



# HPRO Card

## *European Health Professional Card*

**Praha**

October 1, 2009





## Objectives

- To ensure **security of patients** all around Europe by providing a proof of the qualities - and abilities to exercise - of health professionals
- To facilitate **mobility of health professionals** in all EU State Members by simplifying administrative procedures
- To provide **authentication** on eHealth applications



## Main principles (1/2)



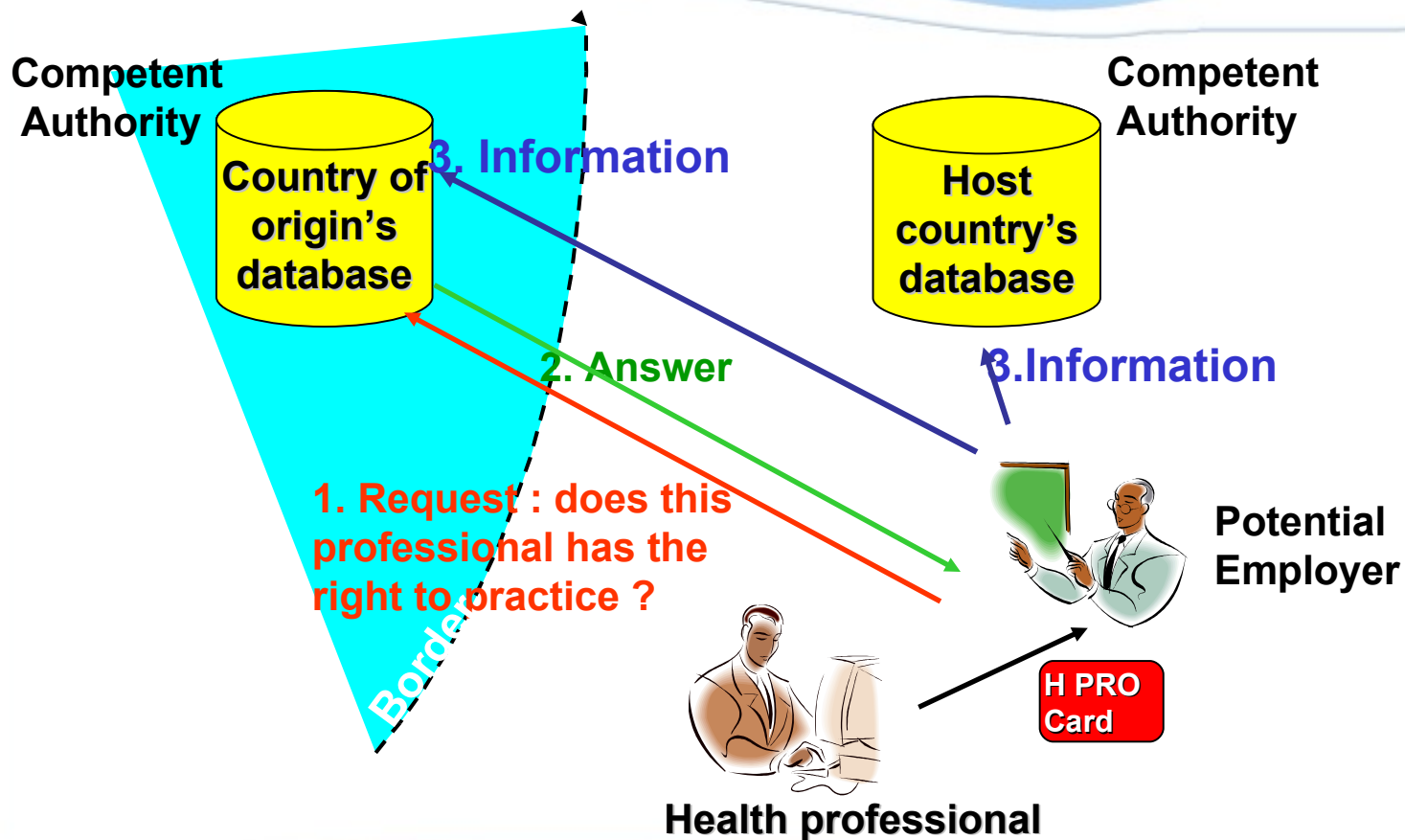
**5 health professions** : Doctors, Pharmacists, Dentists, Midwives, Nurses

## Main principles (2/3)





## Main principles (3/3)





## Context (1/2)

- **Directive 2005/36/EC** of the European Parliament and of the Council on the recognition of professional qualifications
  - ★ Whereas 32 « Realisation, at the European level, of professional cards by associations or professional organisations .... »

=> 5 health professions : Doctors, Pharmacists, Dentists, Midwives, Nurses
- **Mrs Vergnaud's report (MEP)** : “Impacts and consequences of the exclusion of health services from the Directive on Internal Market Services” (May 2007)
  - ★ *Chapter 43 : asks for the creation of a mechanism for data exchanges between competent authorities and a European card*



