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Johnson Matthey Inspiring science, enhancing life

Presentation of results for the six months ended 30th September 2018

21st November 2018

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.

Delivering on our strategy and confident in our outlook

Continued progress on implementing our strategy

Sales and underlying operating profit up 10% Full year operating performance towards upper end of guidance

Interim dividend up 7% ROIC of 16.0%



Chief Financial Officer

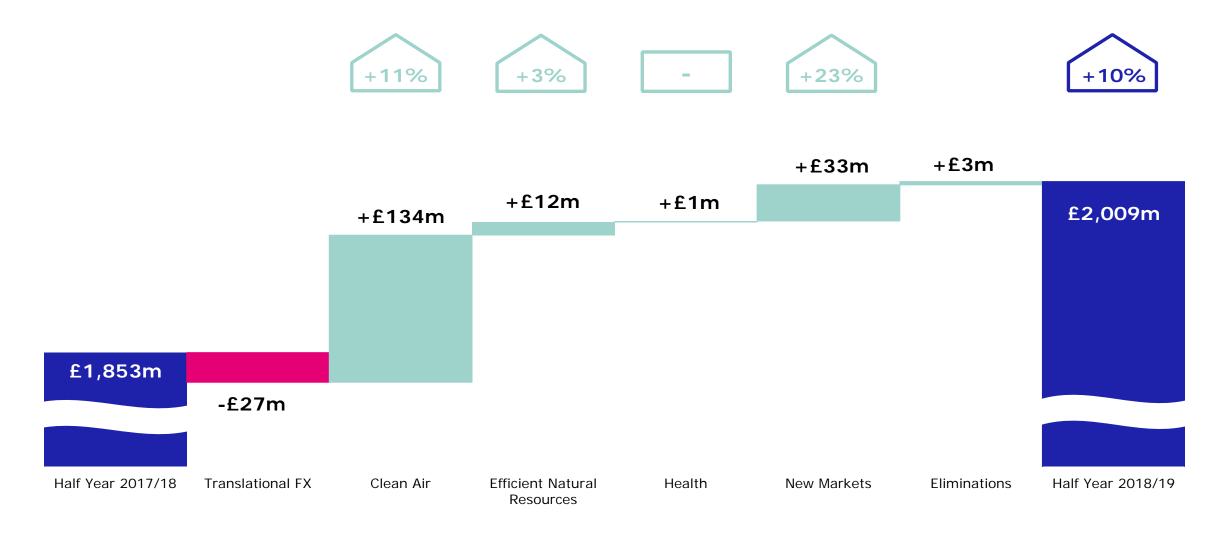
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Good first half group performance

