ECSEL Joint Undertaking
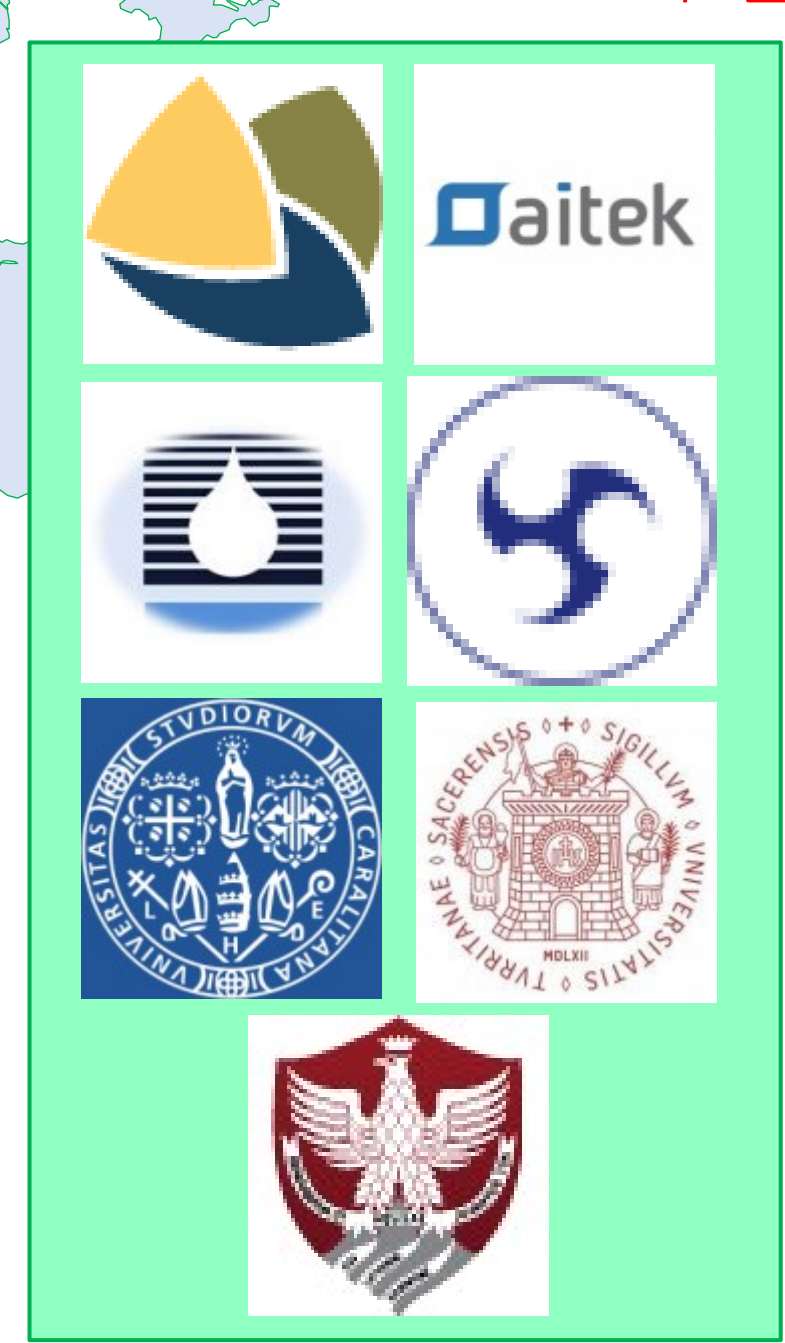