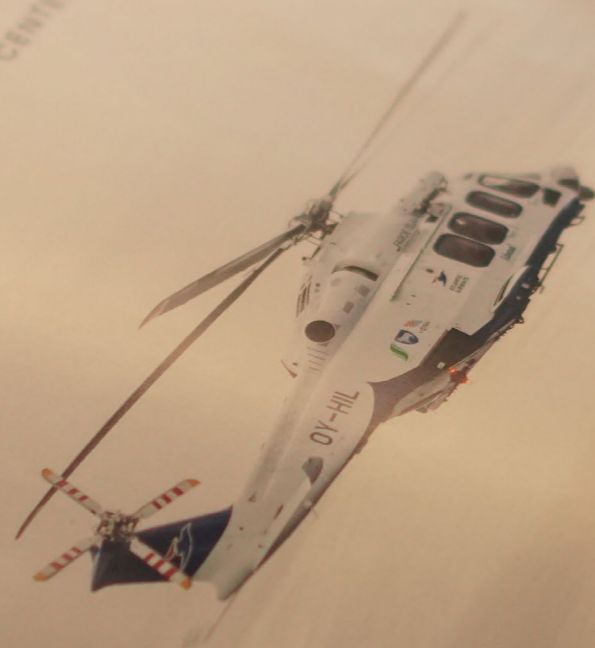


REVOLUTIONISING
AVIATION TRAINING WITH PRECISION AND
INNOVATION

 **VISUALSKIES**
THE VIRTUALISATION STUDIO

STATE OF THE ART

AW139 SIMULATOR CENTER



OPENING IN 2024

[atlanticairways-academy](https://atlanticairways-academy.com)

THALES | ATLANTIC AIRWAYS

ATLANTIC AIRWAYS VIRTUAL AVIATION: LIFTING TRAINING STANDARDS



CAPTURE
CREATE
EXPERIENCE

CLIENT

Atlantic Airways

SECTOR

Aerospace & Aviation

ROLE

Commissioned by Atlantic Airways, Visualskies utilised a fusion of photogrammetry, LiDAR, and structured light scanning techniques to generate highly detailed, millimetre-accurate scan data for their Leonardo AW139 helicopter. This data serves as a valuable resource for simulator training purposes and is hosted on an interactive online viewer, provided by Visualskies, enhancing accessibility and providing a user-friendly platform for immersive exploration and analysis.

[EXPLORE MODEL HERE](#)



SCANNING FACT SHEET LEONARDO AW139

It was critical that there was minimal downtime for the helicopter rescue service during the digitisation process. Visualskies worked with Atlantic Airways to create a capture methodology that ensured that there was no downtime at all. A number of capture methodologies were employed to guarantee that all the essential elements of the aircraft were captured in the highest possible detail.

DATA FUSION

Integrated approach: Combining photogrammetry, LiDAR and structured light scanning data into a single, cohesive dataset.

Enhanced detail: Each technology contributes its strengths, resulting in comprehensive and detailed 3D models.

Seamless workflow: Efficiently merging data from multiple sources to ensure a seamless and accurate final output

ACCURACY

Millimetre precision: Achieving millimetre-level accuracy in the final scan data

Validation techniques: Implementing rigorous validation processes to ensure data integrity and reliability

Consistent quality: Maintaining high standards of accuracy across all stages of data capture and processing

SOFTWARE

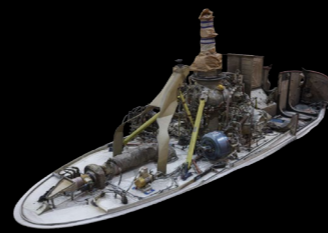
Advanced processing: Utilising cutting-edge software tools to process and refine the captured data

Visualisation and analysis: Interactive online viewer for user-friendly exploration