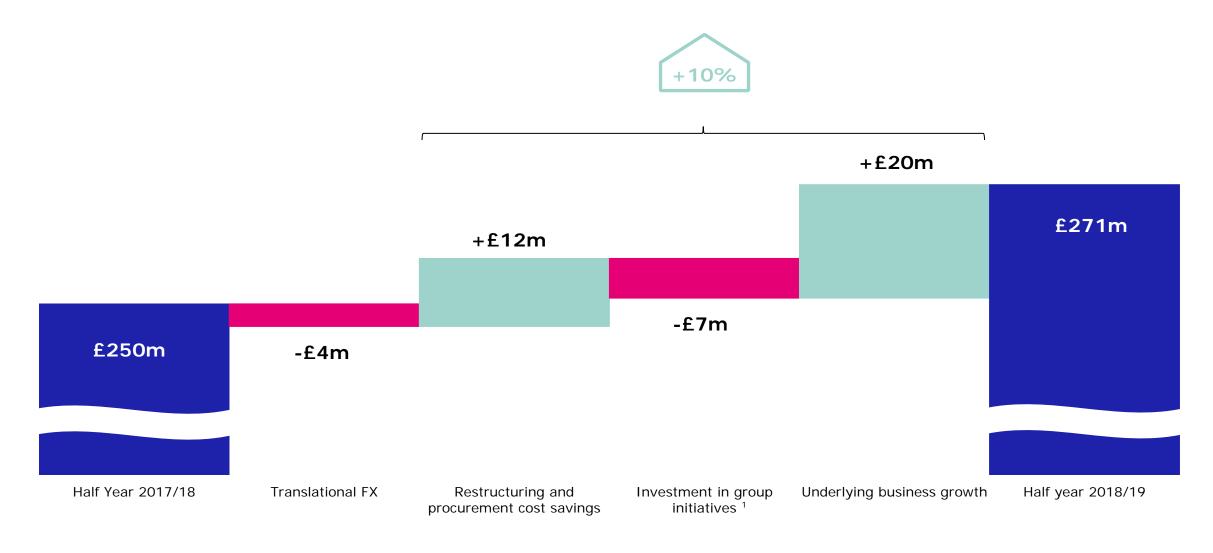
Underlying results for half year ended 30th September ¹	2018 £m	2017 £m	% change	% change, constant rates
Sales excluding precious metals	2,009	1,853	+8	+10
Operating profit	271	250	+8	+10
Finance charges	(20)	(16)	+24	
Profit before tax	251	233	+7	+9
Taxation	(41)	(42)	-	
Profit after tax	210	191	+9	
Earnings per share	109.0p	99.8p	+9	
Interim dividend per share	23.25p	21.75p	+7	

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

Strong sales growth driven by Clean Air

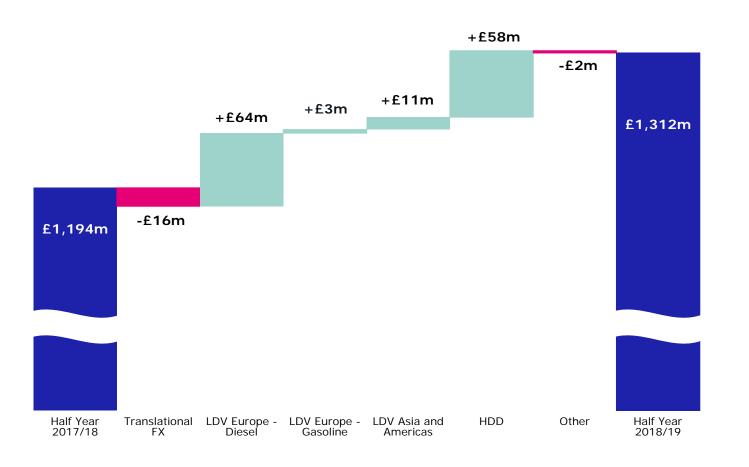


Strong growth in underlying operating profit



Clean Air: Continued strength with double digit growth in both light and heavy duty

Sales up 11%

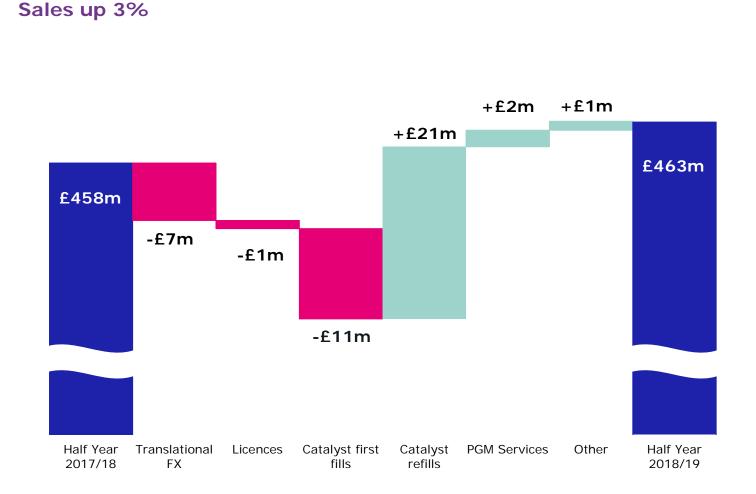


Operating profit up 15%

- Margin improved by 0.5ppts
- Volume leverage
- Tight cost control

- Continued strong sales growth, driven by light duty diesel share gains in Europe
- Expect full year margin to be maintained in line with prior year

