

# THALES



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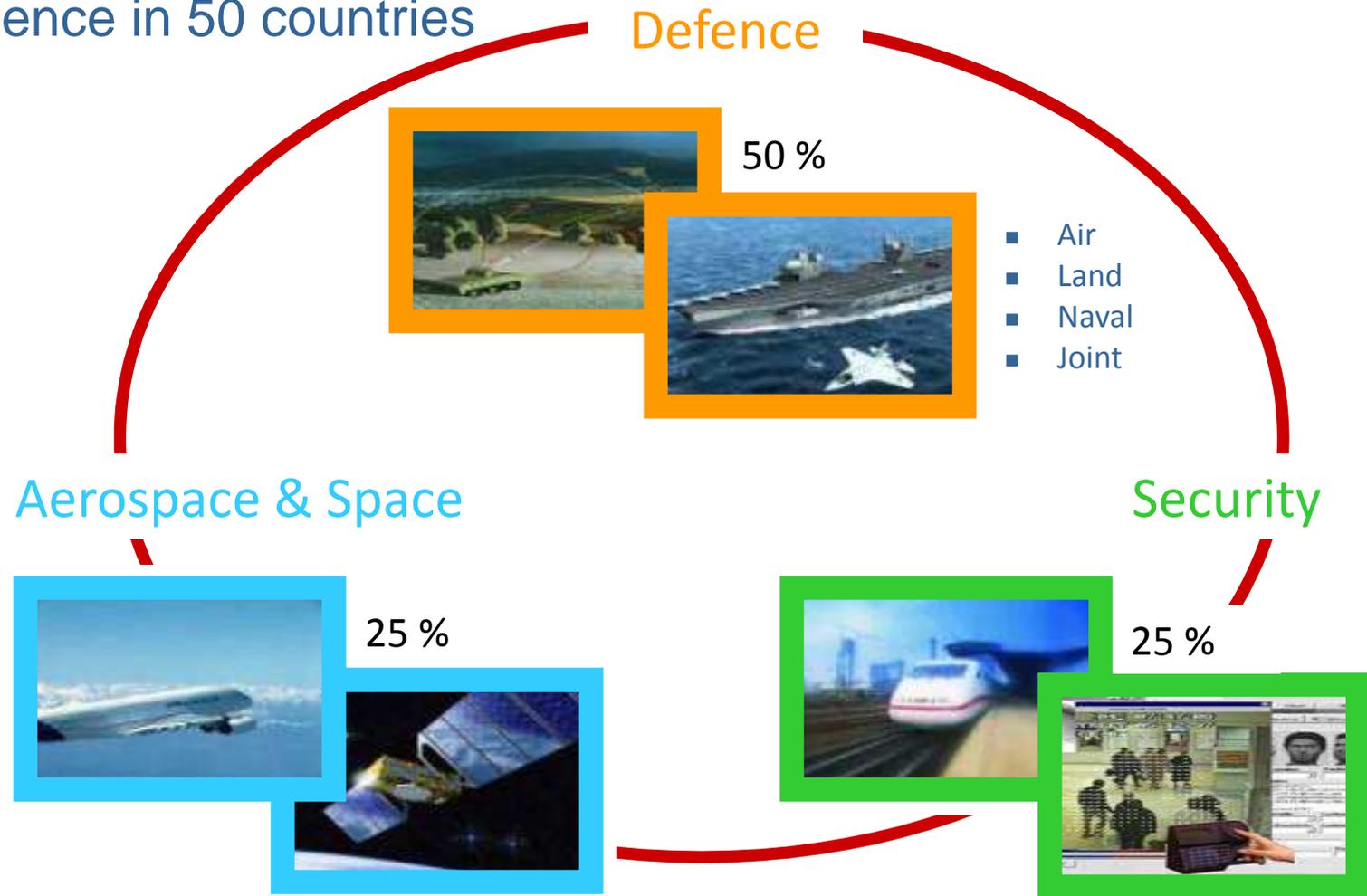
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ThereSIS 2009 – Security Solutions & Services

