From Experimental Infrastructures to Innovation

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Goals

- To develop a process for adapting and upgrading existing test infrastructures with the capabilities to support Future Internet technologies

- To establish a core network of five high capacity and advanced capabilities nodes that support sector services and applications in the future Internet

  - Federation of nodes

  - Additional nodes in the second year

- Enable pilots and trials for sector applications in the future Internet

Challenges

- Transition from experimentation to large scale trials

  - Exploitation toward European Cities and Regions

  - 800 Web developers expected to use XIFI capacities

- Synergies and cooperation between and among EU regions and other regions of the world

  - Cross analysis of best practise among respective sites (Field Trials, European and e.g. US Cities and Regions, Communities of Developers)

The XIFI Technical Approach
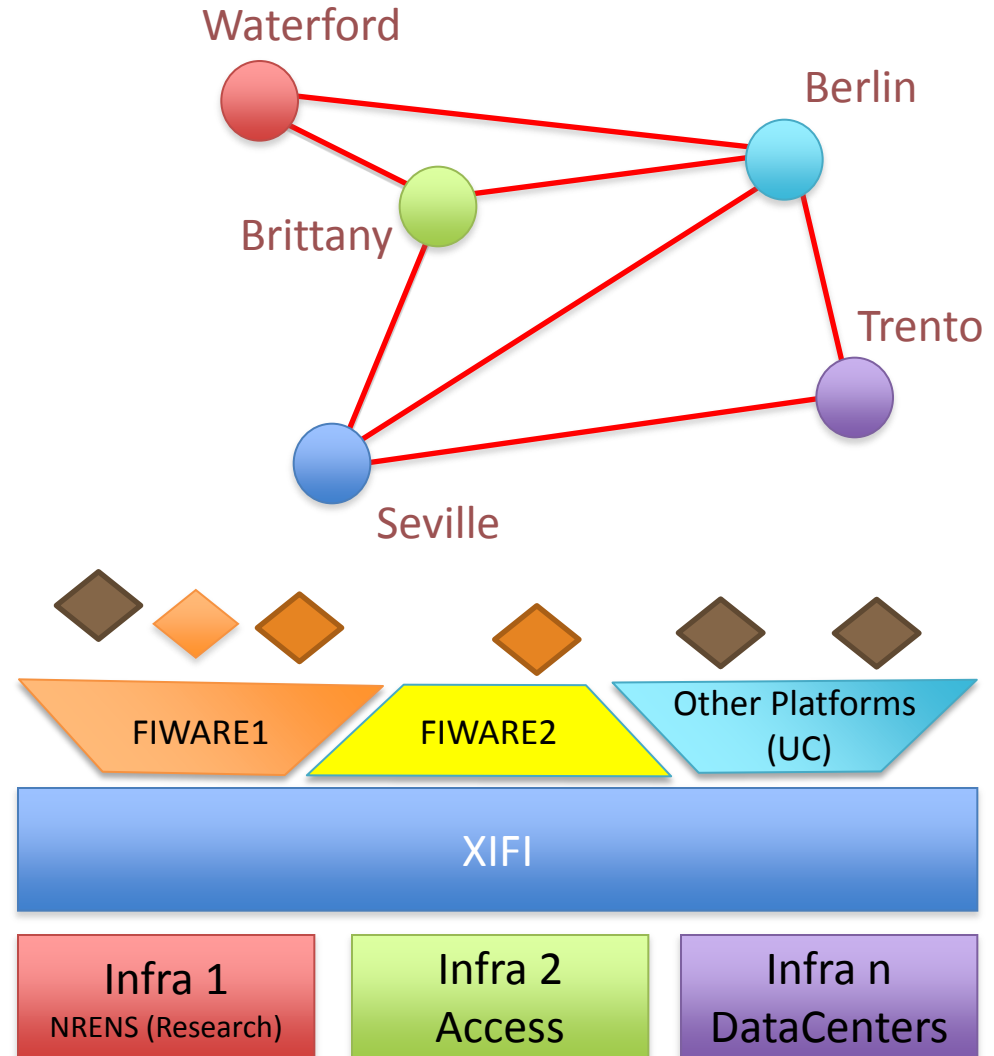
The initial 5 sites:

- Ireland (Waterford, HEAnet)

- France (Orange, ImaginLab)

- Spain (Telefonica, Red.es)

- Germany (Deutsche Telekom, Fraunhofer)

- Italy (Telecom Italia, Trentino Network)
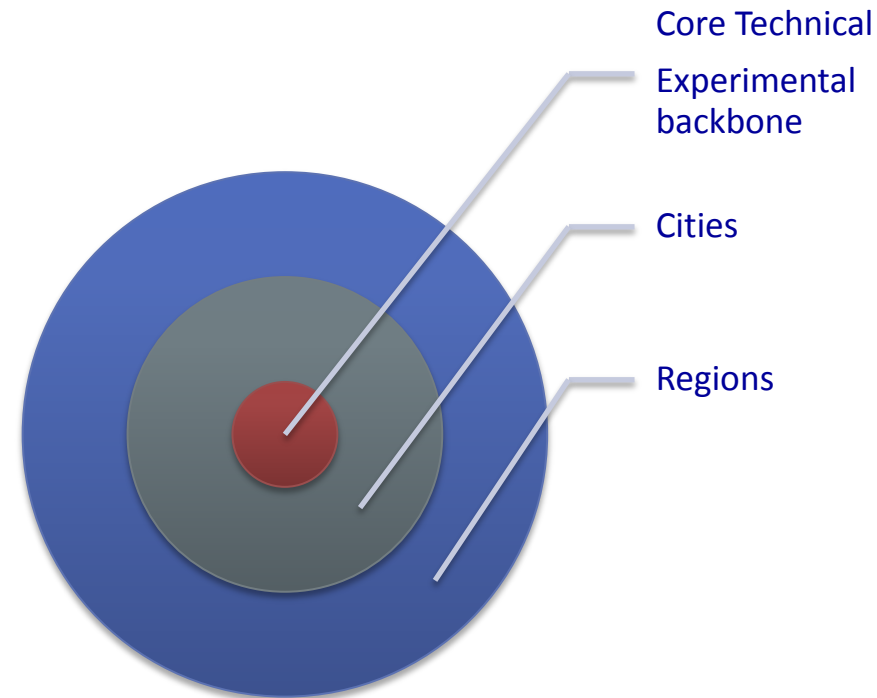
The XIFI Technical Approach

3-Step approach:

1. Build the backbone between the 5 initial core sites. These form a federated and virtualised *capacity layer* to facilitate the deployment and interoperability between the FI-PPP core platform and other platforms across Europe. Consider aspects, such as:

   - The access network
   - The experimental nature of some of the networks
   - The need for data centers

2. Validate the capabilities of the generic enablers on the core platform

3. Enlarge the network to reach the Use Case Pilots, which may be using FIRE testbeds, EIT ICT Labs or private infrastructures. This will be done through an Open Call process

The XIFI Timeline

1ˢᵗ Year

- Define the XIFI core concepts, reference architecture and development methodology
- Deploy the core technical infrastructure
  - Embedding if the core platform testbed(s)
  - Learning by doing
- Provide the framework for the federation of infrastructures (technical / administrative)
- Ensure co-existence and interaction between
  - Sites/nodes
  - Services/Applications
  - Platforms
- Consider business and economic incentives

2ⁿᵈ Year

- Network Enlargement (2M Euro to fund additional infrastructures)
- "Deployment" of Use Cases and Trials
- Full scale operations with field trials and developers (phase 3)

Core Technical

Experimental backbone

Cities

Regions

The XIFI Partners

Thank you for your attention!

Find us at www.fi-xifi.eu
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