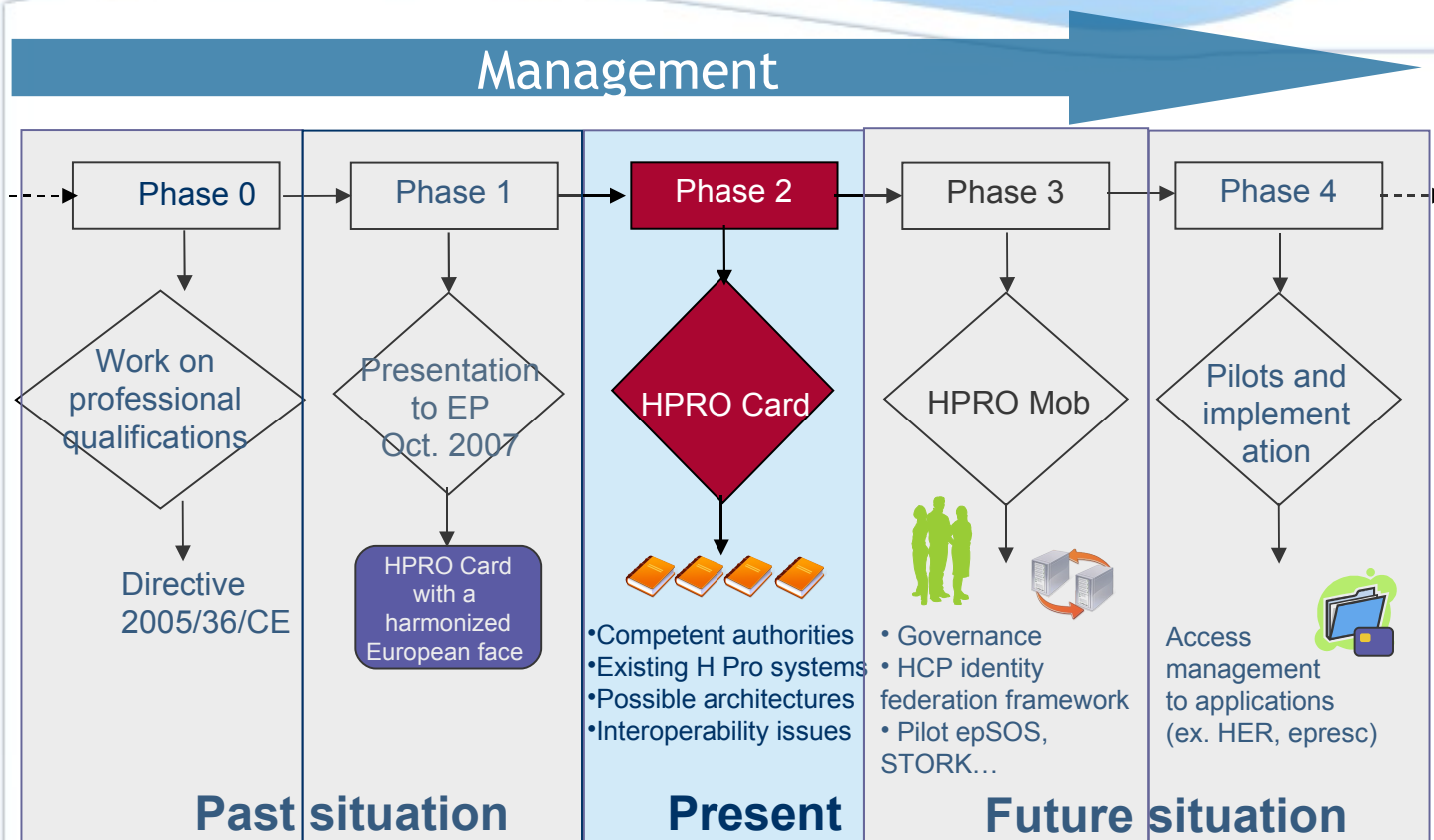


## Context (2/2)

- The **report of Alain Lamassoure** (MEP) on "*The citizen and the application of Community law* » was submitted to the President of the French Republic on June 2008
  - ★ 4.6. "... a private initiative, accompanied by DG Employment, should be highlighted during the period. This is HPRO Card project: European health professionals Cards, ..."
  - ★ Recommendation N° 7 : « 7. To Facilitate the European health professional Card, a noteworthy private initiative »
- **Mrs. Cederschiöld's report** (MEP) about health professional cards
- European Commission's **Green Paper about mobility of health professionals** : adopted on December 10, 2008.
- Proposition of a **Directive on patients' rights recognition**



## General overview





## Phase 1

October, 2007: presentation of the European health professional card to the European Parliament in Brussels.



Bernadette Vergnaud and Evelyne Gebhardt, members of the European parliament, Patrick Fortuit, HPRO Card coordinator





## Phase 2

- **July, 2007:** the project was officially presented to the European Commission (DG for Employment, Social Affairs and Equal Opportunities\*).
- **February, 2008:** the project is recognized by the European Commission with the allocation of a ground.

*\* Call for Tender n°VP/2007/014 - DG Employment "Promotion of geographic and job to job mobility for workers in the EU - INNOVATIVE PROJECTS"*





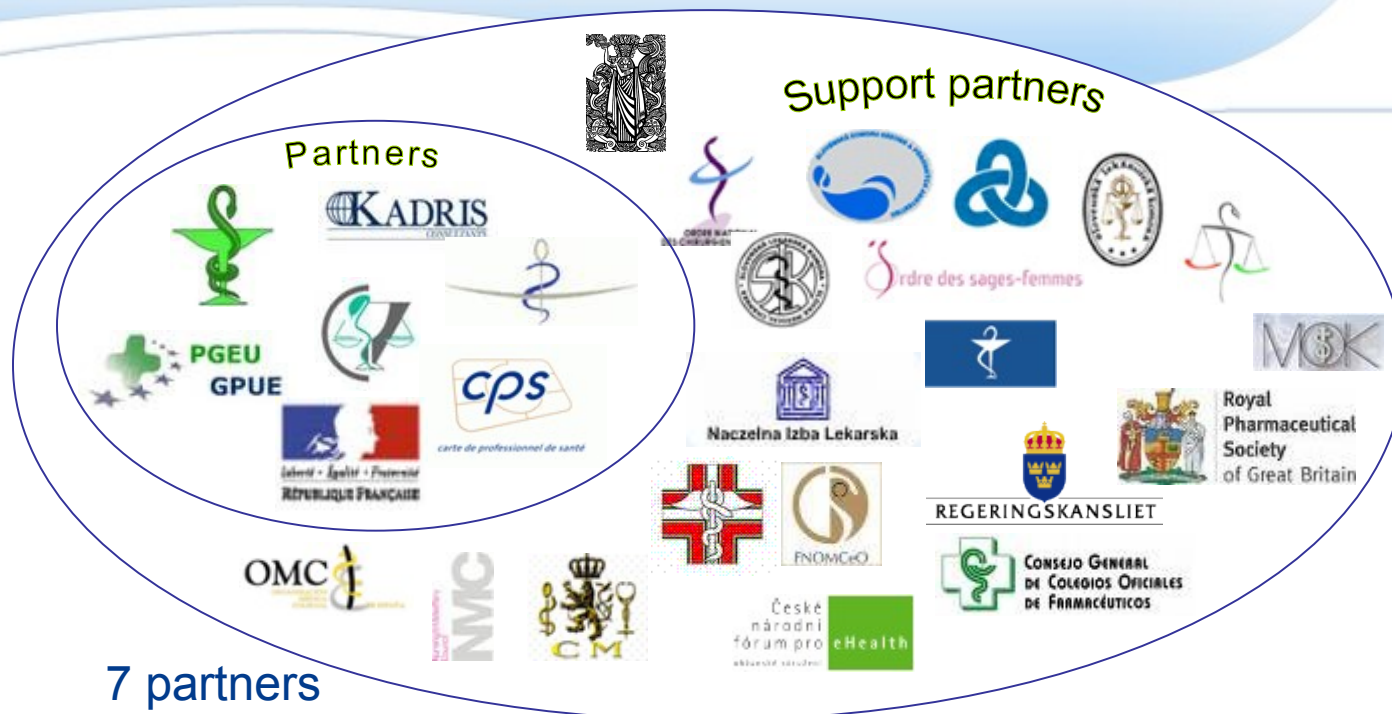
## 2. Details of the project

- **Name** : HPRO Card - Health Professional Card
- **Start date** : March 1, 2008
- **Duration** : 20 months
- **Budget** : 408,339.70 euros
- **Funding** : 296,254.70 euros
- **Number of partners** : 7





## 2. Partners



7 partners  
 + 20 support partners...  
 = 13 States Members  
 (AT, BE, BG, CZ, ES, FR, HU, IT, LU, PL, SK, SE, UK)  
 + other countries in working groups (CH, DE, NO, SI, ...)





## 2. Work packages list

- **WP1** : Identification of the competent authorities for health professionals in EU
- **WP2** : Identification of health professionals cards in Europe
- **WP3** : Conditions for implementation of strong authentication of health professionals
- **WP4** : Interoperability between different health professionals authentication systems
- **WP5** : Project management
- **WP6** : Dissemination

