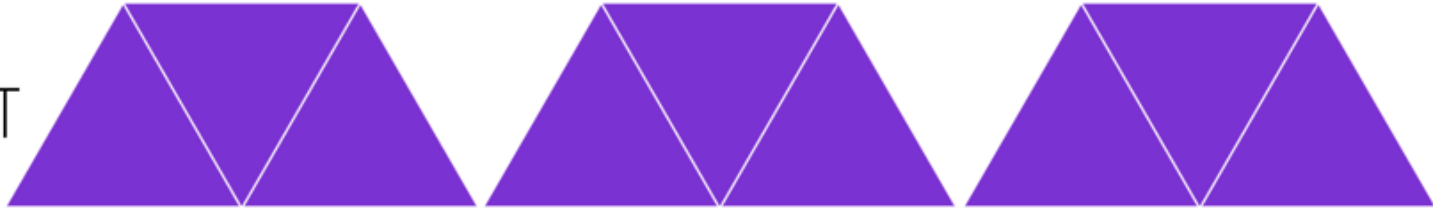


RACE TOWARDS INCLUSIVE KNOWLEDGE SOCIETY

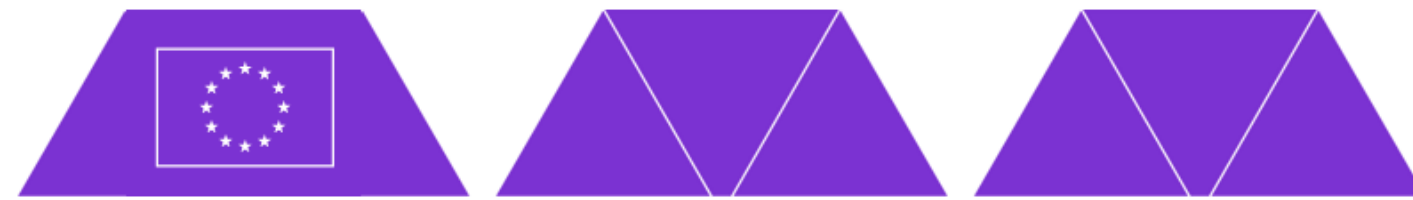
**FUTURE INTERNET PUBLIC
PRIVATE PARTNERSHIP**



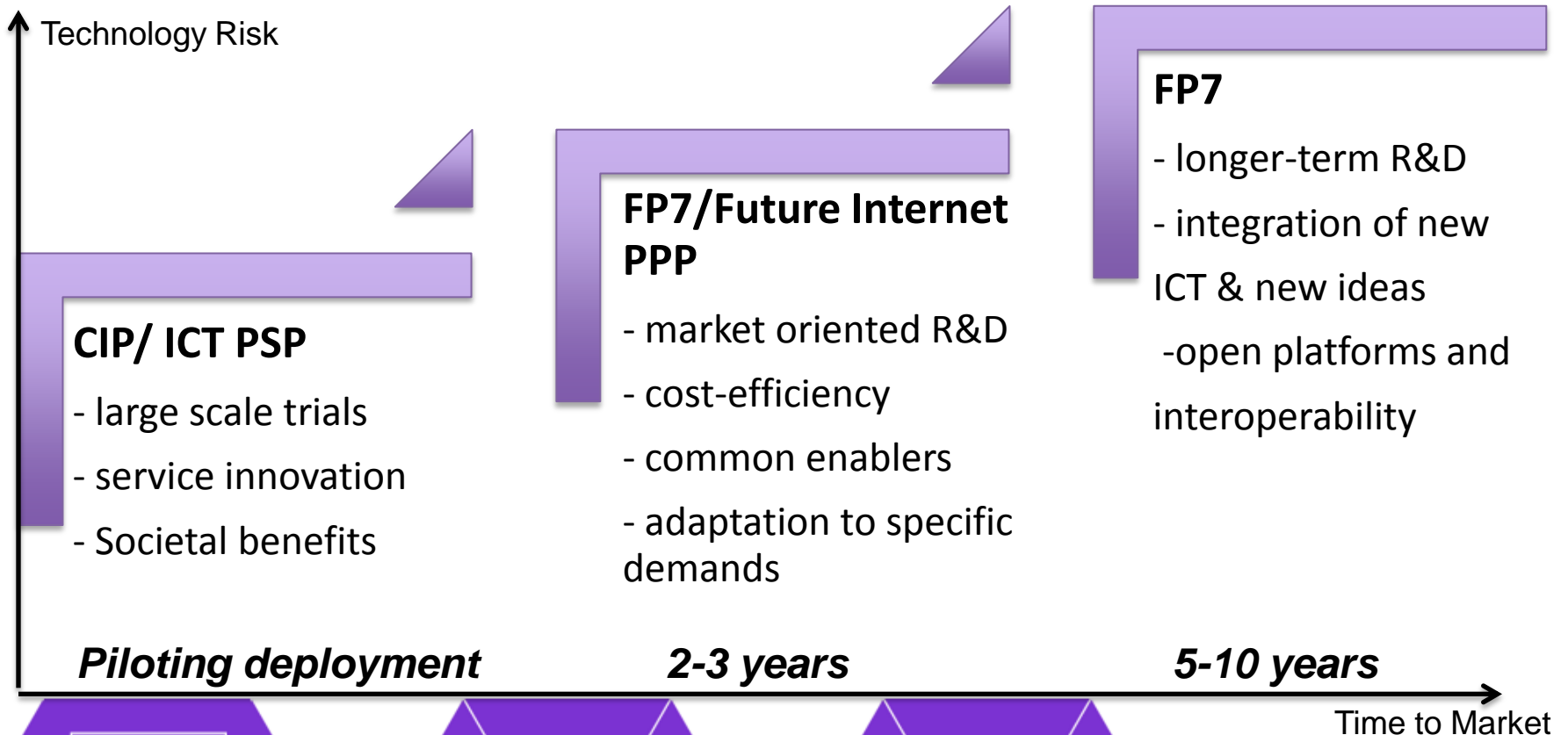


WHY FUTURE INTERNET PPP?

