

Agenda

AB Dynamics today

Highlights

Financial results

Business review

Strategy update

Summary and outlook



Dr James Routh, Chief Executive Officer



Sarah Matthews-DeMers, Chief Financial Officer

AB Dynamics today

Track Testing Products & Services



- Driving Robots
- ADAS testing platforms
- Advanced track testing software
- ADAS testing dummies
- Track testing services
- Road based vehicle evaluation

70% of revenue

Laboratory Testing and Simulation

Simulation



- · Full motion driving simulators
- Static simulators
- Physics based simulation software for ADAS, autonomy and sensor integration

Laboratory Testing Equipment



- Suspension Parameter
 Measurement Machine (SPMM)
- Large scale machine used to evaluate vehicle kinematics and compliance
- Steering testing systems
- Suspension NVH testing systems

30% of revenue

ABD Solutions



- Diversification into mining, defence and specialist vehicles
- Conversion of off-highway equipment to automated function
- Technology development largely complete

Diversification

Vehicle development end to end toolchain

Highlights

Dr James Routh, Chief Executive Officer

Continued strong financial performance, strategic progress and sustainable growth



Adjusted* operating profit £7.8m

+37%

Adjusted* diluted EPS

27.5p

+38%

Adjusted* operating margin

15.9%**

+80 bps

Net cash

£21.3m

EBITDA*

+32%

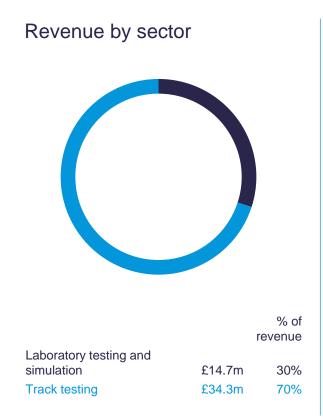
£9.6m

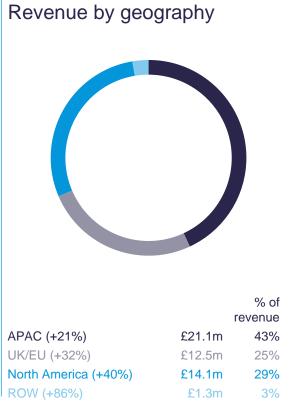
^{*} Before amortisation of acquired intangibles, acquisition related charges and exceptional items.

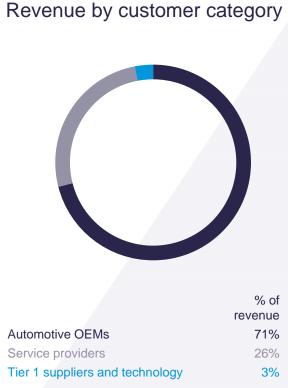
^{**} Excluding the investment in ABD Solutions, the operating margin was 18.0%.

