ADCSS 2014 Pierre Gaufillet

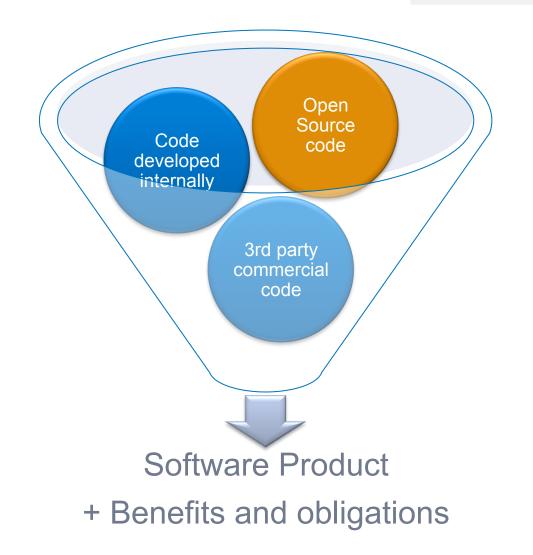
AIRBUS

### Open Source Strategy within AIRBUS aircraft

to the second



#### Software products today – a matter of Intellectual Property





### Benefits of using Open Source for a company like AIRBUS group?

- Improve productivity
  - Do not re-develop the wheel again and again!
  - Focus on our added value for our customers, not on the platform
  - Reach more quickly high levels of maturity
- Enrich technical offer
  - By integrating tricky or expansive features into our products
- Improve interoperability thanks to reference implementations





# What are the impacts of using Open Source on a company like AIRBUS group?

- Needs to adapt the System / software development processes
  - Component portfolio management
  - Intellectual Property control
  - Architects and developers trainings
  - Export control
  - Security
  - Liability
  - Supply chain
  - Very long term maintenance and availability
  - Qualification / Certification strategies





#### A shared effort of AIRBUS group Business Units



- A core team of a dozen of people across all BUs in all countries
  - Started in 2012 and coordinated by the Chief Technical Office of AIRBUS group
  - Scheduled in 3 stages:
    - Initial evaluation in 2012: identify problematics, select a supporting tool and impacted processes.
    - Pilot stage in 2013: testing and refining the new activities, organizations and tools.
    - Industrialization in 2014: trainings, methods and tools deployment, continuous synergy between BUs.



#### **COTSAQ – COTS Management Tool**

# Project created in PolarSys in October 2014, initial contribution in progress <u>http://www.polarsys.org/proposals/cotsaq</u>

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#### October 2014

#### Contributing back to Open Source communities?

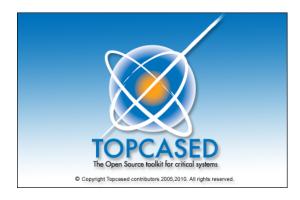
- Keeping your patches private is expensive
- Contributing doesn't mean necessarily patches
- Contributing adds value to the open source components you use
- Addressing common weakness of system / software engineering tools
  - Interoperability Data / Model / Tool
  - Vendor commercial strategy
  - Obsolescence
  - Maintainability
  - Open innovation platform
  - Licensing and deployment in extended enterprise





#### From TOPCASED to PolarSys

• TOPCASED – Open Source Toolkit for critical systems...



• ... is migrating to a community tailored for embedded systems industries





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