Efficient Natural Resources: Sales growth with margin improvement



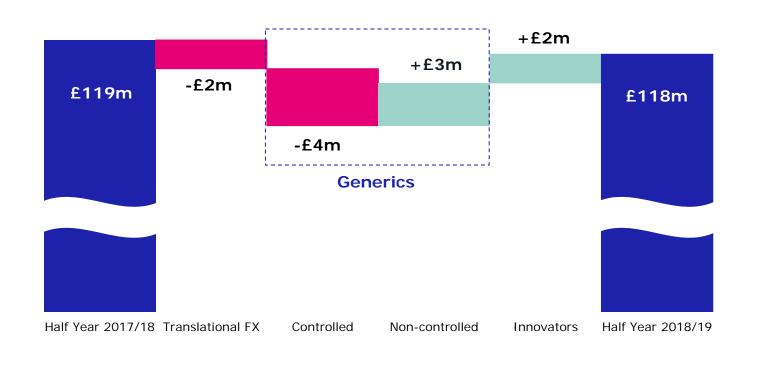
Operating profit up 26%

- Margin up 3.2 ppts
- Higher average pgm prices (+c.£10m)
- Efficiency improvements
- Partly offset by increased investment in pgm refineries

- Slight sales growth
- Operating profit growth ahead of sales, plus c.£7m restructuring cost savings

Health: Stable sales with operating profit down as expected

Sales flat



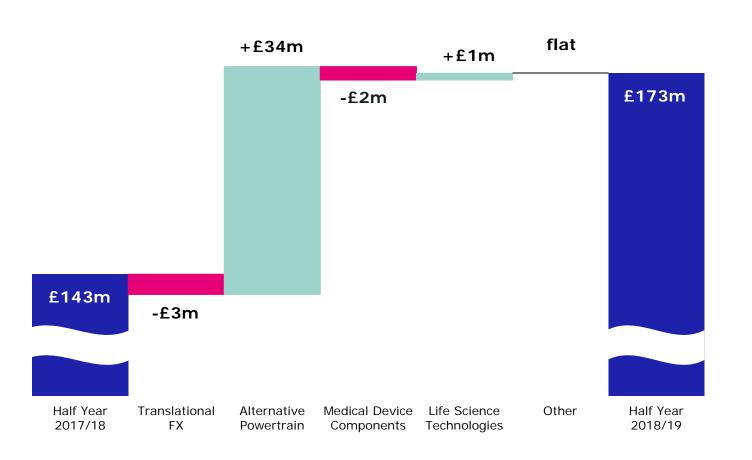
Operating profit down 31%

- Margin down 5.8 ppts
- Decline in high margin products moving through natural lifecycle
- Small net cost from manufacturing footprint optimisation

- Guidance unchanged
 - Broadly stable sales
 - Operating profit down

New Markets: Strong sales growth, operating profit declined

Sales up 23%



Operating profit down 67%

- Margin down 4.5 ppts
- Investing in strategic relationships for eLNO
- Strong growth in lower margin Battery Systems sales

- Sales growth
- Operating profit now expected to be down for the full year

EPS growth slightly ahead of underlying operating profit growth

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Free cash flow impacted by working capital

Free cash flow (£m)

Half year ended 30th September	2018	2017
Underlying operating profit	271	250
Depreciation and amortisation ¹	79	77
Precious metal working capital outflow	(283)	(156)
Non precious metal working capital outflow	(76)	(91)
Other working capital outflow	(32)	(17)
Net working capital outflow ²	(391)	(264)
Net interest paid	(23)	(19)
Tax paid	(48)	(45)
Capex spend	(96)	(81)
Other	2	(8)
Free cash flow	(206)	(90)



