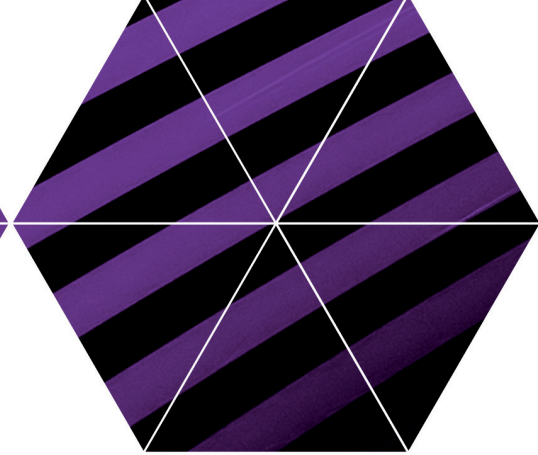
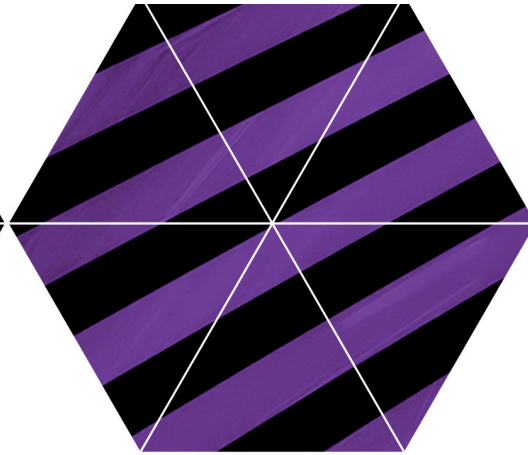
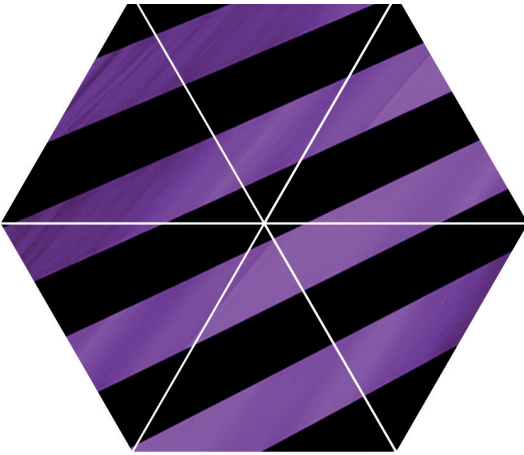
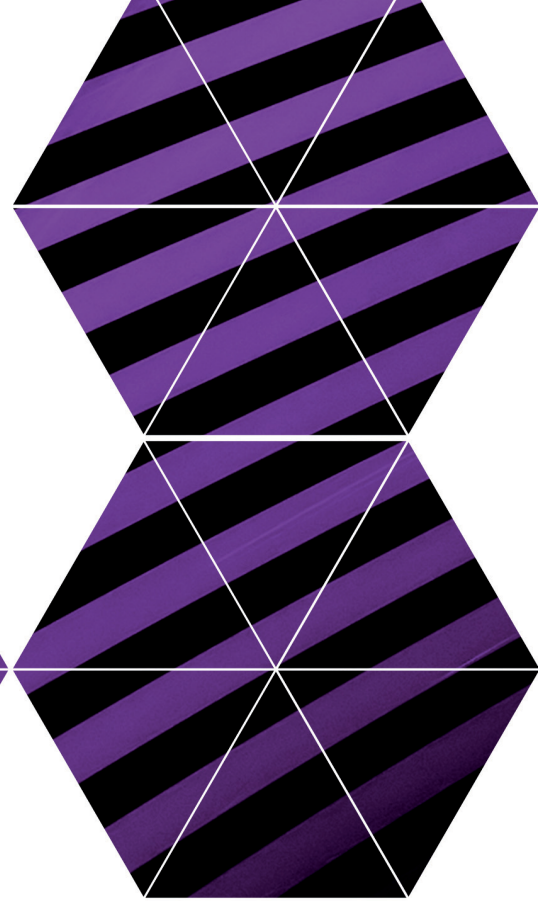
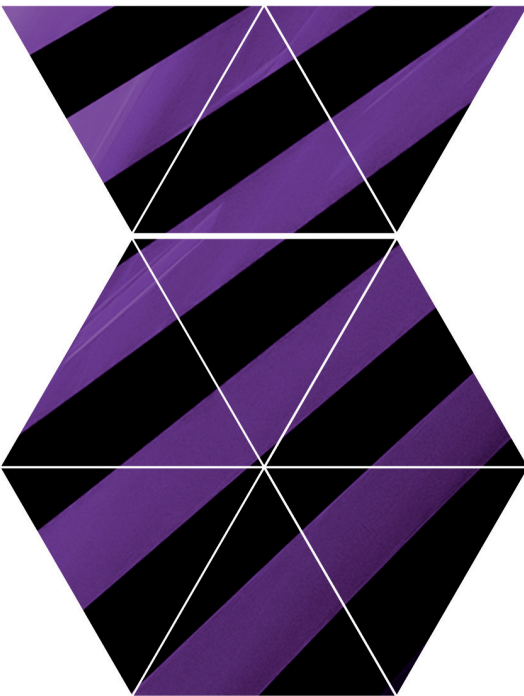