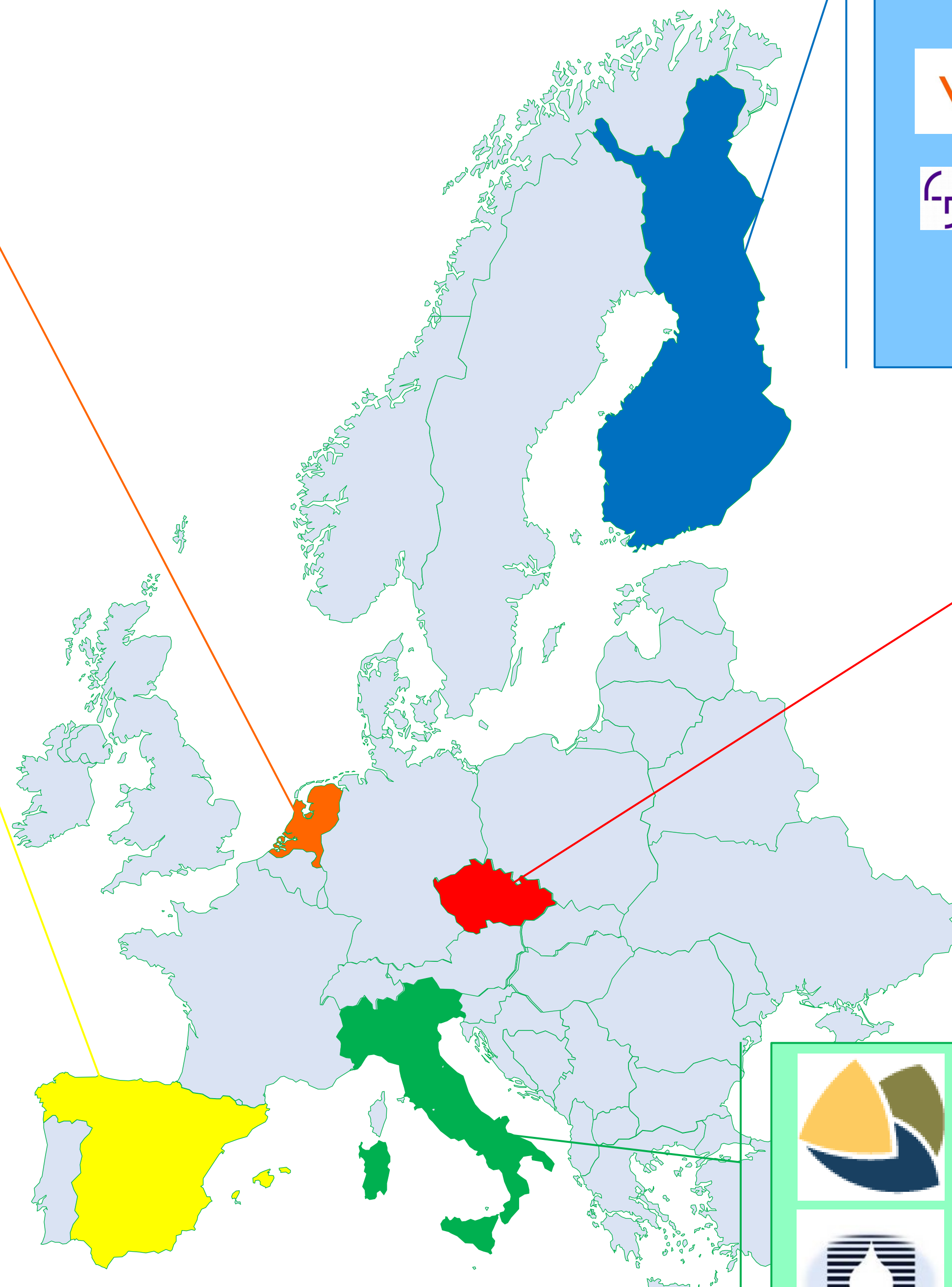