

OPEES

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LTS Workshop

07/2011



OPEES

**Open Platform for the Engineering
of (Critical) Embedded Systems**

Main Objective:

**Ensure the long term availability of
Open Source tools for
Critical systems**

Long term availability...

AIRBUS A300 Life Cycle

Program began in 1972, production stopped in 2007

2007-1972 = 35 years...

Support will last until 2050

2050-1972 = 78 years !!

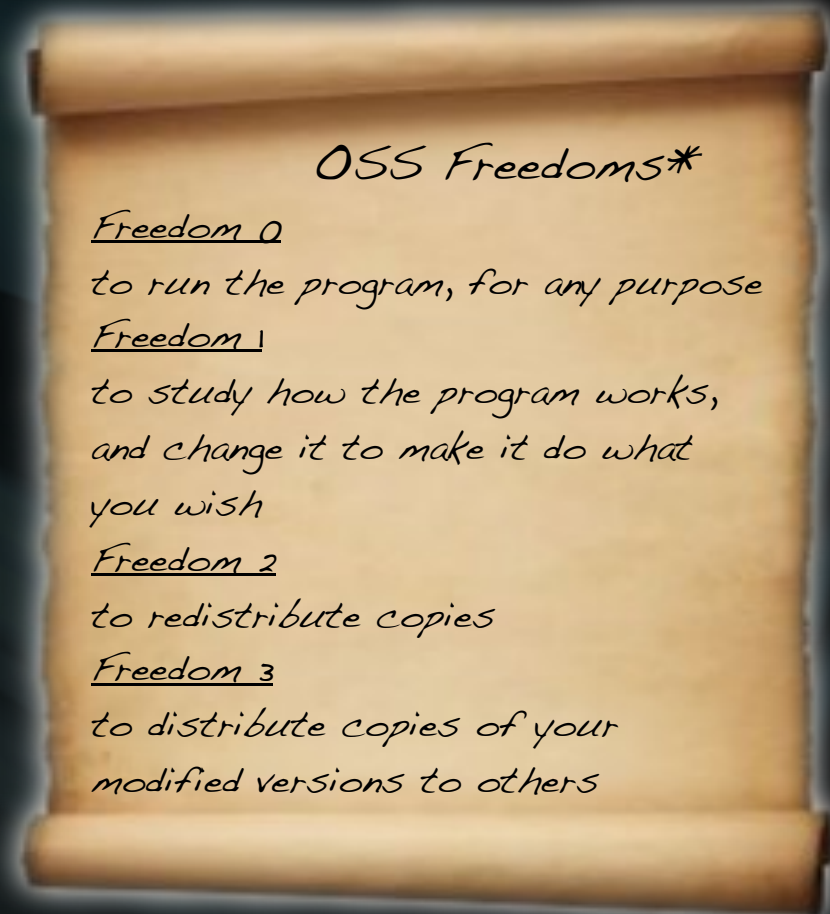
**On board software development
for very long lifecycle products**