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Excluding amortisation of acquired intangibles and restructuring impairments
Includes movements in provisions

Pgm refinery downtime impacted precious metal working capital

800 700 600 500 400 300 200 100 0 Sep-14 Mar-15 Sep-15 Mar-16 Sep-16 Mar-17 Sep-17 Mar-18 Sep-18

Precious metal (pm) working capital (£m)

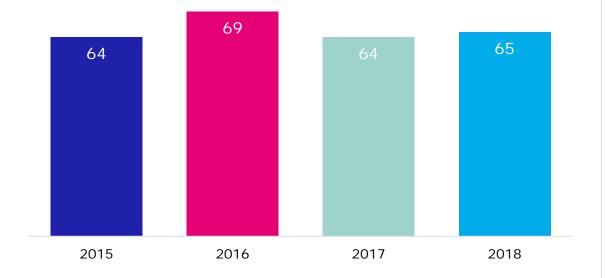
Pm working capital increased £267 million¹, mainly in pm inventory

Impact from pgm refinery downtime

• Expect a significant reduction in pm working capital by year end

Improvement in average non precious metal working capital days

Working capital days excluding precious metals, half year ended 30th September



Non pm working capital increased by £130 million¹

Working capital days broadly stable at 65 days compared to H1 17/18

Average working capital days down 2 to 61 days (reduction of 8 days over the last 18 months²)

2. 18 months to 30th September 2018, compared to the 12 months to 31st March 2017

Strong balance sheet, net debt to EBITDA 1.5 times¹

	£m	£m
Net debt at the beginning of the year		(679)
Free cash flow	(206)	
Dividends	(112)	
Movement in net debt before FX		(318)
Net debt before FX		(997)
FX		(39)
Net debt at the end of the period		(1,036)



Progressing on my three focus areas

Focus areas

Rigorous and transparent resource allocation

Disciplined management of working capital to drive continued strong cash

Drive increasing business wide efficiency

Progress

- ROIC lower due to UK pension asset¹
- On track to expand ROIC to 20% over the medium term

 Average non precious metal working capital days improved by 2 to 61 days

- Restructuring cost savings on track
- Procurement savings being delivered
- First site implementation of global IT system complete

Confident in our outlook

Operating performance towards upper end of previous guidance of mid to high single digit growth

Growth led by Clean Air as diesel share gains in Light Duty Europe continue to ramp

Improvement in average working capital days (excluding precious metals)

Capex up to £350 million



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Sustained growth and value creation through:

Science

Invest in our world class science and technology

Customers

Solving our **customers**' complex problems; lead in high margin, technology driven markets

Operations

Operate as a safer, more connected, agile and efficient global business

People Deliver through our great people



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Delivering long term shareholder value through:

Sustained growth in Clean Air

Market leading growth in Efficient Natural Resources



Break out growth in Health

Break out growth in Battery Materials



Mid to high single digit EPS CAGR

Expanding ROIC to 20%

Progressive dividend

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Confident of delivery in a changing world



Delivering on our strategy: Clean Air



Delivering a mid single digit CAGR sales growth over the next ten years with a broadly flat margin

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Delivering on our strategy: Efficient Natural Resources

Differentiated investment by segment and region	t Focused investment in R&D	Focus on efficiency	 nd our bilities	
Targeted investment in higher growth segments	Simplified product portfolio	Investing in pgm refine	newly	nercialising y developed hnologies

Delivering sales growth 1ppt above markets and operating profit growth 1ppt above sales growth

Delivering on our strategy: Health

Enhance performance of existing business	Expand new product pipeline and portfolio	to bet	capabilities ter support stomers	
Actions being taken to improve efficiency	Closure of Riverside Annan ramp up		Progressir product p	

Delivering break out growth

Health: Generic pipeline on track to deliver an additional c.£100m operating profit per year by 2025

Number of products¹ by expected launch date and value (Total products: 46)





