



## From strategies to services

– eHealth as the enabler for cross-border healthcare



Gesellschaft für Telematikanwendungen der Gesundheitskarte mbH

## Closer Cooperation on healthcare in the EU – from threat to possibility

- Healthcare a strict national prerogative.
- Previously only a limited co-operation on a general policy level.
- Substantial **variations** between national healthcare systems, but also...
- ...substantial **similarities** in political ambitions to reform healthcare as well as the in the challenges to reach these goals.

## 2008 marks a new era in legal and policy framework for EU Cooperation on eHealth

- Proposal for a European **Directive** on patients' rights in cross-border healthcare.
- Commission **Recommendation** on cross-border interoperability of electronic health record systems.
- Upcoming **Communication** on telemedicine for advanced home care and chronic diseases.
- eHealth **Standardisation** Mandate 403.

## epSOS – a highly political project

- Member State obligation to deliver the best possible medical treatment – at home or when travelling.
- Introducing a new dimension in national healthcare systems.
- Main political objectives:
  - support **patient mobility** nationally and in the EU
  - ensure that patient **safety** is guaranteed
  - **increase efficiency** and cost-effectiveness in cross-border care.

## Goals & Challenges

- **Goal for the epSOS eHealth Project:**
  - *“to develop a practical eHealth framework and ICT infrastructure that will enable secure access to patient health information, particularly with respect to a basic patient summary and ePrescription, between European healthcare systems.”*
  
- **Challenge to get there:**
  - Legal Interoperability
  - Organisational Interoperability
  - Semantic Interoperability
  - Technical Interoperability

## The epSOS Project Team

- The Project Team consists of 27 beneficiaries from 12 member states:
  - 9 National Ministries of Health
  - 16 National/regional Competent Centers
    - Including 100+ Contributors
  - IHE-Europe representing ICT industry team
  - empirica responsible for administrative management
  - gematik responsible for technical management



## Beneficiary IHE - The Industry Team

- [Accenture](#)
- [Agfa HealthCare](#)
- [British Telecom](#)
- [Cisco](#)
- [CMP Medica](#)
- [COCIR](#)
- [Custodix](#)
- [dbMotion](#)
- [Dedalus](#)
- [Electronic Record Company](#)
- [ETIAM](#)
- [GE Healthcare](#)
- [GMSIH](#)
- [Gnomon](#)
- [ICW](#)
- [Indra](#)
- [Infonet](#)
- [Insiel](#)
- [Intel Corporation S.A.](#)
- [Lombardia Informatica](#)
- [Microsoft](#)
- [Netsmart](#)
- [Oracle](#)
- [Posam](#)
- [RISE](#)
- [SAP](#)
- [Siemens](#)
- [Sineura SpA](#)
- [SmartIS](#)
- [Steria Mummert Consulting AG](#)
- [Tiani-Spirit](#)
- [TrebleM](#)



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## **Am Europäischen Pilotprojekt nehmen auf europäischer Ebene zwölf Mitgliedstaaten der Europäischen Union teil**

- Dänemark
- Deutschland
- Frankreich
- Griechenland
- Italien
- Niederlande
- Österreich
- Schweden
- Slowakien
- Spanien
- Tschechische Republik
- Vereinigtes Königreich

## epSOS CA: Governance

### PSB Project Steering Board

- **Representatives of Pilot countries**  
SE, AT, CZ, DE, DK, EL, ES, FR, IT,  
NL, SK, UK ...
- **PSB is composed of all NABs**
- **Responsibilities: policy and quality, overall direction, scope / site selection**
- **Chair from SENA**
- **2 meetings/year, simple majority voting**

## **Am Europäischen Pilotprojekt nehmen auf deutscher Seite folgende Partner aktiv teil**

- Bundesministerium für Gesundheit (BMG)
- Gesellschaft für Telematikanwendungen der Gesundheitskarte (gematik)
- Kassenärztliche Bundesvereinigung (KBV) - vertreten durch das Zentralinstitut für die kassenärztlichen Versorgung (ZI)
- Deutsche Krankenhausgesellschaft (DKG)
- Deutsches Institut für medizinische Dokumentation und Information (DIMDI)
- Fraunhofer Instituts für Software und Systemtechnik (ISST) in Berlin
- Institut für Software-Engineering (INSO) an der TU Wien
- Institute for Formal Ontology and Medical Information Science (IFOMIS) an der Universität des Saarlandes

## **Das Europäische Pilotprojekt wird auf deutscher Seite durch weitere Institutionen begleitet**

- Bundesärztekammer (BÄK)
- Verband der privaten Krankenversicherung (PKV)
- Bundesvereinigung deutscher Apothekerverbände (ABDA)
- Bund-Länder-Arbeitsgruppe Telematik im Gesundheitswesen (BLAG)
- Telematikplattform für medizinische Forschungsnetze (TMF)
- Verband der Hersteller von IT-Lösungen im Gesundheitswesen (VHitG)

## Broad Cooperation & Trust the key to success

- **Openness** and **transparency** key values for the epSOS Project!
  - all Member States welcome to get insight in the project, provide feedback and input.
  - the project is open to additional participating Member States.
  - progress reports at EU meetings and conferences.
  - Close cooperation with Calliope and STORK projects
  - eHealth Stakeholders' Group involvement pivotal.