# THALES quick overview (1 / 2)

## ■ A Worldwide Group

- 68,000 employees worldwide
- Presence in 50 countries

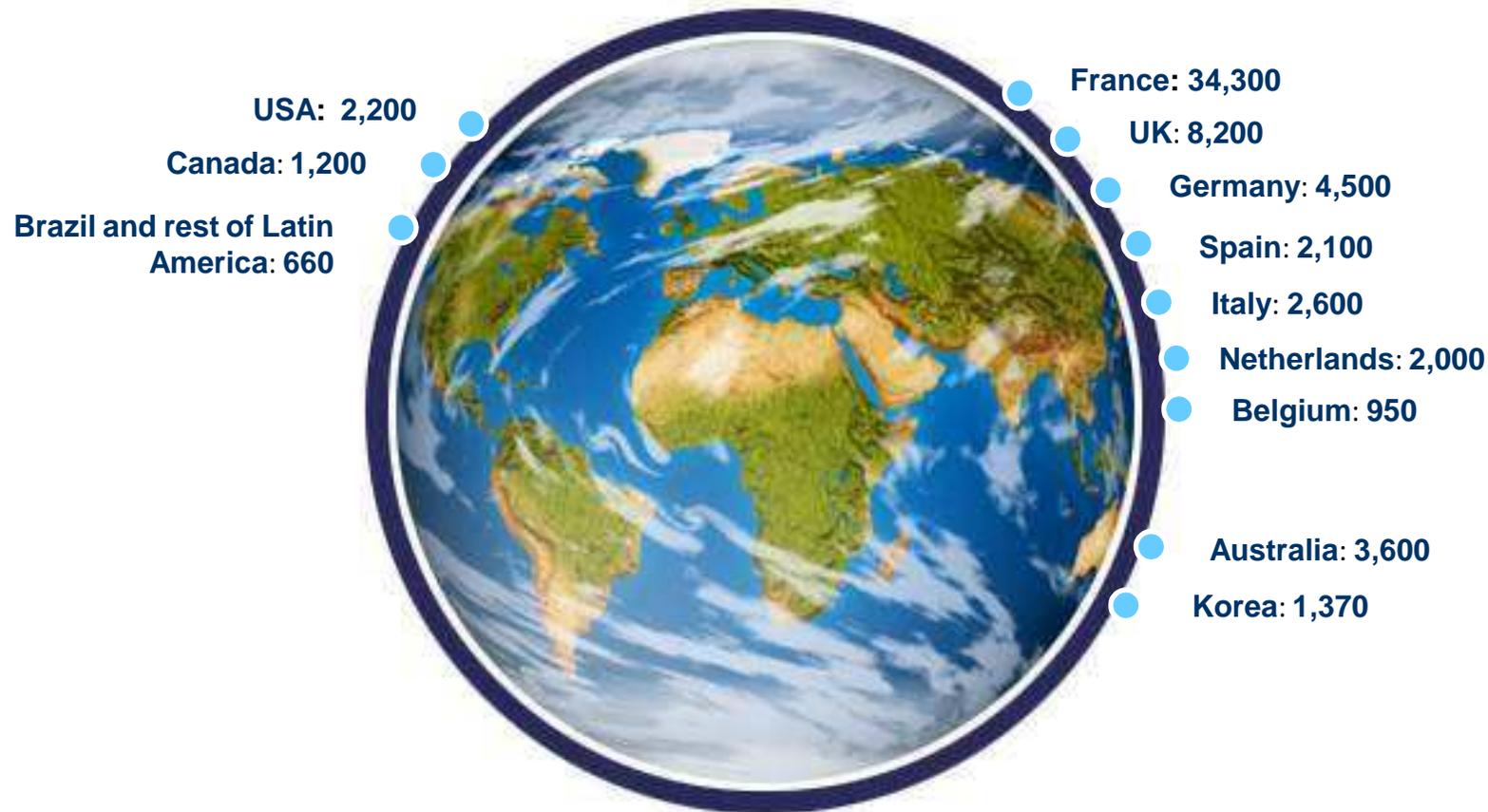


ThereSIS 2009 – Security Solutions & Services

**THALES**

# THALES quick overview (2 / 2)

## Sites with more than 950 employees



Others: Saudi Arabia: 730 / China: 390 / South Africa: 340 / Switzerland: 290 / Singapore: 240 / India: 200 / Austria: 200 / Norway: 180 / Portugal: 160 / Poland: 130

