



AI Execution Platform for Aviation & Space MRO

Transforming fragmented maintenance data into automated digital job cards, real-time release evidence, AR-guided work instructions, and NDT procedure best-practices.

SemantiSys AS | Investor Presentation



The Problem: Compliance Delays Destroy Margin



Fragmented Technical Data

PDFs, S1000D, ATA100, ERP records, and legacy maintenance documents are siloed and must be manually reconciled by engineers.



Wasteful Manual Compliance Evidence

Engineers spend a significant portion of shop-floor hours when building work packages, collecting signatures, logging steps, and reconciling compliance forms manually.



Disconnected Shop Floor

Parts reception, cycle counts, tool tracking, and point-of-work checks lag behind physical aircraft movement, triggering costly ground delays.

SemantiSys Solves the Problems

SOLUTION ARCHITECTURE

INGEST

1. Ingest Data Silos

Parses PDFs, iSpec2200, S1000D, ERP manifests, and historical maintenance logs automatically utilizing omnivorous multi-mode ingestion.

GENERATE

2. Generate Actionable Artifacts

Creates automated digital job cards, release evidence templates, compliance context, NDT recommendations in-task, post-task QA and exact part requirements.

EXECUTE

3. Execute at Point of Work

Delivers interactive AR work instructions, real-time parts verification, instant cycle counts, and digital audit trails.



The Business Case For SemantiSys

Accelerated Release

Up to 50% faster Work Prep

Automated compilation of job cards and compliance evidence eliminates prep and turnaround bottlenecks, returning aircraft to service faster.

Error Elimination

Lower Compliance Risk

Eliminates missing documentation, incorrect part numbers, and compliance errors during parts reception and shop execution.

Immediate Adoption

Seamless ERP and MMS Fit

Direct integration into existing maintenance applications allows operators to transition from demo to paid pilots rapidly.

Our Competitive Advantage

Capability	Generic AI & Legacy Software	SemantiSys AI Platform
Domain Specialization	Generic LLMs with zero MRO domain context	✓ Built for ATA100, S1000D & Aviation Regulations.
Data Ingestion Depth	Manual file conversion and text-only OCR	✓ Multi-modal ingestion of complex manuals and schematics
Shop Floor Execution	Static web portals disconnected from technicians	✓ Interactive AR-guided step-by-step instructions for maintenance and NDT.
Audit & Compliance Trail	Post-facto manual record compilation	✓ Real-time automated release evidence generation
Hallucination Prevention	None: LLM output taken at face value	✓ 210 adversarial queries tested, 100% safely handled

Early Market Traction in Aviation MRO

EARLY TRACTION

Leading MRO Operator

- **Demo 1 Completed:** Technology demonstrator delivered to leading European MRO operator (September 2026)
- **Pilot** discussions initiated with positive feedback on execution and verification.
- **Commercial Pipeline:** Transitioning towards multi-facility paid pilots and expansion contracts.

Production-deployed MVP

Cloud-deployed, benchmarked, customer-validated MVP

Strong Inbound Interest

Expansion meetings booked for Q4 2026 across Europe and Asia-Pacific

Market Size & Strategic Growth Horizons

TAM: Global Aviation MRO Demand is ~€106B in 2026, expanding to ~€136B by 2035 | SAM: €500M+ ARR

HORIZON 1 (NOW)

Commercial Aviation AI

Focus on regional and international airline MRO compliance, task automation, and shop-floor execution.

SOM: €25M ARR

HORIZON 2 (+3 YEARS)

Enterprise Airline Fleets

Global enterprise airline contracts, standardized across multi-country fleet operations and overhaul centers.

SOM: €150M+ ARR

HORIZON 3 (+7 YEARS)

Defense & Heavy Industry

Expanding platform capabilities to military aviation, maritime fleets, and complex heavy industrial assets.

SOM: €500M+ ARR

Triple-Use Potential: Civil Aviation, Defense & Space



1. CIVIL AVIATION COMMERCIAL MRO

- ✓ AR-guided maintenance workflows for commercial aircraft & passenger fleets.
- ✓ Dramatically cuts Turnaround Time (TAT) and prevents Aircraft-On-Ground (AOG) delays.



2. DEFENSE & MILITARY S1000D / NATO NATIVE

- ✓ Native S1000D & NATO compliance for defense aircraft maintenance.
- ✓ Accelerates military fleet readiness using hands-free AR smart glasses in the field.



3. SPACE & ESA BIC SPACE ASSET MRO

- ✓ Applied to ESA BIC (European Space Agency Business Incubation Centre).
- ✓ Extending AR procedural guidance to satellite assembly, launch prep, and orbital ops.



Financial Model & Growth Projections

Metric (in '000 EUR)	2026	2027	2028	2029	2030
Total Customers	2	3	6	14	34
Revenues	0	170	400	905	2,160
Headcount (FTE)	2	4	6	9	15
Expenses	-75	-380	-575	-900	-1,550
Operating Cashflow	-75	-210	-175	5	610
Operating Margin	N/A	N/A	-44%	0%	28%

Experienced Aerospace & AI/SaaS Leadership



Kris Weylo

CEO & Founder

M.Sc. Technical Communication. Led aircraft maintenance digitization projects at IAF. Mission-critical delivery in regulated aerospace and AI application development.



Under negotiation

Chief Operating Officer (COO)

Revenue operations and customer success leader. Scales early-stage AI/SaaS teams, building end-to-end operational systems and SOPs. Strong Aerospace Maintenance background.



Oscar Andersson

Chief Technology Officer (CTO)

Enterprise SaaS and AI leader with proven expertise deploying production multimodal LLMs, robust cloud infrastructures, and immersive AR platforms to accelerate business growth.

The Ask: Pre-Seed Funding Round

FUNDING STRUCTURE

€300K Pre-Seed

at €2.5M Pre-Money Valuation

Matched by grant and co-funding sources:

- €85K: Innovation Norway Grant
- €85K: Validé Fund Investment
- Norwegian R&D tax credit program

Runway & Capital Efficiency

18 Months Execution Runway

Secures the platform transition from Pre-Seed to Seed round within 14 to 18 months.

Key Milestones Fueled

- Achieve perfect Product-Market fit.
- Convert demos and pilots into paid subscription contracts.
- Expand sales pipeline into Global Civilian and Defense MRO.



Thank You!

Join us in transforming civil aviation, space and defense MRO execution.

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