

HITCH

Healthcare Interoperability Testing
and Conformance Harmonisation

HITCH

Eric Poiseau
Inria, France

3- Background and Motivation

- ▶ **eHealth systems must communicate with surrounding infrastructure**
 - ▶ Goal: semantic interoperability between eHealth systems
 - ▶ Means: utilisation of common, international standards and profiles to reuse applications

4- Background and Motivation

- ▶ **To ensure interoperability, systems should be tested and verified**
 - ▶ against standards and profiles (conformance testing)
 - ▶ and against each other (interoperability testing)

5- Background and Motivation

- ▶ **Successful testing is expressed by means of certification and quality labelling**
 - ▶ There is no labelling/certification in the area of interoperability unless there is underlying robust and well-defined, standards-based profile testing.
 - ▶ Missing tools for comprehensive interoperability testing

6- Background and Motivation

- ▶ **A comprehensive quality management system (QMS) is needed for interoperability and conformance testing**
 - ▶ A QMS sets the framework for the testing process and the labelling/certification process.
 - ▶ An agreed QMS is an important foundation

7- HITCH Overview

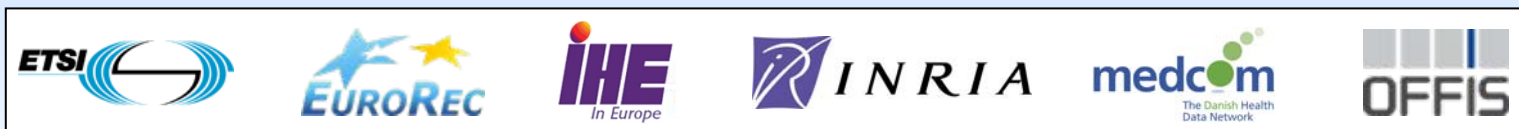
- ▶ **HITCH stands for “Healthcare Interoperability and Conformance Harmonisation”**
 - ▶ **Goal:** provide **roadmap** on eHealth interoperability testing Quality Management System
 - ▶ **Means:** Define QM processes, test tooling, quality labelling, certification.

8- HITCH Overview

► Approach:

- Identify state of the art of interoperability/conformance testing
- Identify gaps to what is needed for the future
- Propose a roadmap needed to close these gaps

