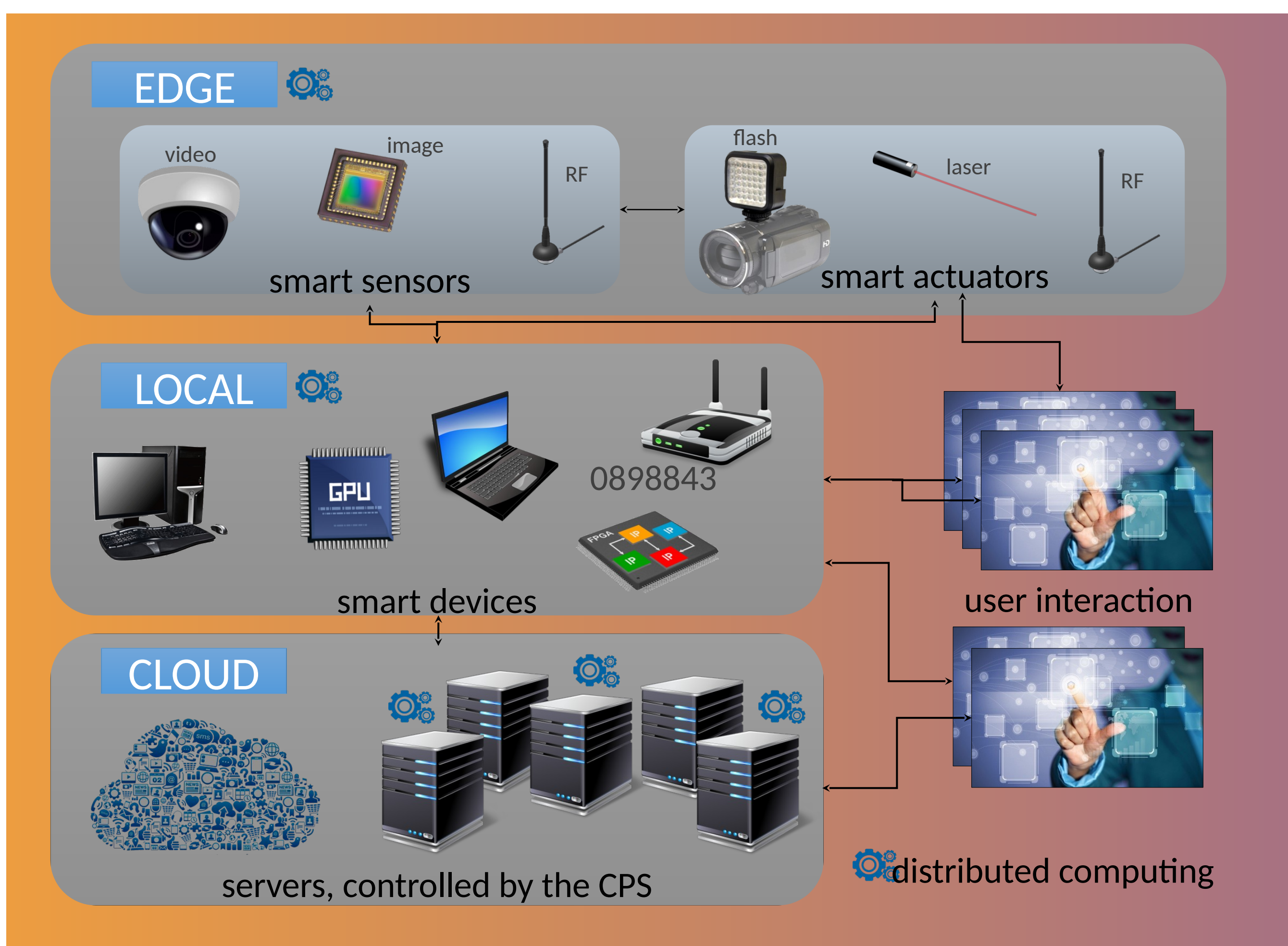
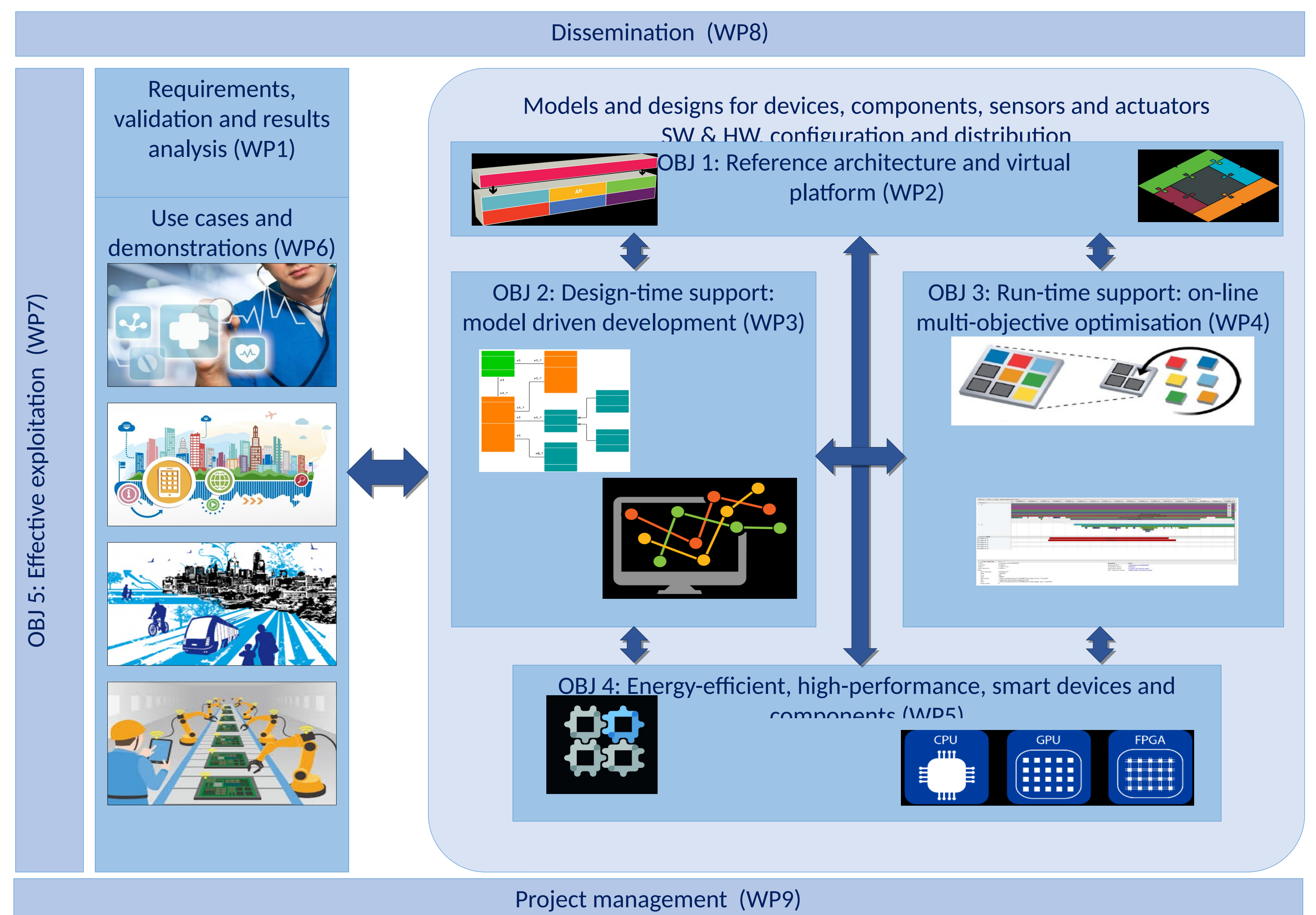


FitOptiVis

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

Challenges and 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.



Technical goals

- Reference architecture and virtual platform
- Design-time support: model driven development
- Run-time support: on-line multi-objective optimization
- Energy-efficient, high-performance, smart devices and components

Results after 16 months

- Architecture; Component models
- Domain Specific Language (DSL) for quality- and resource management
- Design-time optimization, deployment and programming strategies
- Run-time models
- Components analysis

Start: 1-6-2018 Duration: 36m
Total investment: €M 22.5
30 partners in 5 countries

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