## eHealth Stakeholder's Group ...to mention a few

- AGE – European Older People's Platform\*
- AIM – Association Internationale de la Mutualité
- CPME – Standing Committee of European Doctors
- EFN – European Federation of Nurses Associations
- EFMI – European Federation for Medical Informatics
- EHMA – European Health Management Association \*
- EHTEL – European Health Telematics Association \*
- EPF – European Patients Forum
- HOPE – European Hospital and Healthcare Federation \*
- OPEN EHR – Open EHR foundation
- PGEU – Pharmaceutical Group of the European Union  
(representing community pharmacists)
- UEMS – European Union of Medical Specialists

## Reminder - From Strategies to Services

- Provide **concrete cross border services** that ensures a safe, secure and efficient medical treatment for citizens when travelling across Europe.
- Focus on services close to the patient:
  - European Patient Summary
  - ePrescribing across the EU
- Build on **existing National eHealth Projects** and use experiences and knowledge from all Member States.

## Cooperation with CALLIOPE

- epSOS WP 1.3 <-> CALLIOPE WG 2
- Communication with a broader audience in both directions
- Infrastructure for dissemination activities
- Qualified feedback
- Input from Calliope's defined areas of work (Roadmap, EU-recommendations, Standards)

## Liaison between epSOS WP3.6 & STORK

- Develop common rules and specifications to assist mutual recognition of eIDs across national borders;
- Test, in real life environments, secure and easy-to-use eID solutions for citizens and businesses
- Interact with other EU initiatives to maximize the usefulness of eID services



**Ablauf:**

**Das Pilotprojekt wird bei einer Laufzeit von 36 Monaten in vier Phasen durchgeführt**

Phase 1: **Analyse** der existierenden rechtlichen und technischen Umgebungen in den beteiligten Mitgliedstaaten.

Phase 2: **Spezifikation** einer Architektur und der gemeinsamen Komponenten der beiden zu realisierenden Gesundheitsdienste.

Phase 3: **Implementierung** der technischen Komponenten und Integration in die nationalen Umgebungen; Festlegung der zur Pilotierung erforderlichen rechtlichen und vertraglichen Rahmenbedingungen.

Phase 4: **Evaluierung** der grenzüberschreitenden Gesundheitsdienste in grenzüberschreitenden Pilotversuchen.

## WP 1.1 Analysis & Comparison of National Plans & Solutions

- **T1.1.1: Use case review and conceptual design**
- **T1.1.2: National analogue use cases**
- **T1.1.3: Documentation and template specification**
- **T1.1.4: Country analysis**

### Through 4 Use Cases

- 1. Patient summary**
  - A. Occasional visit**
  - B. Regular visit**
- 2. ePharmacy**
  - A. Medication re-dispense**
  - B. Medication occasional dispense**

## Arbeitspakete (PD1 und PD2)

<b>PD1</b>	<b>Analysis and Evaluation</b>
WP1.1	Analysis and comparison of national plans/solutions
WP1.2	Overall evaluation of the project
WP1.3	Dissemination
<b>PD2</b>	<b>Legal and regulatory issues</b>
WP2.1	Analysis and comparison of legal and regulatory issues