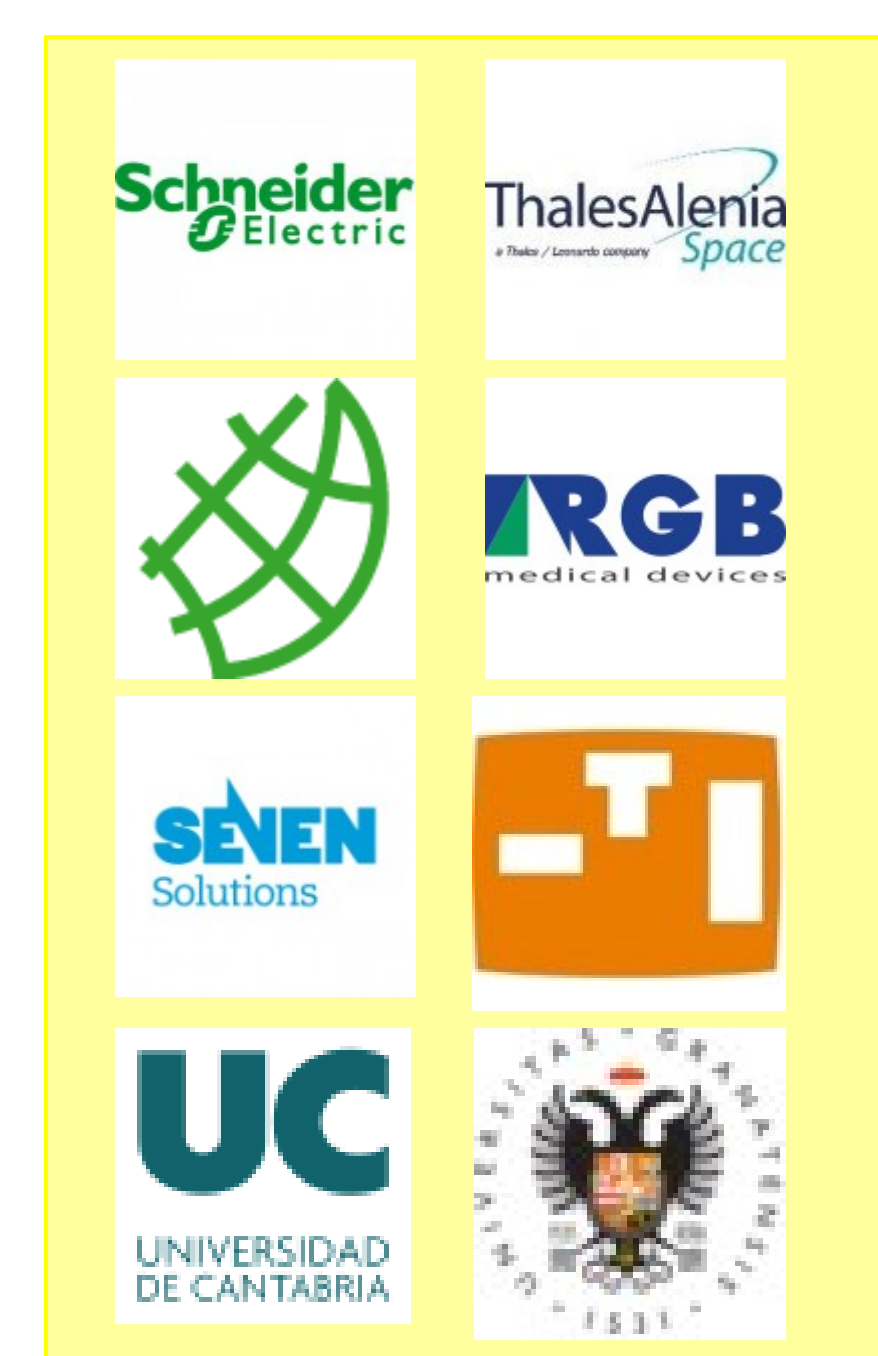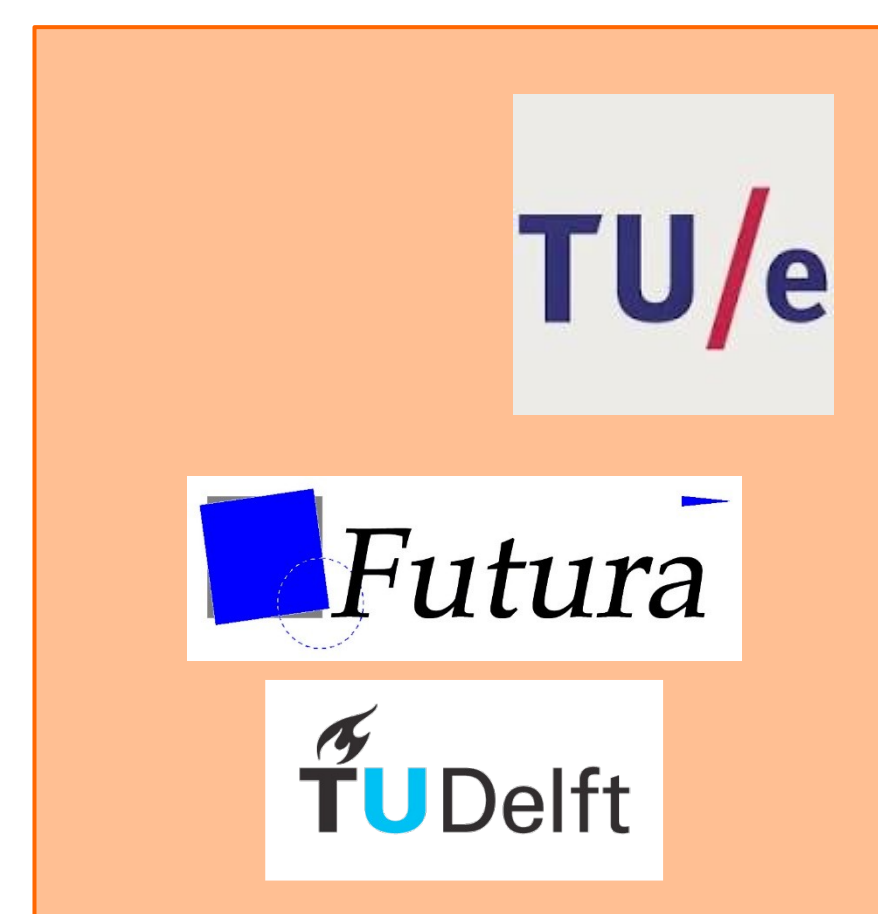Electronic Components and Systems for European Leadership