- ⦿ Future Internet is a core infrastructure in society, a backbone for smarter cities and regions
- ⦿ Novel societal and commercial usages are challenging the original Internet architecture
- ⦿ Increased urgency to:
 - ⦿ Assume systems perspective and analyze the market impacts
 - ⦿ Prioritise visions and research directions in ICT
 - ⦿ Accumulate critical mass and engage wider communities
 - ⦿ Align and work across Work Programs and Calls

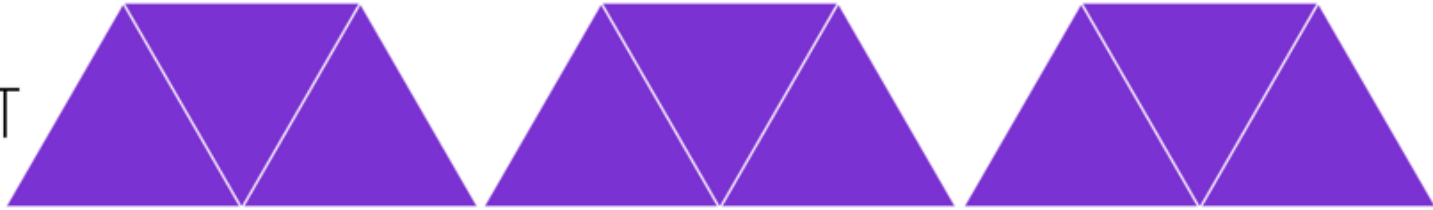


EC APPROACH TO FUTURE INTERNET DEVELOPMENT



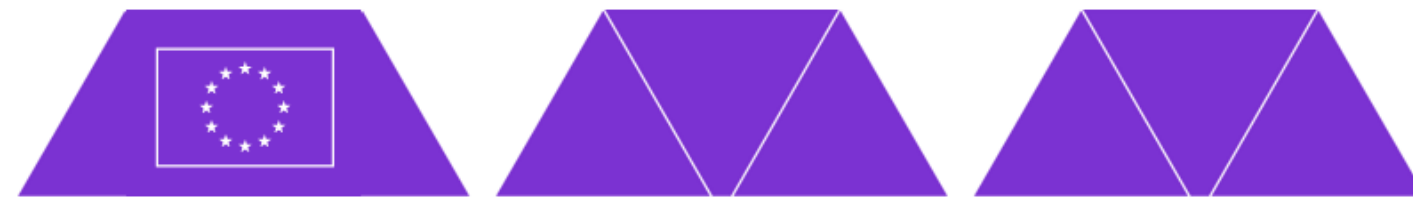
THE REAL OBJECTIVE

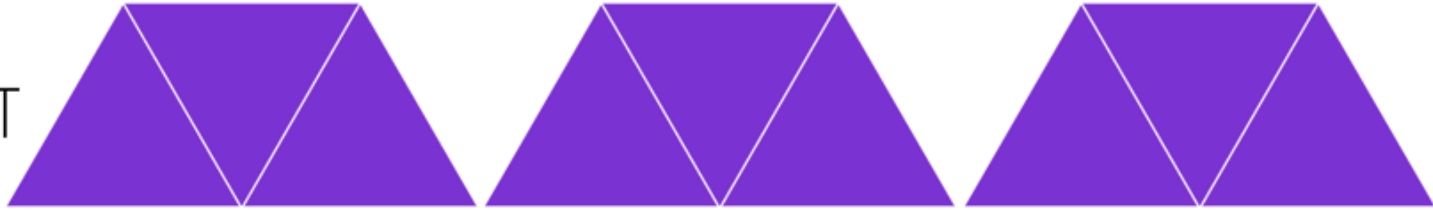




INDUSTRY LEAD, MARKET ORIENTED R&D

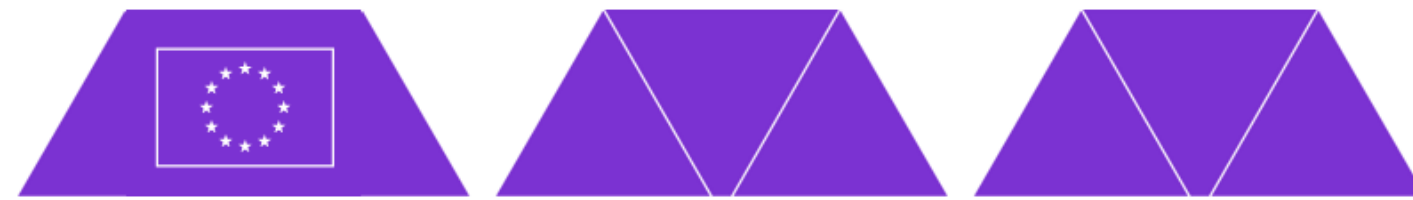
- ◎ This is what PPP's are all about
- ◎ Market impacts are analyzed and steer the work

