

SESSION ID: PL1197B

FACING COMPLEXITY WITH A NEXT GENERATION PLM

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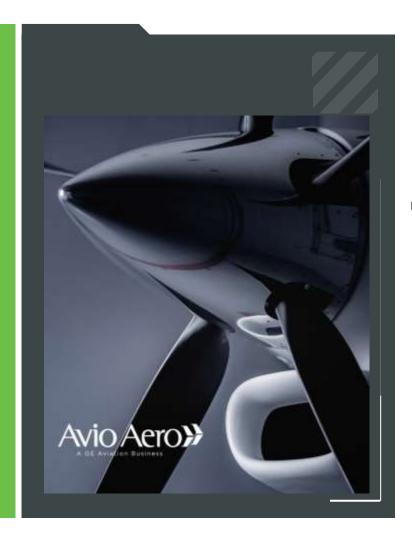
Stefano Picco

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THE CONTEXT

Daniele Gulmini



FROM 1908 AT THE SERVICE OF AVIATION



OVER 80%

OF ALL COMMERCIAL AIRCRAFTS

FLIES WITH OUR COMPONENTS



30000+

Large transport engines



7000+

Combat engines



12000+

Rotorcraft engines



2000+

Marine engines

5200+

PEOPLE

ACROSS EUROPE

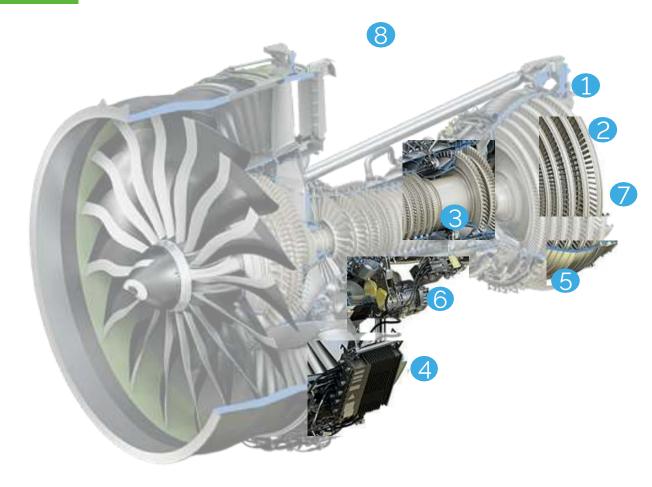
Italy, Poland and Czech Republic

Revenues \$1.6B

Investment \$107M

Research & Development Plant & Equipment

....



PRODUCTS AND MANUFACTURING

Additive manufacturing 1

Airfoils 2

Combustors 3

Controls 4

Frames and cases 5

Mechanical transmissions 6

Rotating components 7

Services 8

Sand Casting

Testing

MULTIPLE DIMENSIONS OF COMPLEXITY



















2010



40+ Year Product Lifecycle



Commercial/Military/Dual Applications & Restrictions

1970











Regulatory Bodies, Certifications



MANAGINGTECHNICAL DEBT

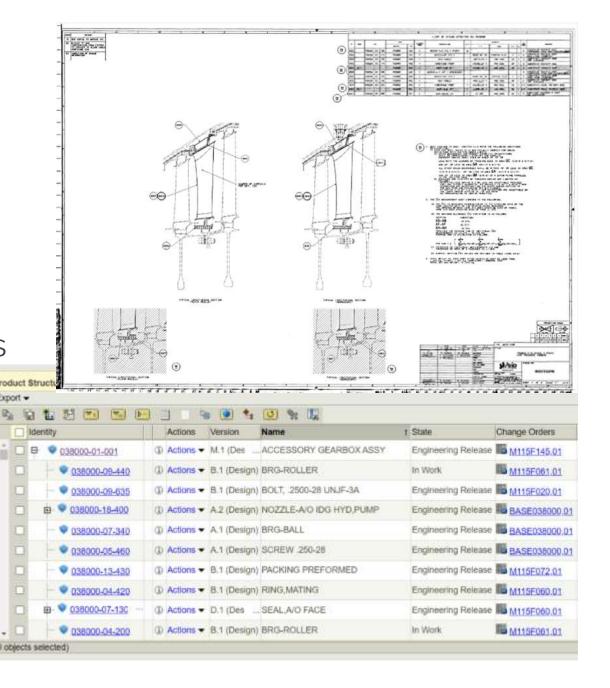
AS IS SITUATION AND CHALLENGES



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WINDCHILL - THE OLD ONE

- Obsolete 13 Y/O Windchill 9.1, out of compliance
- Mainly 2D based product design
- BOM and Change management mimics traditional paper-based methodology
- Poor support to full lifecycle management (i.e. manufacturing/service)
- Heavily customized, low use of best practices and standard functionalities