**From March 2008 to November 2009**







# HPRO Card

European Health Professional Card



## 2. WP1 and 2

 Countries studied / or to be completed

 Professions or countries partners

 Countries to study



Rossija



With the support of the European Commission

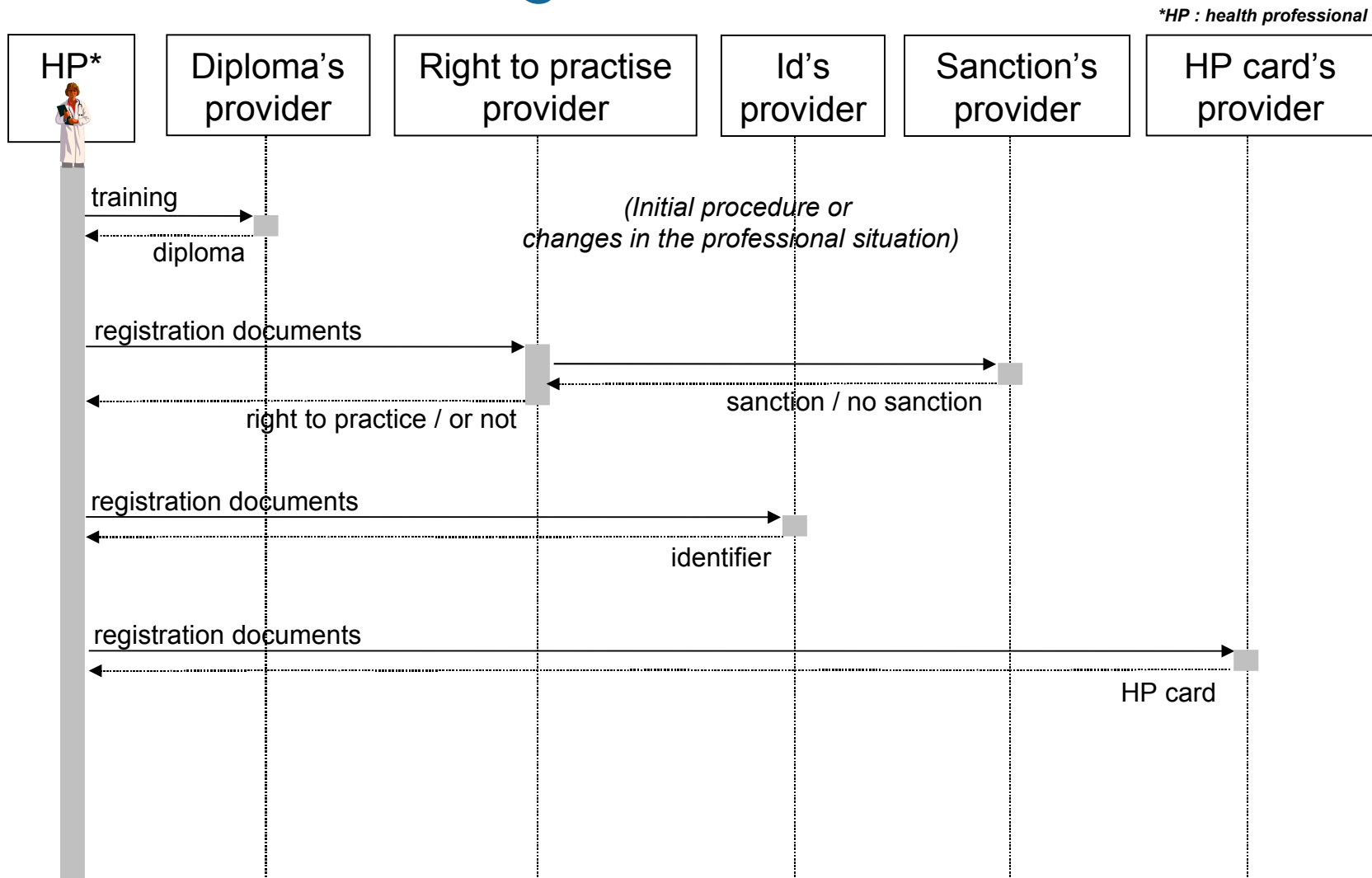






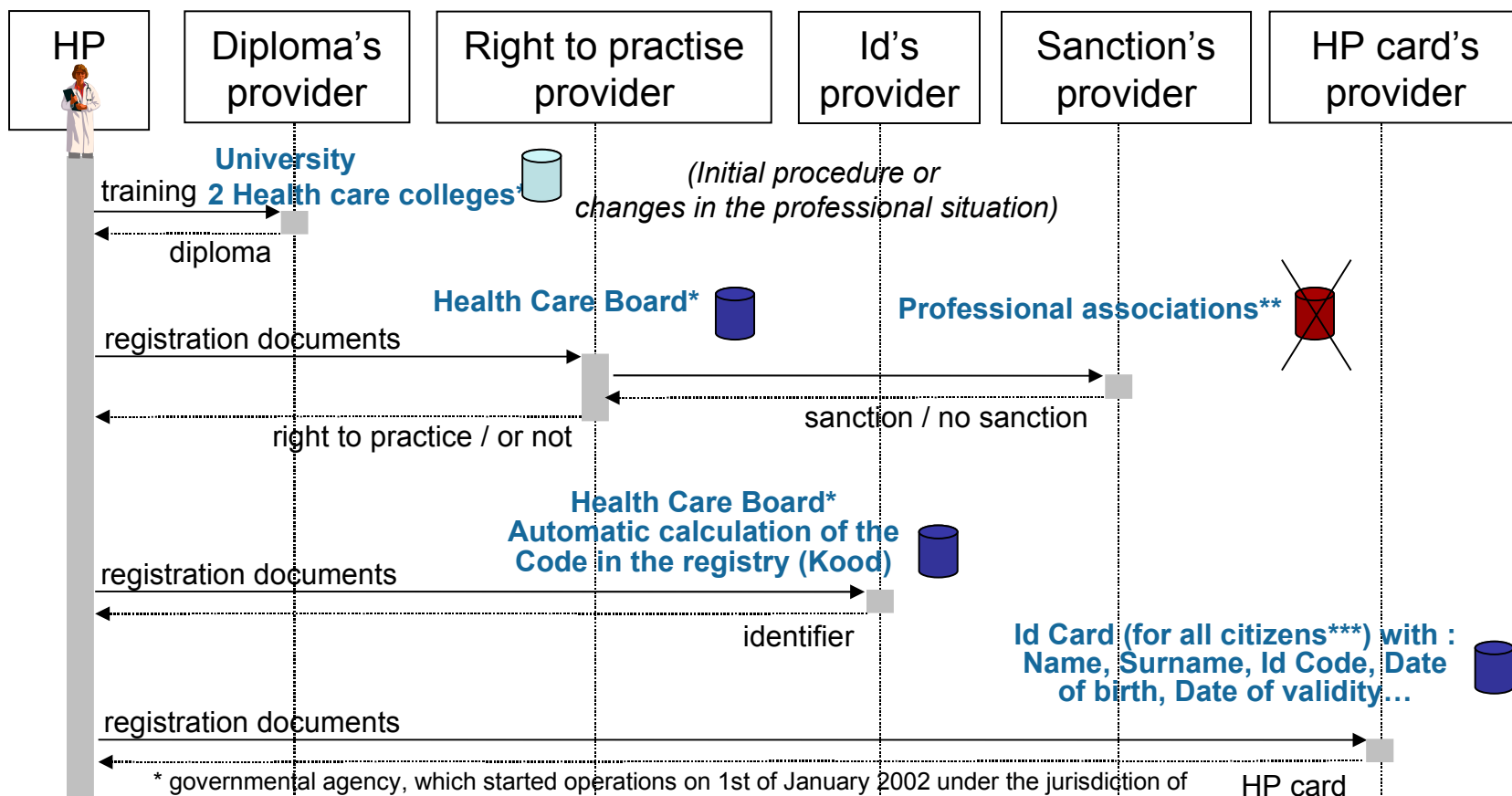
- Universities, training organizations...
- States organizations...
- Health Insurance organizations...
- Professional organizations...
- Other organizations...