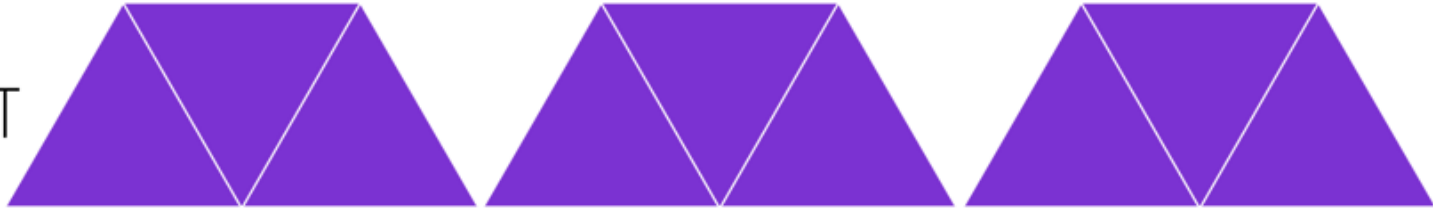




SHARED VISION, MISSION AND GOALS

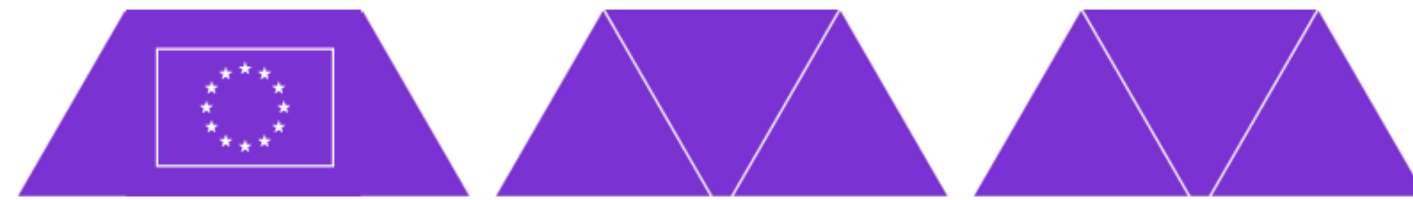
- ◎ Visionary leadership is needed in the times of change and heavy competition
- ◎ Shared vision makes prioritization possible

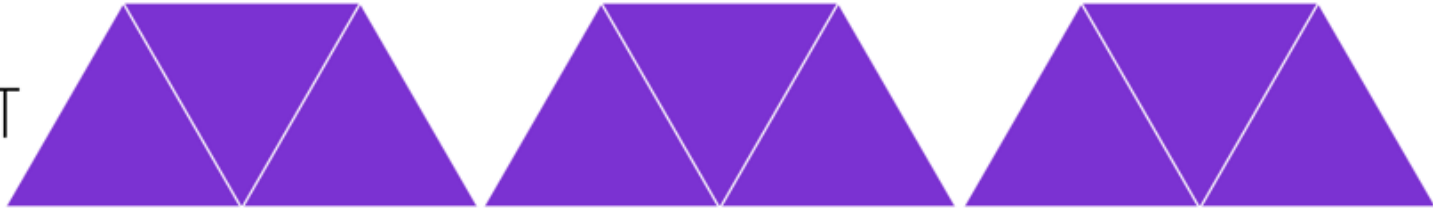




CRITICAL MASS THROUGH COLLABORATION

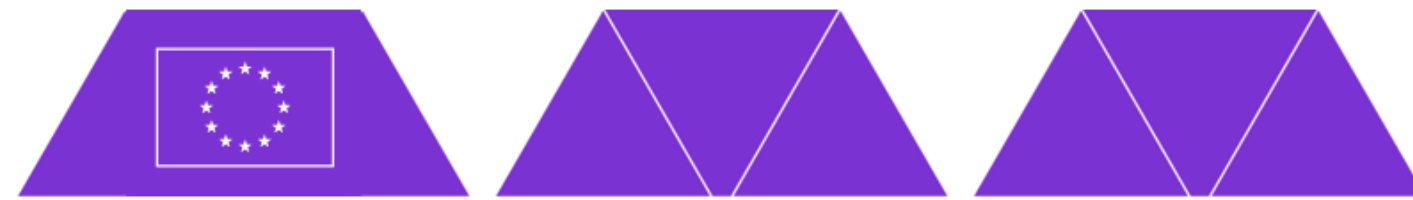
- ⦿ Together we can do much more
- ⦿ A program! Not a loosely coupled set of projects

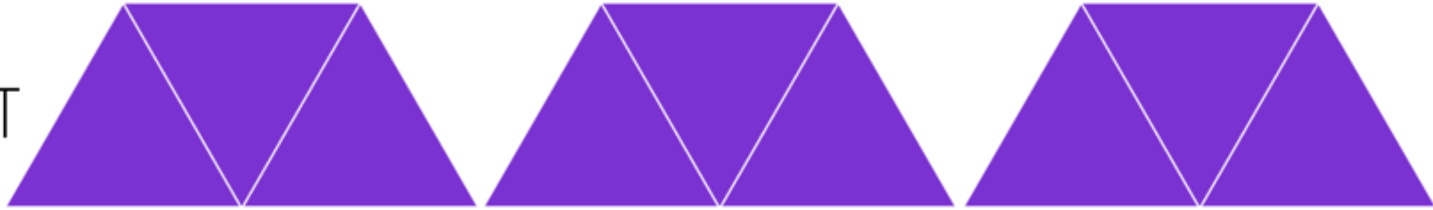




USER-DRIVEN

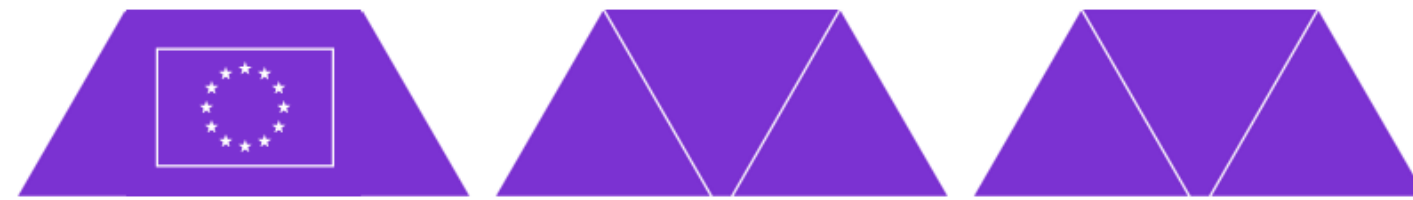
© From the very beginning to the very end!

