

## OPEES project

Consortium for the definition, elaboration & deployment of an

**O**pen **P**latform for the **E**ngineering of **E**mbedded **S**ystems

# Agenda

- OPEES Demo Camp : 18h30 → 20 h
  - Presentation *by Robert Jacolin (Anyware Technologies)*
  - IT Consulting point of view *by Raphael Faudou (ATOS Origin)*
  - Services providers point of view *by Etienne Juliot (Obeo)*
  - Academic point of view *by JAN Stransky (CEA LIST)*
- Demo Camp : 20h → 21h30
- Imax Session : 21h30 → 22h15



## Opportunities ...

- Software is recognized as the key driver for innovation and business development in many domains
- **Long-term Maintenance:** In some industry, software is expected to be maintain 20+ years (energy), 30 years (automotive), 50+ years (aerospace)#
- **Reusable** (software/hardware) assets are becoming critical on the **long term**
- European and national authorities are **financing** countless collaborative R&D projects leading to very promising techniques and tools in embedded software engineering
- A lot of **independent components** without more investment which must continue to live

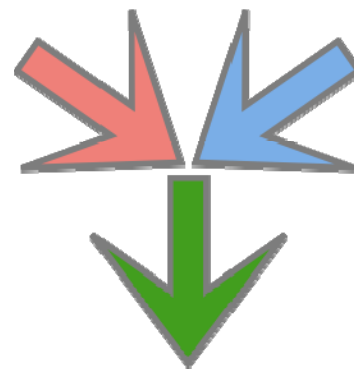


## Issues at hands

- Embedded-systems companies or industrial sectors need solutions **specific to their own processes**, which traditional business models cannot provide with.
- Long-term **availability of skills and services** requires a dedicated management on the long run.
- The path of the promise of the **R&D projects** to real industrial usage is full of **roadblocks**.
- Commoditization of products enables to **settle a European service industry**.



**Ensuring long-term availability of  
critical / embedded  
systems engineering technologies  
to secure industry competitiveness and  
development**



**OPEES**



# Objectives

- Settle a large scope of long-term components and services
- Fill a large scope of industrials needs
- Easier interactions between key components
- Improve the components quality and reliability
- Supply a legal and a technical infrastructure
- Create a large and strong community with industrials, IT consulting and research labs



## OPEES main goals (1/2)#

- Create an **eco system** around embedded system components
- An open and visible **organization**, implementing the business models / business plan and dissemination plan defined in the project allowing the emergence of a European service industry
- A **technical repository** to allow sharing of **open-source** tools & components in the domain of embedded systems/software engineering and to support collaborative works
- A **set of professional services** to support the users

