FI-WARE, FI-Ops and FI-LAB: the pillars of the Future Internet

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http://www.fi-ware.org
http://lab.fi-ware.org
http://www.fi-ppp.eu

The Internet will again transform the daily life of individuals and businesses
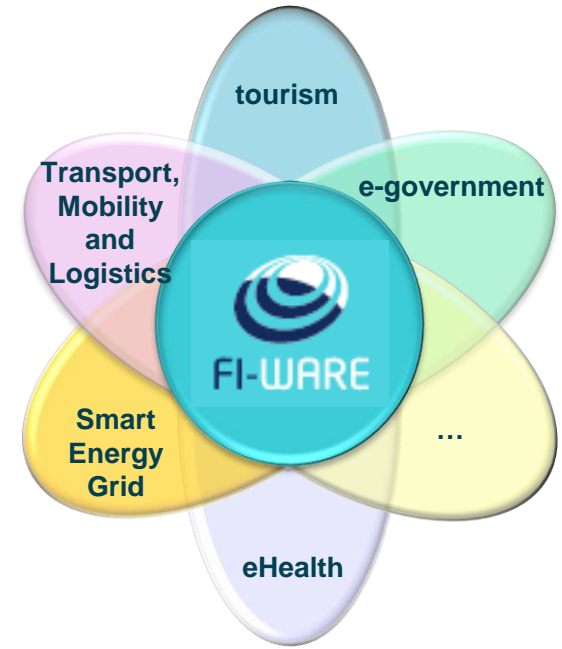

The Next Computer

The Future Internet Public-Private Partnership (FI-PPP)

- Goal: capture opportunities derived from a new wave of digitalization of life and businesses

- Strategy:
  - FI-WARE: a generic, open and standard platform which serve needs in multiple domains
  - FI-Lab: a meeting point around which a dynamic innovation ecosystem can be created engaging developers and entrepreneurs
  - FI-Ops: the suite of tools easing deployment and operation of FI-WARE instance nodes
  - Domain specific platforms (e.g., FI-Content2)

- Born in Europe but open to regions who seek a common open standard and shared ecosystem

What is genuine in the FI-PPP

- **Commitment for openness and market deployment:**
  - Delivery of results in **open source**
  - **Commercial offering** in the short term
  - **Executive Industry Board** in action

- **Better suited** to align with roadmap of product developments by partners:
  - Industry- and **Implementation-driven** approach
  - Results exploitable in the **short-medium term** (4-5 years since start) rather than in the long-term (10-15 years)

- **Product-oriented** vs project-oriented approach:
  - Comprehensive set of **brands** which will persist **beyond duration of projects**
  - Active presence in **market-oriented events** targeted to attract stakeholders of the ecosystem

400 M€ = (300 + 100) M€
Budget (RTD + funding for entrepreneurs)

126 M€ = (89 + 37) M€
Budget for FI-WARE/FI-Lab (phases 1 & 2)

270 partners
150 companies
27 countries
>1.000 SMEs and start-ups

FI-WARE = advanced OpenStack-based Cloud + rich library of Generic Enablers

FI-LAB: going beyond technology, the "meeting point" where a new Open Innovation ecosystem will be boosted

Customers and Data providers (e.g., cities)

- Connect to entrepreneurs
- Put their data at work
- Visibility, promotion
- Costs saving
- Better service to customers
- Corporate Reputation

