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solving central and local challenges



Future Internet: enabling the logistics ecosystem

Atos Research & Innovation

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EUROPEAN CONFERENCE ON
THE  **ICT**
4 TRANSPORT LOGISTICS 

ECITL: Smart Freight to enable sustainable logistics solutions
7 - 9 NOVEMBER 2012
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mission
accomplished
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shaping
the future with education
foundations for 21st century learning



rebalancing
the transport equation
integrated thinking for sustainable networks



Future Internet: enabling the logistics ecosystem

03/12/2012

By Alicia García
Public

- ▶ Changes to the Internet are being driven by the rapid proliferation of new technologies based on 6 pillars: Network **Infrastructure**, Internet of **Services**, Internet of **Things**, Internet of **Knowledge**, Internet by and for **People** and Experimental **Facilities**.
- ▶ **Experimentation environments** are needed for the evaluation of new technologies, systems and business models in the area of Future Internet. This environment should provide an **easily usable and widely acceptable testing** and experimentation infrastructures to pave the way for the **logistics ecosystem**.



FI PPP: internet of moving things

03/12/2012

By Alicia García
Public

- ▶ FIWARE provides **generic enablers** to make such ecosystem a success.
- ▶ From a logistic point of view, identified generic enablers are the **architecture** of applications and **services** ecosystem and **delivery framework, security** mechanisms, **Cloud** Hosting, Data/Context Management Architecture in terms of **Big Data Analysis** and Complex **event processing**.
- ▶ **Cloud** Deployment and **IoT Integration** is one of the most relevant due to the fact that although data is available in real-time in local IT systems, *only uploaded in batch mode to central IT systems*.
- ▶ Shipment tracking and tracing still requires manual interactions and paper documents and electronic data entry by human operator.



Usage Areas: from 8 to 5 use case projects

03/12/2012

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Objective of FI for logistics

03/12/2012

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- ▶ Making the logistic world smarter and **accelerate sustainable innovation** in logistics
- ▶ Making Europe a **world leader in Future Internet technologies**. This will only be a success if there is a key players team which brings together partners providing full ecosystem to involve SMEs and web-entrepreneurs.

All in all, FI will allow the move of **research results into scalable business** solutions which can help to drive business advantage throughout the transport logistics sector.