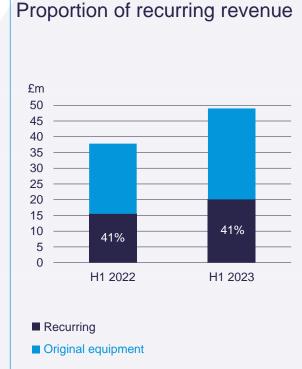
Results overview

H1 2023 revenue of £49.0m +30%









Financial results

Sarah Matthews-DeMers, Chief Financial Officer

Highlights

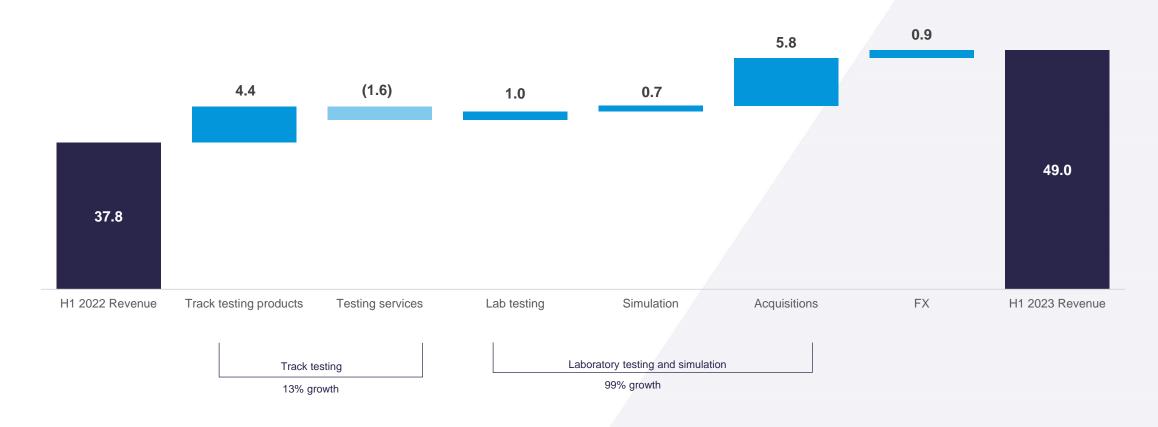
	H1 2023	H1 2022	Change
Revenue	£49.0m	£37.8m	+30%
Gross margin	57.1%	57.7%	-60 bps
EBITDA*	£9.6m	£7.3m	+32%
Adjusted* operating profit	£7.8m	£5.7m	+37%
Adjusted* operating margin	15.9%	15.1%	+80 bps
Adjusted* profit before tax	£7.6m	£5.5m	+38%
Adjusted* tax charge	£1.3m	£1.0m	+30%
Adjusted* tax rate	16.5%	18.0%	-150 bps
Adjusted* diluted earnings per share	27.5p	19.9p	+38%
Cash flow from operations*	£9.5m	£8.5m	+12%
Cash conversion	99%	116%	
Net cash	£21.3m	£27.7m	
			/

- Growth in organic revenue across both laboratory testing and simulation and track testing
- Gross margin reduction due to higher proportion of laboratory testing and simulation revenue
- Operating margin improved by 80 bps as a result of increased activity levels and operational improvements offset by the continued investment in ABD Solutions
- Significant net cash at period end of £21.3m after funding the initial consideration for the acquisition of Ansible Motion

^{*} Before amortisation of acquired intangibles, acquisition related charges and exceptional items.

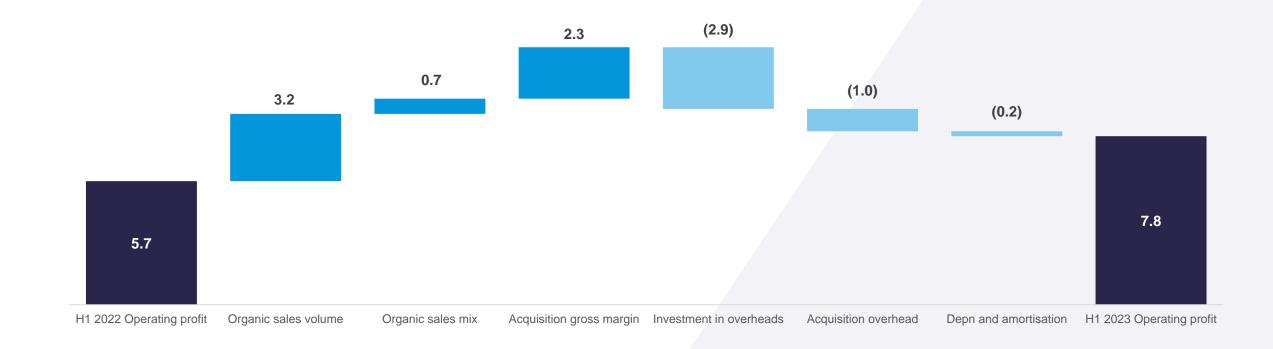
Revenue

£m



Operating profit bridge

£m



Net cash bridge

£m



^{*} The cash impact of the acquisition of Ansible Motion and the working capital movement has been adjusted to exclude settlement of a £2.1m bonus for pre-acquisition service to employees of the acquired entity which was funded by the previous owners.