## 2. Workflow general model



Conclusion for Estonia :  
Competent Authorities = Health Care Board

## For example : Workflow for Estonia



\* governmental agency, which started operations on 1st of January 2002 under the jurisdiction of the Ministry of Social Affairs, according to the Health Services Organization Act

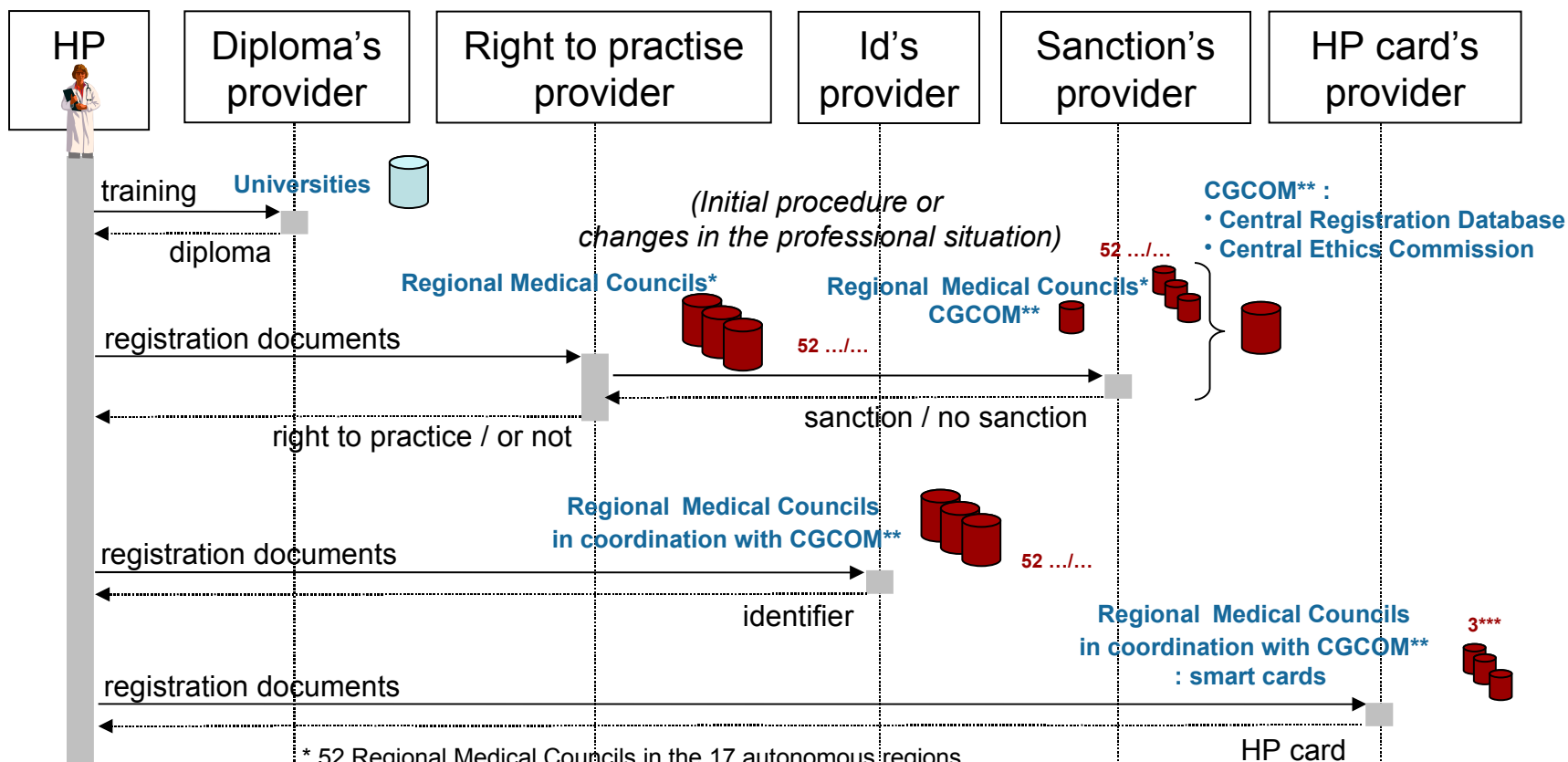
\*\* one association by profession, the sanctions are not registered (due to regulation on privacy)

\*\*\* there is no plan to issue professional cards

\*\*\*\* for nurses and midwives

Conclusion for Spain :  
Competent Authorities for Doctors = OMC

## For example : Workflow for Spain





## Health professionals' identity documents

- Some countries have no card. For example, Poland issues a professional passport



- Some have plastic or paper cards. For example, France or Ireland



## Existing health professionals' smart cards

- **Austria**
  - ★ Pharmacists (Apothekerausweis)
  - ★ Doctors in contract with social insurance (Ordinationskarte or o-card)
- **France**
  - ★ All professions (Carte de Professionnel de Santé CPS)
- **Germany**
  - ★ Doctors (Arztausweis)
- **Hungary**
  - ★ Doctors
- **Italy (Lombardy)**
  - ★ All professions (Carta SISS)
- **Netherlands**
  - ★ All professions (UZI-pas)
- **Slovenia**
  - ★ All professions (Profesionalna kartica)
- **Spain (3 regions)**
  - ★ Doctors (Carné de médico colegiado)
- **Sweden**
  - ★ All professions (SIS card and SITHS card)





## Projects of health professionals' cards

- Belgium (2009)
  - ★ Pharmacists
- Finland (2011)
  - ★ All professions
- Hungary (2010)
  - ★ ?
- Ireland
  - ★ Pharmacists
- Slovakia (2009)
  - ★ All professions
- Spain
  - ★ Pharmacists
- Switzerland
  - ★ Doctors
- ...





- [illegible]



## 2. WP3 and WP4

The interoperability working group has an important contribution

The organisation of their work will depend on the identification of European countries concerned by Smart Cards (WP1 and WP2).

For example :

- ★ Berlin : April 15, 2008
- ★ Berlin : September 15, 2008
- ★ Berlin : December 8, 2008

**Berliner Technical University :**  
Demonstrator with the Dutch, German and French cards

- ★ Paris : March 9, 2009
- ★ Barcelona : April 3, 2009
- ★ Barcelona : July 31, 2009

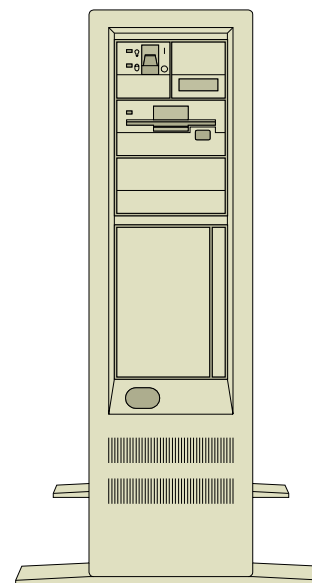
**Spanish Medical Council :**  
Demonstrator with the Spanish and French certification authorities to test cross-borders services

- ★ Brussels : February 20, 2009
- ★ Paris : March 18, 2009
- ★ Brussels : April 27, 2009
- ★ Brussels : May 28, 2009
- ★ Brussels : June 5, 2009
- ★ Paris : July , 2009

**Belgium Pharmacists Chamber + eID company :**  
Demonstrator with the Belgium and French certification authorities to test control services



