FIRE Future Internet Research and Experimentation BO Session

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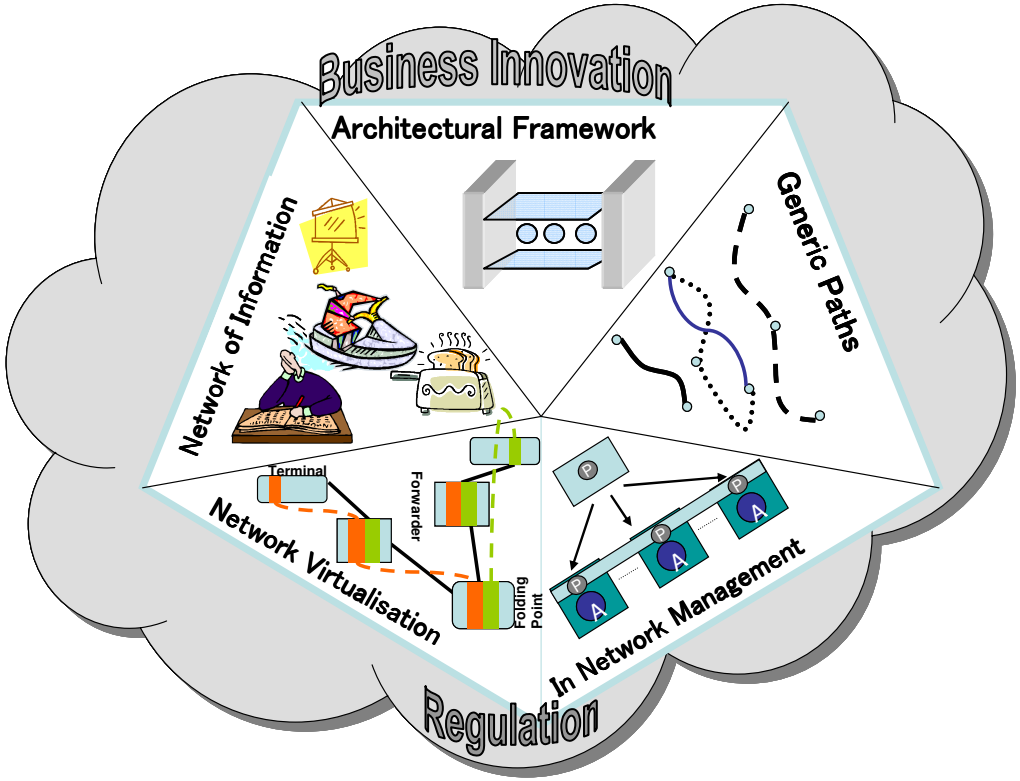
4WARD – A Clean Slate Approach to Define Architecture & Concepts for the Future Internet

