

# Slovenian Future Internet Initiative (FI.SI)

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Future Internet.  
Slovenian Initiative



# From Bled via Brdo to Ghent

- The FIA BLED Declaration in March 2008



- The Slovenian Future Internet Initiative FI.SI:  
set up at Brdo in June 2010





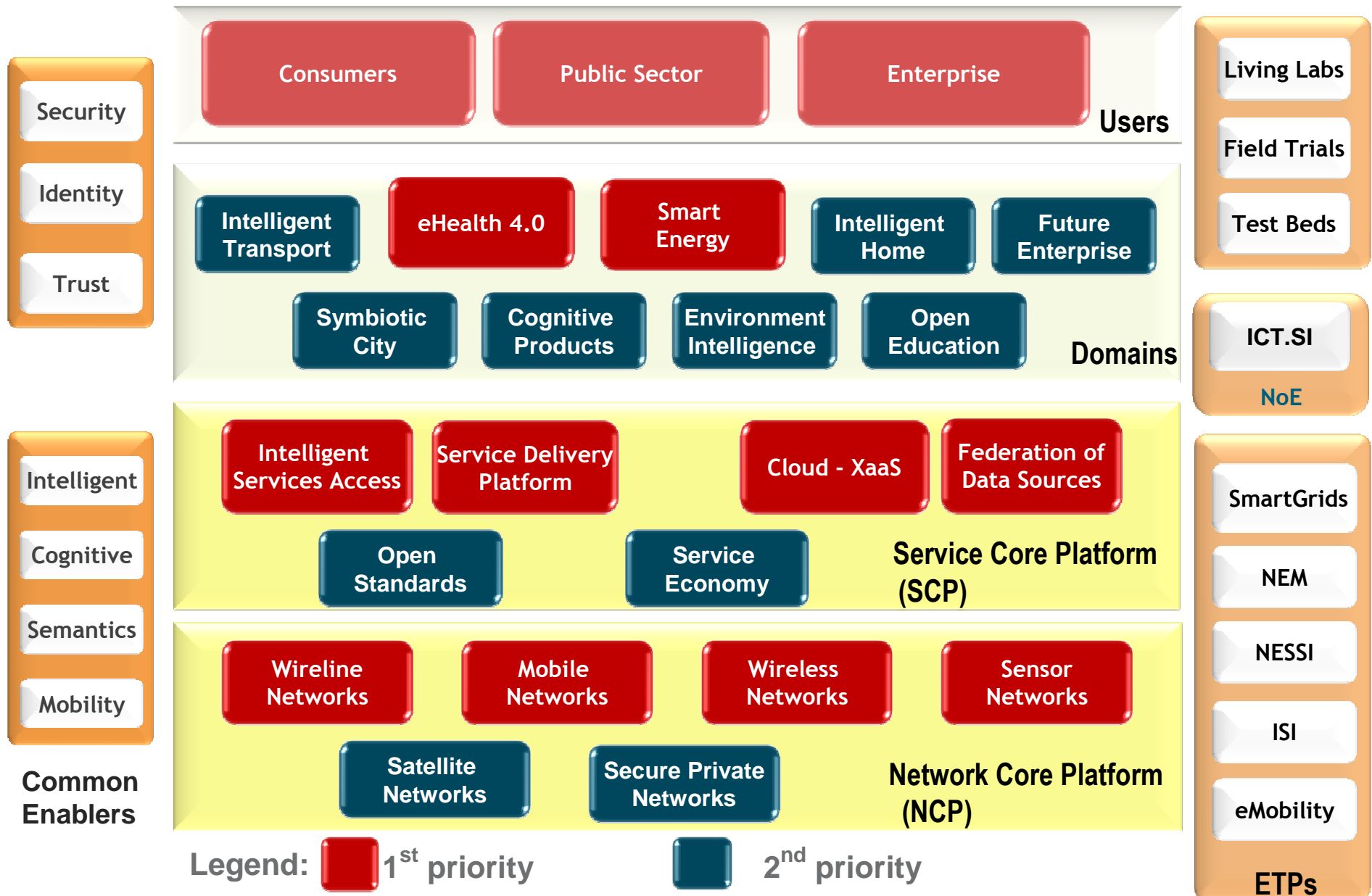
# Mission of FI.SI

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To **contribute** to the **EU Future Internet** leadership initiative by involving **Slovenia's** world class competences **of industrial and research** partners in order to set up one of the first **smart countries** in the world.