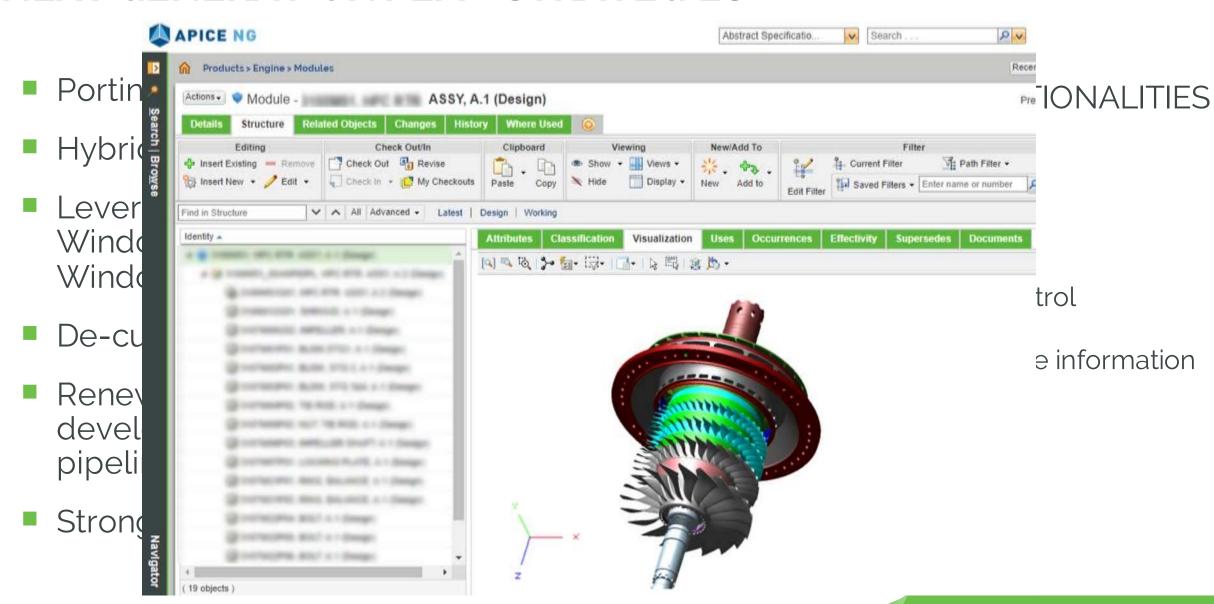




NEXT GENERATION PLM



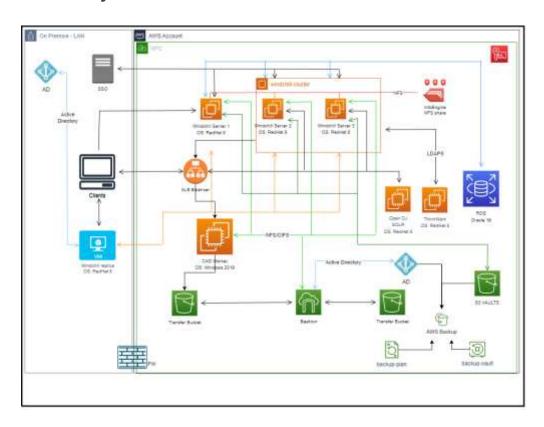
NEXT GENERATION PLM - STRATEGIES



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Manage technical obsolescence and IT compliance by delivering a new smart PLM concept, migrating 30+ years of data and preserving integrity.

Hybrid Cloud (laaS + SaaS + onPrem)

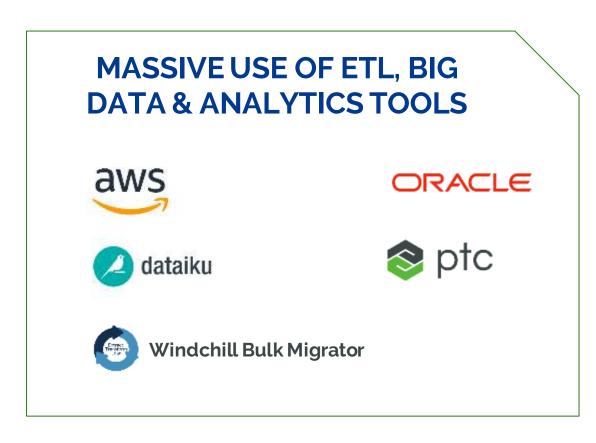




Manage technical obsolescence and IT compliance by delivering a new smart PLM concept, migrating 30+ years of data and preserving integrity.