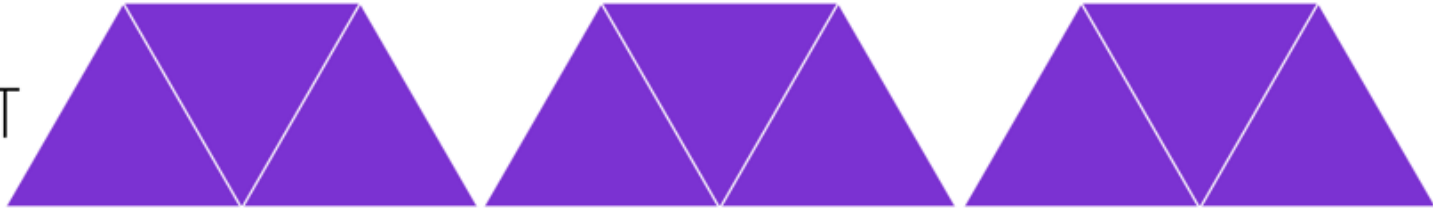




NOT RE-INVENTING AND AGAIN RE-INVENTING THE WHEEL

- ◎ Builds upon and complement existing efforts in FI research
- ◎ Cost-efficiency!

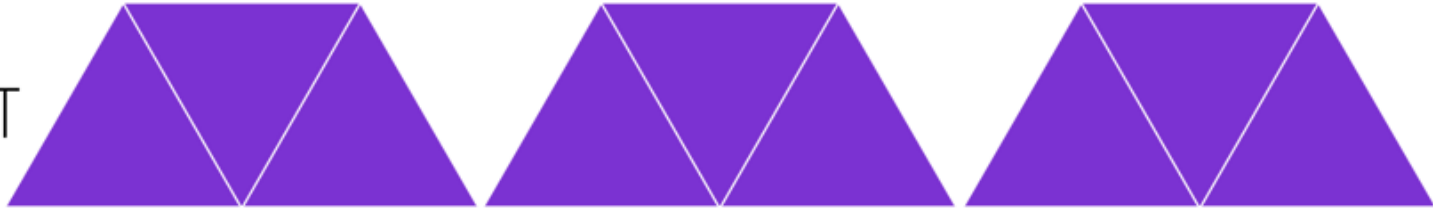




MULTISECTORAL, FOCUSING ON GENERAL ENABLERS

- ⦿ Not solving the problems of just a single industry vertical
- ⦿ Breaking down the proprietary barriers between different applications, platforms and sectors

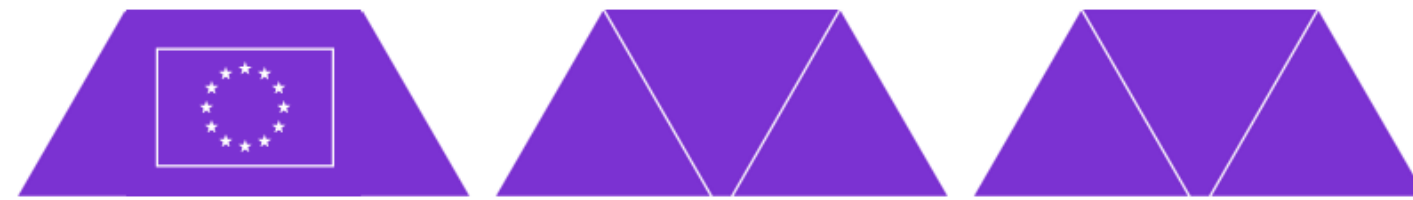




GAP BRIDGING

⦿ Between

- ⦿ Private and public interests,
- ⦿ Demand and supply side stakeholders,
- ⦿ The technology development, deployment and commercialization





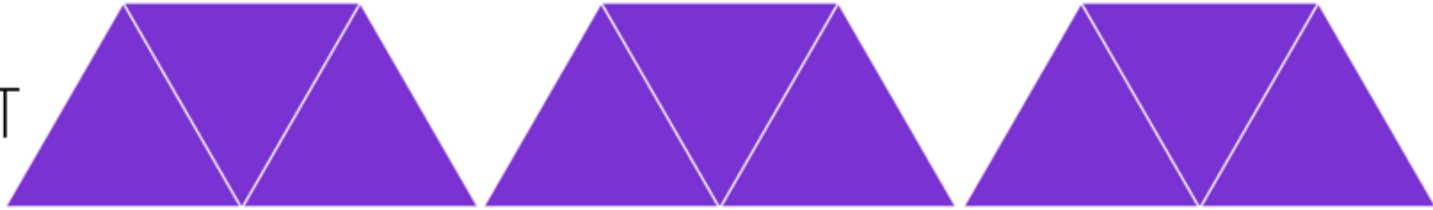
EXPECTED FI PPP OUTCOMES (1)

- ⦿ Identification, definition and up-dating of the Future Internet requirements
- ⦿ Specifications for an open standardised generic framework combining the required network, data, computing and services components
- ⦿ Stock-taking and further valorization of the results already achieved through earlier European research
- ⦿ Broad based SME involvement