# FI.SI – Knowledge, Capacity, Interest





# Funded national R&D activities in the FI area

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- **Competence Centres: ~ 25.5 mio € (ERDF), 2011-2013**
  - OPCOMM - Open Communications Platform for Integrated Services (8 partners)
  - CLASS - CCloud Assisted ServiceS (17 partners)
  - STV - Advanced Control Technologies (16 partners)
  - SURE - Advanced System of Efficient Use of Electrical Energy (16 partners)
- **Centres of Excellence: ~ 10 mio € (ERDF), 2009-2013**
  - Space.si (11 partners)
- **Collaborative R&D & Deployment projects eContent & eServices: ~ 4,8 mio € (ERDF), 2008 -2013**
  - ~ 8 R&D / 4 Deployment projects
- **National Technology Platforms: ~ 100K €, 2005-2006**
  - NESSI, NEM, Artemis, eMobility
- **Centres of Excellence: ~ 1,2 mio € (ERDF), 2004-2006**
  - CO ICT (26 partners)



# FP7/ICT Research Projects

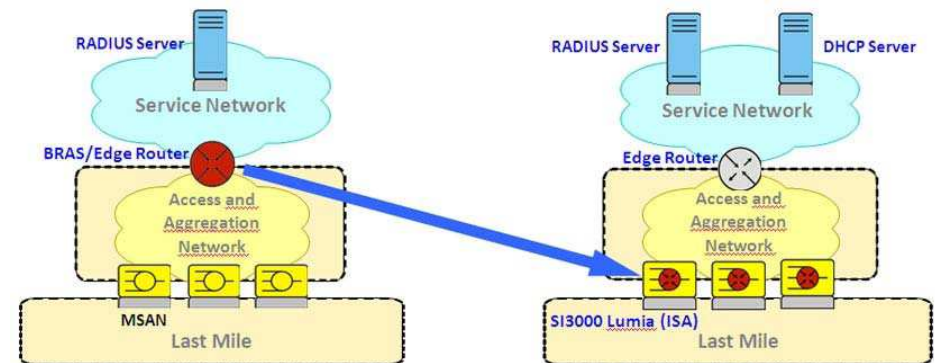
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- **56 Slovenian partners have been involved in 53 FP7/ICT projects in all Calls and FET, they have got 15.706.801 € EU funding**
- **Some of IP projects with more than 5 Mio EUR EU funding:**
  - ACTIVE (Enabling the knowledge powered enterprise)
  - CD-MEDICS (Coeliac disease - management, monitoring and diagnosis using biosensors)
  - CHRONIOUS (An open, ubiquitous and adaptive chronic disease management platform)
  - COGX (Cognitive systems that self-understand and self-extend)
  - COIN (Collaboration and interoperability for networked enterprises)
  - EURIDICE (European inter-disciplinary research on intelligent cargo)
  - GN3 (Multi-gigabit european research and education network and associated services)
  - LARKC (Large scale semantic computing semantic Web technologies)
  - OMEGA (Home gigabit access)
  - P2P-NEXT (Next generation peer-to-peer content delivery platform)
  - PASCAL2 (Pattern analysis, statistical modelling and computational learning)
  - SLA@SOI (Empowering the service economy with SLA-aware infrastructures)
  - MetaNet/T4ME (Technologies for the multilingual European Information Society)
- **Arnes - the Academic and Research Network of Slovenia sharing the international connections with educational and research networks GEANT, which is co-financed by the European Commission**

- **Content- and service-aware Intelligent Services Access (ISA)**

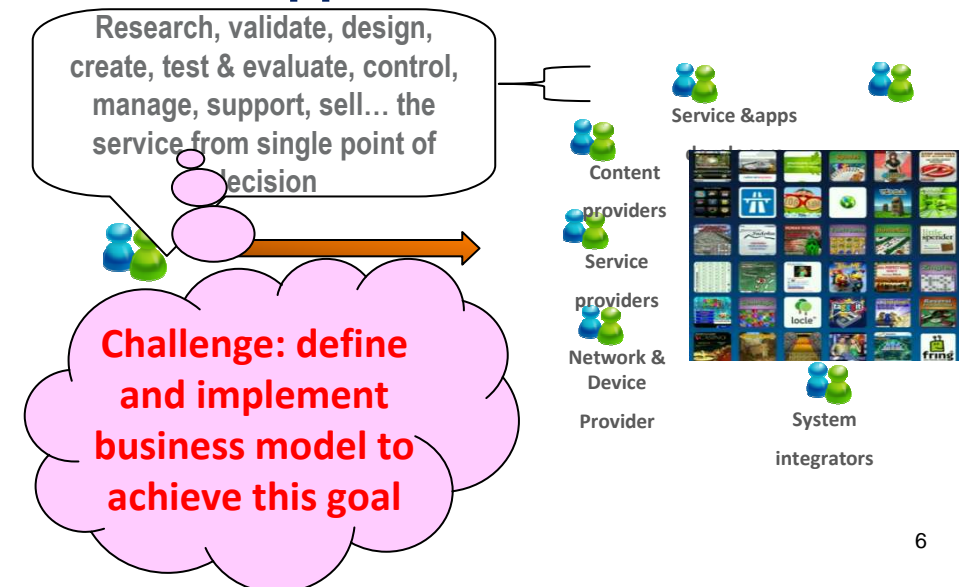
- Open with “brains” at the edge
- A variety of access technologies
- A variety of business models
- Aligned with EU Telecom reform