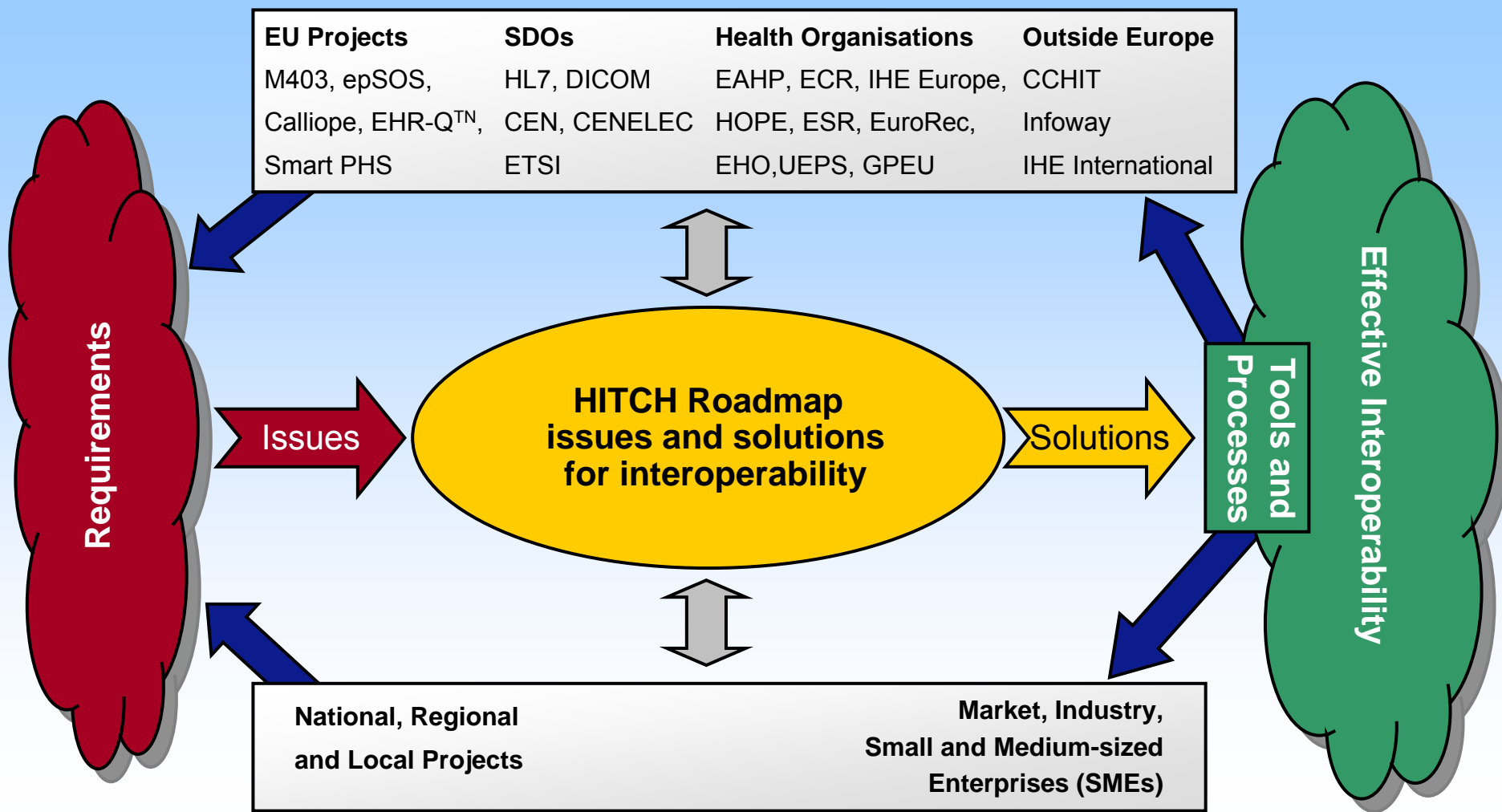
► HITCH partners from Belgium, Denmark, France and Germany, with IHE, ETSI and EuroRec engaged at the European level.



► 18 months project

- January 2010 to June 2011
- Partially funded by the European Commission under the 7th Framework Programme

9- HITCH Overall Concept



10- HITCH Tasks

- ▶ **Interoperability Testing Quality Management System (QMS)**
 - ▶ Define an Interoperability Testing QMS
 - ▶ Include procedures and policies to manage/ensure the quality of eHealth systems interoperability testing

- ▶ **Testing Tools**
 - ▶ Survey and analyse available eHealth testing tools and libraries
 - ▶ Determine future tools needed for interoperability testing. Recommend priorities.

- ▶ **Testing Process and Evaluation**
 - ▶ Evaluate/Practical feedback QMS and tool strategy by applying it to two scenarios:
 - ▶ Patient Identification
 - ▶ Exchange of Patient Summaries

- ▶ **Quality Labelling for Interoperability**
 - ▶ Propose a quality labelling strategy for interoperability

11- Current Status (04/2011)

- ▶ **Basic requirements for interoperability testing QMS have been defined**
(Available on HITCH website)
- ▶ **Evaluation of existing eHealth testing tools nearly completed**
(Available on HITCH website)
- ▶ **Evaluation of first HITCH results at IHE Europe Connectathon 2011**
- ▶ **Event during IHE Europe Connectathon 2011: April 11-15th Pisa, Italy!**
 - ▶ **HITCH Workshop on eHealth Interoperability Testing**
 - ▶ Learn about the future of interoperability testing in Europe and beyond!

<http://www.hitch-project.eu>