Entrepreneurs, Developers

- Ability to test with real data
- Ability to run trials with real users
- Visibility, promotion
- Hosting of permanent showcase
- Connection to potential customers
- Acceleration of product development
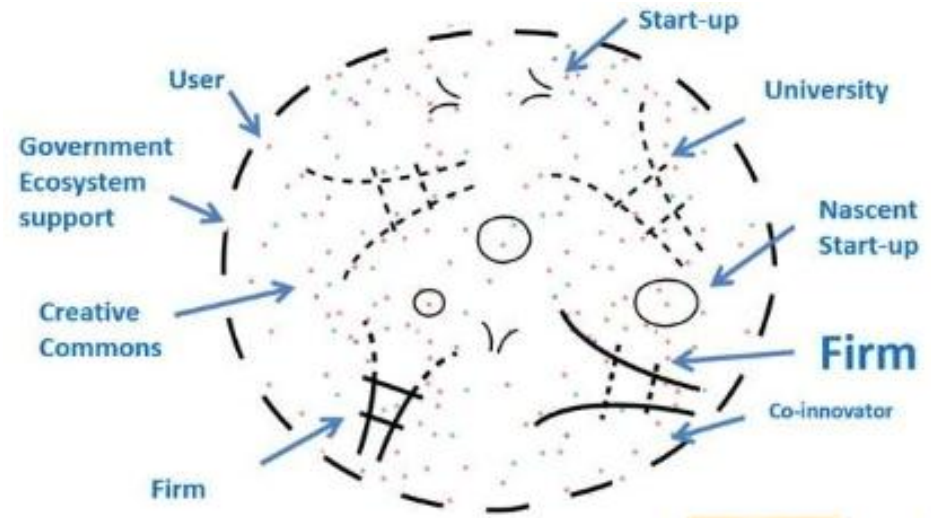
FI-Lab
Spark your imagination

FI-WARE Technology Providers

- Added value to just the technology
- Connecting to entrepreneurs: Revenue-sharing opportunities
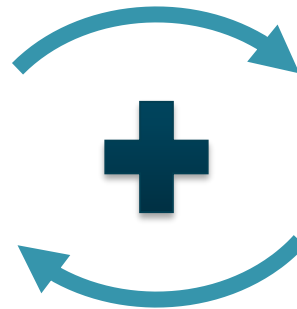
- 4,2 M€ promotion campaign
  - Campus Party events
  - Startup Weekend events
  - Chambers of Commerce
  - 870 K€ in prizes
- 100 M€ of funding devoted to entrepreneurs in phase 3 of the FI-PPP

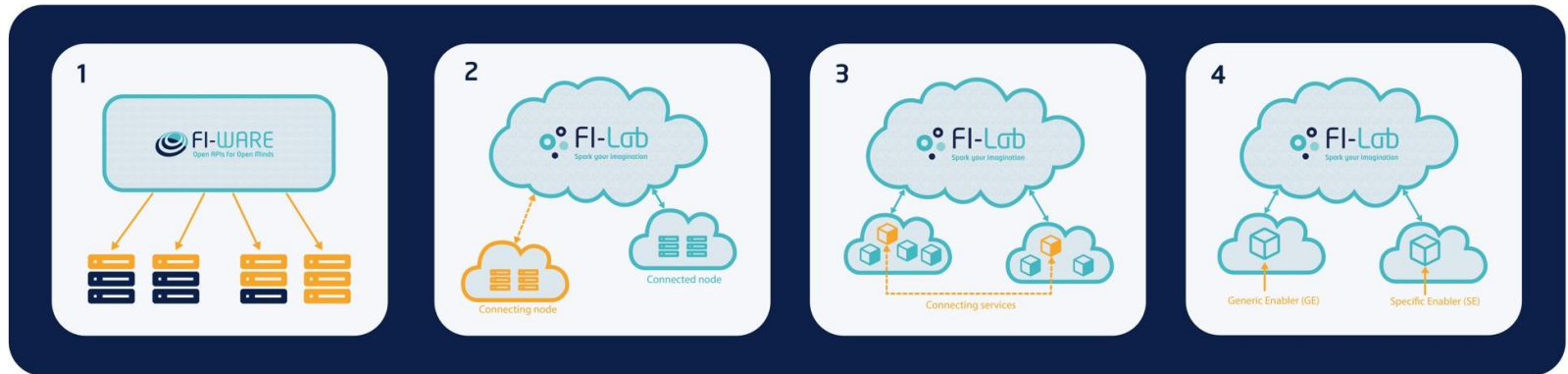# What we offer to application developers

Technology

+

A true open innovation ecosystem

Overview XIFI -> empowering FI-Ops

- **The XIFI project** facilitates the **uptake**, **deployment** and **federation** of a sustainable pan-European open federation of test infrastructures.