## 2. German demonstrator (1/2)

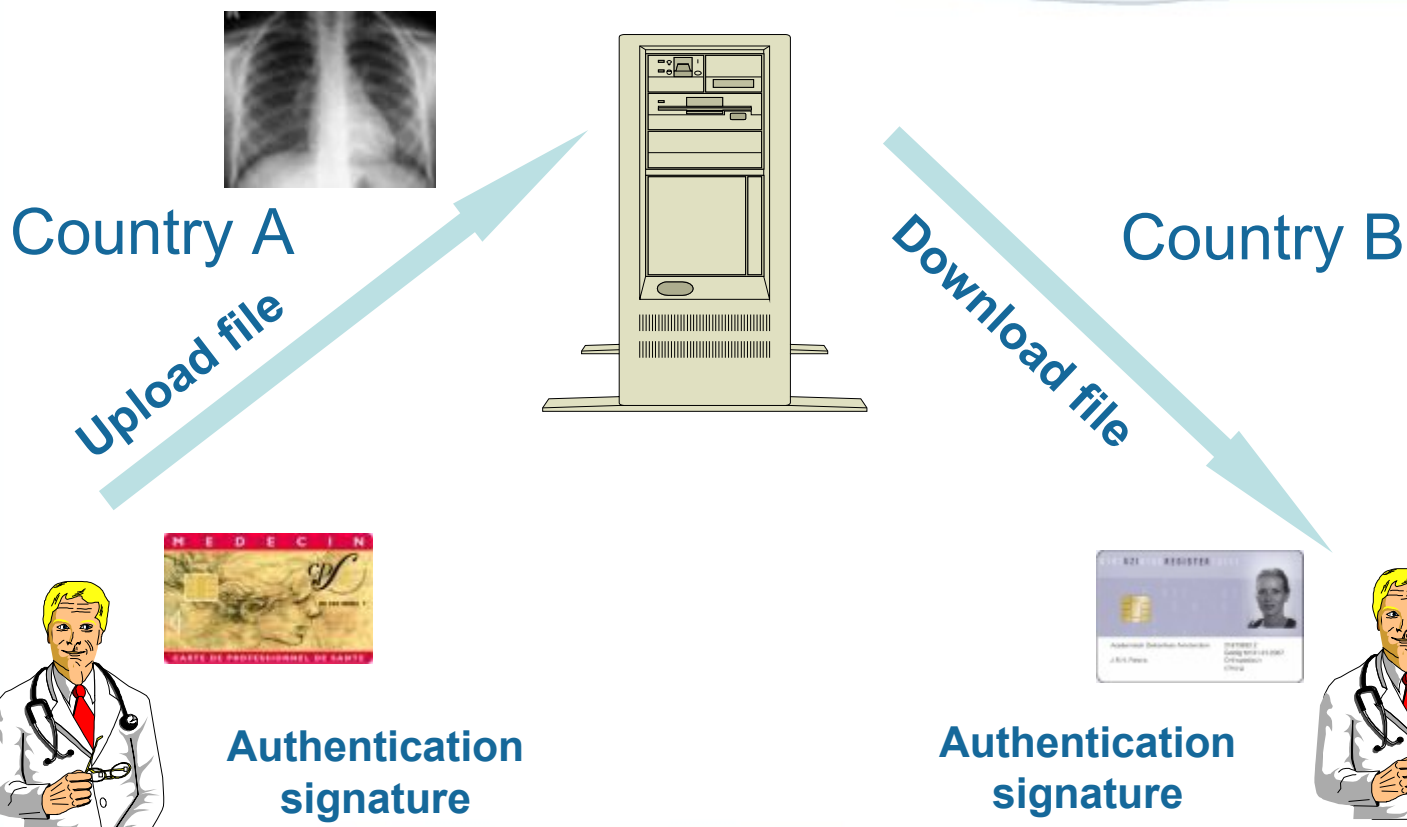


HPC-Interoperability-Server

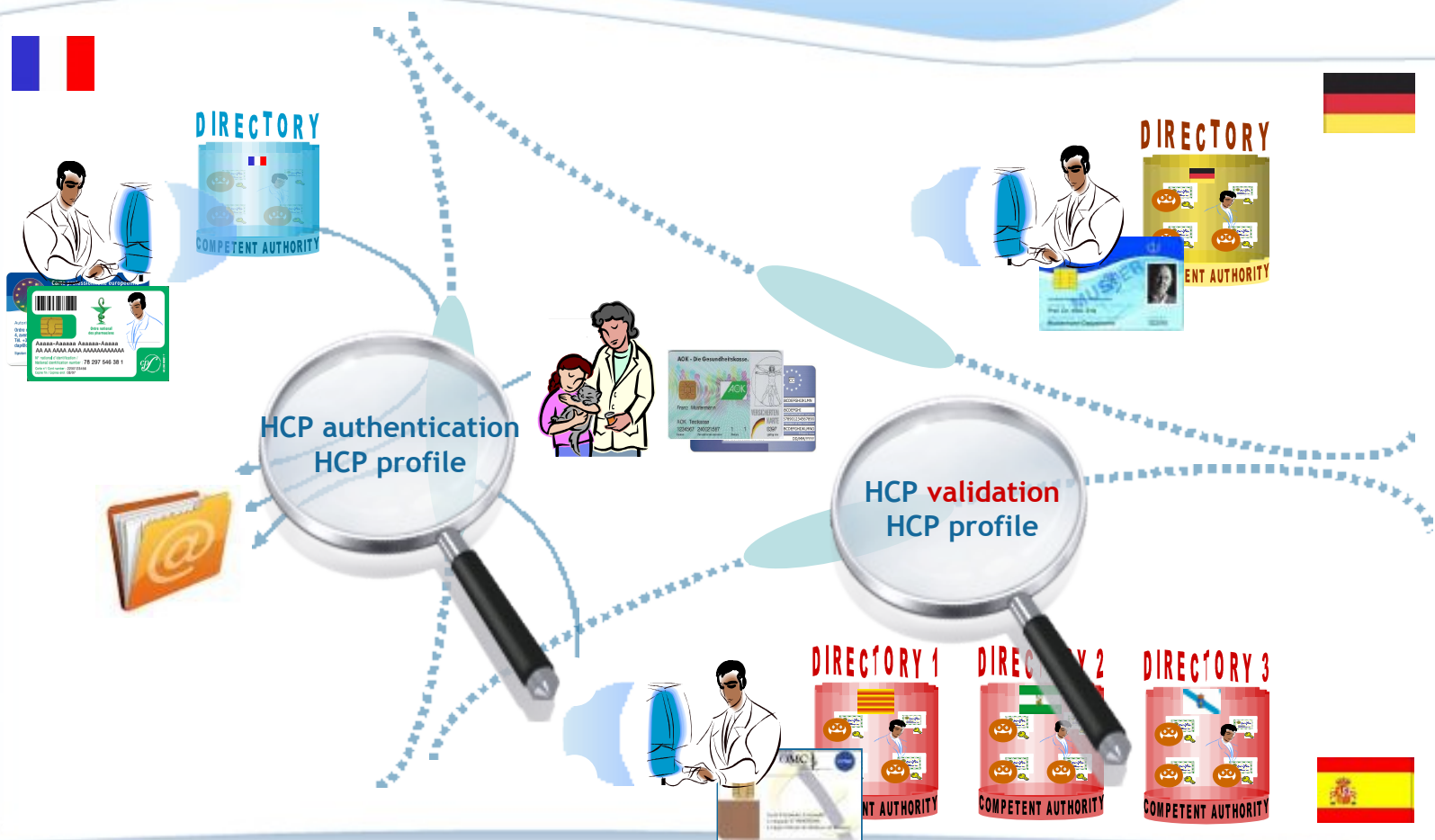




## 2. German demonstrator (2/2)



## 2. Spanish demonstrator

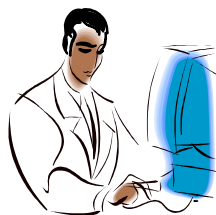






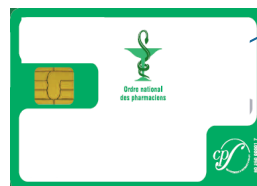
## 2. Belgium demonstrator

- Comparison between :
  - ★ A card provided by its owner



- ★ Its virtual image recomposed

AAAAA-AAAAA AAAAAA-AAAAA  
AA AA AAAA AAAA AAAAAAAAAAAAAA  
N° national d'identification /  
National identification number: 78 297 546 38 1  
Carte N° Card number: 2200123456  
Expiry N° Expiry end: 2020-12-31