Constant currency

H1 2023 Constant currency analysis	H1 2023 As reported £m	H1 2023 Restated at 2022 rates £m	H1 2022 £m	Change %
Revenue	49.0	48.1	37.8	+27
Adjusted operating profit	7.8	7.7	5.7	+35
Average exchange rate US\$ Euro Yen	H1 2023 1.19 1.14 164	H1 2022 1.35 1.19 154		
Sensitivity analysis	% of revenue	10% movement impact on revenue £m	10% movement impact on operating profit £m	
US\$	20%	0.8	0.1	
Euro	22%	1.0	0.2	
Yen	13%	0.6	0.1	
Total	55%	2.4	0.4	

[•] Future guidance based on \$1.20, €1.15, ¥165

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AB Dynamics plc Interim results presentation – 25 April 2023

Financial summary

- Strong revenue and profit growth despite macroeconomic challenges
- Operating margin improvement pre investment in ABD Solutions
- Our robust balance sheet enables investment in continuing to strengthen the business
- Acquisition of Ansible Motion delivering as expected

Cash conversion

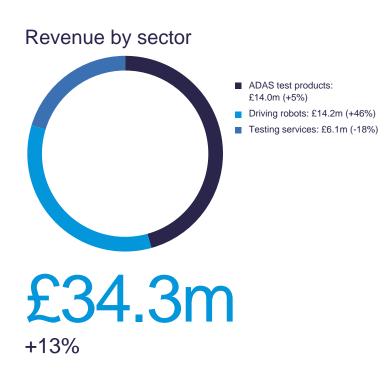
99%

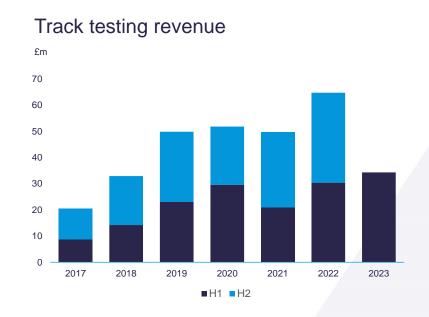
Operating margin excluding ABD Solutions

18.0%

Business review

Track testing



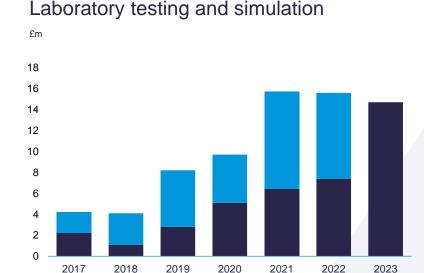


Highlights

- Market drivers continue to support track testing activity levels
- Strong growth in driving robots with moderate growth in ADAS test products
- Weaker performance in testing services due to contract delays in US and China lockdowns
- Market launch of new LaunchPad Spin product and SM360/SP360 ADAS target products
- New simplified track testing software for NCAP applications
- Operational facilities development at California based test track

Laboratory testing and simulation





■H1 ■H2

Highlights

- Very strong growth in simulation driven by contribution from Ansible Motion and a very good performance at rFpro
- rFpro released Ray Tracing capability for simulation software
- Development of Alpha simulator technology on schedule
- Successful integration of Ansible Motion, performing well and in line with expectations
- Laboratory testing revenues increased strongly due to delivery of large SPMM contracts and strong order backlog

Strategy update

Strategy

Our purpose

We accelerate our customers' drive towards net zero emissions, improving road safety and the automation of vehicle applications through leadership and innovation in engineering and technology.



Building a broader based business to drive sustainable growth

Progress against strategic priorities





Product and innovation

- LaunchPad Spin development complete and ready for market launch
- Motorcycle and articulating pedestrian ADAS dummies launched and awaiting certification
- Launch of new simplified ADAS track testing software solution
- Durability testing system developed and launched
- rFpro Ray Tracing technology launch
- Alpha simulator product development continues as per plan





Capability and capacity

- Operational improvement programme delivering good results in quality and delivery performance
- Rationalisation of UK manufacturing sites into Bradford on Avon completed
- New track and laboratory testing services facility nearing completion in California
- ERP system go-live in UK successfully delivered





Diversification

- ABD Solutions technology development on plan and de-risked
- Delivery of Japanese R&D contract on schedule
- Numerous commercial opportunities with a particular focus on mining and port operations
- Signed MoU with Jevons Robotics in Australia
- Additional £1m contract for construction applications for a UK based customer





Acquisitive growth

- Acquisition of Ansible Motion completed September 2022
- Integration of Ansible Motion complete and performing in line with expectations
- Good pipeline of further value-enhancing acquisitions