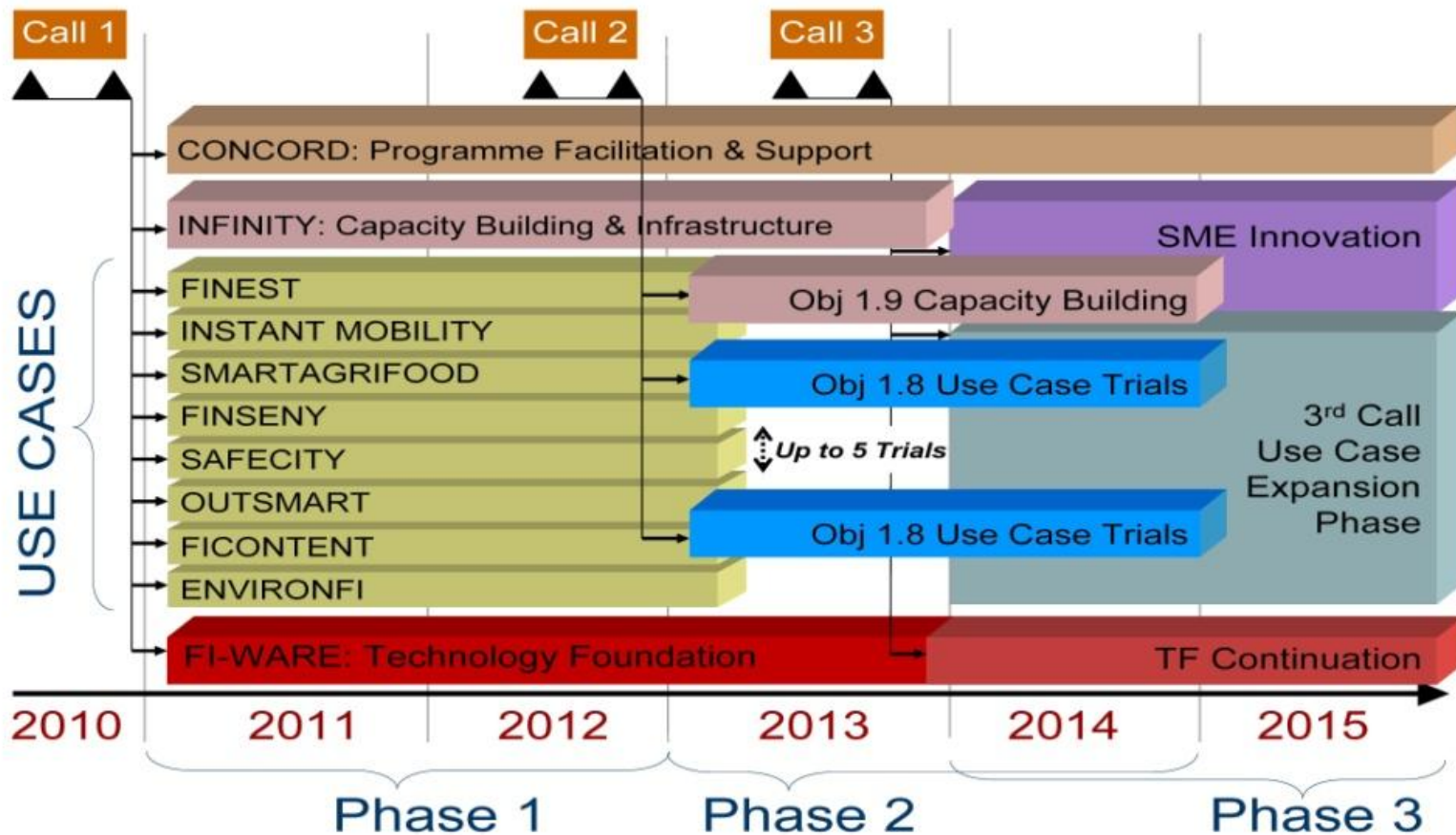
EXPECTED FI PPP OUTCOMES (2)

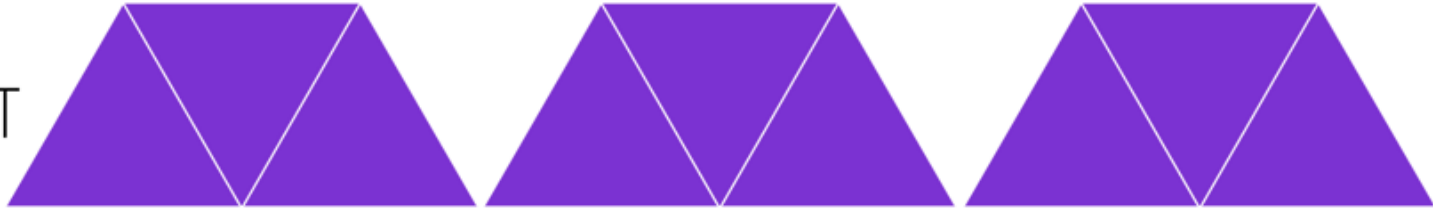
- ⦿ Validated set of the technologies to support user driven innovation schemes in real application contexts
- ⦿ Platform validation through large scale trials
- ⦿ Establishment of standardised interfaces where feasible
- ⦿ Contributions to EC and national policy and research agendas
- ⦿ Alignment with other ongoing Future Internet research initiatives



FI PPP PROGRAMME IMPLEMENTATION

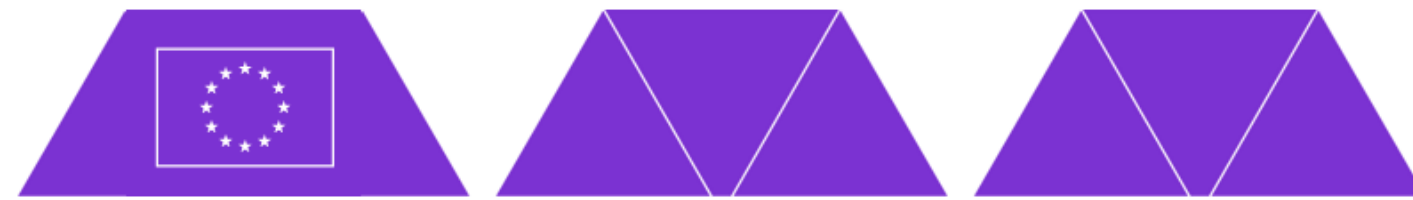
Three-phased approach with open calls





FACTS AND FIGURES

- Investment by the European Commission €300 million
- Programme Participants €300 million
- Partner organizations and companies 158
- Industry share in the programme 68%
- Academic institutions 18
- Countries represented 23