OSS as an enabler

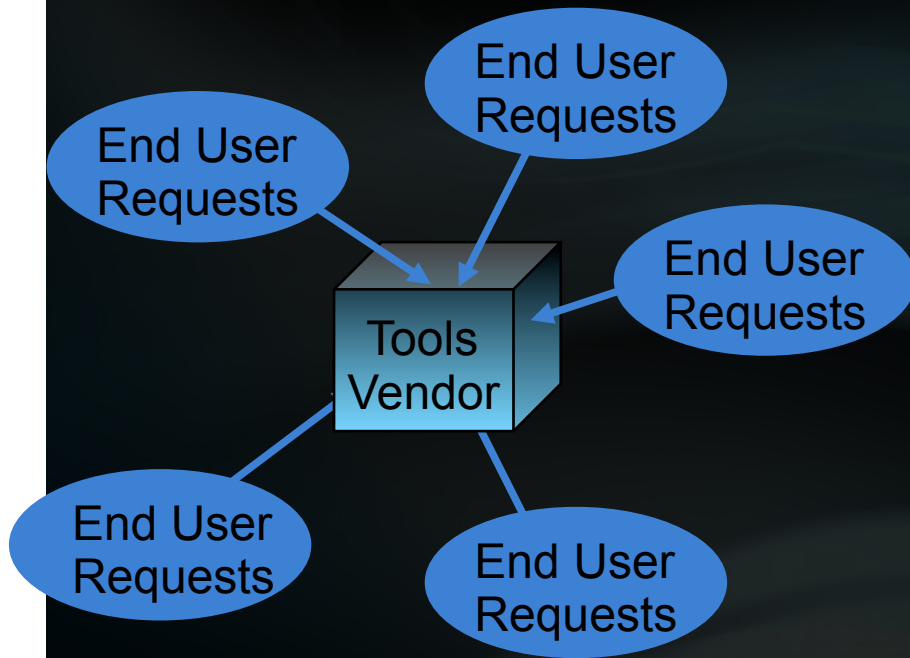
OSS advantages

- Manage IP issues
- Open code and open formats enable
 - Migration
 - Interoperability
 - Extensibility
- Lowers vendor lock-in
- Share common platforms between tools vendors and industrial users



(*) As defined by the Free Software Foundation

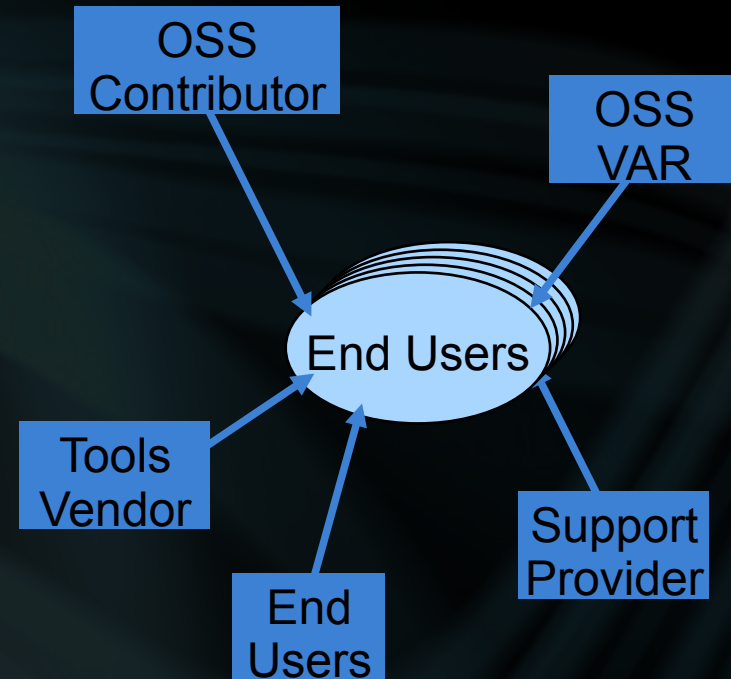
Focus on Industrial User Strategy



Users adapt their process to the tools
Less than 20% Features Requests accepted



Usual Tools Vendor ecosystem



Nearly 80% Features Requests implemented as generic features
20% implemented as end user extensions

