Johnson Matthey Inspiring science, enhancing life

Presentation of results for the half year ended 30th September 2021

24th November 2021

Cautionary statement

This presentation contains forward-looking statements that are subject to risk factors associated with, amongst other things, the economic and business circumstances occurring from time to time in the countries and sectors in which Johnson Matthey operates. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a wide range of variables which could cause actual results to differ materially from those currently anticipated and you should therefore not place reliance on any forward-looking statements made. Johnson Matthey will not update forward-looking statements contained in this document or any other forward-looking statement it may make.

Introduction – Patrick Thomas, Chair

Resilient trading performance in a challenging environment

Strategic decisions taken on the portfolio including steps to simplify and focus

Focus on shareholder value through disciplined capital allocation – share buyback announced

Strong foundations in Clean Air and Efficient Natural Resources

Substantial opportunities for growth focused on climate change solutions

Liam Condon to join as Chief Executive on 1st March 2022





Robert MacLeod Chief Executive

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Resilient performance in the first half



Resilient trading performance in a challenging environment



Strong foundations in Clean Air and Efficient Natural Resources



Scientific and metal expertise fundamental to long-term growth



Portfolio changes



Focusing investment towards climate change solutions

Portfolio changes

Battery Materials	Health	Advanced Glass Technologies
Capital intensity too high	Weak current performance	Non-core activity
Returns not adequate	Lower long-term outlook	Sale agreed to Fenzi S.p.A. for £178m
Intention to exit	In discussions about potential sale	Completion expected by end of fiscal year ¹

1. Subject to the Netherlands works council consultation, and the satisfaction of customary completion conditions.

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Science and metal expertise at the heart of the group

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Leaders in complex metal chemistry

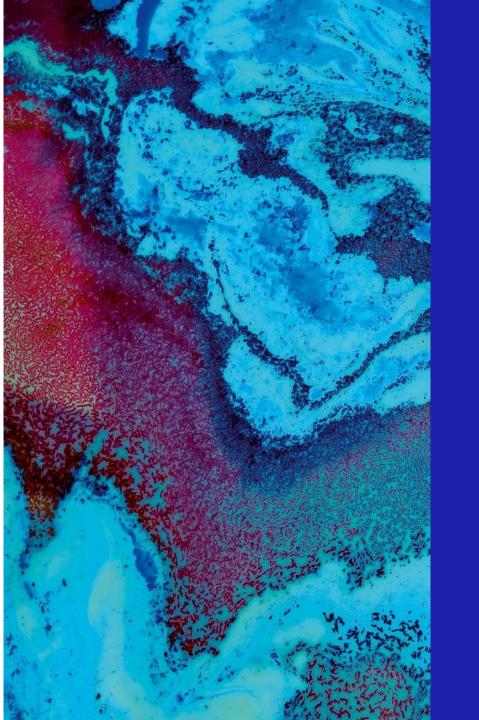
Developed over decades; hard to replicate

Synergies across the group

Key to many technologies tackling climate change

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Note: 2020/21 figures. UN SDGs – United Nations Sustainable Development Goals