## HELIOS PROJECT

« **H**armoniser l'**E**nvironnement **L**ogiciel et **I**ndustrialiser avec  
l'**O**pen **S**ource »

Harmonizing the Software Environment and industrializing with  
the Open Source ecosystem



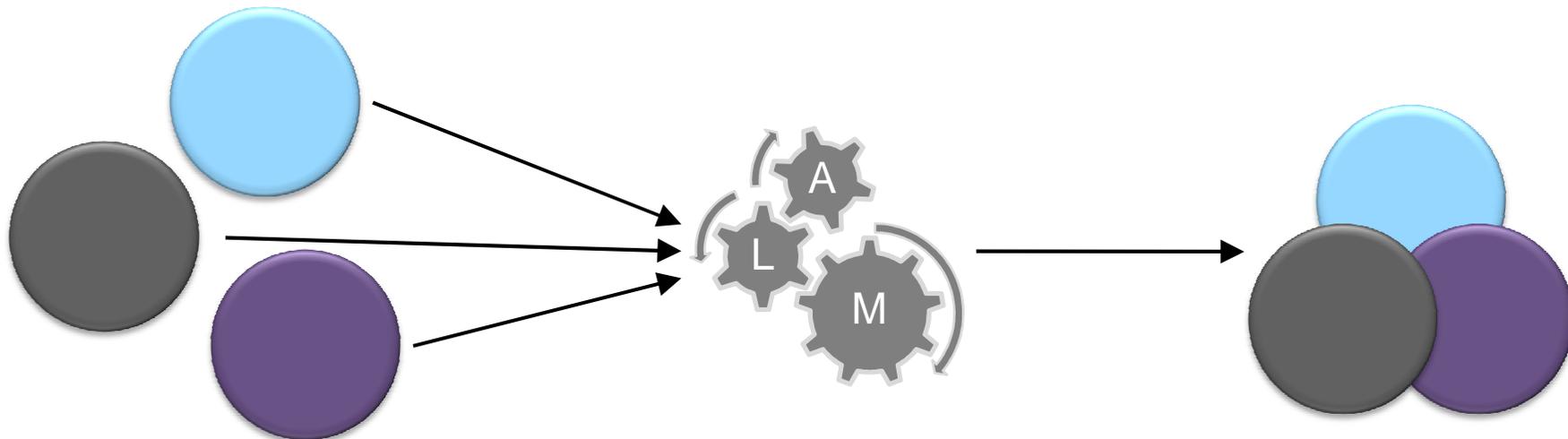
<http://www.helios-platform.org/>



*Project labeled by the System@tic research cluster & funded by the 7th FUI (French national fund)*

■ Object : industrialization

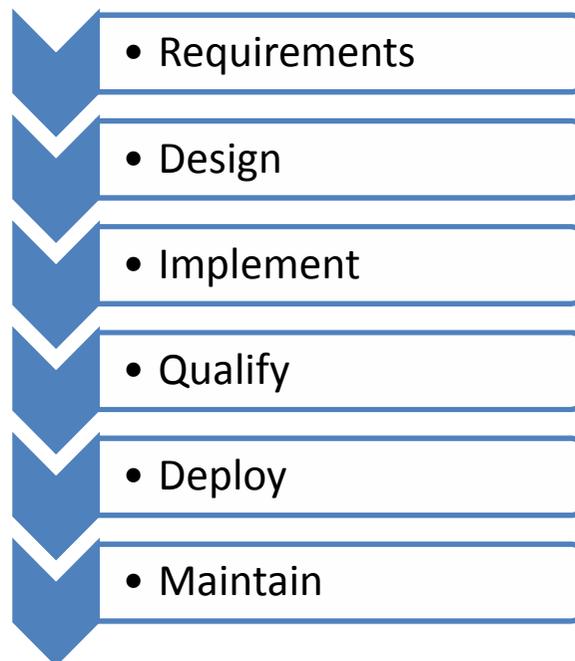
- ALM (Application Lifecycle Management)
- Qualification, integration, deployment, maintenance



- A large commercial offer (IBM, Borland, Serena, ...)