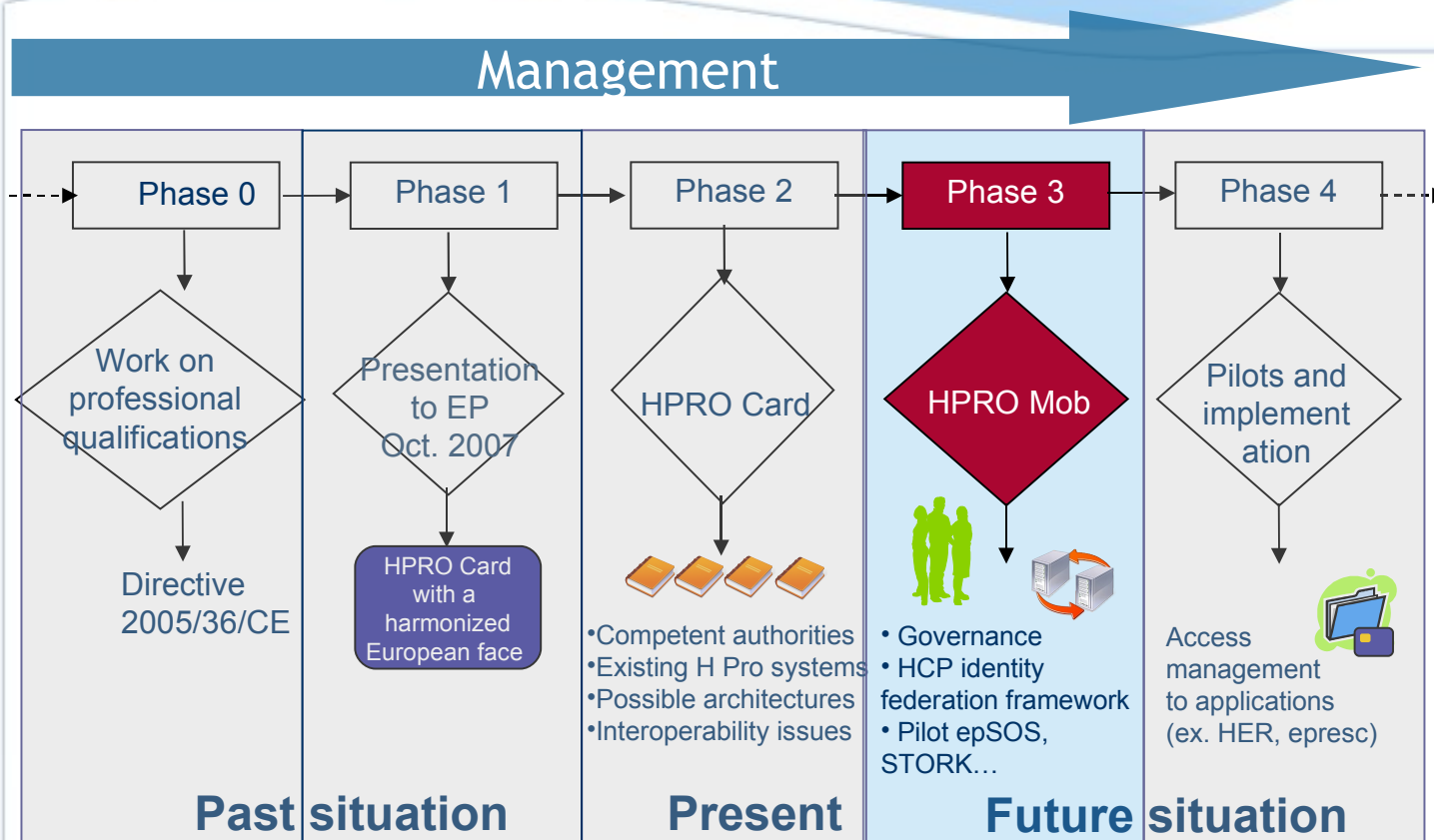


## 2. Cooperation with other eHealth projects

- **Netcards :**
  - meeting between Netcards and HPRO Card coordinators (Paris - June 27, 2008)
  - HPRO Card presentation in the Netcards' steering committee (Le Mans - November 7, 2008)
  - HPRO Card presentation in the Netcards' steering committee (Luxemburg - April 2, 2009)
- **epSOS :**
  - meeting with the epSOS coordinator (Stockholm - Nov 14, 2008) and with the epSOS WP 3.6 leader (WP on identification of patients and health professionals) (Paris - April 1, 2009)
  - kick-off meeting of epSOS WP 3.6 on identification of patients and health professionals (Milan - April 16, 2009)
  - meeting of epSOS WP3.6 (Vienna - May 6, 2009 and July 28, 2009), teleconferences (6-7 TCon)
- **STORK :**
  - Cf. meetings epSOS WP3.6
  - presentation of STORK in the HPRO Card meeting with the existing Certification Authorities (Paris - June 29, 2009)
- **Calliope :**
  - kick-off meeting of Calliope (Heraklion - November 10, 2008)
  - HPRO Card presentation in a Calliope meeting (Prague - February 2, 2009)
  - HPRO Card presentation in the HIT - Calliope Conference (Paris - May 27, 2009)
- **IMI (DG Market) :**
  - meeting with N. Leapman, coordinator of IMI, and his team (Brussels - September 17, 2008)
  - meeting with P. Brumter (Brussels - September 17, 2008, February 2, 2009, June 12, 2009)
  - speeches of P. Brumter and N. Leapman in the HPRO Card conf (Paris - November 28, 2008)
- **Mandate 403 :**
  - Report review and proposal of modifications