- **Sensor as a Service**



- **Rapid Services Creation on Open Services Application Platform**

- OSAP as light open telco SDP
- OSAP can be adjusted easily for various domains
- RSC.OSAP – standard APIs
- Two-sided Business models to be defined



- **Reference:** Competence Centre  
OPCOMM





# Service Core Platform: Cloud Computing & Federation of Data Sources

*Cloud Assisted ServiceS*  
- CLASS

- **Cloud Computing Competence Centre**

- Research and development on various cloud delivery models
- Promotes Cloud Computing as something that goes beyond new technologies and as an enabler for new services and new business models
- Develops innovative services in cooperation with companies



- **EuroCloud Slovenia**

- An ecosystem of companies at the national level under the EuroCloud brand within the pan European Cloud Computing business network
- Promotes a stimulating environment for development and growth of the Slovenian industry in conjunction with the EU
- Builds national, European and international relationships through business and technological partnerships





# Domain: eHealth 4.0

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- **Biomedicine and Telemedicine**

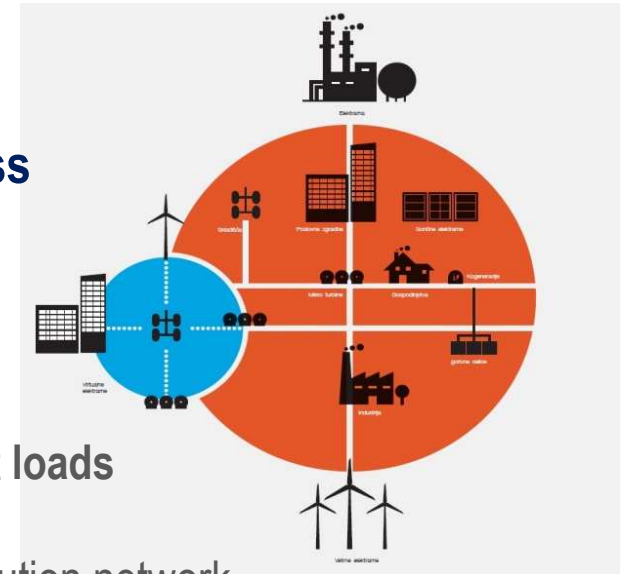
- Biomedical results from **Space Habitat** used for health care at Hospitals
- **ICT services for patients and medical staff (biosensors, smart devices, ...)**
- **Advanced Remote Assistance** for AAL outside Hospitals
- The Competence Centre “**KC e-BIOMED**” has **strong intention to continue** the starting teamwork together with the world well-recognized authorities and to prepare a solution of “EU Commercial-of-the-Shelf products” for the Slovenian citizens, which can be applicable also to the other EU regions
- The Olympic Nordic Centre in Planica serves as a Living Lab
- Common **research project** on telemedicine together with the **neighbouring countries** (Croatia, Macedonia)

- **Project “eZdravje” at the Ministry of Health**

- **KZZ Online - New Health Personal & Insurance Card**
- **National eHealth Information System** – ubiquitous ICT surpass old barriers
- FI.SI members are **NOT involved in this project** and have made a survey of the project so far

## Virtual power plant

- **Managing consumption and distributed generation across a network of industrial and commercial prosumers**
  - **Energy consumption control**
  - Proven, fully-automated solutions for optimization **the balance of electric supply and demand**
  - Computer **algorithms for managing** a wide range of different **loads**
  - Integration of distributed **renewable energy sources**
  - Improved informatisation of electricity transmission and distribution network
  - Communication security and interconnectivity
  - Fully **automatic system** with support **for different pricing schemes**
  - **Four user groups:** Transmission system operators, Distribution system operators, Electricity suppliers, Industrial and commercial electricity consumers/producers
- **References:**
  - Competence Centre for Advanced Control Technologies
  - Competence Centre – Advanced System of Efficient Use of Electrical Energy
  - Slovenian Technology Platform SmartGrids





