

Military Aircraft Services

DEFENCE AND SPACE

04 November 2019





Bringing our performance to the next level

20+

Sites across the globe

35+

years of experience

28%

of Airbus military Aircraft business in 2018 came from services

1,6 € Bn

2018 revenues





Our model

Tailored packages to meet each Customer's specific operational needs & ensure smooth transition from Entry Into Service (EIS) to Full Operational Capability (FOC)

ENTRY INTO SERVICE (EIS)

A/C acquisition

Initial provision of spares

- Ground support equipment
- Airport tools
- Handling & servicing
- Operational & maintenance manuals
- Field Service Representative
- OEM support engineering (AMTAC)

SUSTAINMENT SUPPORT MODEL SELECTION

Services set up

- Before fleet Initial
- Operational Capability
- For sustainment after EIS
- Ensure mission readiness @ required level
- Build on top of Through Life Support (TLS – serving as minimum OEM support to A/C Operator)

IN-SERVICE SUPPORT

A/C life cycle







On demand services as an alternative











A400M Global Support Step II

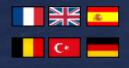
6 Operators

4,5 years of contract duration

119 A/C 65 A/C for spares availability

181 K Flight Hours 105 K spares availability

Services



Technical & Engineering support

Ground Support

Devices services (GSD)



Maintenance services

In Service Security

services



Data (TID)

Ð

Technical Information

support

Airworthiness



management services





A400M Global Support Step II: 360° Full In-Service Support



Extended **Commitment** between Industry, OCCAR and the Nations, continuing the long-term solution started in Step I.



Complete integration of **Resources & Assets**, exploiting synergies between Industry activity and the Providers / Customer operation.



A cost-effective **Performance Based Solution**: all services are geared toward achieving specific Fleet Availability operational requirements.