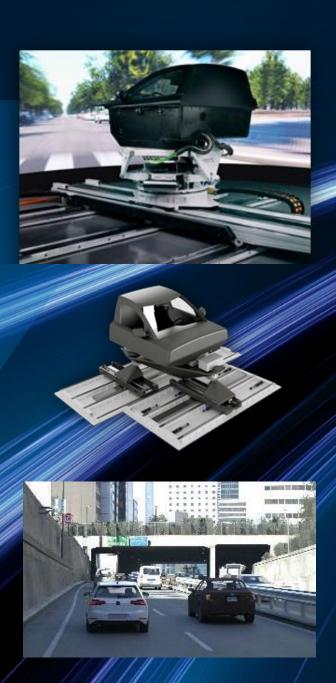
AB Simulation progress

Integration of Ansible Motion and AB Dynamics simulator business

- Single simulator business with critical mass, expertise, experience and product range to lead the global market
- Reviewing UK facilities requirements to deliver anticipated growth
- Integrated, single coherent product offering to meet customers' use cases and budgets
- Development of Alpha range with world-class dynamic performance and an efficient spatial footprint
- Building strategic global partnerships in North America and Asia Pacific

Developments in simulation software

- rFpro's new technology significantly reduces dependence on real-world testing for the development of AVs and advanced future ADAS
- State-of-the-art ray tracing rendering delivers ultra-high fidelity and realistic simulation, designed to feed the perception systems used in AVs and simulating how vehicle sensors "see" the world
- Scalable "pay as you go" HPC solution in development



ABD Solutions progress

- Mission to accelerate the automation of vehicle applications with a focus on mining, defence and specialist vehicles
- Technology programme on track including development of new robotic hardware and the Indigo Drive user interface
- Digital twin developed which provides operational environment validation and a platform for accelerated product testing
- Japanese mining R&D contract delivering as per plan
- New contract for construction industry applications for UK based customer
- Signed Memorandum of Understanding with Jevons Robotics in Australia for mining applications
- Focus on transition from technology development to commercialisation with negotiations ongoing around mining related contracts and scaling up the commercial team
- Strong pipeline of commercial opportunities in mining, specialist vehicles and port applications although timing remains uncertain



Capital allocation framework to deliver sustainable compounding growth as well as growing returns to shareholders

Continuous organic investment and innovation to protect and grow core business

Organic investment into
ABD Solutions driving growth
in adjacent markets by leveraging
core technology

Disciplined approach to investment, returns and capital efficiency

Complementary acquisitions contributing to one or more of the Group's stated strategies

4 Progressive dividend policy

AB Dynamics tomorrow

Organic growth



- Organic growth driven by regulation and rapid technology change
- Continuous new product development drives organic revenue growth
- Operating efficiencies drives margin expansion over the medium term

ABD Solutions



- Transitioned from technology to commercialisation
- Significant market opportunity
- Opportunity to diversify the business and drive strong organic revenues

Simulation



- Significantly enhanced simulation and software capabilities
- Expanded product range created through the acquisitions of rFpro and Ansible Motion
- Continued technology investment will drive organic growth

Strong financial position



- Well capitalised providing scope for further value-enhancing growth investment through:
- Technology and New Product Development
- Carefully selected acquisitions

Sustainable growth, margin improvement and value creation

Summary and outlook

Summary and outlook

- Strong revenue and operating profit growth of 30% and 37% respectively
- Particularly strong performance in Laboratory Testing and Simulation
- The Group has a solid order book providing visibility into H2 2023
- Continued investment in new product development, capabilities and operational improvements
- ABD Solutions delivering as per plan and transitioning from technical development to commercialisation
- Post-acquisition integration of Ansible Motion successfully completed and delivering in line with expectations
- Outlook
 - Long-term structural and regulatory growth drivers remain supportive of continued growth
 - Continued trading momentum provides confidence for H2 2023
 - Strong balance sheet supports continued investment in innovation and value-enhancing acquisitions



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Appendix

Alternative performance measures

	Cash flow impact			
	H1 2023 £m	H1 2022 £m	H1 2023 £m	H1 2022 £m
Amortisation of acquired intangibles	3.7	2.7	_	_
Acquisition related costs	0.4	_	0.4	_
ERP development costs	0.8	0.5	0.8	0.5
Acquisition related finance costs	0.8	_	-	_
Acquisition related bonus payment	_	_	2.1	_
Total adjustments to profit before tax	5.7	3.2	3.3	0.5