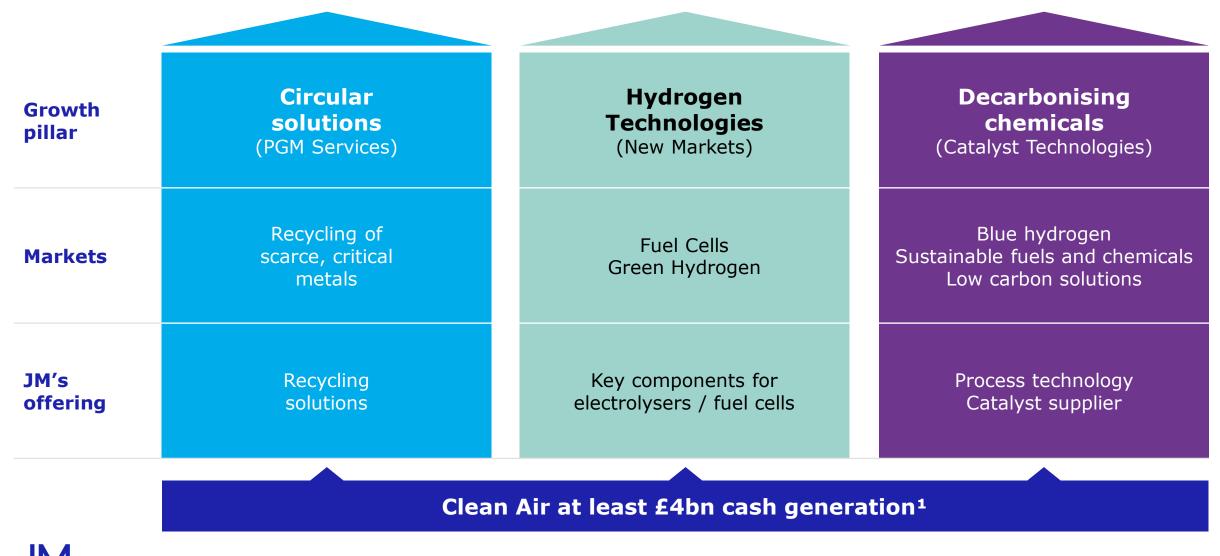




>1,600 R&D employees

87% Gross R&D spend contributing to 4 UN SDGs

Opportunities driven by climate change solutions



Clean Air: delivering cash

Strategic business wins

Leadership positions in LDD and HDD

Selectively targeting Euro 7 gasoline platforms

Efficiency levers

c.25% fixed costs of c.£550m p.a. c.75% variable costs

Expect reduction in fixed costs of at least £100m by 2030

Capital efficiency

Capex of c.£135m (average past three years), reducing to maintenance level of c.£50m by 2025

Working capital reductions

Working capital unwind as business matures; c.£2bn at 1st April 2021



On track to deliver at least £4bn of cash in the coming 10 years¹



Circularity of scarce critical materials

Enabling circularity

The needs of tomorrow

World leader in recycling of scarce pgms

• Twice the size of next largest player

Deep metals expertise

Supply of scarce critical metals for pgm based technologies, e.g. fuel cells

Low carbon manufacturing

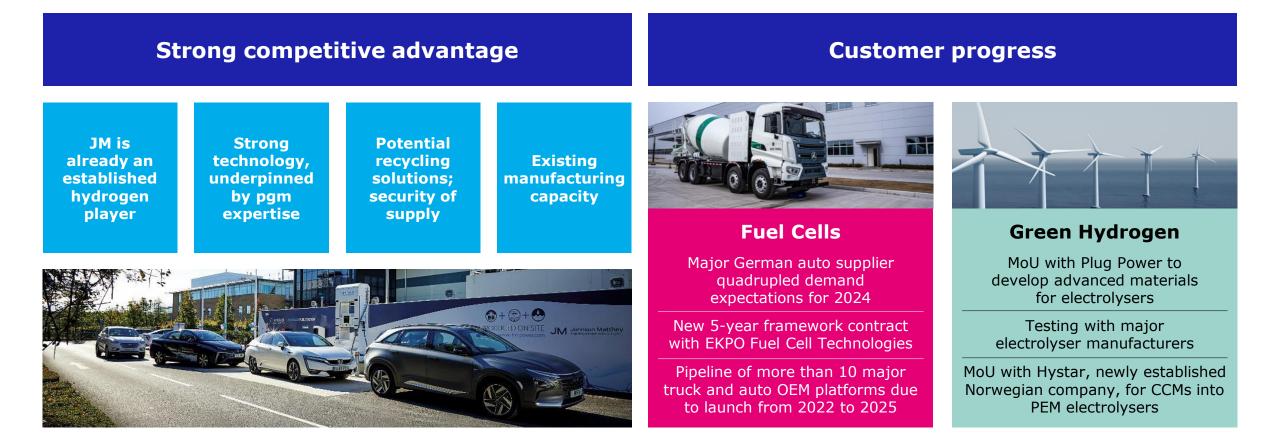
- Carbon intensity of recycled metals c.2% of primary metals¹
- Opportunity to capture more value over time

Design to recycle solutions

Applying expertise to new materials

Hydrogen Technologies

A large opportunity and strong competitive advantage



Our business today: Fuel cells c.£40m annual sales¹; 50% autos

2GW capacity today; planning further expansion

1. 2020/21 sales excluding precious metals.