- Integrated approach

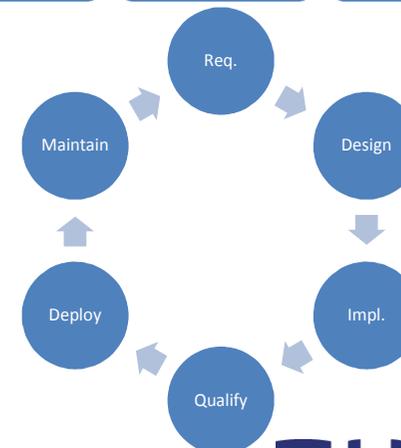
- **The tools impose the process**



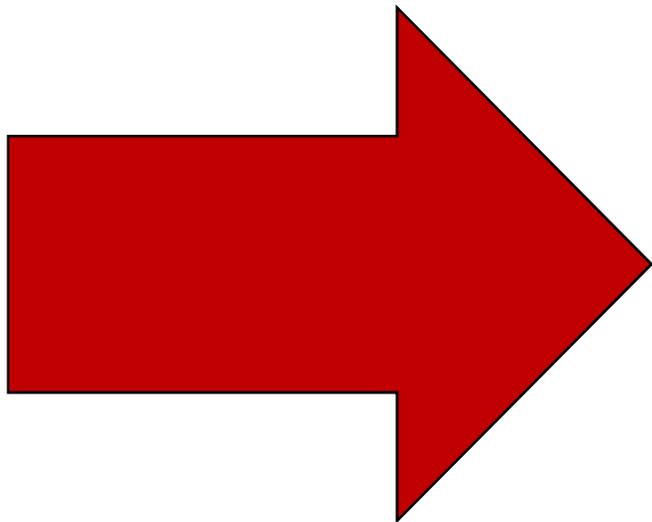
- An open source / Heterogeneous world

- Many processes (sometime even none)