- This community establishes a unique marketplace crucial to:

  - Address commercial exploitation of Future Internet resources and services in Europe (and even beyond)

  - Create a common framework to overcome the current fragmentation of European infrastructures into isolated test beds that are individually unable to support large-scale trials

- Currently such federation comprises 17 cloud-based nodes along Europe

FI-Ops: easing operations of FI-WARE providers

Deployment

Deployment of basic Cloud Hosting GEs and Monitoring Adapters in a FI-WARE node

Federation Management

Federate a new FI-WARE node within a given FI-WARE instance (e.g., within FI-Lab)
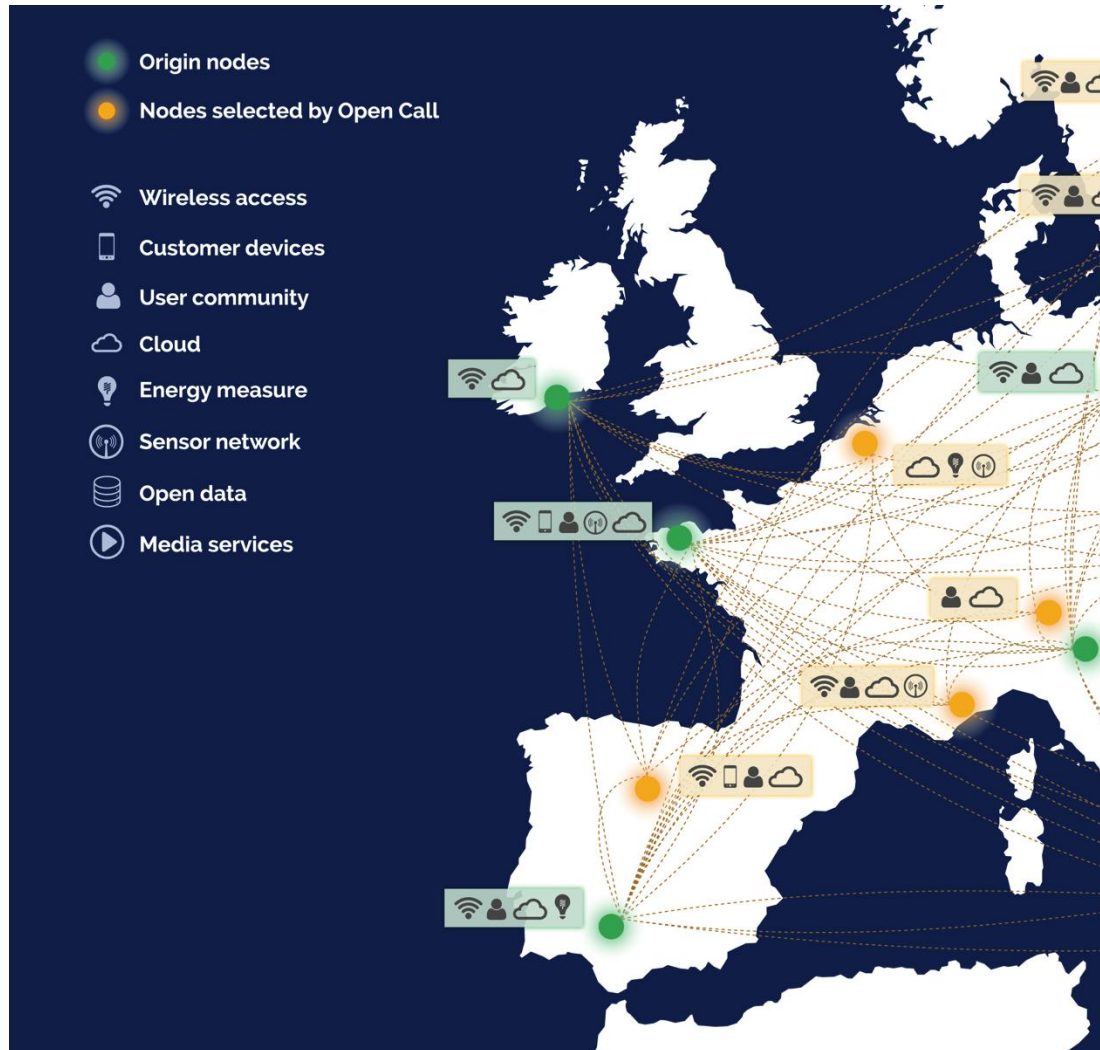
Connectivity Management

Manage connectivity of services across FI-WARE nodes of a FI-WARE instance

Service Offer Management

Registration and deployment of additional Generic Enablers, Specific Enablers and complementary Future Internet Facilities