1. Size of bubbles proportional to number of products

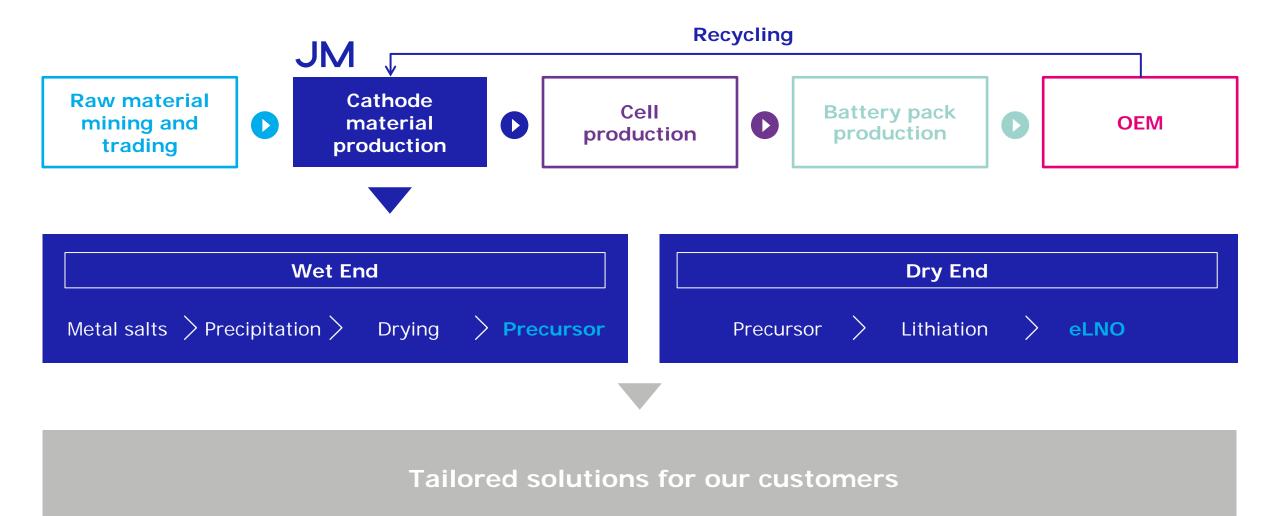
2. Current pipeline as at October 2018

Delivering on our strategy: Battery Materials

Technology leadership	Focus on ultra high energy density market	Successful scale up and commercialisation	
Increased R&D in eLNO	Customer samplin eLNO progressing	3	cialisation on track

Delivering break out growth

Battery materials: Differentiating in our production



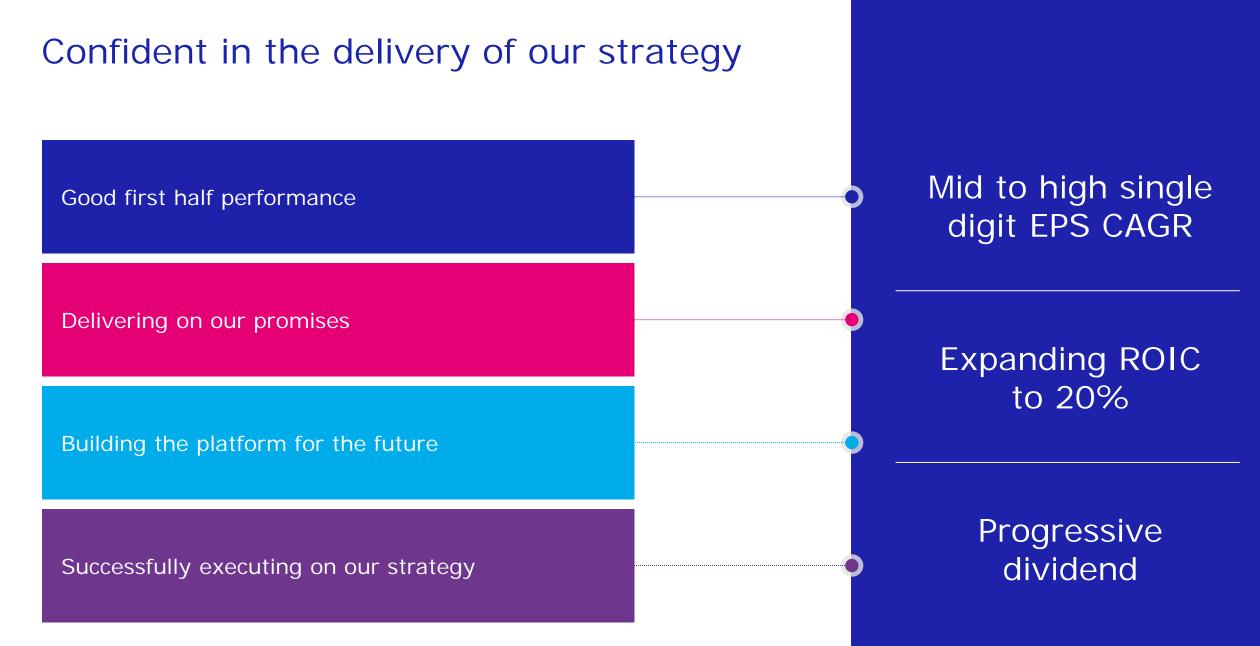
Battery materials: Commercialisation plans on track