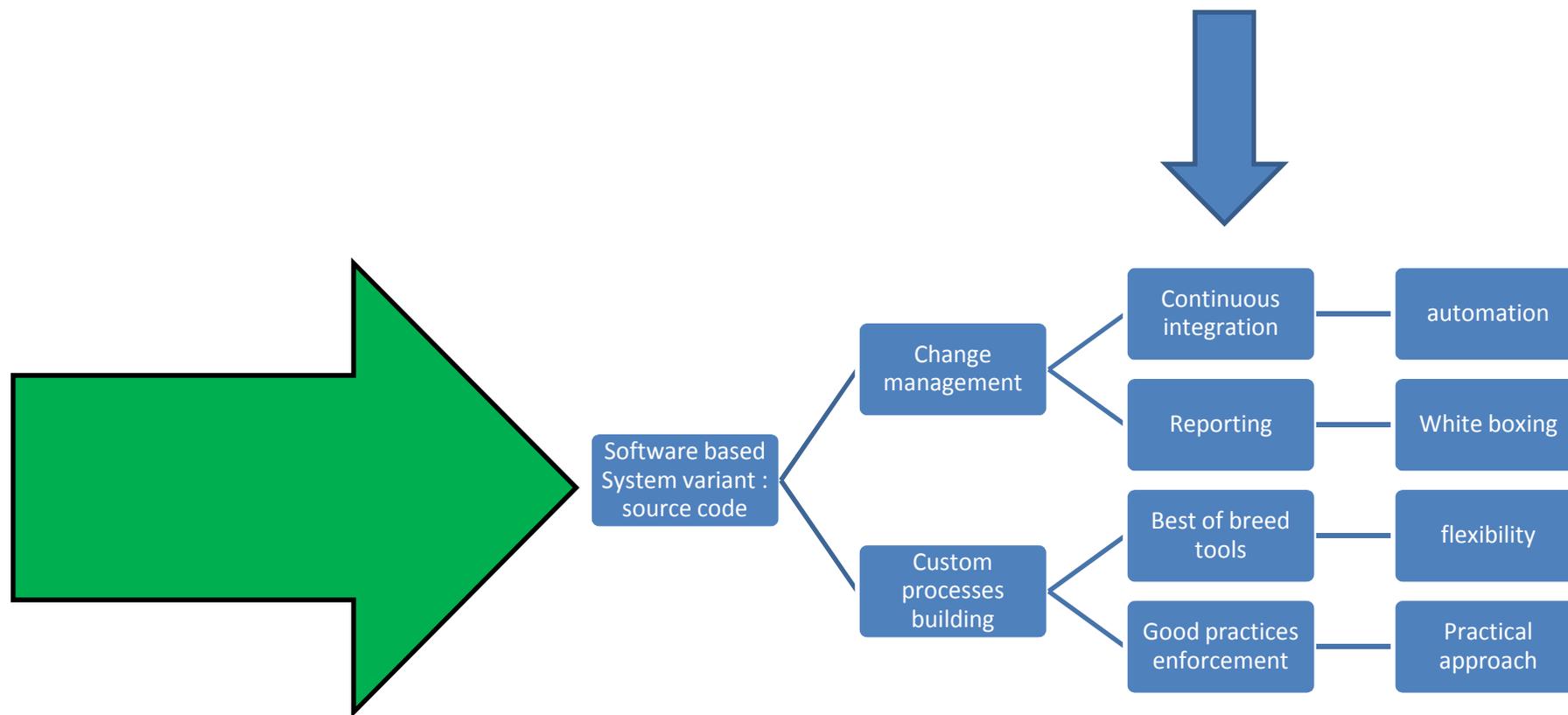
- Agile programming



- A consortium with a large span of concerns :
  - Heterogeneous systems integrators
  - Quality & processes experts
  - Scientific calculation experts
  - Academics
  - Linux distribution packagers
  - Agile & Distributed context developers
  
- Consensus reached
  - Keep it practical, everything needed already exists



- No common process could be found
- How to ensure system quality without enforcing a process ?



## ■ an Open Source software :

- ALM platform including reporting for IVQ as well as deployment & maintenance



- Set of selected tools for a “standard” quality process aiming at Java/J2EE projects