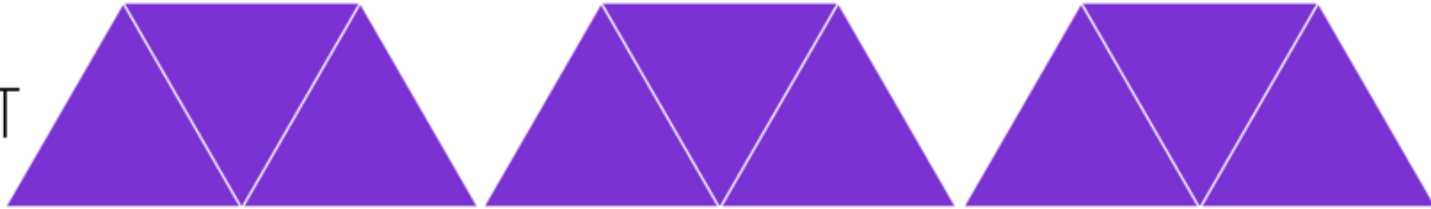




FI PPP PROJECTS

© **FI-WARE - Technology Foundation**

FI-WARE is a 3-year large scale Integrated Project that will develop an innovative infrastructure for cost-effective creation and delivery of services, providing high Quality-of-Service and security guarantees. The most important result will be an open architecture and a reference implementation of a novel service infrastructure, building upon generic and reusable building blocks developed in earlier research projects.



FIWARE



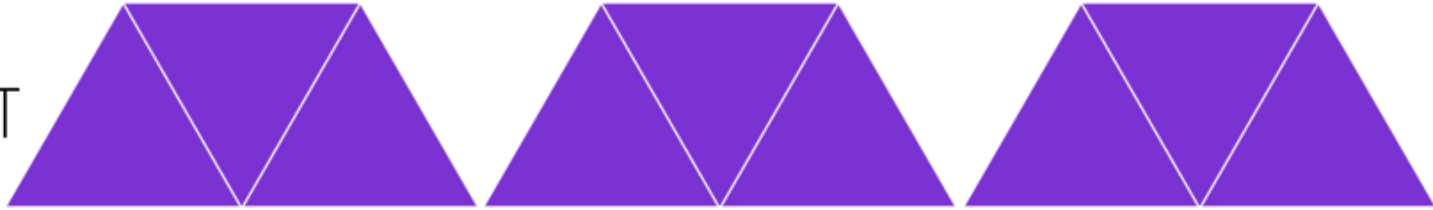
Main data

26 partners
5 Universities
4248 Person Months
(excl. open calls)

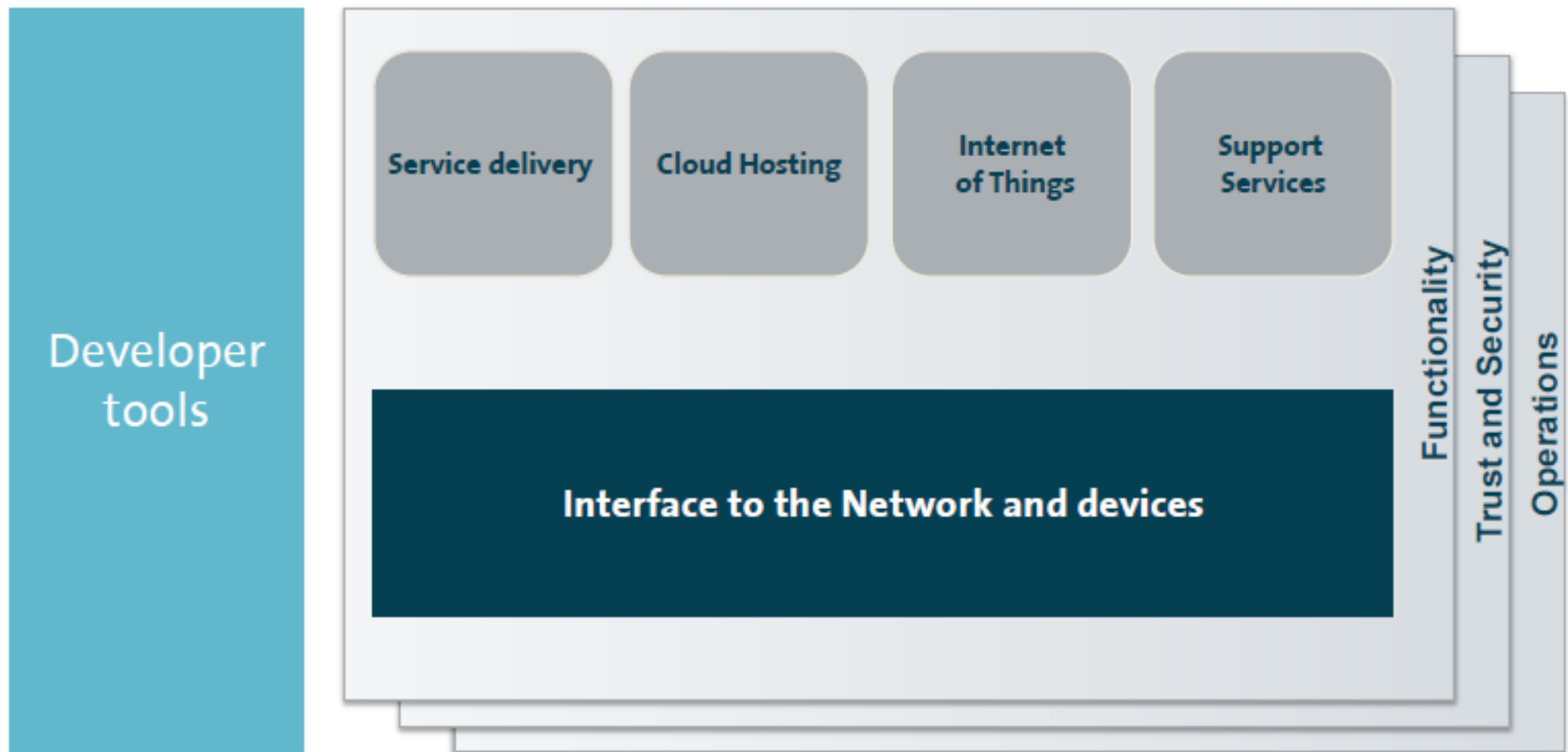
Total Funding 41 M€
Open calls 12,3 M€
Total budget 66,4 M€