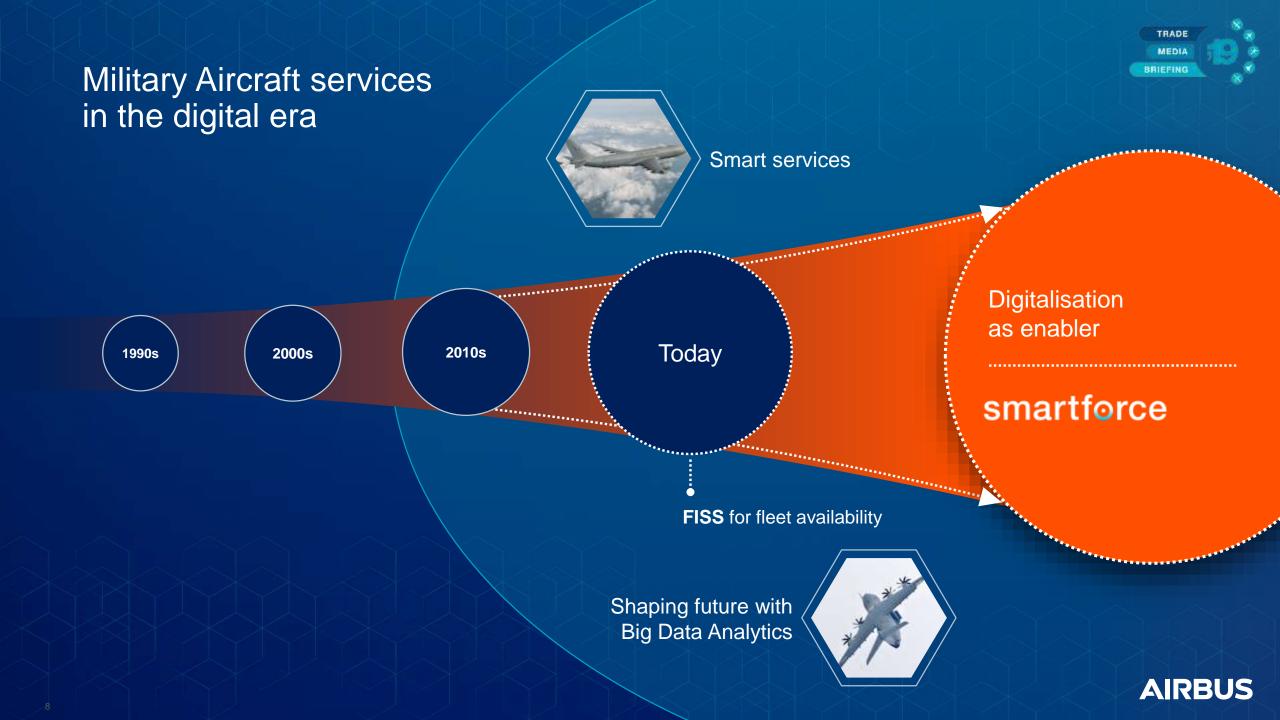


A **Modular** service permitting tailored National solutions, as per specific operational requirements.



Transparency and enhanced competitiveness, thereby providing the best Value for Money.