Extending the FI-Lab offering for service providers and developers

Map legend:
- Origin nodes
- Nodes selected by Open Call
- Wireless access
- Customer devices
- User community
- Cloud
- Energy measure
- Sensor network
- Open data
- Media services

- Availability of 5 nodes (end of March 2014) with 500+ cores, 1TB+ Ram, 100TB+ HD

- Additional 12 nodes (April / September 2014) with 1000+ cores, 2TB+ Ram, 200TB+ HD

- Level 1 and Level 2 support for the nodes

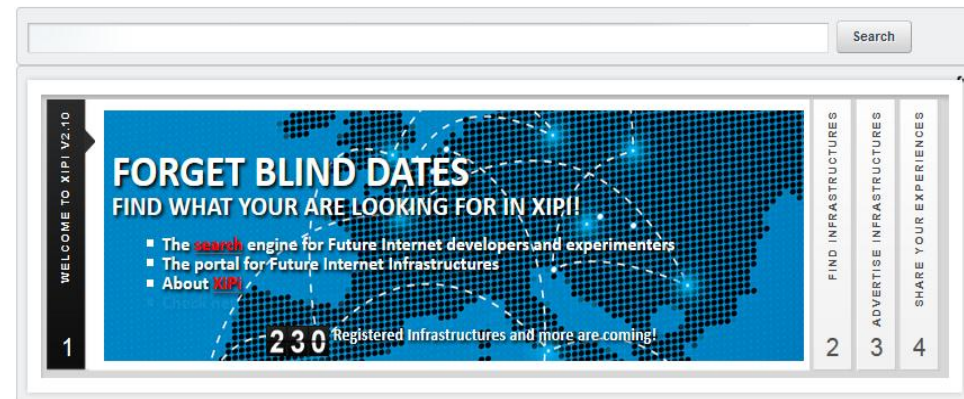- Showcases for developers, infrastructures, smart businesses

FUTURE INTERNET PPP

FI-WARE   FI-Ops   FI-Lab

More infrastructures….? Find them in XiPi?

The *Repository for eXperimental Infrastructures for Public Private Partnership in Innovation*
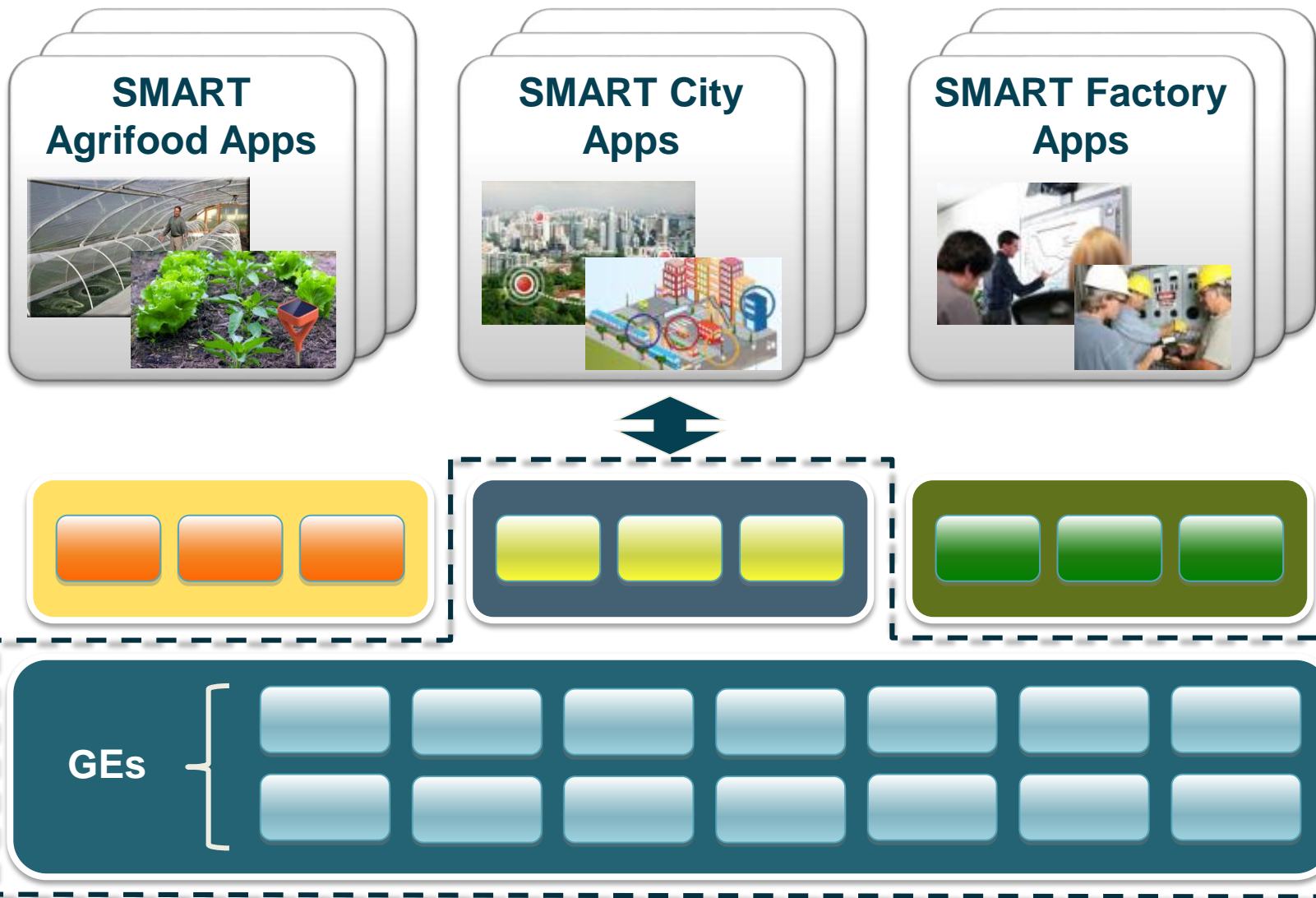
The widest collection of data on Future Internet related infrastructures:

- ## 238 publically available as of today – *more coming*

A TOOL TO SUPPORT FUTURE INTERNET TRIALS IN EUROPE

Domain-specific platforms = FI-WARE + specific enablers

SMART Agrifood Apps

SMART City Apps

SMART Factory Apps

Domain specific enablers

FI-WARE

GEs

The EC is making a strong bet on FI-WARE/FI-LAB

- Neelie Kroes launched FI-LAB at Campus Party Europe in London (full speech [here](#))

  - *"FI-WARE is one way we are levelling a playing field: a project to make innovative technologies available for all."*

  - *"Smart cities are a great example … They create platforms, and use them, making open data and applications available – to citizens, to developers, to innovators, to come up with yet more ideas … and this is where initiatives like the FI-LAB come in. Led by industry, this is a major investment in generic technology."*

- She also made a reference to FI-LAB at the launch of the EIP on Smart Cities and Communities (full speech [here](#))

  - *"Just earlier this week I launched the Future Internet lab … That's something that you can turn into real results, real jobs, and real innovation. European platforms helping European innovation in European cities."*

- Additional mentions by the EC compiled [here](#)

How the ecosystem is actually emerging: the case of Smart Cities

- Some cities already connecting to FI-Lab:
  - Italy: Trento, Torino, Veneto
  - Spain: Sevilla, Málaga, Santander, Valencia, Sabadell, …
  - Finland: Espoo
  - Discussion with cities in other countries ongoing

- FI-WARE Challenge on Smart Cities:
  - Launched end of October
  - 300+ teams (individuals, startups, SMEs – few researchers) applied to the challenge (ES, EN)
  - 20 final teams run the final in CPBR 14
  - quite amazing results!

An ambitious plan under way

- **Ambitious FI-WARE promotion campaign (4,2 M€ investment during May 2013 – April 2014 period)**
  - Launch of the **FI-WARE Open Innovation Lab** at London Campus Party (September 3-8)
  - Presence in 50 startup weekend events across Europe
  - Hackathons, Development contests (870 K€ in awards)

- **100 M€ of funding for SMEs and Web entrepreneurs** developing products on top of FI-WARE:
  - to be canalized through incubators, accelerators, SME associations
  - projects starting in 2014

- Expansion of **FI-LAB** on several countries in Europe

- **Cities connecting to FI-LAB** putting their data at work

- **FI-WARE and FI-LAB continuation** phase (23 M€)

Thanks !

http://fi-ppp.eu

http://fi-ware.org

http://lab.fi-ware.org

XIFI