Three years duration





CORE PLATFORM ARCHITECTURE



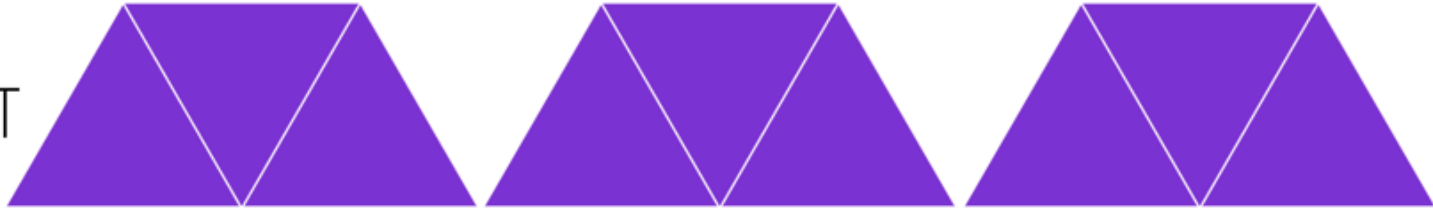
FI PPP PROJECTS

◎ **CONCORD - Programme Facilitation & Support**

CONCORD is a 5-year Coordination Action for facilitating collaboration and ensuring coherent and non-disruptive management support for the Programme. The project builds on previous experiences in FI and related research, focusing on future oriented strategic planning for the FI-PPP. Tight networking with related activities and initiatives allows Concord to facilitate cross-project knowledge transfer and co-creation. It will further support the handling of technical and non-technical horizontal aspects related to standardisation, legal framework, SME and user communities.

◎ **INFINITY - Capacity Building & Infrastructure Support**

INFINITY is a 3-year Support Action providing infrastructure support and capacity building for the Future Internet community (grant requested € 3 million). The project will collaborate with organisations across Europe to identify and make known available infrastructures with any interoperability requirements and issues that may arise. A dynamic repository based on a set of community-driven Web tools will be realised to promote the evolving vision of available infrastructures 'as a living organism'.

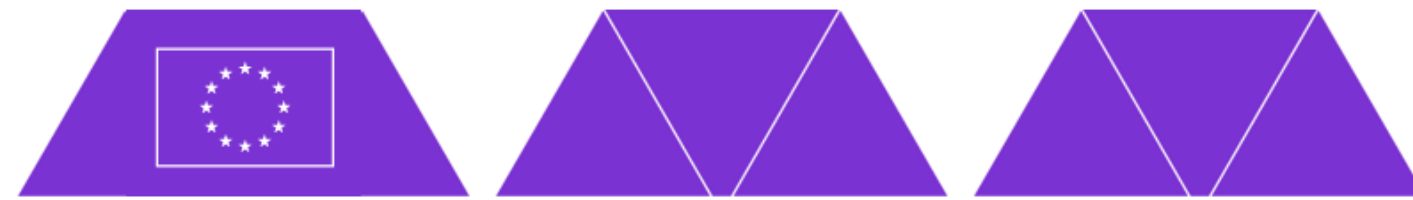


FI PPP PROJECTS

© Use Case Scenarios and Early Trials

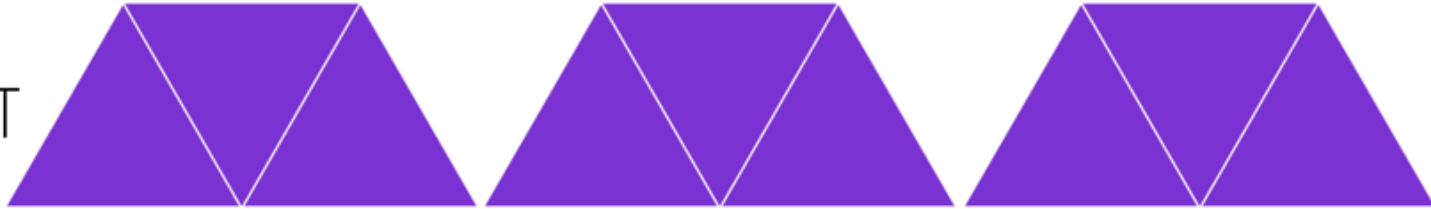
Eight technologically innovative Integrated Projects with a high social and economic impact from a wide range of application areas are carried out in tight collaboration with the FI-WARE Technology Foundation project.

FI PPP Phase 2 will include experimentation with 5 Use Case Trials, leading to Use Case implementations in Phase 3.





FUTURE INTERNET PPP



FI-WARE platform will serve objectives of usage areas and will have the ambition of fulfilling the needs of a broader market



Smart city
(OUTSMART)



Content
(FI-CONTENT)



Energy
(FINSENY)



Environment
(ENVIROFI)



Logistics
(Flnest)



Safety
(SafeCity)



Agriculture
(SmartAgrifood)



Traffic and Mobility
(Instant Mobility)



FI PPP PROJECTS

- ◎ **FINEST** The Finest project is developing a Future Internet enabled ICT platform to support collaboration and integration of international freight transport and logistics business networks. Finest designs the envisioned solution driven by concrete business requirements and provides detailed specifications for its technical realization. Further, it defines a representative set of real-world use case scenarios with detailed plans for conducting large-scale experiments, and a suitable FI experimentation environment for transport and logistics.
- ◎ **INSTANT MOBILITY** The project focuses on the use of future Internet services in the urban multimodal travel and transportation domain urban personal mobility. A platform for information and services will be developed, able to support new types of connected applications and serving multimodal travellers, drivers and passengers, passenger transport operators, goods vehicle operators, road operators and traffic managers.