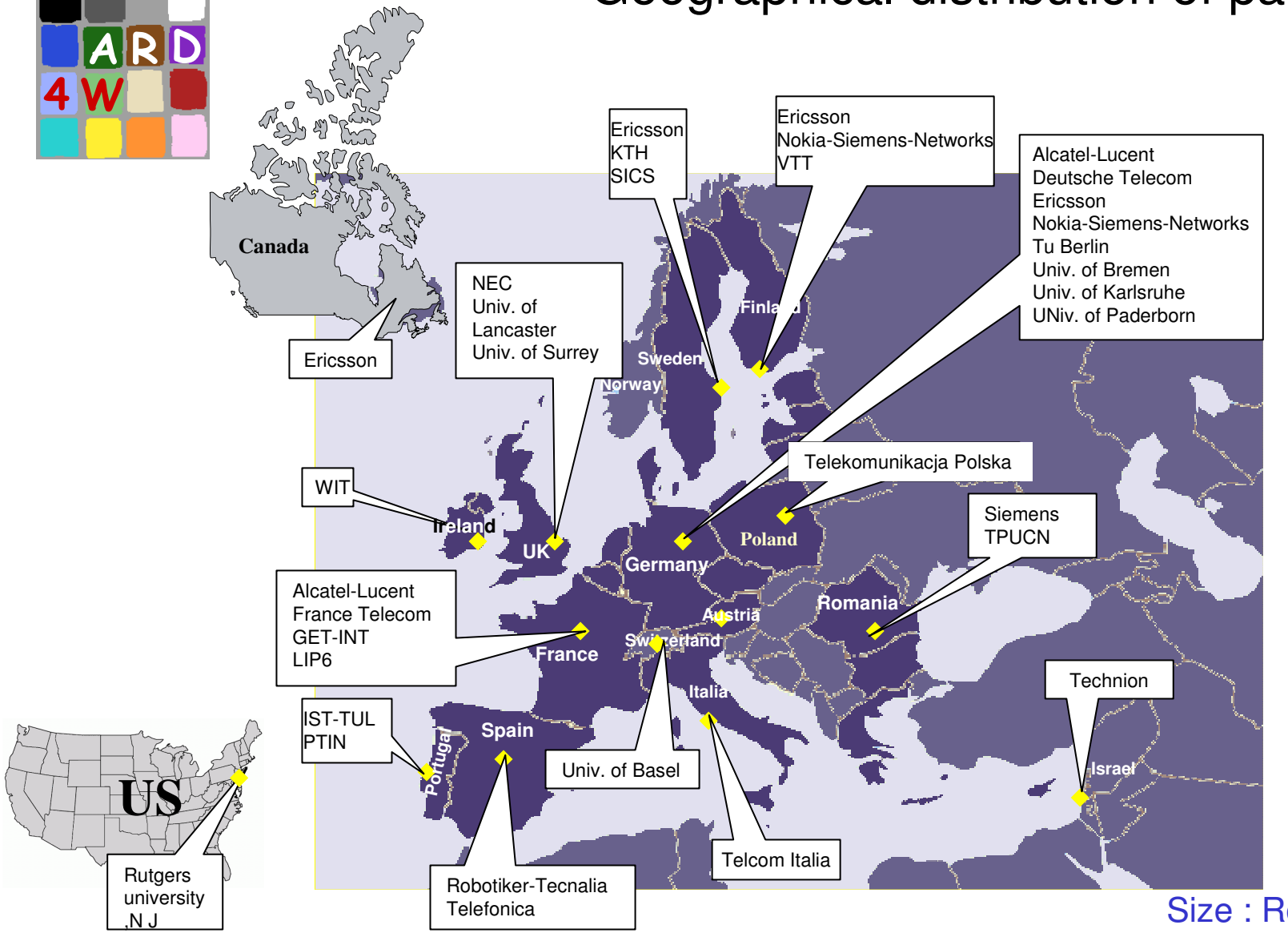


Henrik Abramowicz, Ericsson

4WARD Project coordinator

2007 - 2013

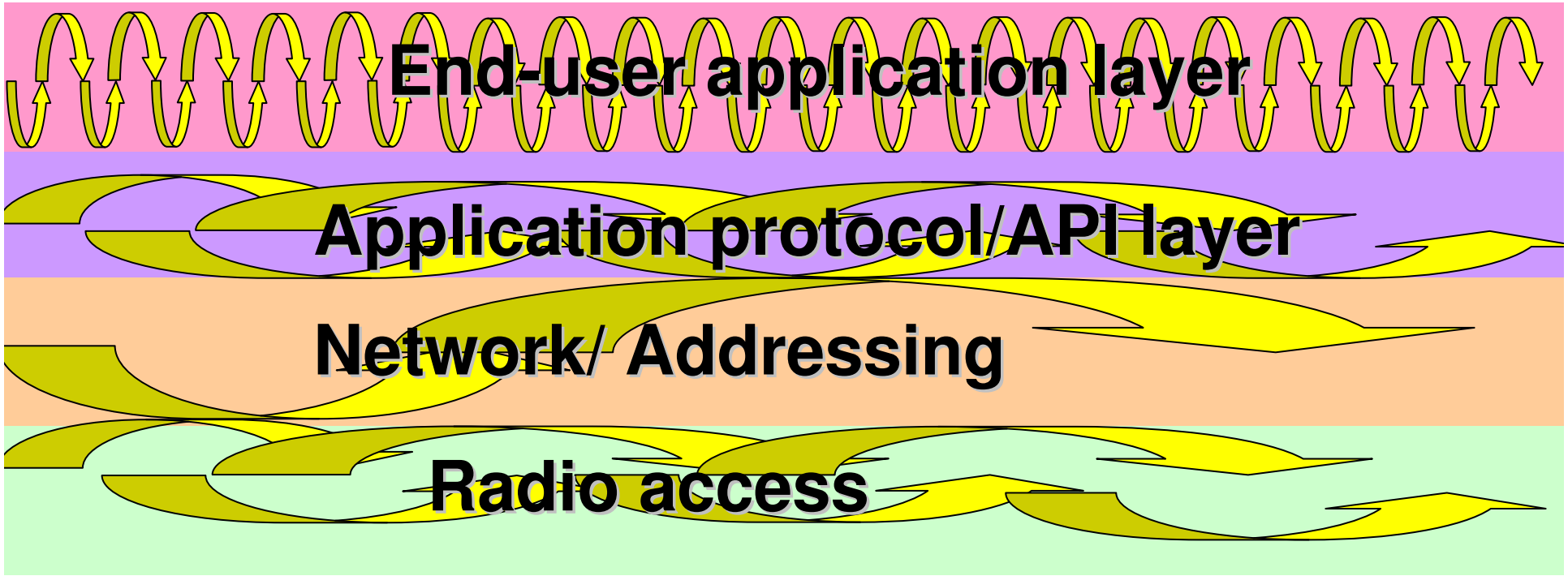
Geographical distribution of partners

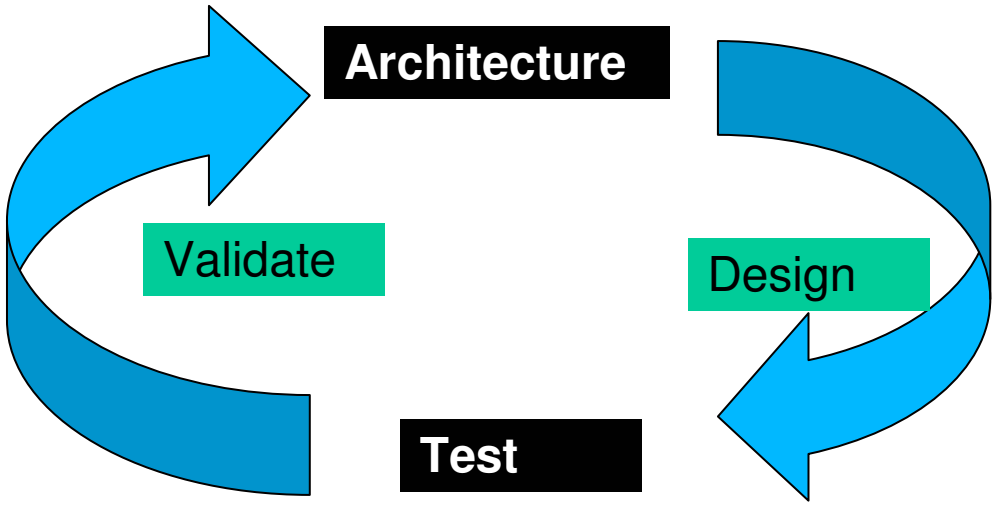


Size : Roughly 23.5 m€

Time 2 years

Different life cycles for different layers




Architecture
Design
Test
Validate

Exploitation Results

- Architecture
  - General Arch & Framework D2.3)
  - Dynamic secure sharing of resources in virtual networks including scalable provisioning and management system (D3.2)
  - Architecture of InNetwork Management system (D4.3)
  - Generic communications path architecture (D5.1) using coding, multi-path (D5.2) and mobility support (D5.3)
  - Architecture for Networking of information objects (D6.2)

- Evaluation and demos
  - Evaluation of the Architecture Framework (D2.3- T2-4)
  - Evaluation of Dynamic secure sharing of resources in virtual networks including scalable provisioning and management system (D3.2)
  - **Demonstrator (D4.4), and evaluation (D4.5) of In-network mgmt**
  - Evaluation in proof-of-concept test-bed (D5.3 – T5.6)
  - Evaluation of Netinfo arch for scenarios such as content distribution (D6.2 – T6.5)

Needs on Exp facilities

- Modules test
- We would like to test the whole stack - access to dark fibre?
- We need to integrate radio access and need a mix between radio and fibre
- Federation of test beds
  - Maybe an application for network composition
- We need to have interconnection internationally
- Timeframe middle of next year
- Example
  - Scalability and other characteristics of distributed management protocols (e.g., for real-time monitoring and anomaly detection)
- Suggestion – establish a reference group with user projects and testbeds