smartforce



Reduce maintenance effort



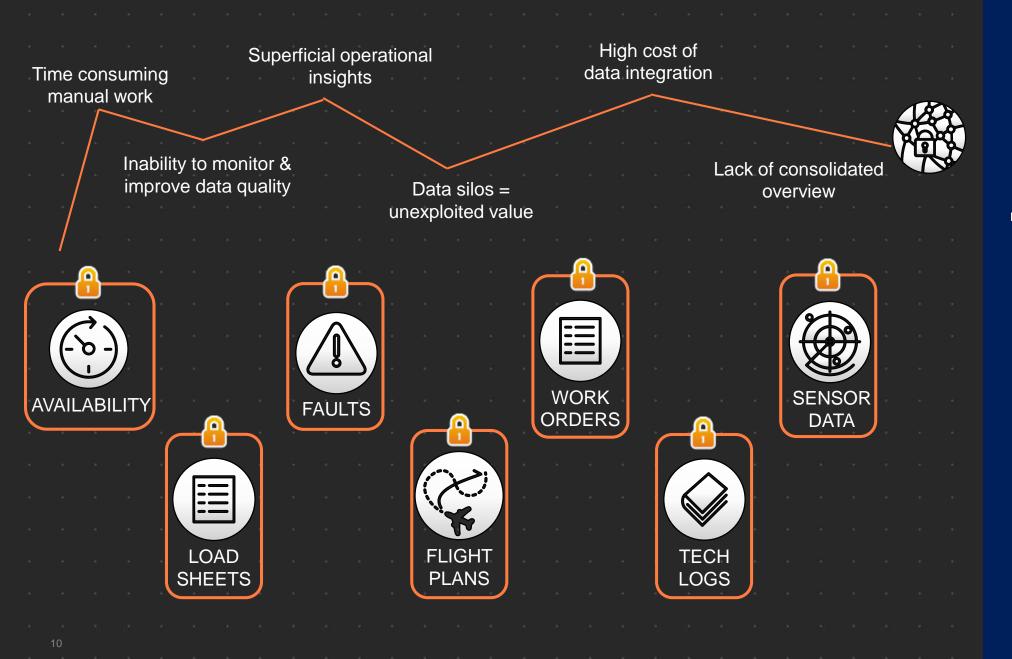
Increase mission readiness



Increase fleet availability





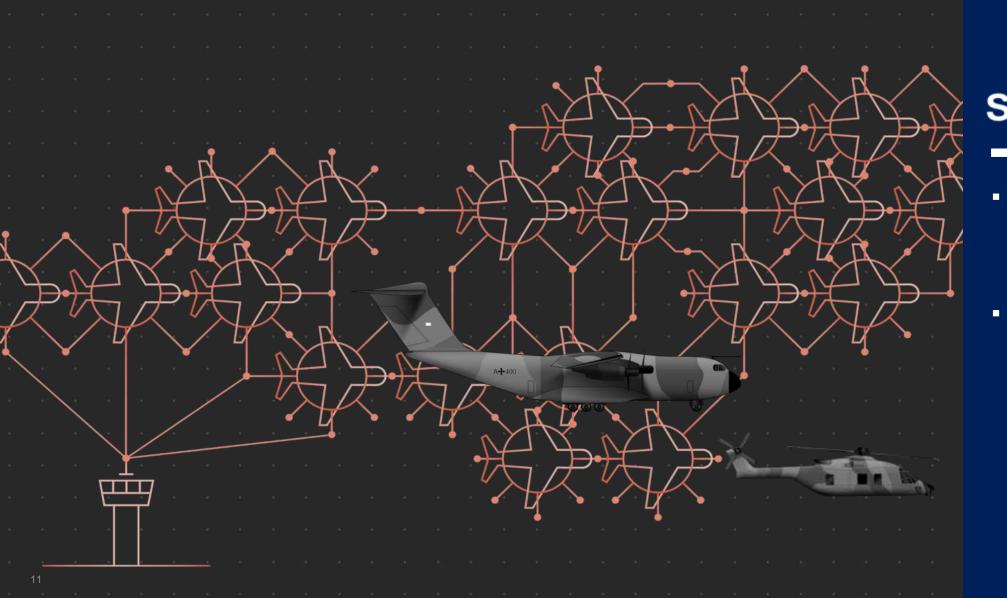


Data Silos

- Massive amounts of data available but not fully exploited to the benefit of governmental Operators
- Preventing insights & meaningful impact on:
 - Operational execution
 - Resources efficiency
 - Safety



The future of fixed and rotary wing military aircraft



smartforce

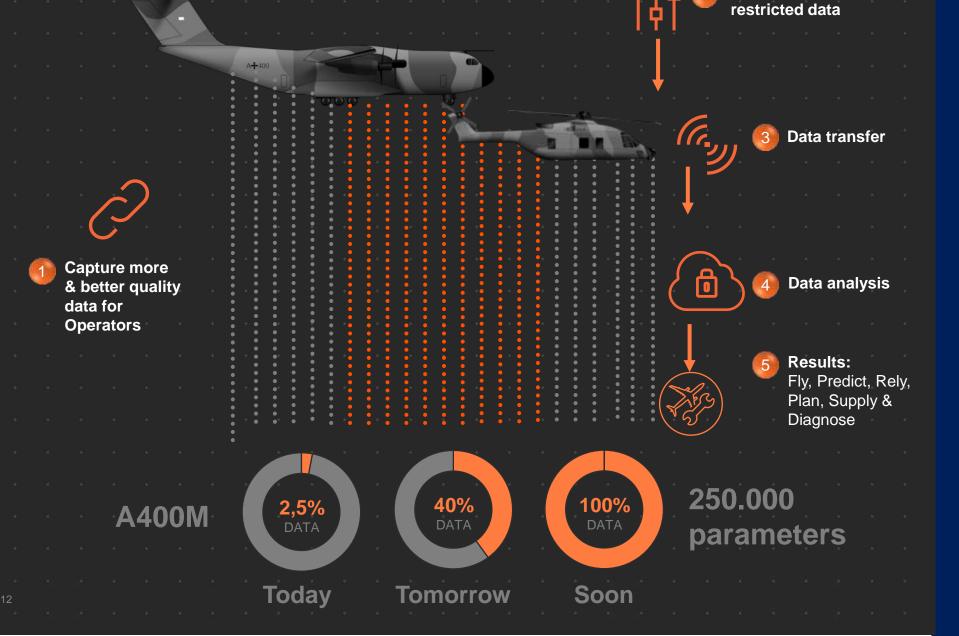
- By linking data silos together, governmental Operators gain crossfunctional visibility
- Extract valuable information to increase efficiency & mission readiness