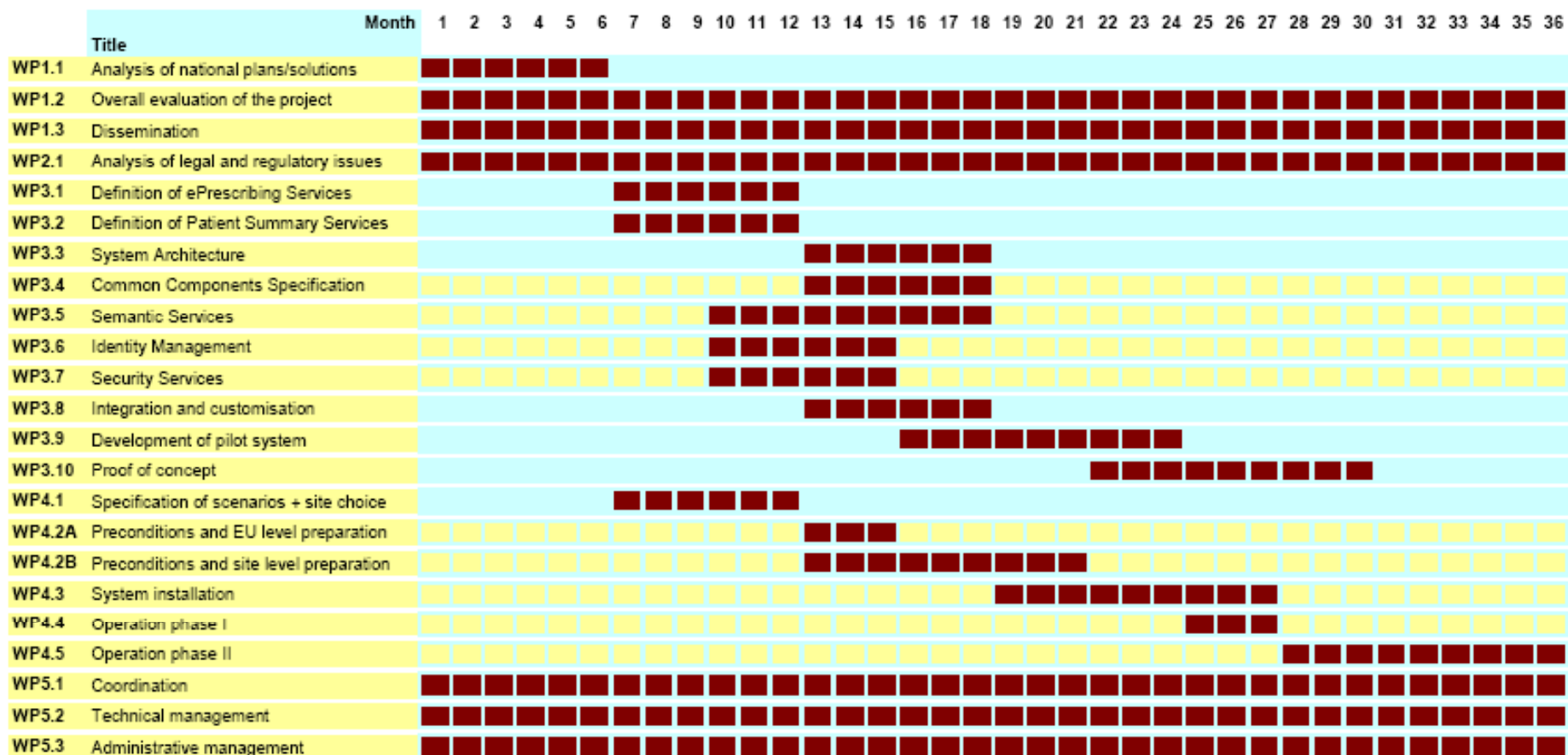
## Arbeitspakete (PD3)

<b>PD3</b>	<b>Specification and implementation</b>
WP3.1	Definition of ePrescription Services
WP3.2	Definition of Patient Summary Services
WP3.3	System Architecture
WP3.4	Common Components Specification
WP3.5	Semantic Services
WP3.6	Identity Management
WP3.7	Security Services
WP3.8	Integration and customisation
WP3.9	Development of pilot system
WP3.10	Proof of concept

## Arbeitspakete (PD4 und PD5)

<b>PD4</b>	<b>Field testing</b>
WP4.1	Specification of test scenarios including site choice
WP4.2	Preconditions and EU/site level preparation
WP4.3	Pilot implementation (EU, national, local)
WP4.4	Operation I
WP4.5	Operation II
<b>PD5</b>	<b>Project Management</b>
WP5.1	Coordination
WP5.2	Technical Management
WP5.3	Administrative Management

# Time schedule - GANTT Chart



## Finanzierung des Pilotprojekts

- Budget **22 Millionen Euro**
  - Die Kommission fördert zu 50% mit maximal **11 Millionen Euro**.
  - Koordination des Konsortiums und das administrative Management werden zu 100% finanziert (durch Umlage!)
  - Reserve in Höhe von 2 Millionen Euro für gemeinsamen Aktivitäten (u.a. Veröffentlichung und Verbreitung von Ergebnissen) vorgesehen.
- Die Mitgliedstaaten bringen keine gesonderten finanziellen Ressourcen in das Projekt ein
- Die deutsche Beteiligung wird einen finanziellen Umfang von **ca. 2,3 Millionen Euro** haben und kann mit **ca. 1,15 Millionen Euro Förderung** von der Europäischen Kommission rechnen