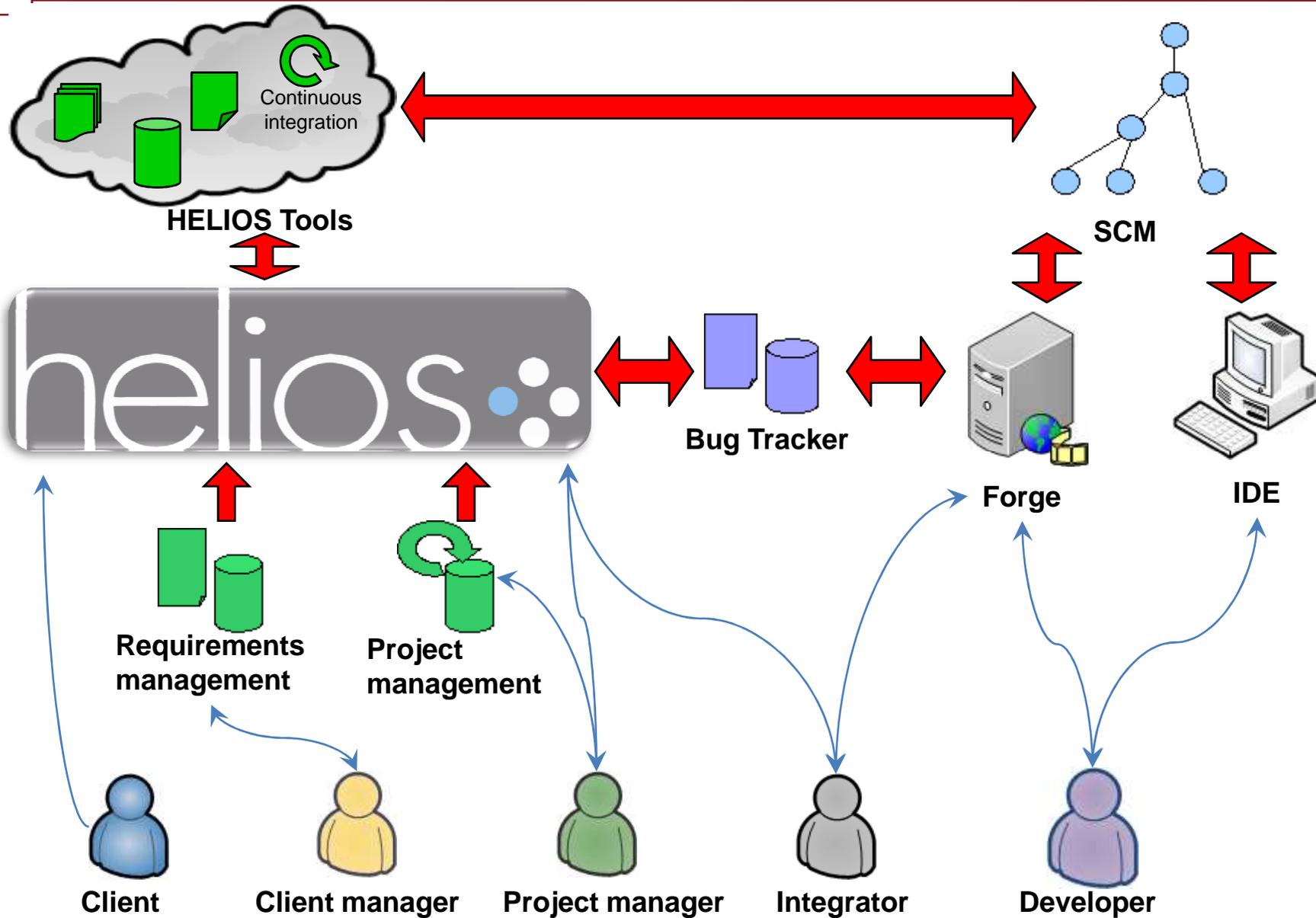


- An open framework allowing to easily extends your ALM platform with your own tools adapted to your quality process



## ■ Selected tools :

- Requirements management : OSRMT
- Maintenance : Mantis
- Unit testing : JUnit
- Load testing : JMeter
- Test campaign management : TestLink
- HMI test :
  - Selenium
  - Abbot
- Build : Maven 2
- Dependencies : Maven 2
- Packaging : rpm-build
- Continuous integration : Hudson
- Documentation : Doxygen
- Quality :
  - Checkstyle
  - PMD
  - Squale
- Licenses : Fossology
- Project management :
  - Gnome Planner -> OpenProj
- Validation : Fitness
- Deployment : Pulse 2
- SCM : Subversion
- Modeling : ArgoUML