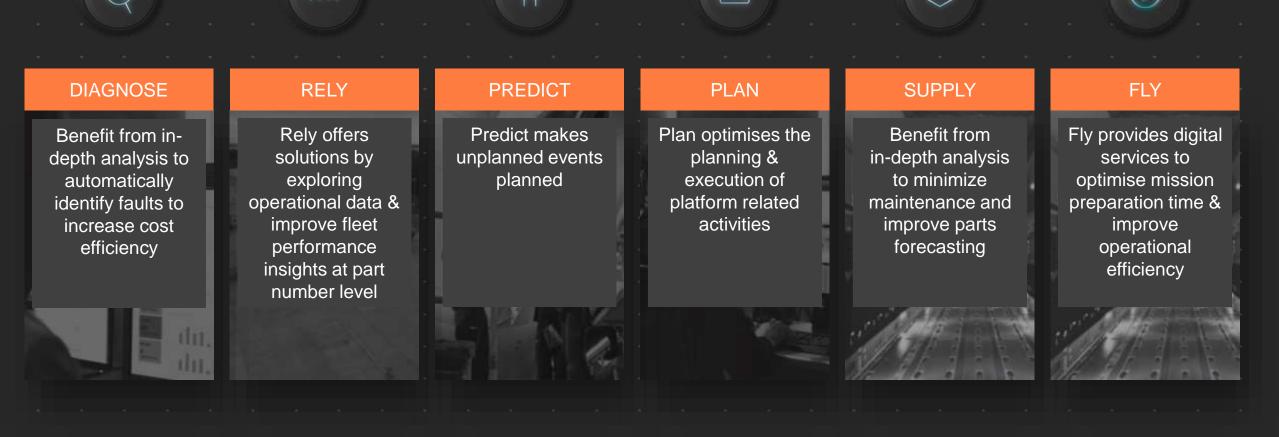
Data recording

Filter sensitive &

Multiplatform stateof-the-art system maximizing commonalties & ensuring real big data analytics onboard & off-board



Broad range of services



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MEDIA



Joint Cooperation world-wide







Airbus & Singapore to co-develop digital services for military aircraft



Early Adopter Program



German Air Force

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Spanish Air Force



Austrailian Air Force





SmartForce in the German Air Force



Plan

Services will expand the capabilities of the German Air Force

Applicability





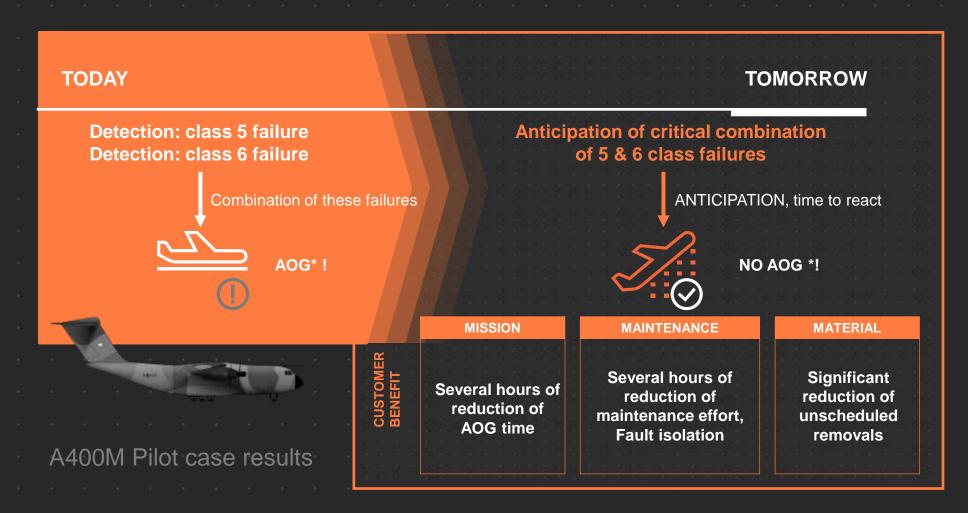
Predict

Making the unscheduled, scheduled

Applicability



Weight on Wheels Sensor Fault Model



Predict

Potential sensor failure which may lead to an ECAM* message when combined with another sensor failure

Prediction of the probability of occurrence of next fault leading to AOG*

CAM::Electronic Centralized Aircraft Monitoring



AOG: Aircraft on ground



Digital Health Management – Central Data Systems



MRTT Pilot case results

Detection of preliminary forces degradations and alert before total failure. Calibration can be performed on site.

TOMORROW

ANTICIPATION.

time to react

Diagnose

For the Air Refuelling **BOOM System**

Based on data analytics and engineering data algorithms





How do we see the future of Military Aircraft Services?

Co-creating our digital transformation with our customers



Expanding digital aircraft services to all platforms

 Full in-service support through enhanced capabilities



Shaping the future of services together with our customers!



