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Collaboration in a complex environment

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EADS at a glance



EADS Divisions – The four firm walls on which EADS is built



- Globally leading aircraft manufacturer
- Since 2000, Airbus commercial deliveries grew by 60 %
- Backlog more than doubled in one decade (now equaling 6 years of production)



- Europe's leading space provider
- Largest space employer in France, Germany, Spain and the UK
- Having increased its revenues 2x and EBIT 4x since the year 2000



- Leading helicopter manufacturer
- Accounting for 1/3 of the global helicopter fleet
- Having delivered about 4,000 helicopters throughout the past decade



- Worldwide leader in security systems and Europe's leading UAV provider
- Over 234 Eurofighter aircraft delivered (as of Sept. 2010)
- Having more than doubled its EBIT & Return on Sales over the last 5 years



EADS Innovation Works (IW)

- An international network of research centres working on EADS priorities
- EADS IW is responsible at EADS Group level for identifying new technologies that:
 - Create value and develop them up to TRL 3
 - Guaranteeing the technical innovation potential for EADS in TRL 1-6



Staff in France and Germany
510 people
IW UK
120 people
IW Spain
75 people
IW Singapore
30 people



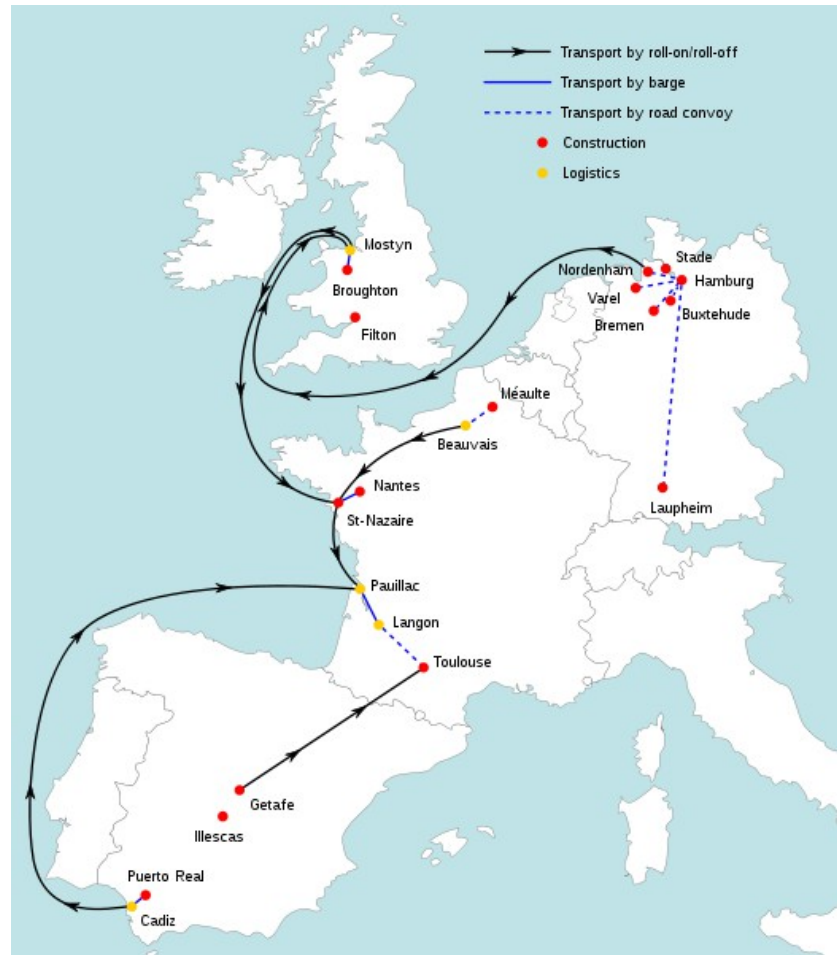
The Software and Systems Engineering Team

- Development and evaluation of innovative solutions, products and technologies used in the domain of software and systems engineering
- My responsibilities and focus:
 - Coordination and Management of European and national Technology and Research Projects
 - Collaboration in the Lifecycle (PLM and ALM)
 - Tool Integration and Interoperability
 - System Architecture and Design



The Airbus A380 Construction

The integration and collaboration challenge



Main challenges of collaborative engineering in EADS

- Integration of Software and Systems Engineering with Product Lifecycle Management tools in order to apply traceability, visibility and control through a simplified product engineering lifecycle
- Integration of process and change management into the systems engineering lifecycle in order to apply visibility and control



The vision, challenges and how to reach the goals

The Vision:

- Increase productivity of work and quality of products by reducing costs in terms of time during the engineering and management of products

Challenges to reach our goals:

- Traceability, Visibility, Control in the product engineering lifecycle

How to:

- Integration of Software and Systems Engineering with Product Lifecycle Management tools
- Integration of process and change management into the systems engineering lifecycle



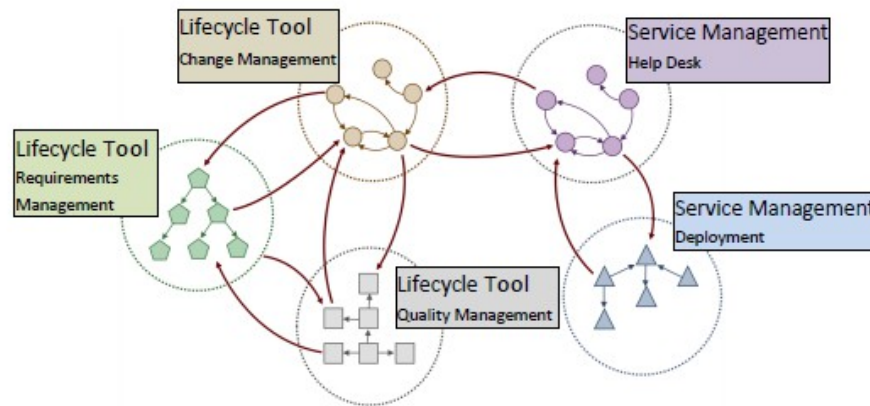
How RTC and RELM support is to achieve our goals

- **RTC**
 - Automated process and workflow management
 - Change management in a collaborative manner
 - Integration with engineering tools such as Rhapsody, DOORS, MATLAB,...
- **RELM**
 - Visibility of “all” artifacts produced during the engineering lifecycle
 - Impact analysis and traceability
- Jazz solutions support open and common integration and interoperability
 - Important aspect in today’s engineering environments!



The Open Services for Lifecycle Collaboration

- A **community of industrial users, tool providers and domain experts** developing specifications on how to integration tools used in the product lifecycle
- Approach based on open and standard internet technologies
- How it's built: ALM, ISM, and PLM Specifications based on a core specification
 - **The OSLC Core** specifies the primary integration techniques for integrating lifecycle tools, such as communication protocols and basic data representation
 - **The OSLC domain workgroup** ... ut do not add new protocols



For further information see: <http://open-services.net>