Note: EKPO Fuel Cell Technologies – a joint venture between ElringKlinger AG and Compagnie Plastic Omnium SE, CCM – catalyst coated membrane, MoU – Memorandum of Understanding, PEM – Proton exchange membrane.

Decarbonising chemical value chains

	JM's opportunity	Process technology	Catalyst	Addressable market to 2030 ²
Blue hydrogen	 Ultra low carbon intensity technology – LCH™ Selected for first UK hydrogen cluster (HyNet) Pipeline of over 20 customer projects 	\checkmark	\checkmark	£1bn to £8bn³
Sustainable fuels	Patented technology for sustainable fuels Fulcrum Sustainable Aviation Fuel catalyst loading complete Pipeline of c.20 customer projects 	~	~	£1bn to £2bn ³
Power to X ¹	 Patented technology for sustainable fuels and chemicals Haru Oni project – power to methanol Selected partner for Repsol/Aramco liquid fuels project 	~	~	Nascent today: significant post 2030
Low carbon solutions	Large installed base requiring decarbonisation	\checkmark	\checkmark	c.150 plants in Europe and North America ³

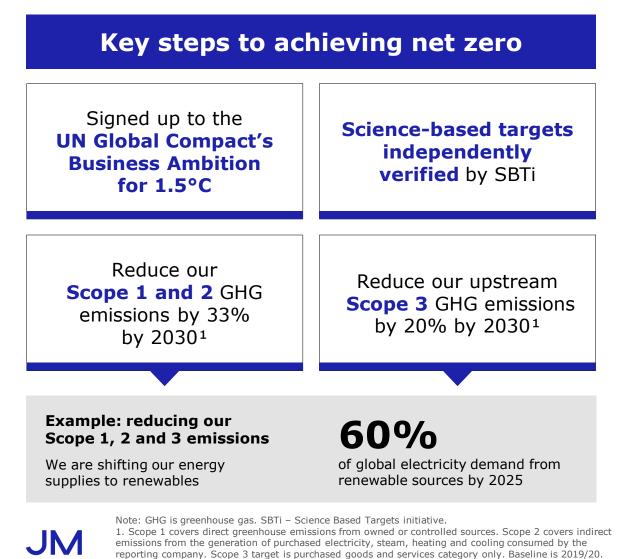
1. Power to X covers processes converting renewable electricity into products such as hydrogen or sustainable fuels.

2. Cumulative addressable revenue to 2030.

3. Source: blue hydrogen (IEA Sustainable Development Scenario and Net Zero Energy Scenario), sustainable fuels (IATA), low carbon solutions (JM).

Note: LCH – low carbon hydrogen.

Our path to net zero by 2040 Our vision is for a cleaner, healthier world



We are being recognised by stakeholders as a leader in sustainability







Stephen Oxley Chief Financial Officer

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Focusing on our priorities



Execution

- Better execution needed on capital projects
- Realising efficiencies
- Delivering operational performance



Capital allocation

- Simplifying the group
- Disciplined capital allocation to deliver attractive long-term returns



Growth

- Pivoting to high growth, high return opportunities
- Applying our science and metal expertise to deliver sustainable solutions

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Resilient performance in a challenging environment



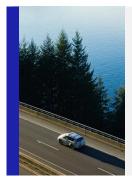
Resilient underlying performance in 1H

- Sales up 21%
- Operating profit up c.100%
- Earnings per share of 114.8p, up from 47.7p