Some figures and data



Main data

26 partners

5 Universities

4248 Person Months
(excl. open calls)

Total Funding 41 M€

Open calls 12,3 M€

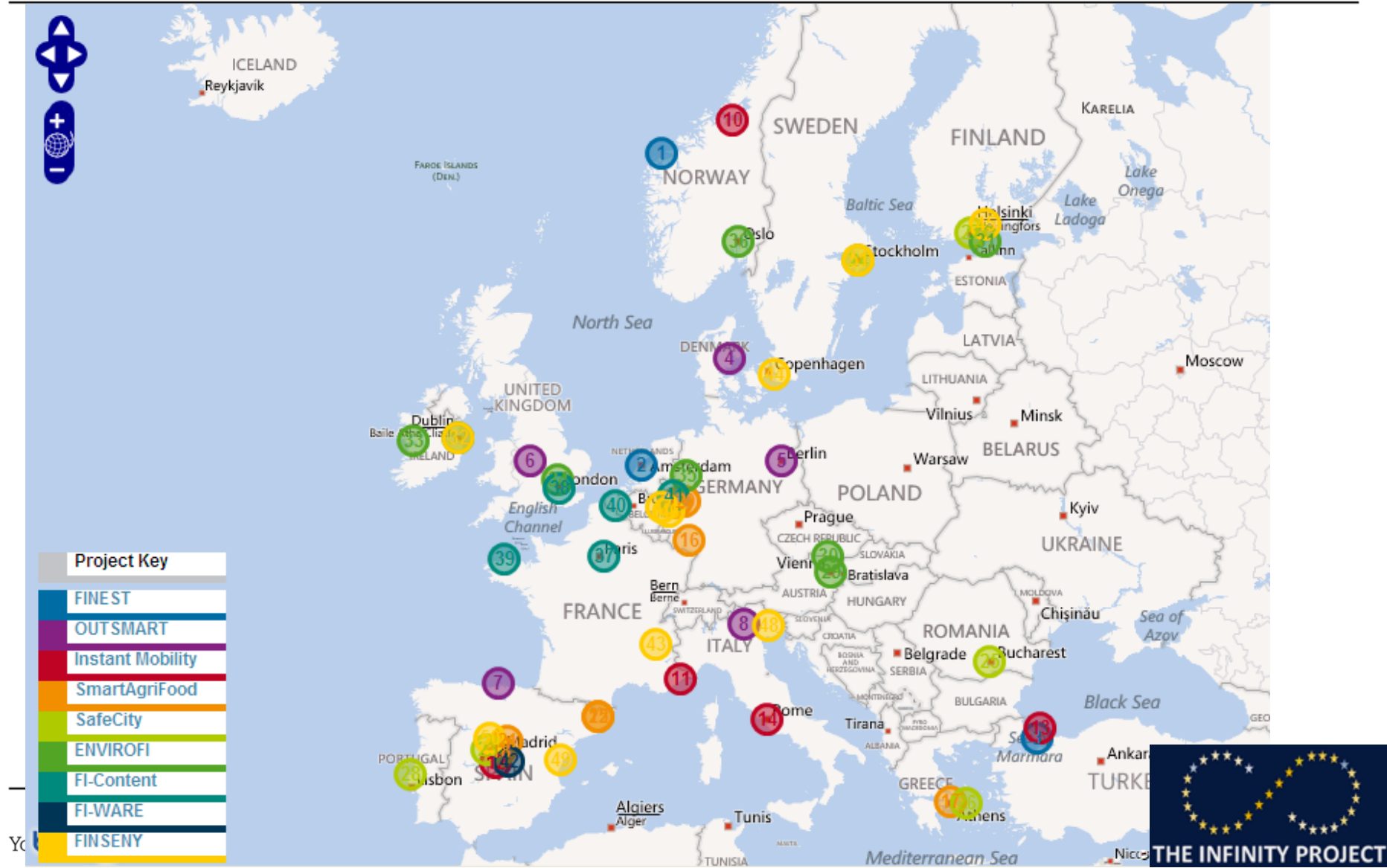
Total budget 66,4 M€

Three years duration

FI PPP Pilot sites

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Long run so far BUT where to?

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EXPERIENCE

INFLUENCE

PREPARATION

NEGOTIATION

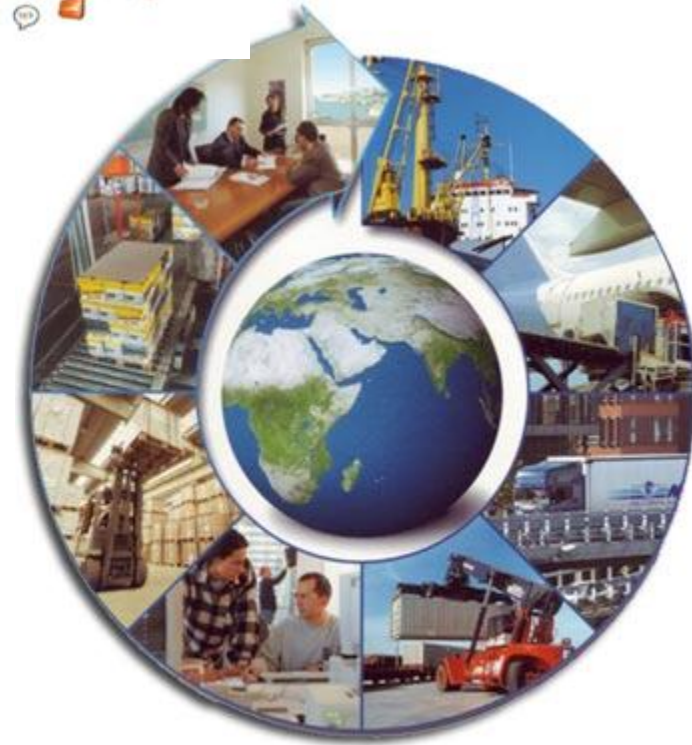
EXECUTION

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Powering Logistics

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Integration of concepts

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- ▶ **Research in specific technologies** (Open –service-platforms, media, data management and storage, security) → **Future Internet**
- ▶ **Infrastructure Deployment (IoT)** → leading to (inter)connection of systems and services → **Smart Cities**
- ▶ **Experimentation & testing platforms** for fast prototyping and robust service provision → **Testbed federation**

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Thank you



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