# Federated Testing Infrastructures

- **Test beds, Early Trials and Living Labs:** the aim is to develop a national federated testing infrastructure for Future Internet Technologies and Services with SINTESIO\* test laboratory as core networking infrastructure and demonstration facility along with FIRE

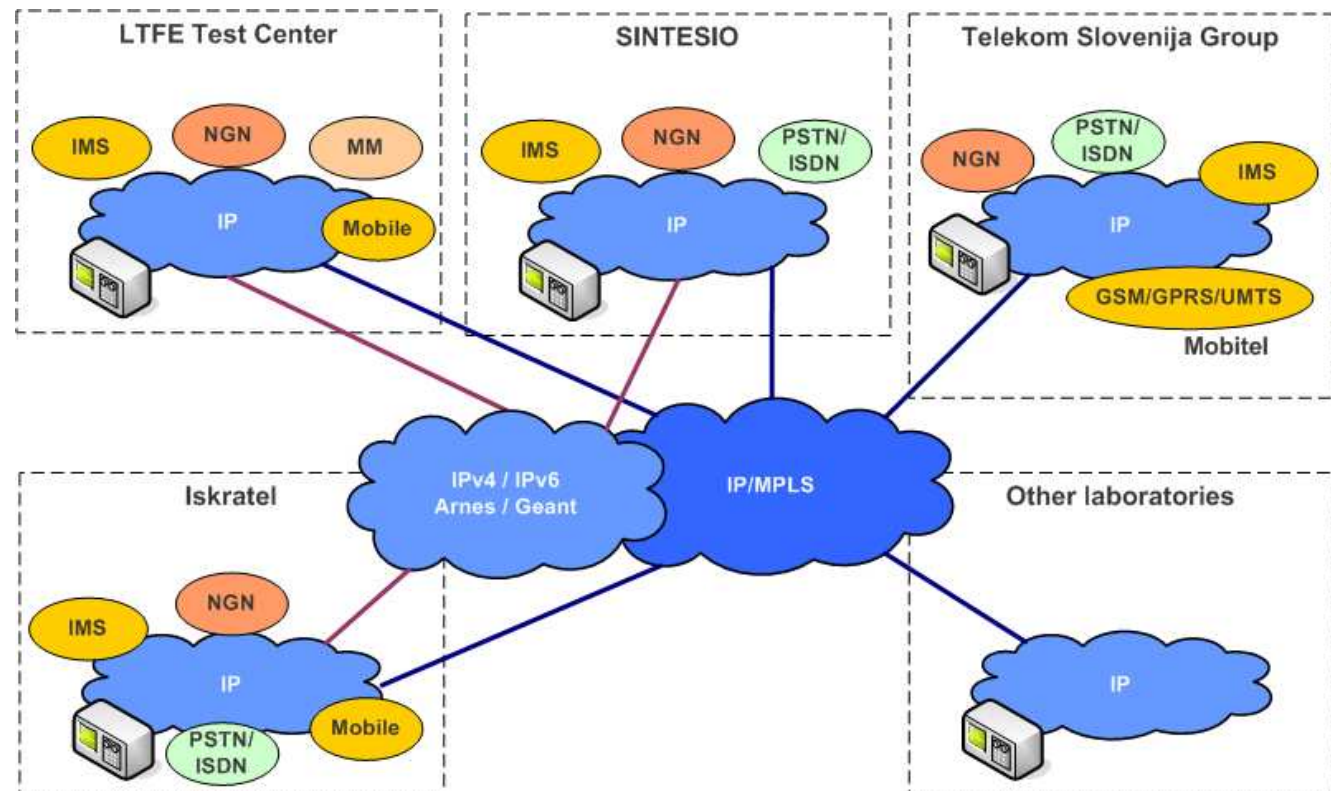
## Virtual testbed facilities

### Competences

- Network configuration & management
- Testbed complex infrastructure design & integration
- test scenario design and test execution

### Living Lab activation potentials:

- technology providers
- operators
- service providers
- public institutions
- end users



\* non-profit NGN test laboratory, endorsed by European Telecommunication Standardization Institute (ETSI), and co-founded by industry partners, standardization institutions, and university.



# FI.SI: Members and Supporters



Institut "Jožef Stefan"



University of Maribor

Faculty of Electrical Engineering and Computer Science



NEM Slovenija



Biomedical Research and Innovative Society





# Thank you for your attention

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