Strong balance sheet

- Free cashflow of £189m
- Net debt of c.£700m
- Net debt to EBITDA: 0.9x



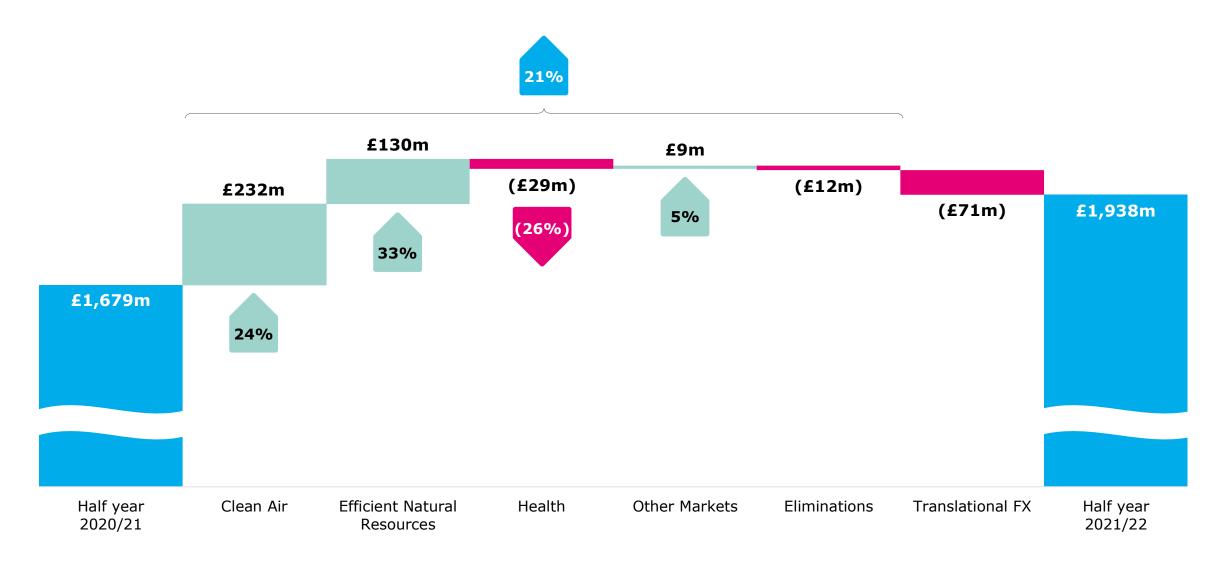
Delivered £42m efficiency savings from total programme of £110m by 2023/34



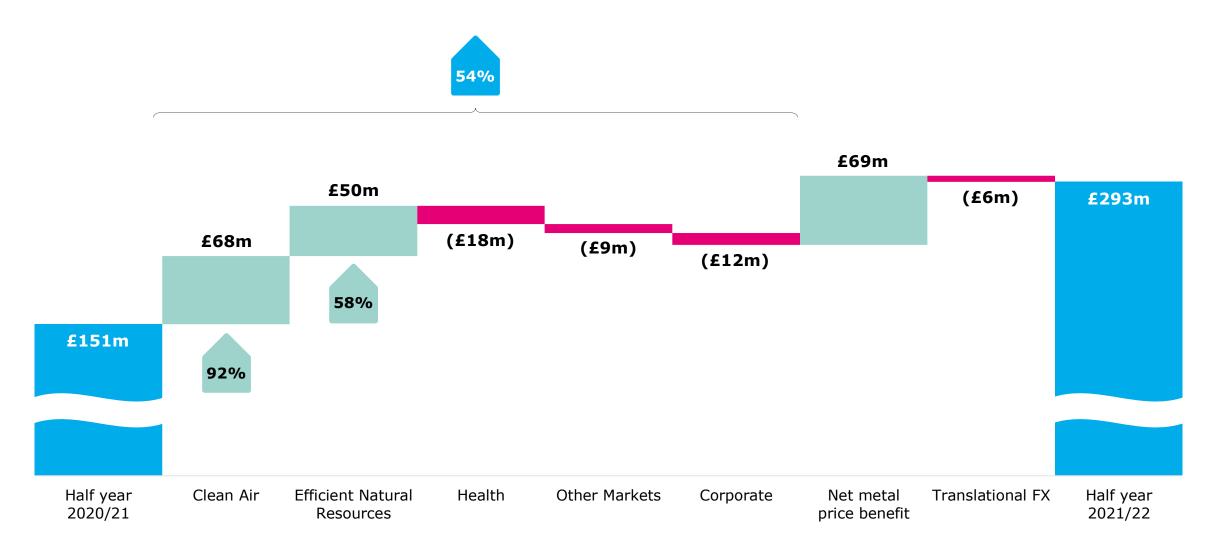
Interim dividend of 22.0p per share, up 10%