# FUTURE INTERNET PPP

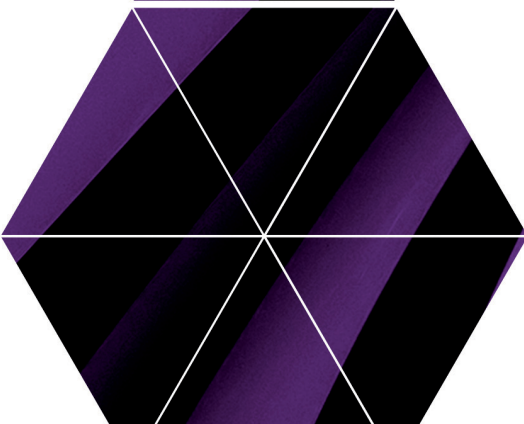


## THE FI PPP PROGRAMME



With over a billion users world-wide, the Internet is one of history's great success stories. Its global, integrated communications infrastructures and service platforms underpin the fabric of the European economy and society. Yet the mismatches between the original design goals and how the Internet is being used today are beginning to hamper its potential. Many challenges in the areas of technology, business, society and governance will have to be overcome if the future development of the Internet is to sustain the networked society of tomorrow.

To answer these challenges, the European Commission has launched the Future Internet Public-Private Partnership Programme (FI-PPP). The Programme brings together the major industrial stakeholders, public sector, research institutes and SMEs into a new type of innovation ecosystem. The participants have a shared agenda to create next generation public services and infrastructures in an open and participatory manner. This is realised through tight collaboration and user engagement in the creation of sustainable and scalable platforms, concepts and business models. Common architectures and frameworks ensure that these resources can be shared, reused, and inter-connected by current and future users and developers across Europe and beyond.



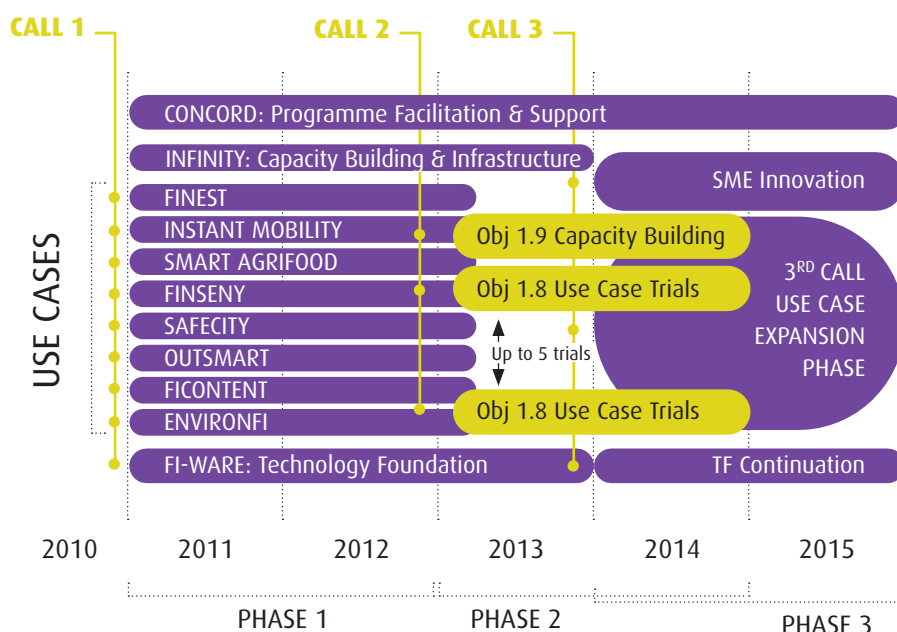
Today, technology and innovation are central to the development and planning of cities and public services. Simultaneously, people have come to expect more a transparent and efficient society, with increasing participation to build digital social capital. FI-PPP captures this unprecedented window of opportunity to define new forms of openness and co-creation. By joining forces, European stakeholders are developing tomorrow's Future Internet enabled services together with the novel concepts for demand driven innovation and collaboration networks that those services support. As it designs the future now, Europe is realising a new lead market concept on the global stage.