Progress to date

- Developed best-in-class next generation battery material (eLNO)
- Positive feedback from customers
- Pilot plant operational
- Board approval for the initial investment in first commercial plant

Next 12 months

- Expand R&D team
- Progressing through qualification process with customers
- Start construction of commercial plant
- Investing in customer application centre (UK)
- Further build capital projects team



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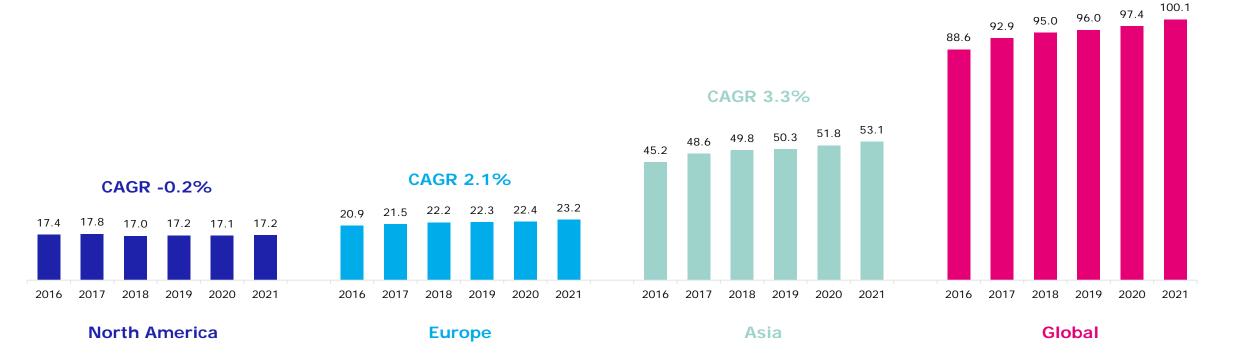
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Light duty emissions control legislation roadmap

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Europe	EU	EU 6b EU 6c / Euro			o 6d temp		Euro 6d final / 95 g/km CO ₂			EU 7?	
North America EPA	Tie	r 2			Tier 3 Phase In: NMOG + NOx, PM Tightening						
North America CARB	U	EV III Phas	se In: NMO(G + NOx, PM	1 Tightening			LEV III	Further Tig	ghtening	
Japan		JP09					JP	18			
South Korea (Gasoline)	K-ULEV			K-ULEV 70				LEV I	II / 97g/k	m CO ₂	
South Korea (Diesel)		EU 6b			EU 6c/ Eu temp					EU 7?	
China (Beijing & big cities)		BJ5	(EU 5)		China 6b non PN/non RDE		China 6b non RDE			China 6b /	' RDE
China (Nationwide)	China	4 (EU 4)		China 5 (E	U 5)		China 6a				
India	BS3	6 (EU 3)		BS4 (El	J 4)		BS6 (EU 6)			BS6 / R	DE
Indonesia (Gasoline)		El	J 2		EU 4						
Indonesia (Diesel)	EU 2			J 2	EU 4						
Thailand					EU 4					EL	J5
JM											32