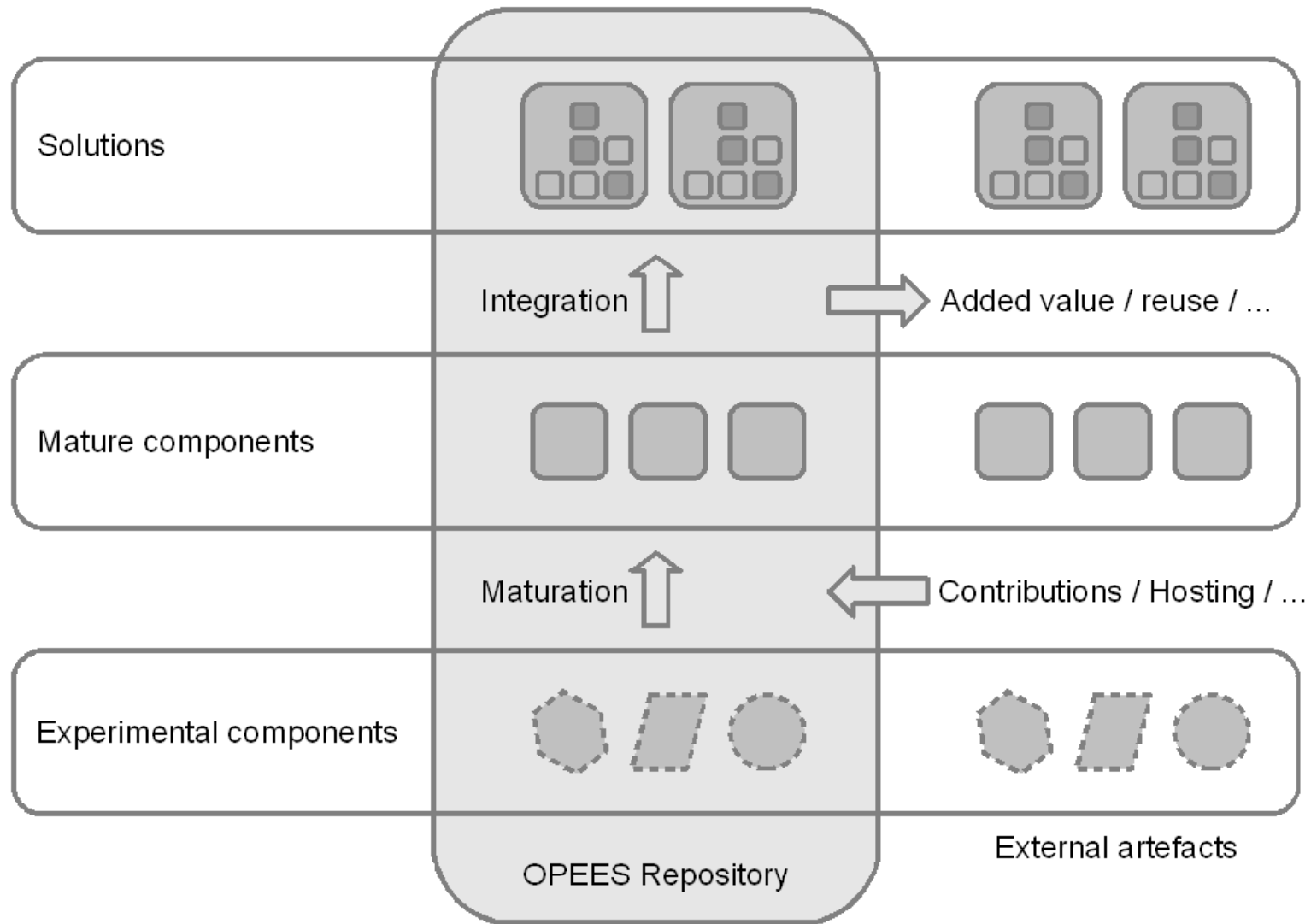


## OPEES main goals (2/2)#

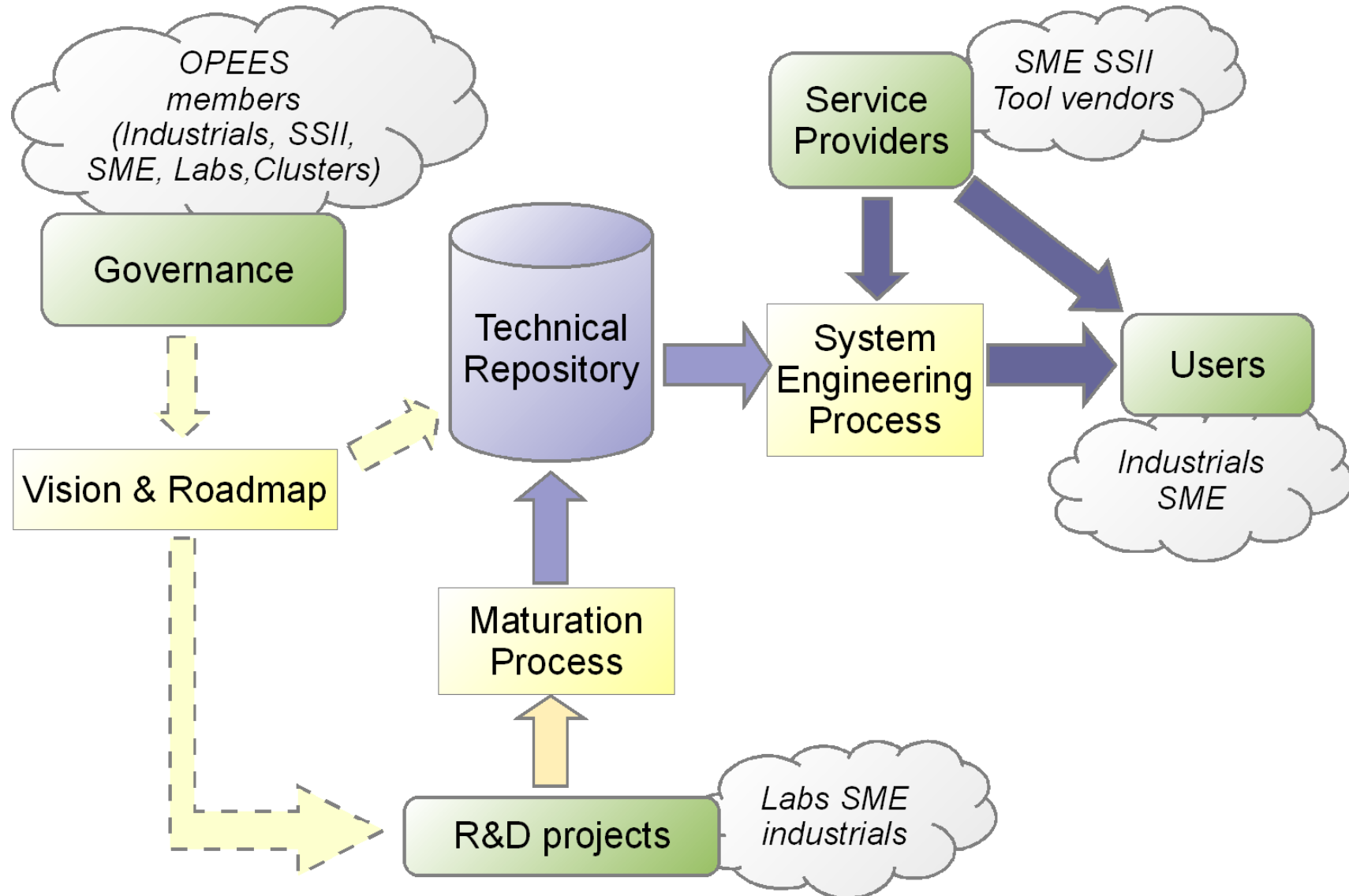
- A **first set of core components & tools** that will be matured and assessed through the proposed methodology and will be available through OPEES as the baseline for further R&D activities.
- A **process of maturation** for the candidate tools & components validated through experimentations on real use cases to ensure adequacy with industrial needs and constraints
- A **qualification process kit** for selected components to answer the needs of safety critical embedded systems