Balance sheet

	H1 2023 £m	FY 2022 £m
Goodwill and intangibles	76.6	50.5
Property, plant and equipment	27.1	26.6
Fixed assets	103.7	77.1
Working capital	9.3	9.3
Asset held for sale	1.9	1.9
Net cash	21.3	29.2
Net current assets	32.5	40.4
Tax liabilities	(9.1)	(5.5)
Deferred consideration	(11.2)	
Net assets	115.9	112.0

- Balance sheet remains robust demonstrating the Group's resilience to macroeconomic pressures
- Significant cash resources enable continued investment in growth opportunities, NPD and infrastructure
- Net cash position allows the Group to focus on its strategy for long-term sustainable growth
- Revolving credit facility extension to February 2026

Simulator product range

Static Simulators

Theta Seat

Entry level simulator with active steering and brake for early model development



Theta Cube

Extremely high-quality self-contained transportable simulator



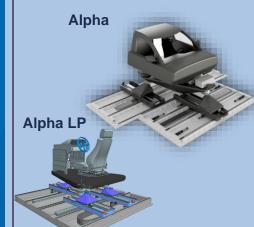
Sigma Series

Fully immersive static simulator, featuring a real or replica vehicle cockpit and projection vision system



Dynamic Simulators

Under development



Alpha Series

New range of high frequency, low latency simulators currently under development. Designed to address the gap in the portfolio for competitively priced high-dynamic performance and low latency simulators

Delta S3

High fidelity simulator with exceptionally large motion envelope for sustained cueing (featuring +/-180° yaw and scalable surge and sway)





Delta S3 Variants

High payload 1,000 Kg Extended travel 10m x 10m Multi-turn Yaw (>360°) Motorbike version



aVDS

High dynamic response simulator primarily for motorsport applications with a pedigree from F1



aVDS HP

High dynamic response simulator with high payload capability (700 Kg) for automotive applications

Highly targeted acquisitions remain an important part of our value creation strategy

Approach



- The market in which the Group operates for acquisitions is relatively large and fragmented
- The Group is active in identifying opportunities within the existing core automotive market, in addition to adjacent market sectors
- Any acquisition made by the Group should contribute to one or more of the Group's stated strategic priorities and should be value enhancing

Evaluation



- Central resources to drive strategic development and specifically acquisitions
- Businesses should have a track record of sustainable revenue growth and strong gross margins, indicating a competitive market position with differentiated products and/or services
- Hybrid model of acquisitions operating as independent businesses whilst exploiting the synergies of being part of a larger Group

Progress



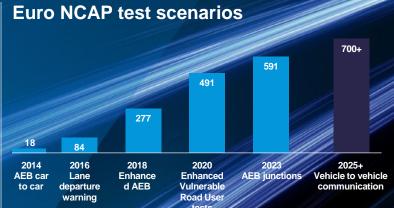
- Average of one acquisition delivered per year between FY 2019 and FY 2023
- Acquisitions to date are rFpro (simulation software), DRI (track testing), VadoTech (testing services) and Ansible Motion (DiL simulators)
- Good long-term pipeline of promising acquisition opportunities

Compounding organic growth through carefully selected, value-enhancing acquisitions

Regulatory growth drivers

- Product development driven by future test scenarios
- Euro NCAP roadmap 2025-2030 launched:
 - New tests for automated driving functions
 - Enhancements to vehicle safety assist functions
 - The inclusion of testing of heavy trucks, expanding the newly introduced commercial vehicle rating scheme
 - Additional and enhanced categories of test targets to complement diversity in road users and increased sophistication of sensors





Regulatory growth drivers continued

Roadmap 2026–2032

	2026 2029 2032
Safe Driving	
M1 Beyond Intelligent speed assistance	
M2 Driver Awareness: impaired driving to cognitive distraction	
M3 AD Grading: Domain extension and driver engagement	
Crash Avoidance	
M4: Improved robustness and real-world effectiveness	
M5: Leveraging vehicle connectivity	
M6: Pedal misapplication	
Crash Protection	
M7: Senior protection: low severity testing with sled	
M8: Far-side and side pre-crash incentives	
M9: Protection equity through modelling	
M10: Whiplash protection parity	
M11: Passive VRU protection – A-pillar and micro-mobility	- -
Post-Crash Protection	
M12: Nest-gen updates including D-call and thermal scanning	



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