar / battery facility in Adelaide
- Supporting BHP's water use requirements in Western Australia
- Shadow Operator for expansion of Sydney's metro system



NORTH AMERICA GROWTH THROUGH INCREASED FUNDING AND REGULATION Significant opportunity for growth



DEMAND DRIVERS

ROUTE TO MARKET

EXAMPLES

- Increasing political pressure on energy decarbonisation especially where global business HQ in North America
- Increasing regulation and funding, driven by USA's Inflation Reduction Act and Canadian Net-Zero Emissions Accountability Act
- Opportunity to leverage strong position built from existing services in Canada and Automotive & Industrial presence in the USA
- Combining capabilities for energy transition and infrastructure
- Whole-life sustainability support for car manufacturers, chemical producers and data services
- Safety and security auditor and rail engineering for Metrolinx
- Supporting multi-national cloud solutions provider with service life cycle assessment
- Improving projected emissions for US Environmental Protection Agency



COMPLEMENTARY ACQUISITIONS ACCELERATE GROWTH

Extracting value from our acquisitions



FOCUS

- Good strategic alignment
- Partnership spanning 10 years
- Opportunity to scale geographically
- Digital expansion in Ricardo key markets

STRATEGIC PROGRESS

- Supporting critical recruitment placement through Ricardo's established European footprint
- Digital investment in E3 Modelling platform to accelerate near to mid-term global scale



E3-

MODELLING

FOCUS

- Enhance Policy, Strategy & Water
- Links with existing Australian entities
- International growth with existing customers
- Support with product delivery

STRATEGIC PROGRESS

- Submitted over \$4m of joint tenders
- Consolidated office footprint to enable the commencement of integration of Australian businesses



INVESTING FOR GROWTH

Accelerating our organic strategy to create value for all stakeholders

FINANCIAL	DIGITAL	INVESTMENT IN
COMMITMENT	INNOVATION	OUR PEOPLE
22xCapital allocation increase in FY24 to invest in the development of new clean energy and environmental solutions to drive organic growth	Increased focus on repeatable and scalable solutions Generate recurring revenue and pull-through consulting Makes our expertise accessible to a wider global client base Uniquely addresses client's challenges from policy to implementation Evidence Policy & Strategy Implementation Techno-economic modelling products Complex systems & asset leveraging E3M and Aither acquisitions Complex systems & asset State-of-the art air quality & environmental impact tools Accelerators for client sustainability & energy decarbonisation transition	Increased investment in recruitment and retention Graduate recruitment Development of scalable training programmes to accelerate talent Commercial and leadership development to complement our technical expertise



04 CUSTOMER PERSPECTIVE

GRESHAM HOUSE

A CONVERSATION WITH: **Peter Bolton** Investment Director - Gresham House

Sujith Kollamthodi Practice Director - Policy, Strategy & Economics, Ricardo







CLOSING REMARKS

TRANSFORMING RICARDO TO OPTIMISE ENERGY TRANSITION

Technical expertise across mobility and environmental solutions

ENERGY TRANSITION OPPORTUNITIES -	 Global mega trends in global policy, energy decarbonisation and sustainable mobility Global investment in mobility and renewable energy creates unconstrained demand Energy transition complexity requires alignment in energy supply and mobility demand Leveraging our in-house expertise to deliver our own ESG agenda
PORTFOLIO & MARKET	 Strategic and digital investment accelerates growth and margin Strong momentum and growth needs in Clean Energy & Environmental solutions portfolio Repositioned Automotive & Industrial's portfolio and operating model for profitable growth Established industry and geographic footprint enables further expansion
CULTURAL TRANSFORMATION -	 Refreshing our leadership team with high ambition and focus on execution Aligned purpose and objectives across the business to deliver end to end value Embedding a performance culture



THANK YOU TIME FOR QUESTIONS