# OPEES Maturation & Integration workflow



# OPEES Actors and Processes

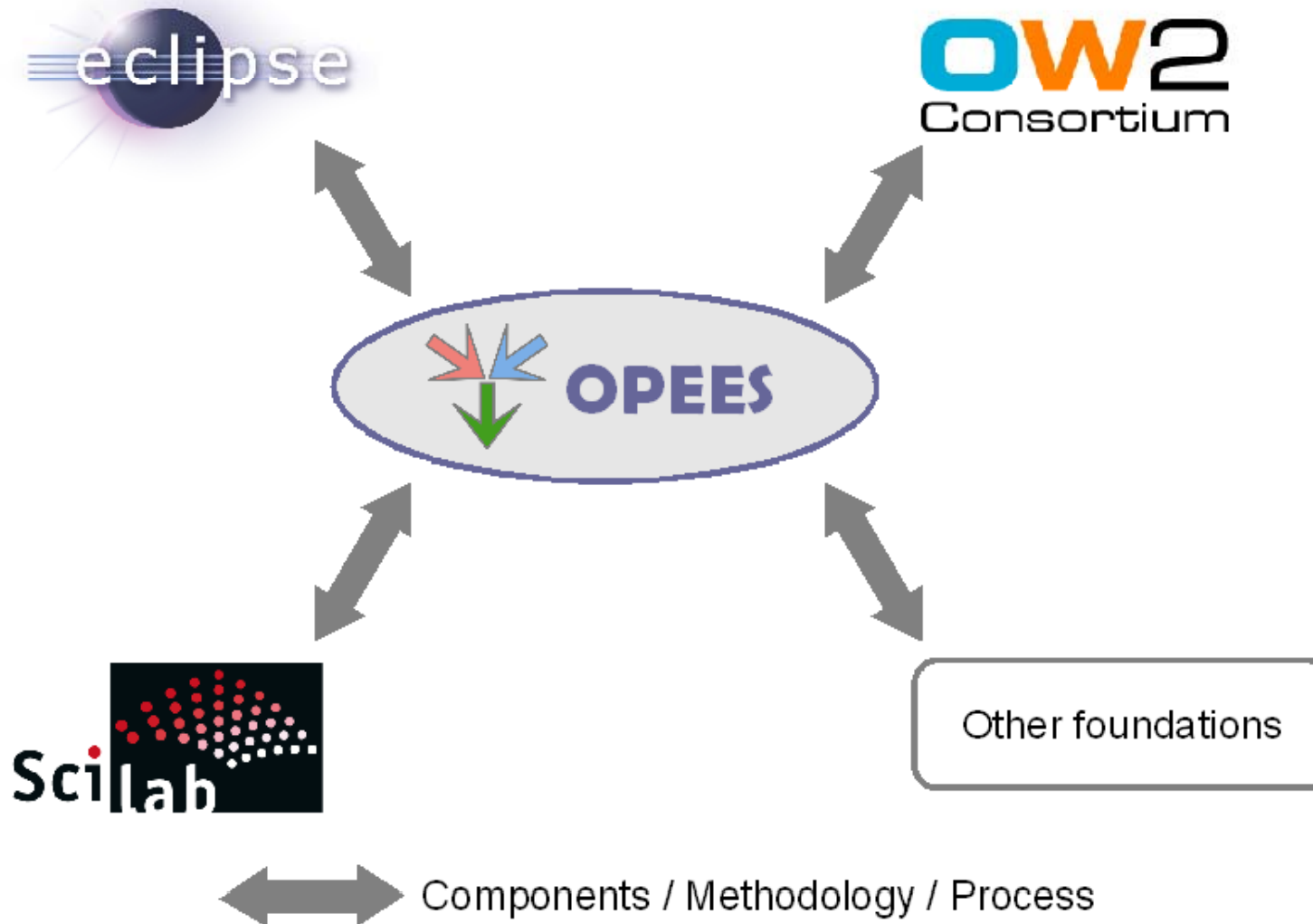


# OPEES organization

- Governance
  - steering role
  - strategic role: sets the orientations to ensure the mission
  - representative role: OPEES Foundation must be a structure capable to represent its members in other foundations
- OPEES will strongly interact with other foundations for:
  - Legal aspects
  - Intellectual and licensing issue
  - Dissemination actions
  - Infrastructure



# OPEES interactions with existing foundations



## OPEES organization

- OPEES will develop these activities:
  - New **business models** for Open Source components
  - Manages and details **maturation processes** for experimental components to ensure long term availability of services, support and skills on components
  - Integration of **qualification/certification** constraints
  - Provides a **no-charge access** to OPEES Components/Solutions under open-source licenses
  - Provides a small number of integrated, polished and **maintained solutions**
  - Provides common infrastructure **maintenance**
  - Delivers **support, training** and **customization** services with commitment to continuity of service on the long run.



# Consortium : a large community

Adacore	sme	FRA
Airbus	ind	FRA
Anyware Technologies	sme	FRA
ESI	res	SPA
TELVENT	ind	SPA
Indra	ind	SPA
Dassault Aviation	ind	FRA
Thales	ind	FRA
MBDA	ind	FRA
Space Applications Services	sme	BEL
SQS	sme	SPA
Tronik Kontrol	sme	AUS
UPV	uni	SPA
Barco NV	ind	BEL
University of Skovde	uni	SWE

Xipp	sme	FRA
Innovalia	res	SPA
CNES	res	FRA
CEA List	res	FRA
Astrium Satellites	ind	FRA
Astrium Space Transportation	ind	FRA
Atos Origin	ind	FRA
CS	ind	FRA
OBEO	sme	FRA
UTM	uni	FRA
INP-IRIT	uni	FRA
Schneider Electric	ind	FRA
KU Leuven	uni	BEL
INRIA	res	FRA
ONERA	res	FRA
ICT Norway	sme	NOR



# Consortium

- More and more partners
  - Finland: University of OULU, ...
  - Sweden: Modelon, University of Lunde, ...
  - Netherlands: University of Twente, ...
- Sharing a stronger experience

And you, are you ready to join us ?

Contact: [robert.jacolin@anyware-tech.com](mailto:robert.jacolin@anyware-tech.com)