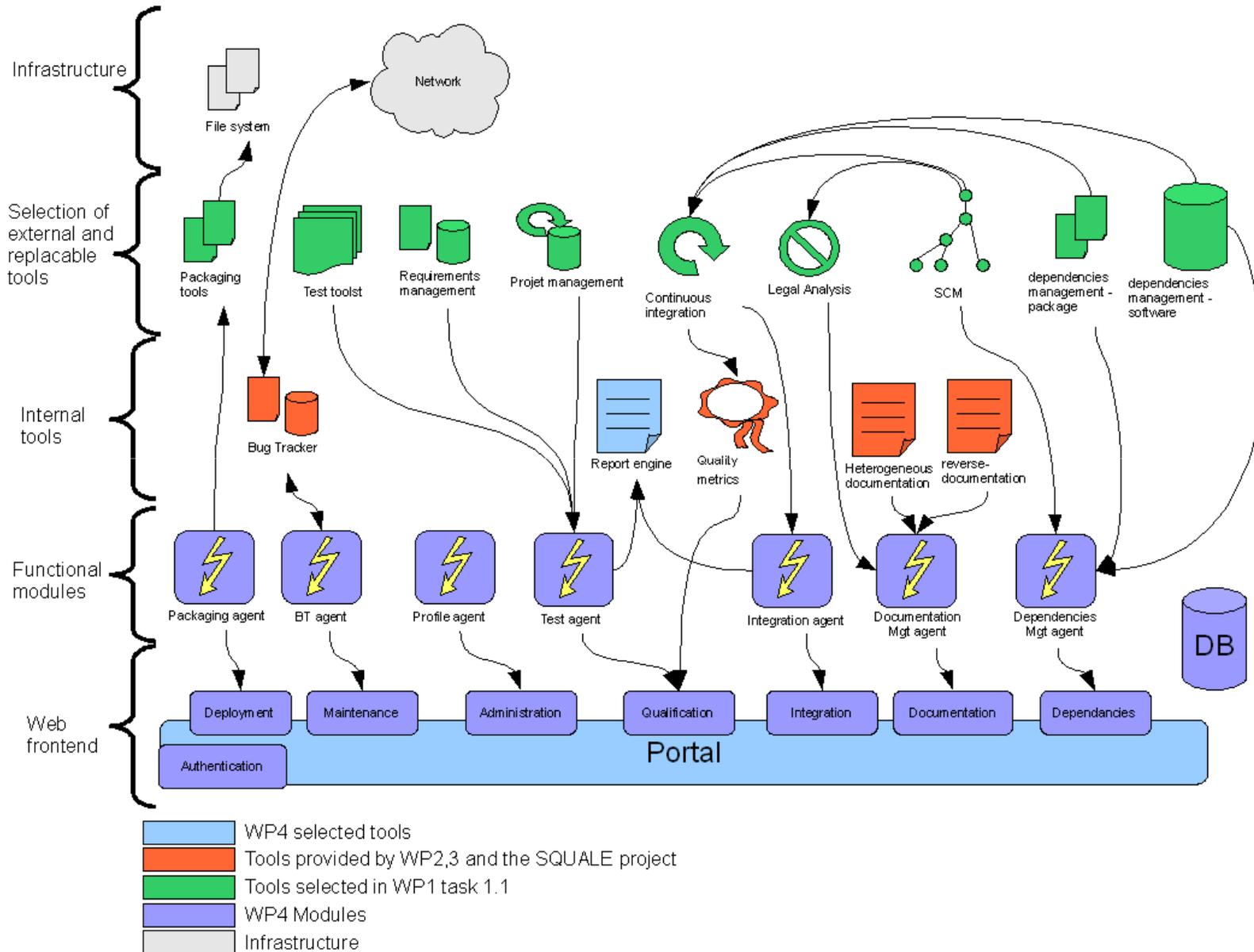


## •WBS (Work Breackdown Structure)

- WP1 : Industrialization platform specifications
  - Task 1.1 : Methodology (general approach, process)
  - Task 1.2 : Tool selection (selection of Open Source tools, target technology : Java / J2EE)
  - Task 1.3 : Portal specification (functional specifications)
- WP2 : Documentation quality
  - Task 2.1 : Reverse documentation tool (legacy documentation)
  - Task 2.2 : Heterogeneous documentation management tool (centralized documentation management tools for heterogeneous systems)
- WP3 : Bug Tracking with multiple development platform
  - Task 3.1 : Study and models (generic bug model)
  - Task 3.2 : Synchronization mechanism between bug-trackers systems (synchronization and propagation of bugs within heterogeneous systems)
  - Task 3.3 : Interaction with other WP (integration with WP4)



- WP4 : Industrialization portal
  - Task 4.1 : Detailed architecture (technical specifications)
  - Task 4.2 : Qualification (test campaign management, quality metrics)
  - Task 4.3 : Integration (dependencies management, continuous integration, application dashboard and WP2 integration)
  - Task 4.4 : Configuration (software components configuration management)
  - Task 4.5 : Maintenance (management and dashboard of software version and labels, WP3 integration)
  - Task 4.6 : Deployment (RPM package generation tool, dependencies packaging )
  - Task 4.7 : Administration (portal administration, roles definition, components data model)
- WP5 : Communication
  - Task 5.1 : Communication (including publication of software source code)
  - Task 5.2 : Legal analysis (licencing)





 **THANKS**

## Questions?