Note: Sales, operating profit and earnings per share (EPS) are underlying measures - before profit or loss on disposal of businesses, gain or loss on significant legal proceedings together with associated legal costs, amortisation of acquired intangibles, major impairment and restructuring charges and, where relevant, related tax effects. Comparator period is 1H 2020/21.

Group sales recovered strongly, primarily driven by Clean Air



Group underlying operating profit



Clean Air: strong recovery in end markets; supply chain constraints

Underlying results for half year ended 30 th September	2021 £m	2020 £m	% change, constant rates	2019 £m
Light duty diesel	498	420	+22	564
Light duty gasoline	270	260	+8	340
Heavy duty diesel	428	323	+40	488
Total sales	1,196	1,003	+24	1,392
Operating profit	150	77	+103	179
Margin	12.5%	7.7%		12.9%

Sales increased 24%

Strong performance across all regions

- Recovery in end market demand
- Strong growth in US Class 8 HDD
- China VI HDD legislative benefits

Supply chain disruption, principally semi-conductor chips

Operating profit increased 103%

Efficiencies – continuing benefits from transformation programme

Margin recovery and will benefit further with volumes

On track for strong cash generation for the full year

Efficient Natural Resources: strong performance

Underlying results for half year ended 30 th September	2021 £m	2020¹ £m	% change, constant rates	2019¹ £m
PGM Services	300	215	+46	173
Catalyst Technologies	223	196	+19	252
Total sales	523	411	+33	425
Operating profit	197	88	+129	92
Margin	37.7%	21.4%		21.6%

Sales increased 33%

PGM Services – volatile and higher average pgm prices, and increased refinery volumes

Catalyst Technologies – primarily higher refills

- Continued good performance in ammonia; methanol benefited from delayed orders
- Licensing marginally up; pipeline remains strong with 2 licence wins in the half

Operating profit increased 129%

Strong growth in PGM Services and Catalyst Technologies

Higher average pgm prices (c.+£60m)

Margin expanded 16.3ppt to 37.7%

Health: discussions about a potential sale

Underlying results for half year ended 30 th September	2021 £m	2020 £m	% change, constant rates
Generics	40	70	-40
Innovators	43	49	-4
Total sales	83	119	-26
Operating (loss) / profit	(4)	15	n/a

Performance

Demand has been strong

Performance in both innovators and generics affected by:

- Acute labour shortage in the US
- Global supply chain constraints
- Generics also impacted by pricing pressure and delayed medical procedures

Strategic review

In discussions about a potential sale – we will provide an update in due course

Other Markets: investing in our new growth businesses

Underlying results for half year ended 30 th September	2021 £m	20201 £m	% change, constant rates	2019¹ £m
New Markets	16	25	-36	21
Value Businesses	175	166	+11	213
Total sales	191	191	+5	234
Operating loss	(11)	(2)	n/a	(6)

Increased investment in New Markets and lower sales in Fuel Cells driving operating loss

New Markets – investing for growth

Hydrogen Technologies (Fuel Cells and Green Hydrogen)

Fuel Cells sales of £10m, down on prior year:

- Temporary manufacturing issues as we ramped up new facilities
- Capacity used for new customer testing

Battery Materials

Announced intention to exit

Value Businesses – non core

Strong recovery in sales, back towards pre-pandemic levels

- Actively managing for value
- Agreed sale of Advanced Glass Technologies for £178m

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Underlying operating performance

Underlying results for half year ended 30 th September ¹	2021 £m	2020 £m	% change	% change, constant rates
Sales excluding precious metals (sales)	1,938	1,679	+15	+21
Operating profit	293	151	+94	+102
Finance charges	(29)	(41)		
Share of profits of joint ventures and associates	-	(1)		
Profit before tax	264	109	+142	+153
Taxation	(42)	(17)		
Profit after tax	222	92	+141	+154
Underlying earnings per share	114.8p	47.7p	+141	
Interim dividend per share	22.0p	20.0p	+10	

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1. All figures are before profit or loss on disposal of businesses, gain or loss on significant legal proceedings, together with associated legal costs, amortisation of acquired intangibles, major impairment and restructuring charges and, where relevant, related tax effects.

Reported results impacted by one-offs

Half year ended 30 th September	2021 £m	2020 £m
Underlying operating profit	293	151
Amortisation of acquired intangibles	(3)	(5)
Major impairment and restructuring charges ¹	(314)	(78)
Gain on significant legal proceedings ²	44	_
Reported operating profit	20	68

1. £314m impairment of assets following the announcement of our intention to exit Battery Materials (1H 2020/21:£78m major impairment and restructuring charges incurred in relation to organisational efficiency initiatives).

2. £44m awarded to JM in relation to damages and interest from a company found to have unlawfully copied one of JM's technology designs.

Free cash flow

Free cash flow (£m)

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Half year ended 30 th September		2021	2020
Underlying operating profit		293	151
Depreciation and amortisation ¹		96	85
Precious metal working capital inflow	228	297	
Non precious metal working capital (outflow) / inflow	(214)	19	
Net working capital inflow	14	316	
Net interest paid		(34)	(44)
Tax paid		(49)	(20)
Capex spend		(184)	(175)
Other ²		53	(57)
Free cash flow		189	256

 Excluding amortisation of acquired intangibles, including loss on sale of non-current assets.
 Includes non-underlying gain on significant legal proceedings, impairments, lease payments and movements in pensions and provisions.

Focusing capital allocation to drive long-term returns

Sources of capital

Clean Air At least £4bn of cash over 10 years

Efficient Natural Resources Growth and cash generation

Portfolio changes

Investing for growth in climate change solutions

Dividend

Return excess to shareholders: £200m buyback announced

Capex outlook

01

Reduced previous capex guidance by c.£150m

02

Now expect c.£450m capex for FY 21/22

FY 22/23 capex of c.£400m under current plans

Investing in:

Maintenance capex

of c.£200m p.a.