Automation and efficiency: Automated processes streamline data integration



01. Tail Rotor



02. Gear Box



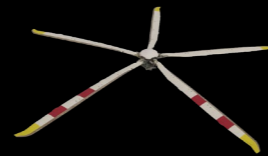
03. Tail



04. Engine



05. Rear Compartment



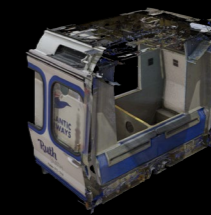
06. Main Rotor



07. Open Top Hatches



08. Cabin



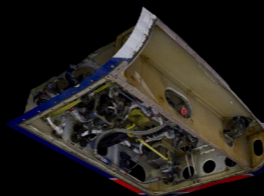
09. Fuel Tanks



10. Cockpit



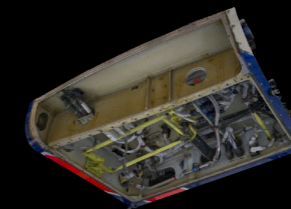
11. Nose with Instrument



12. Bottom Hatch (R)



13. Compartment Hatch



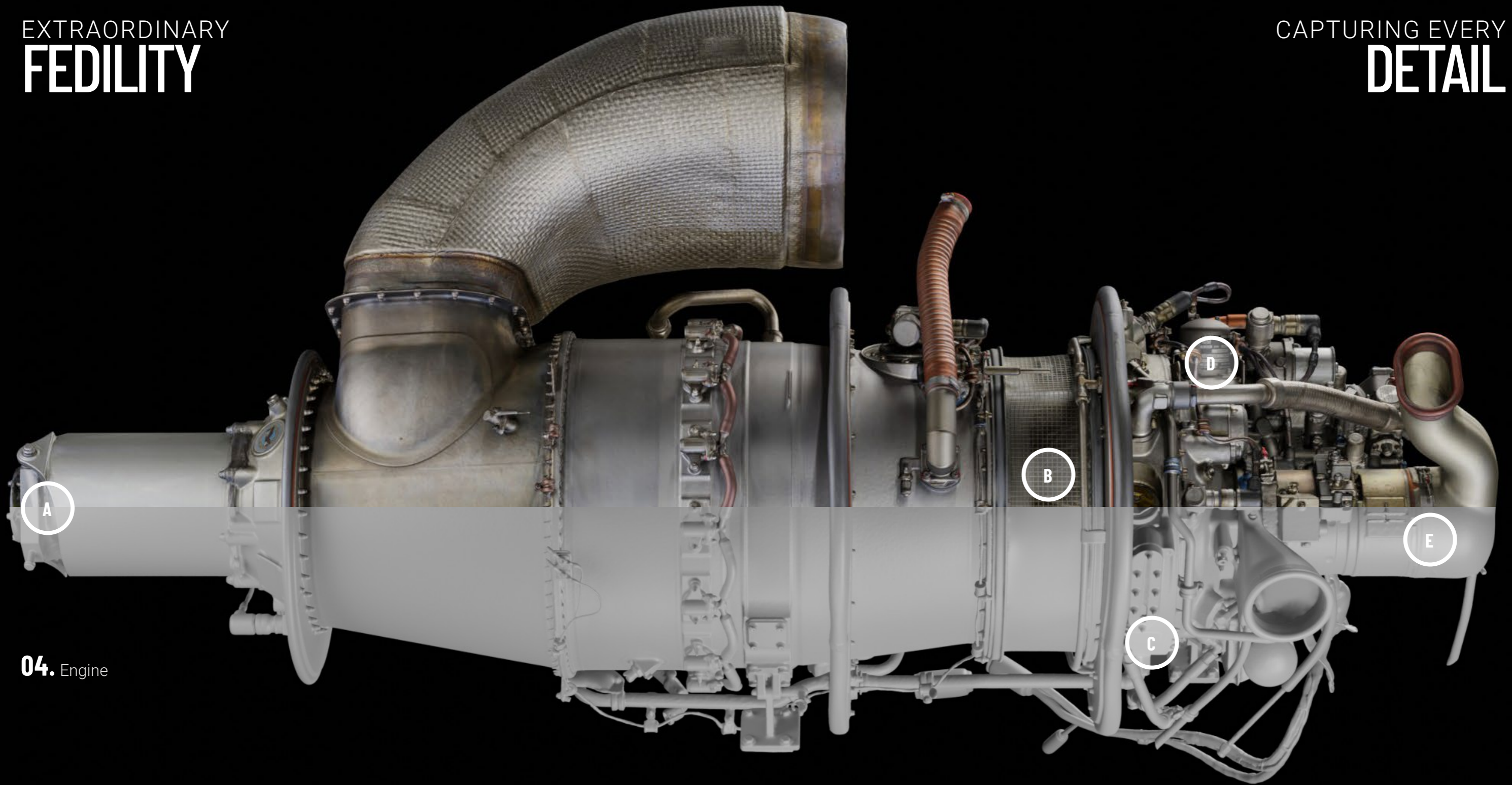
14. Bottom Hatch (L)



15. Whole Aircraft

EXTRAORDINARY
FEDILITY

CAPTURING EVERY
DETAIL



04. Engine



A. Removable components



B. Occluded areas



C. Connections



D. Labels and certificates



E. Damage and surface defects

SCANNING EXPERIENCE SHEET INTERACTIVE VIEWER



**CAPTURE
CREATE
EXPERIENCE**

Visualskies designed and installed a 43" touchscreen stand in Atlantic Airways headquarters, allowing the team to give a more dynamic review of the aircraft without needing to take it out of service.

The data is hosted on Visualskies secure online viewer platform allowing us to maintain and update sections as required.

INTERACTIVE ONLINE VIEWER

User-friendly interface: Intuitive design for easy navigation and exploration of 3D scan data

Interactive features that enhance user engagement and functionality.

FUTURE APPLICATIONS

Beyond simulation: Utilising scan data for maintenance planning and engineering analysis

Innovation in aviation: Potential for advancing design and safety standards through detailed scans

Customer engagement: Enhancing client interactions with immersive visualisation and analysis tools

WATCH MARKETING VIDEO HERE



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