FitOptiVis

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

30 partners

- 5 Large Enterprises
- 11 SME
- 2 Research Institutes
- 12 Universities

Partner logos (map callouts): TU/e, Futura, TUDelft, Schneider Electric, ThalesAlenia Space, RGB medical devices, SEVEN Solutions, UC Universidad de Cantabria, NOKIA, Hurja Solutions, visidon, Tampere University, Turun yliopisto University of Turku, camea image & signal processing, REX Controls, ÚTIA, FIT Faculty of Information Technology, aitek
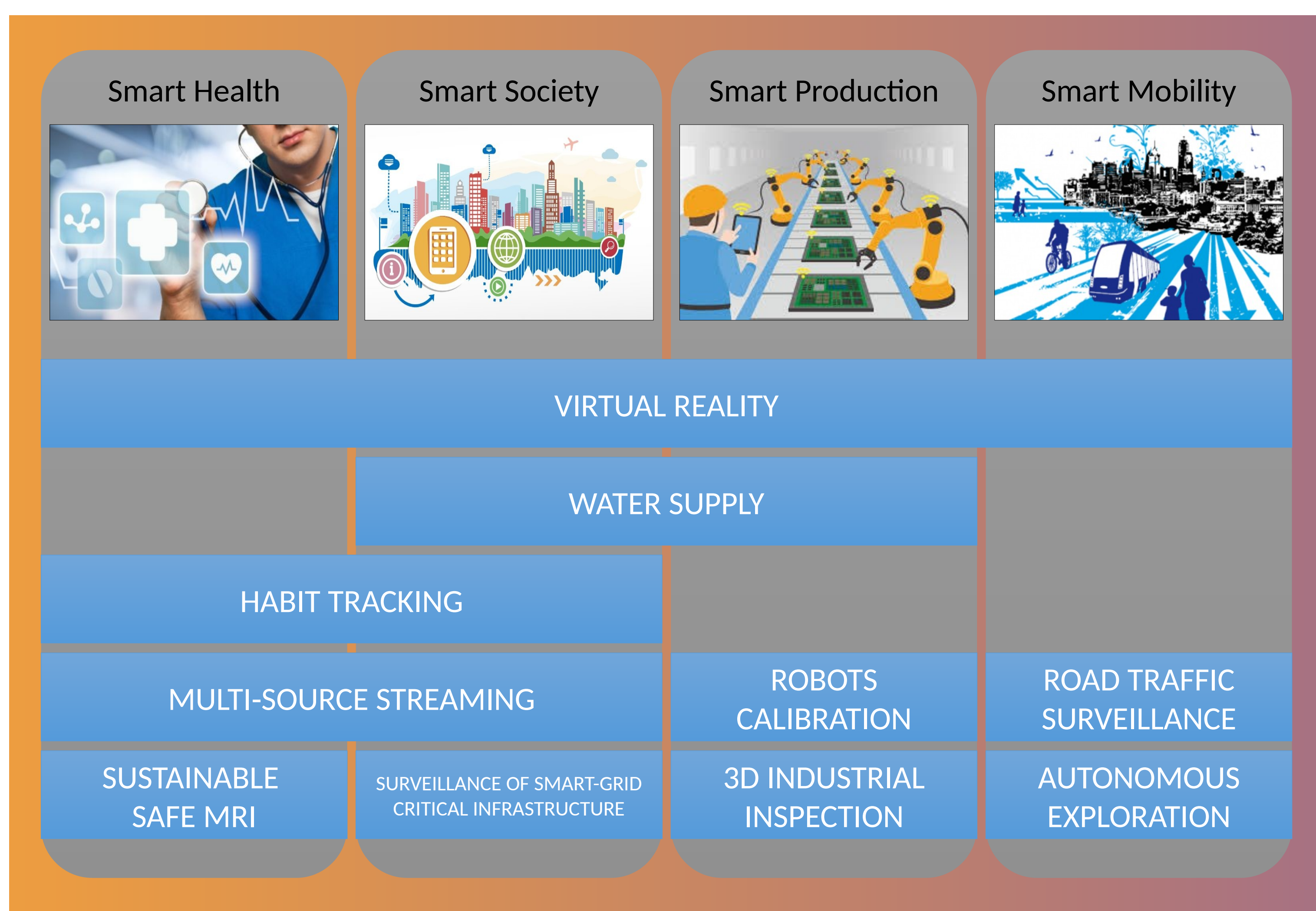
Use cases

10 use cases in 4 domains

- Smart health
- Smart society
- Smart production
- Smart mobility

Domain diagram:

	Smart Health	Smart Society	Smart Production	Smart Mobility
	VIRTUAL REALITY			
		WATER SUPPLY		
	HABIT TRACKING			
	MULTI-SOURCE STREAMING		ROBOTS CALIBRATION	ROAD TRAFFIC SURVEILLANCE
	SUSTAINABLE SAFE MRI	SURVEILLANCE OF SMART-GRID CRITICAL INFRASTRUCTURE	3D INDUSTRIAL INSPECTION	AUTONOMOUS EXPLORATION

Develop complex systems

Define systems, system-of-systems, products and services in many domains for video and imaging pipelines

- Several times more powerful than the current ones
- Several times more complex to design
- Ensure the safety and security requirements
- Similar development time and costs

Application domains / partners:

Domain	Partners
EARTH OBSERVATION	ThalesAlenia Space
LARGE CRITICAL INFRASTRUCTURES	SEVEN Solutions, S.A.T. S.p.A. SOCIETA' ACQUEDOTTI TIRRENI
INDUSTRY	REX CONTROLS
HOSPITALS	PHILIPS
ROAD	camea image & signal processing
PEOPLE	RGB medical devices, Hurja, HI iberia

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