Hydrogen Technologies

Scaling up Fuel Cells and Green Hydrogen

Circular solutions

Investment in our pgm refineries

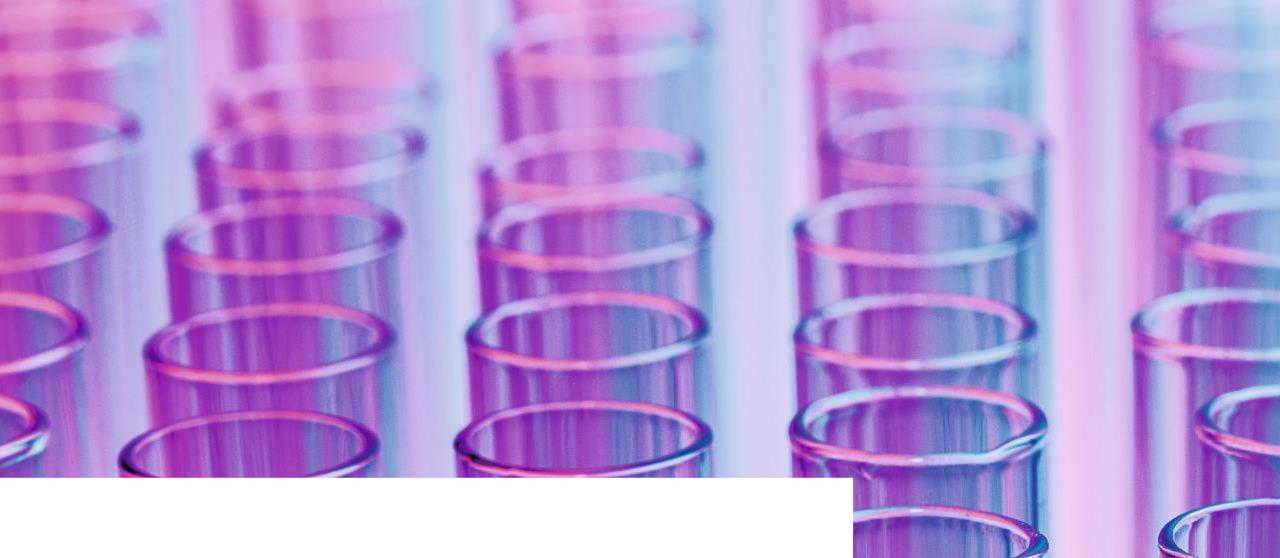
Outlook for year ending 31st March 2022

Group	Guidance unchanged from 11 th November 2021 trading update: Low single digit growth ¹ in underlying operating performance
Metal	c.£45m benefit if precious metal prices remain at current levels for rest of the year ²
Foreign exchange	c.£15m adverse effect on underlying operating profit at current FX rates ³
Capex	Given our intended exit from Battery Materials, now expected to be c.£450m



1. At constant currency and constant metals prices (based on actual precious metal prices in 2020/21).

At current metals prices as at 22nd November 2021.
 Foreign exchange rates as at 22nd November 2021.



Appendix

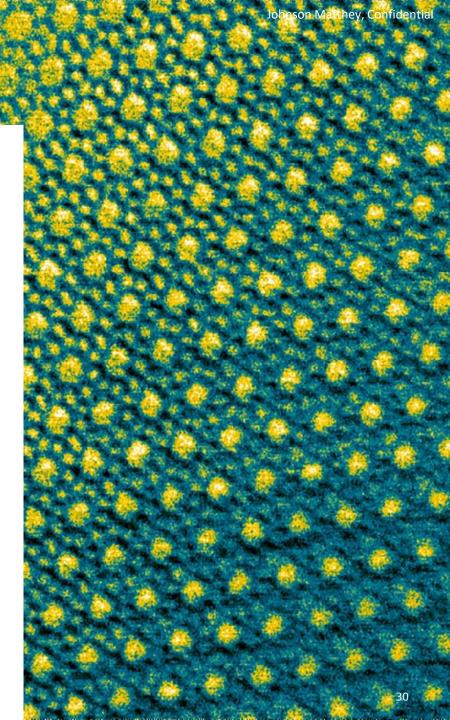
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Net debt to EBITDA 0.9 times¹

	£m	£m
Net debt at the beginning of the year		(775)
Free cash flow	189	
Dividends	(96)	
Movement in net debt		93
Lease adjustments ²		3
Net debt before FX and other movements		(679)
FX		(20)
Net debt at the end of the period		(699)

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Net debt including post tax pension deficits.
 New leases, remeasurements and modifications less lease disposals and principal element of lease payments.



Various market scenarios for powertrain evolution

MET	RIC	Faster electrification	Base	Slower electrification
01	Size of auto industry globally (million vehicles) ¹	c.90m	c.100m	c.110m
02	LDD share Europe in 2030 ¹	c.5%	c.10%	c.15%
03	% BEV penetration globally in 2030 ¹	c.40%	c.30%	c.20%
04	Legislation ²	2027	2026	2025

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JM assumptions for Western European passenger and commercial vehicles and global BEV penetration.
 Expected enactment date for further legislation - Euro 7, China 7 and possible US legislation.