## General overview





## Phase 3

3.1 Athens' resolution

3.2 ICT call

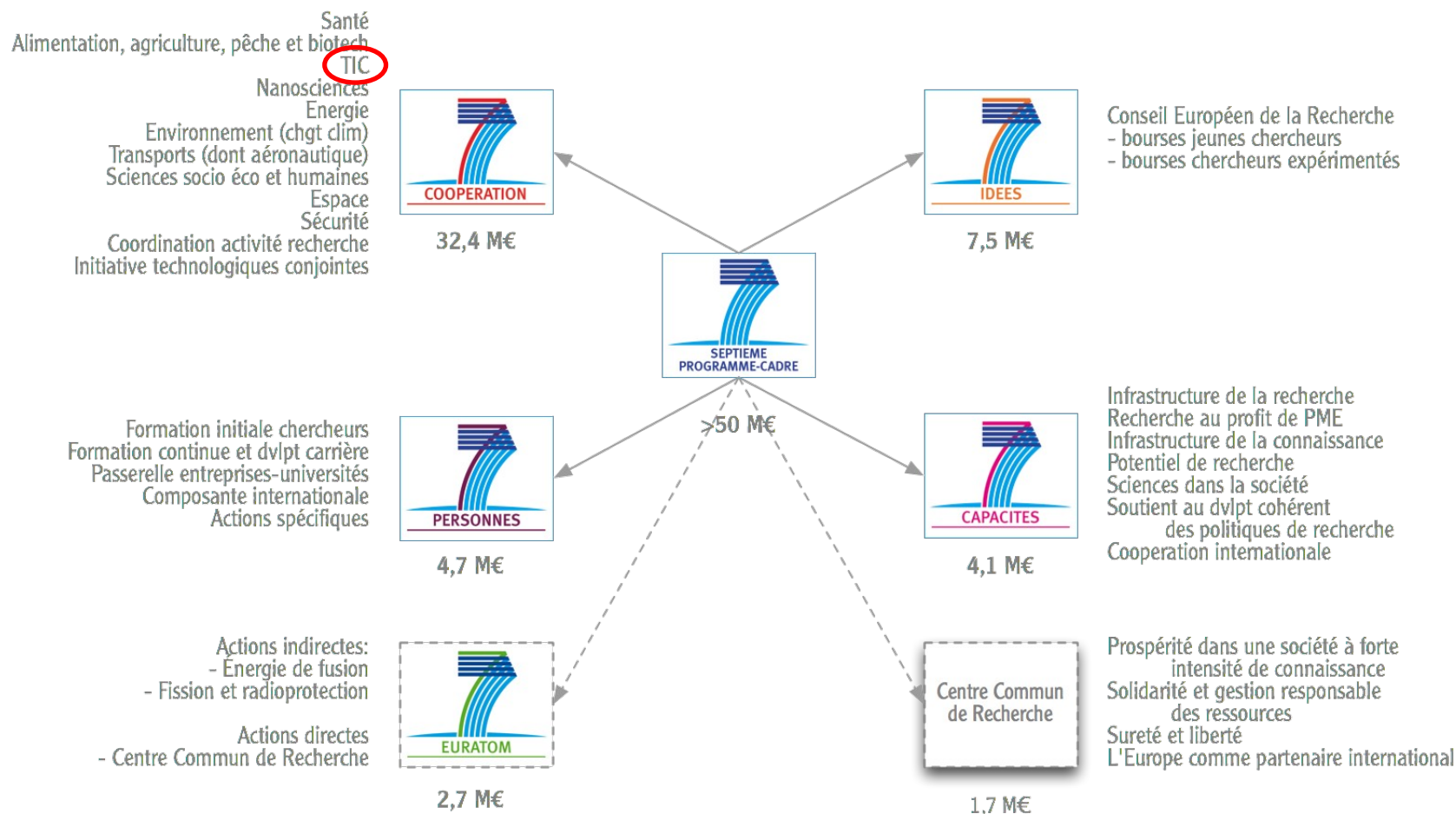


## 3.1 - Athens' resolution proposal

- To support the gradual introduction of an official European Health Professional's card,
- To continue efforts to ensure card interoperability and promote their use for European medical-related applications (medical records, applications for the recognition of professional qualifications....)
- To transform the HPRO Card consortium into a European association, which could take the form of an AISBL.
- To coordinate new initiatives, to continue managing the website and to respond to further projects or proposals from the European Commission.



## 7 FP Organization





## Structure and content of ICT call : challenges

1. Pervasive and Trustworthy Network and Service Infrastructures
2. Cognitive Systems, Interaction, Robotics
3. Components, systems, engineering
4. Digital Libraries and Content
5. Towards sustainable and personalised healthcare
6. ICT for Mobility, Environmental Sustainability and Energy Efficiency
7. ICT for Independent Living, Inclusion and Governance
- + Future and Emerging Technologies





## Structure and content of Challenge 1

1. The network of the future
2. Internet of Services, Software and Virtualisation
3. Internet of Things and Enterprise environments
4. Trustworthy ICT
  - b) Trustworthy Service Infrastructures
    1. Networked Media and 3D Internet
    2. Future Internet experimental facility and experimentally-driven research



## Challenge 4 1-b Trustworthy Service Infrastructures

- Trustworthy and privacy protecting service systems, platforms and infrastructures as part of the development towards the Future Internet, which **support adaptability, interoperability, scalability and dynamic composition of services for citizens and businesses**. Work includes flexible and dynamic mechanisms and risk-based methodologies to **respond** to threats and vulnerabilities, as well as to changes and conflicting demands in operating conditions, business processes or use practices through the full life cycle.
- **Interoperable frameworks for identity management** for persons, tangible objects and virtual entities, with emphasis on user-centricity and **respect of privacy for personal users**.
- Whilst developing technology, projects should give adequate attention to aspects of **usability, societal acceptance**, human behaviour and principles of human rights and legal and economic viability. This could involve multi-disciplinary research activities, experiments or demonstration in realistic, complex and scalable scenarios and contexts.



## Information 5<sup>th</sup> call :

Publication : July 30, 2009

Submission deadline  
ICT : October 26, 2009

Beginning of the projects : during 2010



## Budget rules

Total Budget = EC contribution + partner contribution

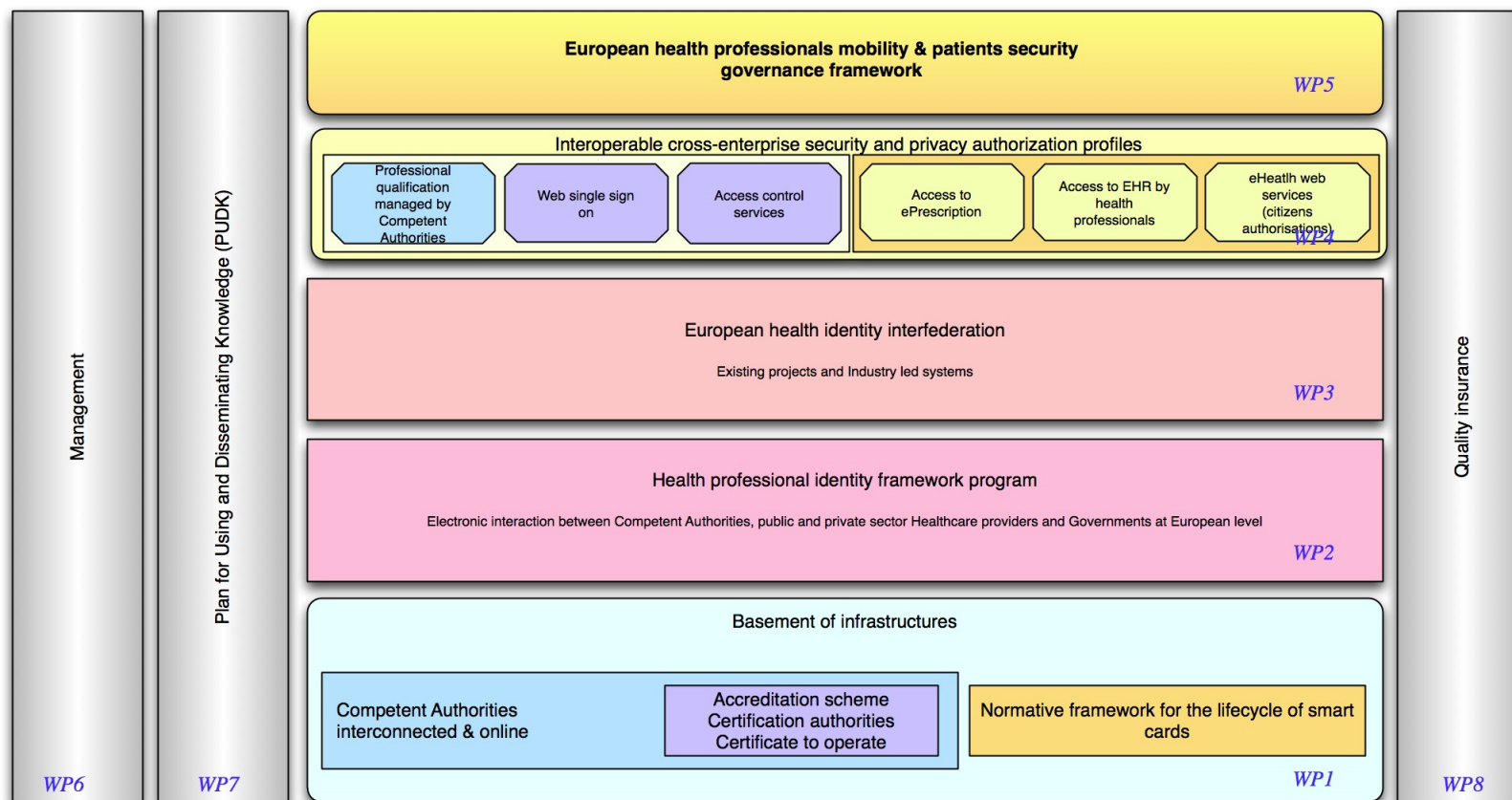
### Maximum reimbursement rates of eligible costs