Global growth in vehicle production

Light duty vehicle production outlook (million) Calendar years



CAGR 2.5%

Heavy duty diesel emissions control legislation roadmap

On Road

Europe

North America

North America (CARB)

Japan

South Korea

Brazil

Russia

India (Main Cities)

India (Nationwide)

China (Beijing & big cities)

China (Nationwide)

Non-road

EuropeImage: Second second

2015	2016	2017	2018	2019	2020	20	021	2022	2023	2024	2025
	EU VI									EU	VII?
		GHG Ph	ase 1					GH	G Phase 2		
		GHG Ph	ase 1			GHG Phase 2 CARB Ultra Low NO				ra Low NOx	
JPO	9					JP	P16				
				EU VI						EU	VII?
			EUIV			EU V?					
	EUIV			E	U V?		EU VI?				
			BSIV				BS VI		BS VI / PEMS		
BS I	BS III BS IV						BS VI		BS VI / PEMS		
	China V					Chi	ina VI a			China	VI b
	China IV Chi				/			China VI a		China	VI b

Tier 4b	Stage V				
Tier 4b		CARB/EPA	Reduced NO	x/PM?	
	Tie	r 4b			
Tier 4b	Stage V?				
Tier 3		Tier 4a? Tier 4b?			ier 4b?
Tier 3		Tier 4a(TBD)			Tier 4b?
Tier 3		Tier 4f Tier 5			

Heavy duty diesel vehicle production (regulated engines)

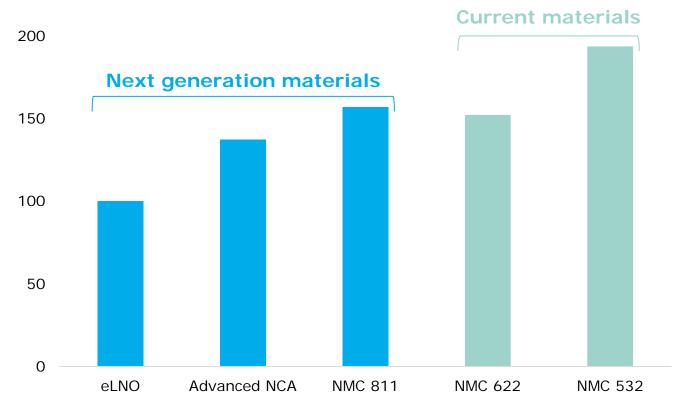
Heavy duty diesel vehicle (regulated engines) production outlook (thousands) Calendar years



eLNO has superior performance

\$ per kWh per cycle to end of useful life¹

(chart to scale, indexed with eLNO = 100)



Step change in energy density from current materials

Lower cobalt content than current materials

Lower \$ per kWh per cycle than current and future materials¹

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 Cost per kWh to 80% retention. Results based on third party testing performed by Qinetiq, 2018. Electrochemical data from Qinetiq benchmark testing, cost data from JM. Electrochemical data extrapolated to 30Ah cell level

eLNO: Commercialisation on track

Stage Validation		A sample	B sample	C sample	Battery cell in productio		Nodel in oduction
Summary	Early testing	Basic performance	Extended performance: basic plus safety, life performance	Full-scale functionality			
Volume Required	kgs	< 10t	c.200t	c.300t			
JM Supply	kgs	Pilot plant	Demo plant	Commercial plant			
Timing		c.12-18 months	c.12 months	c.12 months			
Calendar year		2019	2020	2021			
	Today			Start of con produc in 202	ction	in pro	ng platforms duction in 22/23