## PROGRAMME APPROACH:

- » Industry-led – as short-term innovation actions benefit the competitiveness of industries in the Internet value chain (networks, services, applications – holistic approach).
- » European-focused – there is a vibrant European Internet industry – the programme aims to evolve this into a European industrial stronghold.
- » User-driven – as services and application become ever more agile and mutative users play a key role in driving application led innovation.

## PROGRAMME ARCHITECTURE

The FI-PPP is based on a three-phased approach with open calls under the FP7 ICT Work Programme.



At the launch of the FI PPP Programme's Phase 1, the following projects and clusters are carrying forward four key objectives:

**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.

**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'.

**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.

### 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.

# USE CASES

**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.

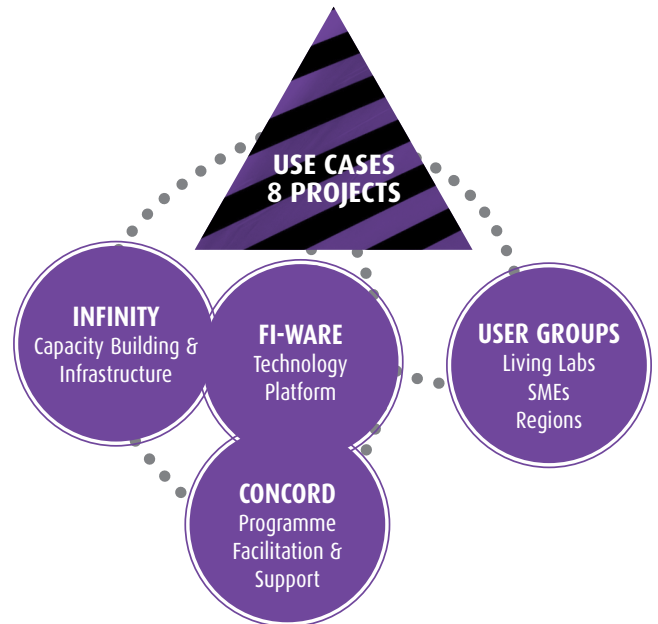
**INSTANT MOBILITY** The project focuses on the use of future Internet services in the urban multimodal travel and transportation domain urban personal mobility. A platform for information and services will be developed, able to support new types of connected applications and serving multimodal travellers, drivers and passengers, passenger transport operators, goods vehicle operators, road operators and traffic managers.

**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, require-

ments 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.

**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.

**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 socioeconomic progress in Europe.

More INTELLIGENCE

Turning data into value

More FLEXIBILITY

Leveraging the value of "networked"