Incremental Approach:

Porting, no Big Bang



Manage technical obsolescence and IT compliance by delivering a new smart PLM concept, migrating 30+ years of data and preserving integrity.

- Compliance:
 - User provisioning
 - □ IP & Export Control



Manage technical obsolescence and IT compliance by delivering a new smart PLM concept, migrating 30+ years of data and preserving integrity.

Governance processes & tools:

DevSecOps



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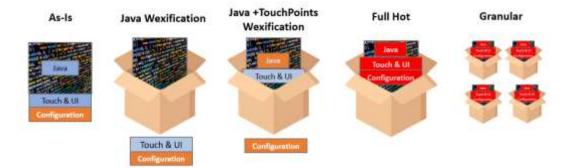


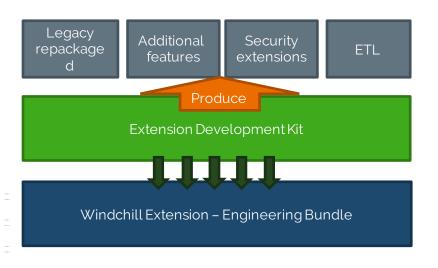
Simon Heat



WINDCHILL EXTENSIONS

A bit of history...





- Avio Aero had some Wincom legacy apps (>10 years old)
- Objective: provide Avio Aero/EKA our latest infrastructure built on WEX



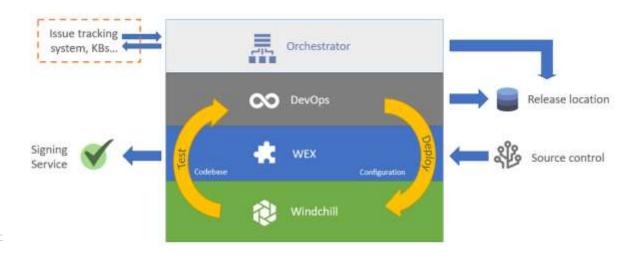




WINDCHILL EXTENSIONS

DevOps framework





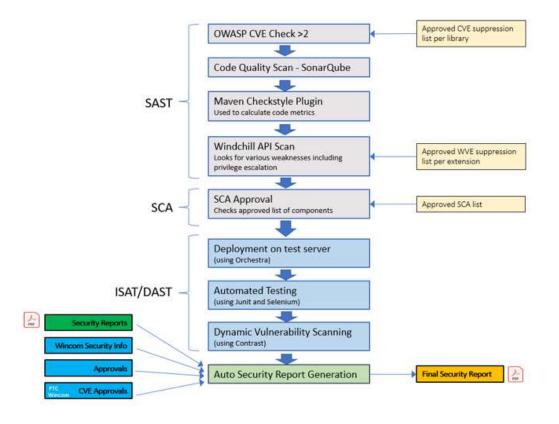
- We built a DevOps framework
- Avio Aero/EKA are working autonomously on it, we are supporting them
- Avio Aero/EKA are helping us improve the framework
- Future: Build a full CI/CD environment (Orchestra)



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WINDCHILL EXTENSIONS

Security





- The 3 pillars of Security implementation
 - Automation
 - Traceability
 - Liability
- Need for high agility between Developers and Security team









ENABLEMENT TECHNOLOGY

ENABLEMENT TECHNOLOGY

WHAT'S NEXT

Manufacturing Data Management





Service Instructions





Full SaaS







Thank you! You can find me at:

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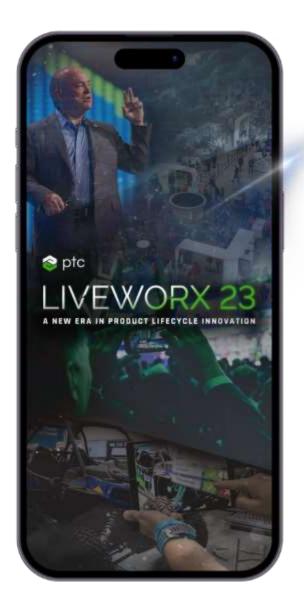
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