FI PPP PROJECTS

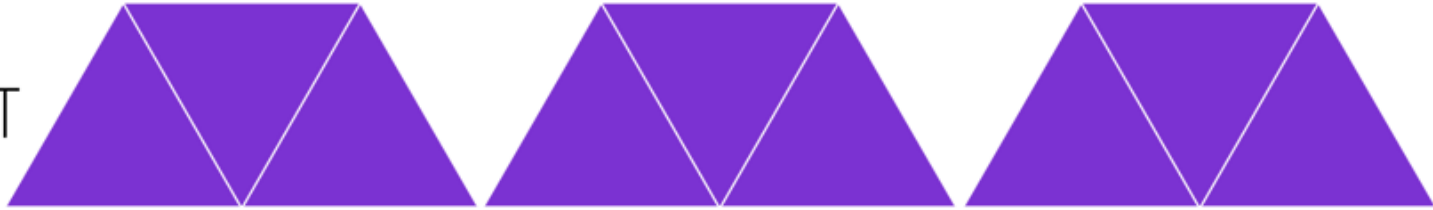
- ◎ **SMARTAGRIFOOD** The project focuses on: smart farming with sensors and traceability; smart agri-logistics with realtime virtualization; connectivity and logistics intelligence; and smart food awareness through transparency of data and knowledge representation. Project develops use case descriptions, requirements for generic enablers, extensive community and user organisation involvement, specifications for interfaces as well as contributions to standardisation and regulatory bodies in Europe.
- ◎ **FINSENY** The project aims at bring together ICT actors and energy sector actors to work on new energy solutions and standards to be trialled in a large scale pan-European grid. FINSENY identifies ICT requirements for Smart Energy Systems leading to new solutions and standards verified in a large-scale pan-European Smart Energy trial. The project will intensively analyse energy-specific requirements together with other FI-PPP projects, develop solutions to address these requirements, and prepare for the trial in the Phase 2 of the programme.

FI PPP PROJECTS

- ◎ **FICONTENT** The project will propose novel and inventive scenarios for new forms of content with inputs from 5 important content areas, spanning future uses of AV, games, Web, metadata and user-created content. The project will focus on lower latency and better quality of service, direct Internet connectivity, better tracking of content provenance, and resilience across different providers FICONTENT provides the framework to allow for the concrete transformation of scenarios into technical deliverables.
- ◎ **ENVIROFI** The project will consolidate Future Internet requirements from the Environmental Usage Area perspective, providing specifications and prototypes of interoperable geospatial Environmental Enablers. These will be deployed in the Terrestrial, Atmospheric and Marine environments in collaboration with large stakeholder communities, thus setting the stage for large-scale trials in the Environmental Usage Area with the objective of achieving sustainable socio-economic progress in Europe.

FI PPP PROJECTS

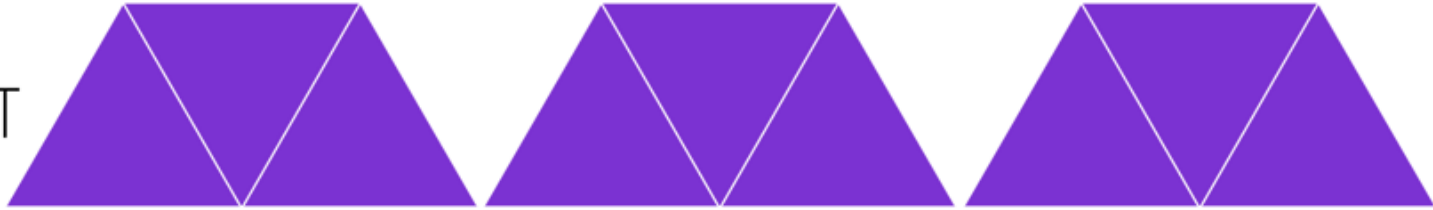
- ⊙ **SAFECITY** This project collects specific requirements in order to enhance the role of FI in ensuring safety and security in cities. It collects and defines specific requirements, enablers and scenarios that are able to adapt to available infrastructures to support Safecity functionalities in European cities. It will elaborate conceptual Safecity prototypes and early trials in order to study the feasibility of broader deployment. The demonstration of the main concept will be carried out in Madrid, with other specific requirements demonstrated in another city such as Helsinki.
- ⊙ **OUTSMART** The project contributes to the Future Internet by developing five innovation eco-systems facilitating the creation of a broad range of pilot services and technologies that optimize supply and access to services and resources in urban areas. OUTSMART will deliver requirements, specifications, ecosystem prototypes for validation, a business framework and conditions for innovation and pilot services in the envisioned ecosystems.



CONCORD PARTNERS

- Aalto University (Aalto)
- The Interdisciplinary institute for Broad Band Technology (IBBT)
- Tieto- ja Viestintäteollisuuden Tutkimus Oy (TIVIT)
- European Institute of Interdisciplinary Research (EIRR)
- European Network of Living Labs (ENoLL)
- European Regions Research and Innovation Network (ERRIN)
- DOCOMO Euro Labs





FOR FURTHER INFORMATION

- ◎ The FI PPP Portal: www.fi-ppp.eu
- ◎ FI PPP Office: CONCORD@Projects-ckir.fi
- ◎ European Commission Research:
 - ec.europa.eu/foi – read about the many activities the EC undertakes on the Future Internet
 - www.future-internet.eu – The European Future Internet Portal – the community site
 - cordis.europa.eu/ict/ch1 – Ongoing European FI research & development activities