Light duty emissions control legislation roadmap

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028 →	
Europe	Euro 6d temp	FU6d FU7 (20)					EU7 (202	5-27 estimated start)			
North America EPA		Tier 3 Phase In: NMOG + NOx, PM Tightening						`Tier 4′ (est.)			
North America CARB		LEV III Phase In: NMOG + NOx, PM Tightening PM = 1mg/mi					`LEV 4′ (est.)				
Japan	JP 18 (WLTP)										
South Korea (Gasoline)	LEV III		LEV III (97g/km CO ₂ , 2020)								
South Korea (Diesel)	EU6c (RD	RDE Phase I) EU6d (RDE Phase II, 9				97g/km CO ₂	7g/km CO ₂) EU7 (estimated)				
China (Main economic areas)	CN6b nor	o non PN or RDE CN6b no		b non RDE							
China (Nationwide)	CN5	CN5 (EU5) CN6		CN6a		CN6b / RDE			CN7 (estimated)		
Brazil		PL6			PL7		L8				
India	BSIV	BSVI Stage I (EU6		(EU6b)	5b) BSVI Stage II (RDE)			(RDE)		BSVII (est.)	
Indonesia (Gasoline)		EU4 EU5 (est.)					EU5 (est.)				
Indonesia (Diesel)		EU2			EU4						
Thailand		EU4				EU5 (estimated)					

Heavy duty emissions control legislation roadmap

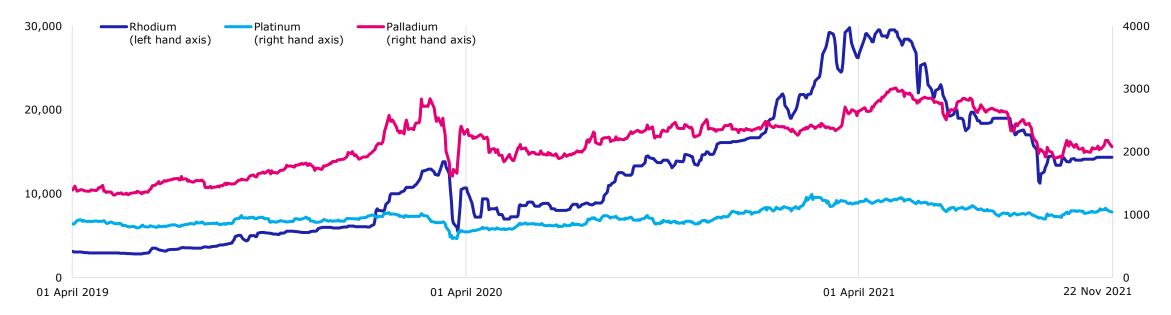
On Road	2020	2021	2022	2023	2024	2025	2026	2027	2028+
Europe	EU VI					EU VII (2025-27 est start)			
North America	US 2010 US 2					US 202	27 (est)		
North America (CARB)	US 2010			CARB 2024			CARB 2027		
Japan	JP 16								
South Korea	EU VI				EU VII (est)				
Brazil	P	7	P8						
Russia	EE 5				EE 6 (est)				
India	BS VI			BS VI RDE				BSVII est	
China	CN VIa			CN VIb			CN VII (est)		

Non Road

Europe	Stage V (adoption date is engine power rating and application dependent)						
North America	Tier 4f						
Japan	MLIT 2014						
Brazil	Stage IIIa						
South Korea	Tier 4f		Stage V (est)				
China	Stage	III Stag	e IV (<560kw); timing not yet set for >560kw				
India	BT III	BT IV (Stage IV)	BT V				

Average pgm prices

US\$ per troy oz



Price (US\$ per troy oz)	H1 2020/21 average	H1 2021/22 average	Current (22 nd November 2021)		
Platinum	859	1,108	1,044		
Palladium	2,112	2,639	2,080		
Rhodium	9,741	21,396	14,350		