

From the cloud to the edge - smart IntegraTion and OPtimisation Technologies for highly efficient Image and Video processing Systems



Objectives

FitOptiVis addresses CPS with distributed actuators and image and video sensors. Real-time image- and video-processing pipelines are a prime source for environmental information and feedback. FitOptiVis applies advanced imaging and video applications, combining multiple heterogeneous sensor inputs. It balances power demand versus image and video performance.

Use cases

- Water supply
- Virtual reality
- Habit tracking
- 3D Industrial inspection
- Road traffic surveillance
- Multi source medical imaging composition
- Sustainable safe MRI
- Robot calibration
- Smart grid infrastructure surveillance
- Autonomous exploration

Results

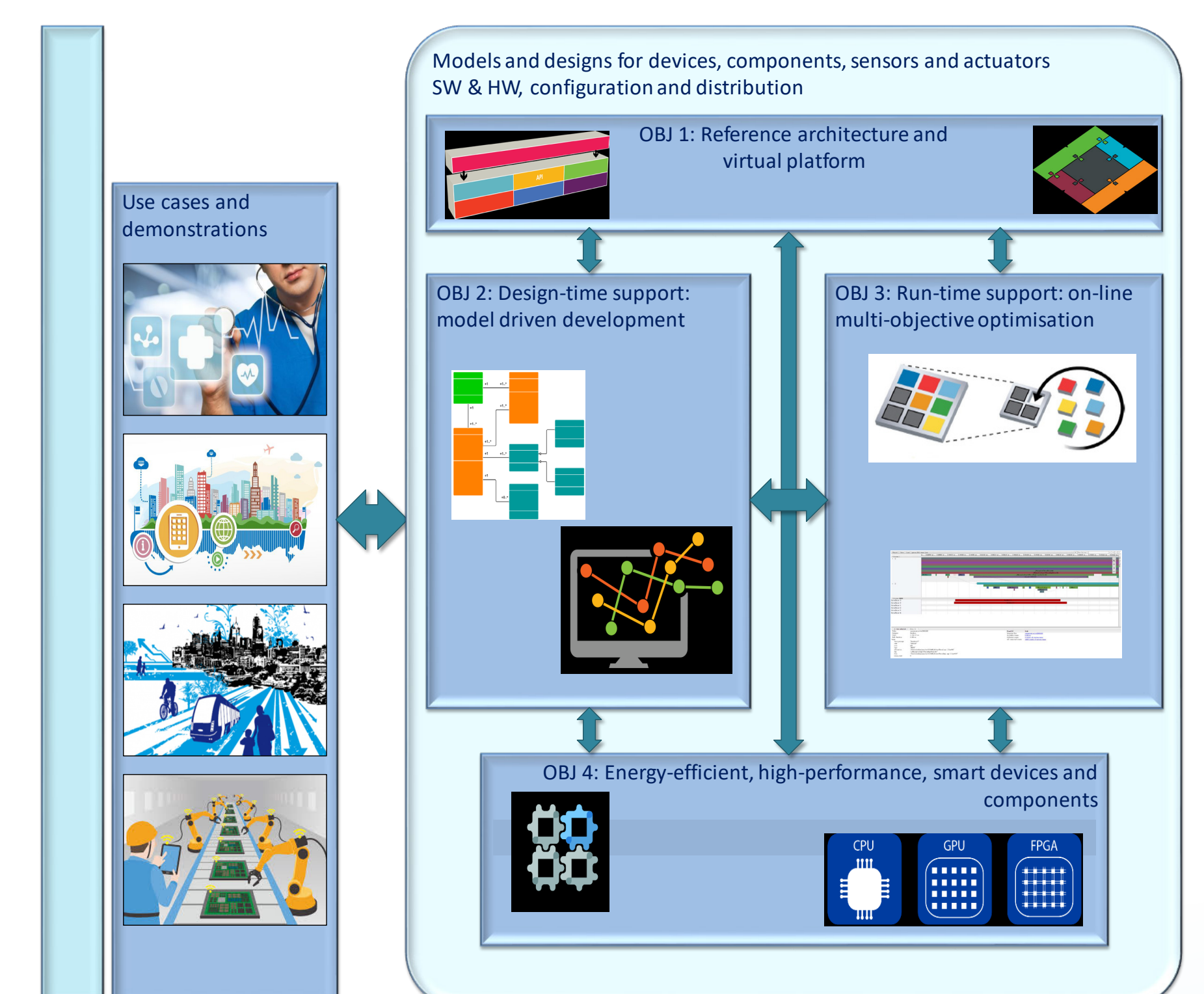
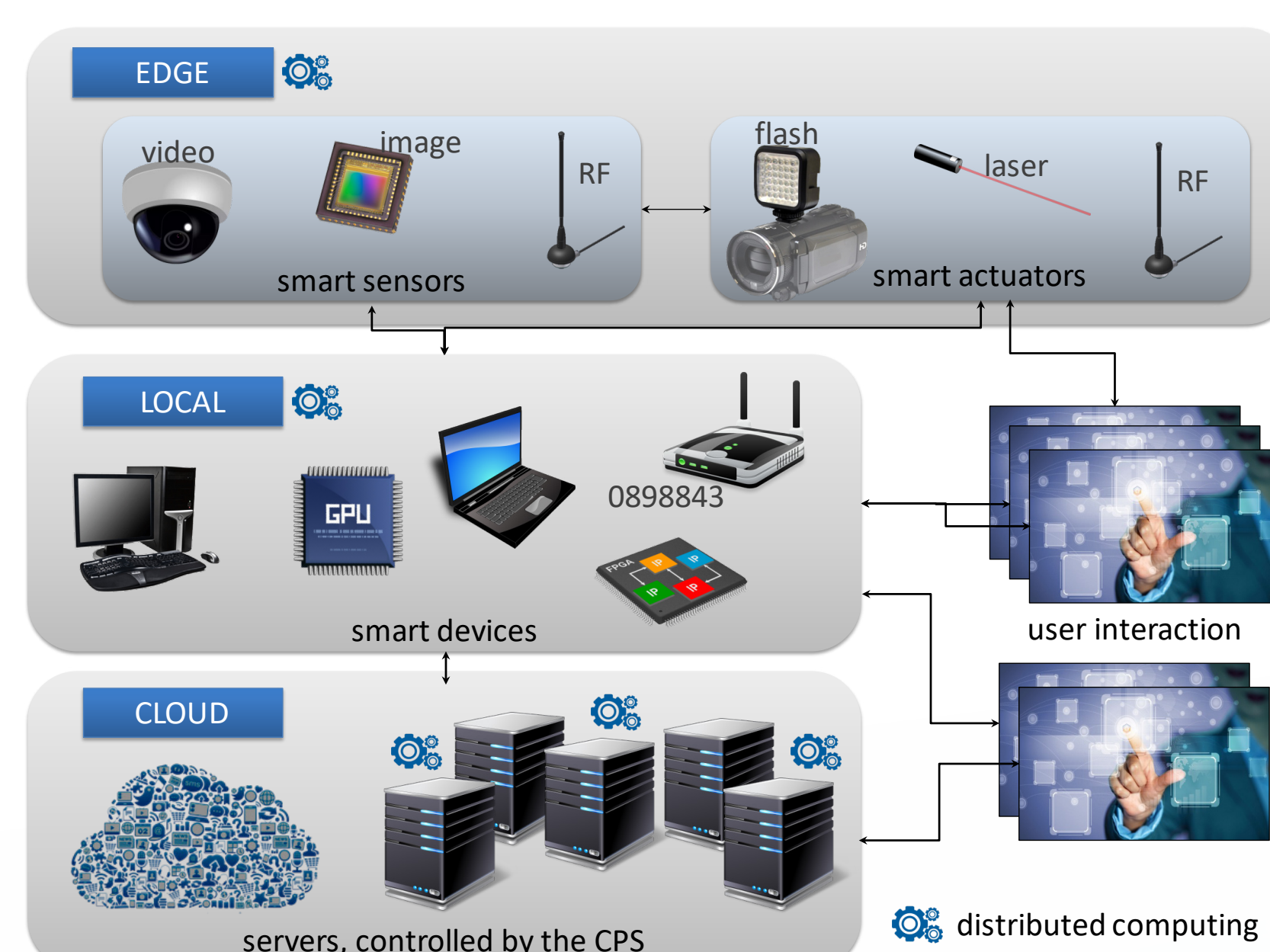
Reference architecture
Design portability
On-line multi-objective quality and resource management
Energy-efficient, high-performance, smart devices and components

Essential Technologies

- Smart System Integration
- Cyber Physical Systems
- Design Technology

Key application domains

- Smart health
- Smart Society
- Smart Production
- Smart Mobility



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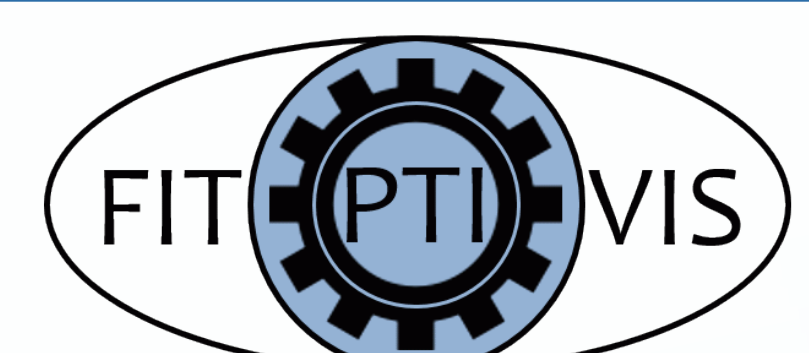
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Start
1-6-2018

Duration
36

Total investment
€M 2.5

Participating organisations
30

Number of countries
5