More EFFICIENCY

Getting green and sustainable

# FACTS & FIGURES

**2x € 300 million**

INVESTMENT BY THE EUROPEAN COMMISSION &  
PROGRAMME PARTICIPANTS

**158 68% 18**

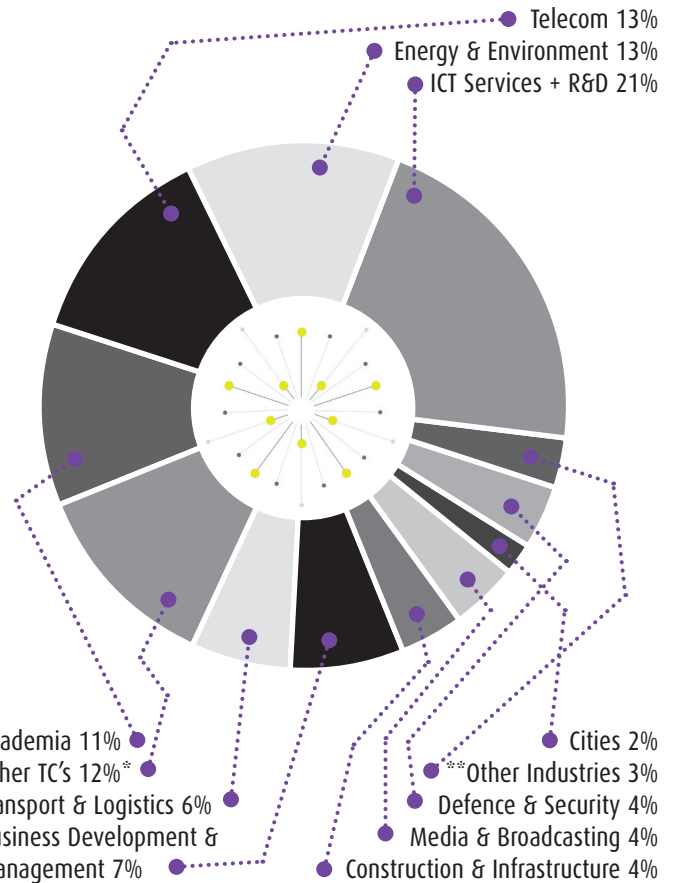
PARTNER ORGANIZATIONS  
AND COMPANIES

INDUSTRY SHARE IN  
THE PROGRAMME

ACADEMIC  
INSTITUTIONS

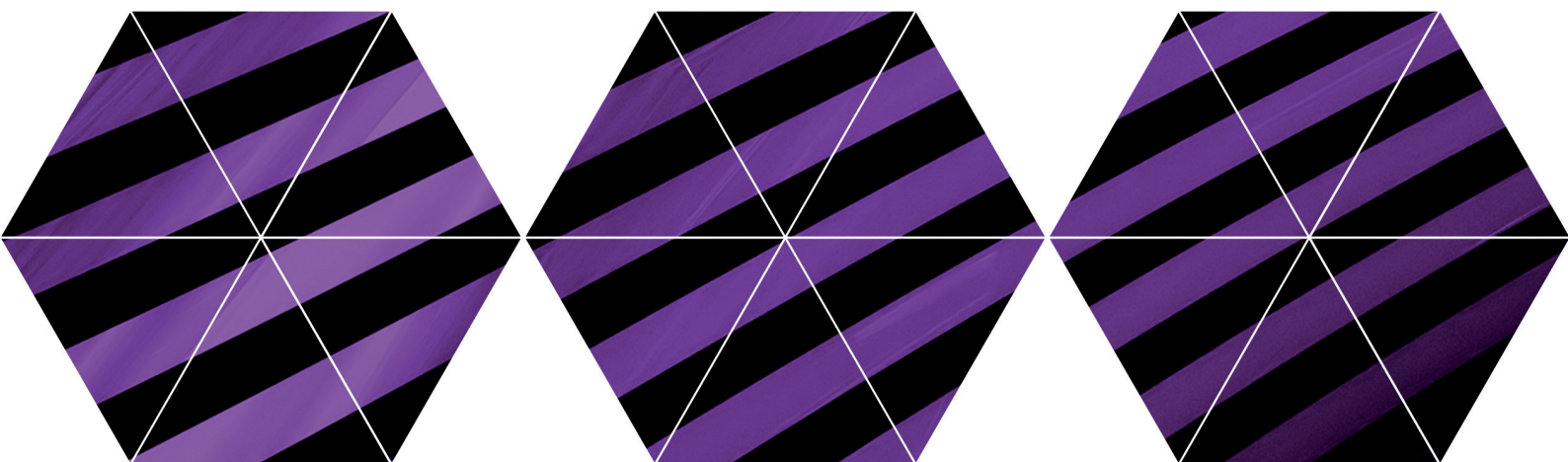
**23**

COUNTRIES REPRESENTED (2 FROM OUTSIDE EUROPE)



## INDUSTRIES REPRESENTED IN THE FI PPP PROGRAMME

\* Other Technology Companies, such as artificial intelligence, marine, aerial and satellite R&D, or automobile and other hardware manufacturing. \*\* E.g. Banks, retail stores, agriculture and food producing industries. Note: Figures are based on the number of participating organisations and approximate, since there are stakeholders with notable overlap in industries.



## FOR FURTHER INFORMATION

FI PPP Site Now Launched at: [www.fi-ppp.eu](http://www.fi-ppp.eu)

Further information and enquiries: [concord@projects-ckir.fi](mailto:concord@projects-ckir.fi)

### EUROPEAN COMMISSION RESEARCH:

- [ec.europa.eu/foi](http://ec.europa.eu/foi) - Read about the many activities the EC undertakes on Future Internet
- [www.future-internet.eu](http://www.future-internet.eu) - The European Future Internet Portal - the community site
- [cordis.europa.eu/ict/ch1](http://cordis.europa.eu/ict/ch1) - Ongoing European FI research & development activities