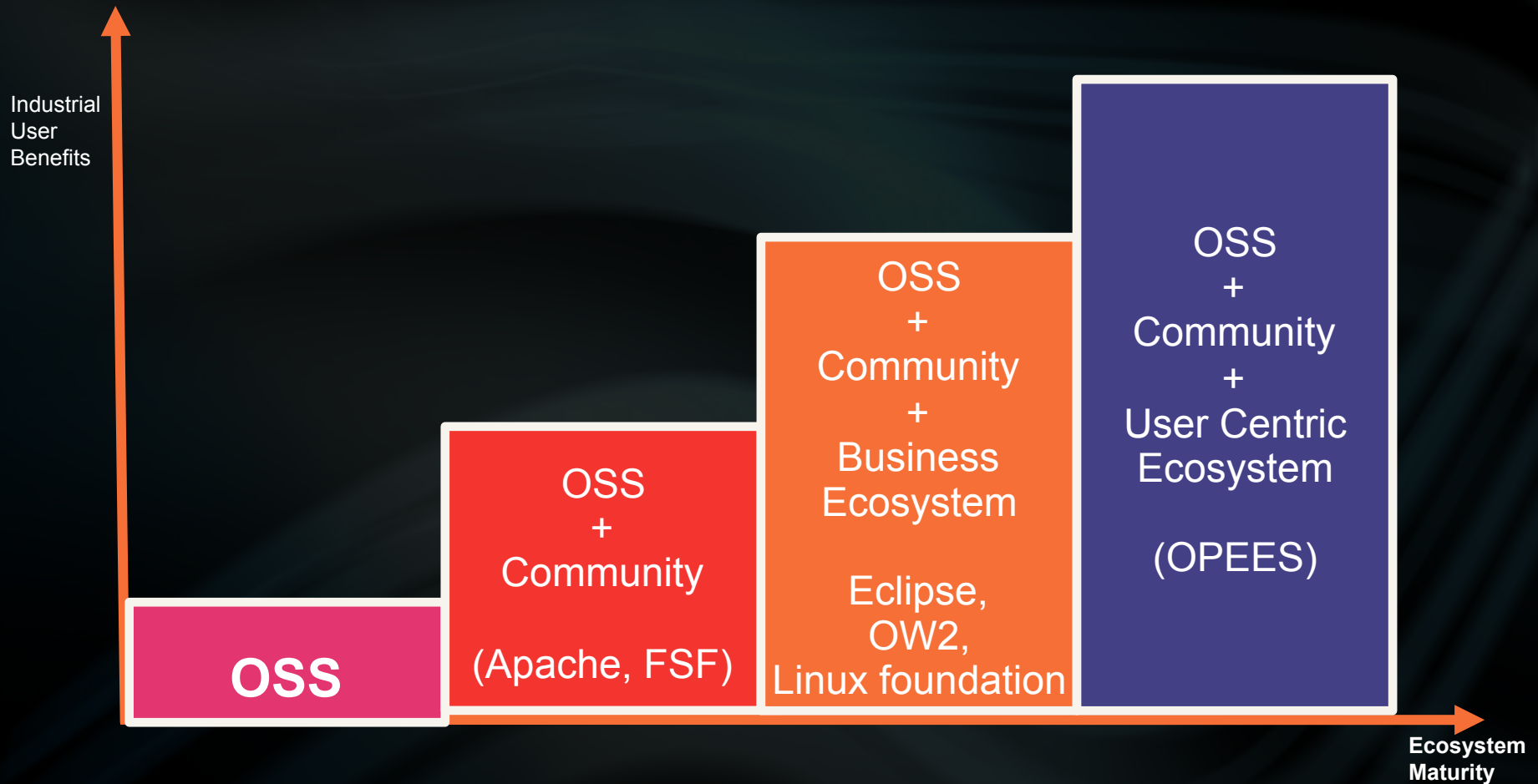


OPEES Target ecosystem

OPEES in a Nutshell

- Missions
 - Ensure long-term availability of critical / embedded systems engineering technologies
- Provide
 - (Very) Long Term Support
 - Assets specific to qualified environment (Space, Aircraft, ...)
 - Base documents for certification
 - Labels for projects and service providers to structure the ecosystem
- Towards a federation of Industrial Users and Service Providers
 - Build a sustainable ecosystem around OPEES technologies
 - Avoid the creation of one ecosystem per industrial user
 - OPEES openly federates some services that were provided by Tools Vendor with lock-in

Maturity of OSS ecosystems



OPEES ITEA project 2009-2012

35 members from 5 European countries



Status

- Voted to implement OPEES as an IWG
- IWG proposal to be published in September
- OPEES IWG to be announced at Eclipse Con Europe
- Workshop for companies whilling to join OPEES IWG on Sep21st in Paris
- Participation to the session : Open Source for Industrial Users Summit at OWF on Sep 22nd in Paris

Regarding to LTS

- Long Term Support : 10 years
 - Ability to patch, produce binaries, etc...
 - Specific non regression test suites for certified environments: Supported by Service Providers
- Very Long Term Support : up to 40 years
 - Will leverage LTS with virtualization
 - Archive/Restore processus
 - ...

Thank you