- Research and technological development = 50% or 75%\*
- Demonstration activities = 50%
- Other activities (including management) = 100%

(\*) For participants that are non profit public bodies, secondary and higher education establishments, research organisations and SMEs.



## HPRO Mob introduction



**Trustworthy ICT for European health professionals mobility & patients security**

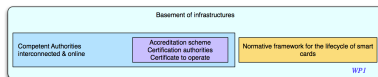
Confidential





## HPRO Mob, Basement of infrastructures

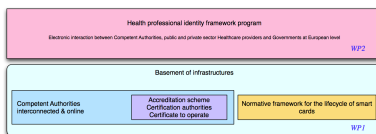
- Help Competent Authorities to deploy the infrastructure needed to become an agent (a regulator) acting permanently in the European eHealth Internet space, and to interconnect them in a European network.
- Establishment of a voluntary accreditation scheme based on validated referentials for the certification service providers issuing digital certificates to health professionals, controlled by the Competent Authorities that have been accredited at European level.
- Establishment of a best practice and normative framework regarding the health professionals' smartcards lifecycle, to assure a high level of trustworthiness and reliability in this key area, and the required level of interoperability.





## HPRO Mob, Health professional identity framework program

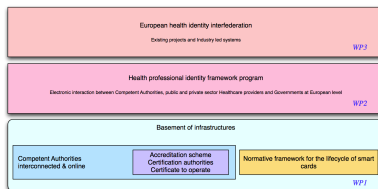
- Definition and implementation of a health professionals' identity federation framework that allows Competent Authorities, public and private sector healthcare providers and Governments to interact electronically with any European health professional in a transparent way, for electronic authentication, electronic professional qualification control, electronic signature or several of them combined in a single operation.





## HPRO Mob, European health identity interfederation

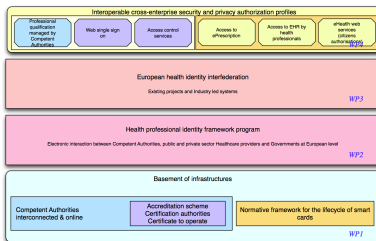
- Definition of the interconnections / interoperability of the health professionals' identity federation framework with other relevant identity systems in Europe, used in such European projects as STORK or ePSOS, and industry-led identity systems, such as OASIS SAML, WS-Federation and Cardspace open standards.
- Creation of a single European health Identity interfederation, which will allow the deployment of fully functional services dedicated to health professionals, citizens-patients, healthcare providers and competent authorities.





## HPRO Mob, Interoperable cross-enterprise security and privacy authorization profiles

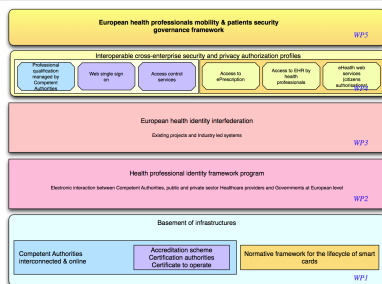
- Administrative services related to professional qualification provided by the Competent Authorities (related to point 1).
- Web single sign on services, which will allow health professionals to be electronically authenticated prior to accessing any European health provider or Government application.
- Access control services, which will allow European health providers or Governments to give access to health professionals to their applications checking the health professionals' qualifications and other attributes, in a trustworthy network of Competent Authorities.
- Electronic prescription services and electronic health record services.
- Citizen-patient electronic consent and authorisation to health professionals' services, which will allow the implementation of new services in the public-private collaboration space for health services provision.





## HPRO Mob, European health professionals mobility & patients security governance framework

- Definition of the the European health professional's mobility governance framework, including the business, organisational, financial, legal, technical and process management aspects of the project.
- The final goal of the project is to have a fully functional and real-world working infrastructure, providing regular services to all the relevant stakeholders by the end of the project timeframe and to maintain it on a self-financing model.

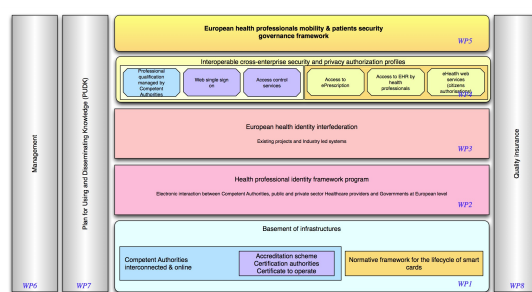






## HPRO Mob, transversal WPs (Management, PUDK, Quality)

- Set up an effective management framework for the HPRO Mob consortium, which will ensure the correct progress of the project towards its planned objectives.
- Implementation of the communication process within and outside the consortium, with a focus on the training part, fostering the rules, best practices and other recommendations to educate various populations (politicians, health professionals, young professionals and the public).
- Assure the validity of all aspects of the various processes that will be delivered by the project, ensure normative compliance and educate all the partners to the necessity of quality assurance in every aspects of the project.





## HPRO Mob, potential partnership

Partner		CNOP FR	CNOM FR	ONCD FR	OMC ES	CNOP B	UCL B	Kadris FR	PGEU	Poland (pharmacists)	Slovakia (pharmacists)	Ireland (pharmacists)	Italy (Lombardia informatics)	ELGA AT	CNOM D	NMC UK	NL	Univ NL ?	S'w	Ethel ?	Oracle	Cisco ?	Ineum	ASIP	Ministère re FR	eID B	
Coordination																											
1: Basement of infrastructures																											
	Competent Authorities interconnected &		/	/						/		/												/			
	Accreditation scheme Certification authorities, certificate to operate		/		/			/										/					/	/		/	
	Normative framework for lifecycle of smart card																						/	/			
2 : HCP identity framework program					/		/				/	/		/				/			/	/					/
3 : European health identity inter federation					/	/	/				/			/				/			/	/					/
4 : Interoperable cross-enterprise security and privacy authorization profiles																											
	Professional qualification managed by Competent Authorities	/	/		/	/			/	/		/		/										/			
	Web single sign-on											/	/	/							/	/		/			
	Access control service											/	/	/							/	/		/			
	Access to ePrescription	/	/			/			/		/	/	/	/							/	/		/			
	Access to EHR by HCP		/								/		/	/							/	/		/			
	eHealth web services (citizens authorization)		/								/		/	/							/	/		/			
5 : European HCP mobility / patients security governance framework		/		/	/	/			/	/	/	/															
6 : Management		/			/			/																/	/		
7 : Plan for Using and Disseminating Knowledge (PUDK)								/												/							
8 : Quality Assurance						/																			/	/	
9 : Legal Framework			/	/	/		/				/	/	/	/				/							/		



## More information

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