OSLC @ Airbus Group

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Airbus Group Innovations
Airbus Group at a Glance

Airbus Group Employees by country:

- **France**: 54,510 (38%)
- **Germany**: 50,080 (35%)
- **Spain**: 11,217 (8%)
- **UK**: 14,628 (10%)
- **USA**: 3,255 (3%)
- **Rest of the world**: 10,373 (7%)

Total number of employees: 144,061

Globally leading aircraft manufacturer:
- Since 2000, Airbus commercial deliveries grew by 80%.
- Backlog more than doubled in one decade (now equaling 8 years of production).

Leading helicopter manufacturer:
- Accounts for 1/3 of the global helicopter fleet.
- Delivered about 4,000 helicopters throughout the past decade.

Europe’s No. 1 defence and space company:
- Worldwide, it ranks second for space and is among the top ten defence companies.
- Revenues of approximately €14 billion per year.
Our Key Challenges for Engineering Lifecycle Management

- Complex Products
- Safety-critical Systems (Certification)

- Geographically distributed engineering teams
- Complex IT infrastructure
Today’s situation at Industrial Companies
Our Vision

Industrial Workflows

New: Engineering Methods

New: Platform Layer

Tool Layer

Users get better ways of working

...by connecting tools to expose & link data
CRYSTAL Research Project: Public Aerospace Use Case: De-Icing System

Use Case Objective:
• Definition of De-icing System for Regional Turboprop Aircraft, with:
  o Minimal Cost, Weight, Power Consumption
  o Fulfilling safety constraints
  o Fulfilling functional needs (i.e. keep Aircraft components free-of-ice)

Engineering Challenges:
• Many change requests; how to assess impact?
• Different alternative concepts for De-icing:

Check our Video on Youtube: Change Impact Analysis based on Linked Data
https://www.youtube.com/watch?v=zeFiGSwMsUc
Public Aerospace Use Case: Interoperability Challenge

We have a lot of data to specify, design, and analyse this system. There is a lot of interdependency between the data. We must know what data is affected by a change request. We must know what data is needed for a trade-off analysis.
Public Aerospace Use Case: Our Implementation
Public Aerospace Use Case: Our Implementation
OSLC @ AirbusGroup – what’s next

- Implementation of Configuration Management for Public Aerospace Use Case
- ALM / PLM integration & Case Studies
- OSLC Adapter SDK / Generic Adapters
CONTACTS

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CRYSTAL Project
http://www.crystal-artemis.eu/

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