



epSOS

EUROPEAN PATIENTS
SMART OPEN SERVICES





Patient Summary und ePrescription im europäischen epSOS-Projekt

Andreas Grode
Leiter Innovation und Technologie

gematik - Gesellschaft für Telematikanwendungen
der Gesundheitskarte mbH
Friedrichstraße 136
10117 Berlin





2008 marked 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
- [Communication](#) on telemedicine for the benefit of patients, healthcare systems and society
- 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*”
- Challenges to get there:
 - Legal Interoperability
 - Organisational Interoperability
 - Semantic Interoperability
 - Technical Interoperability



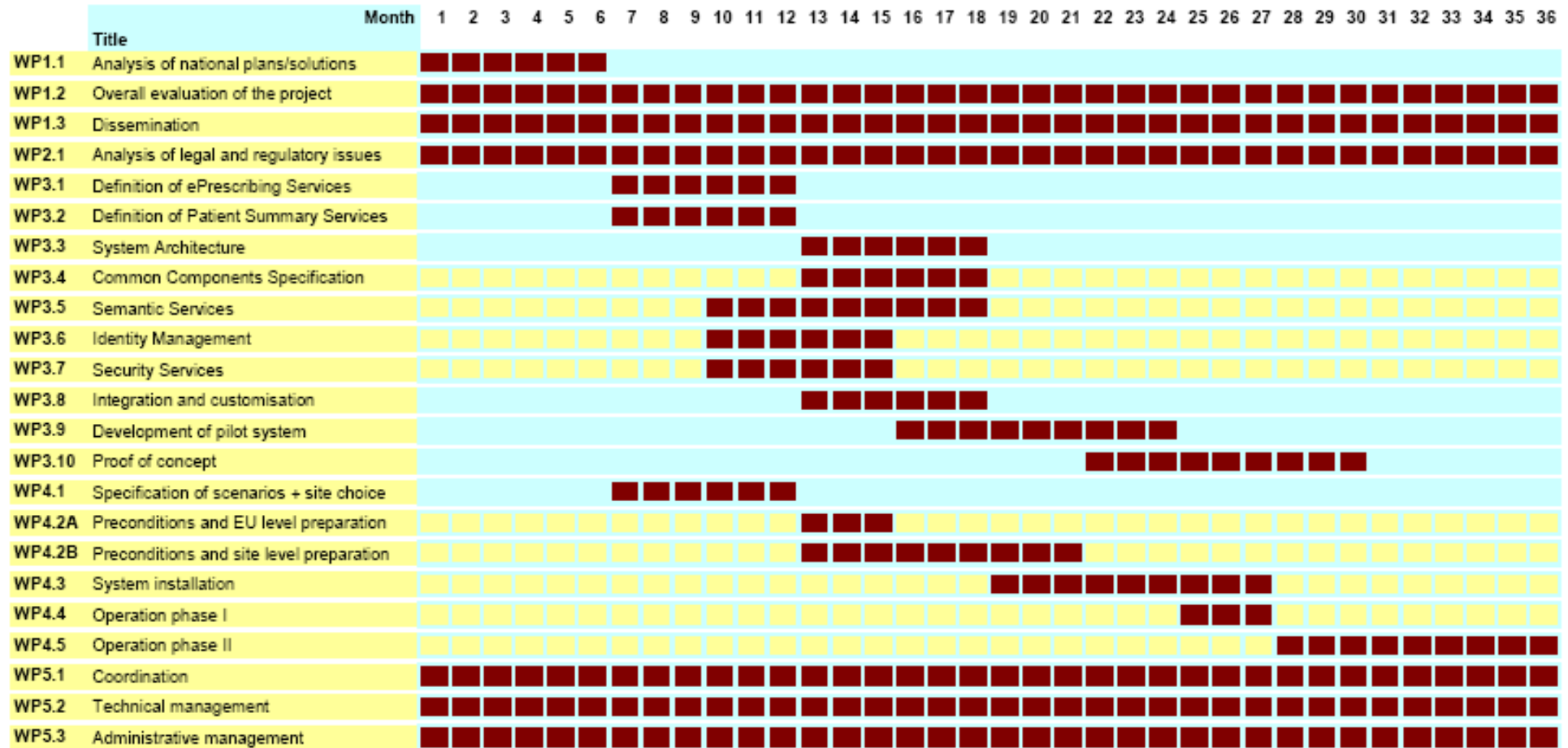
The epSOS Project Team



- The Project Team consists of 27 beneficiaries from 12 member states:
 - 9 National Ministries of Health, 18 National/regional Competence Centers; **ANDA**, **ATNA**, **CATA**, **CLM**, **DENA**, **DKNA**, **ELGA**, **EMPIRICA**, **FRNA**, **GEMATIK**, **GIPDMP**, **FRNA**, **IHE**, **IZIP**, **LOMBARDY**, **MEDCOM**, **NHIC**, **NHS**, **NICTIZ**, **NLNA**, **SALAR**, **SENA**, **THESS**, **CNRS**, **FRAUNHOFER ISST**, **PHARMAXIS**, **KBV/ZI**
 - Competence Centers including/working with local organizations with thousands of contributors
 - **IHE-Europe** representing “ICT industry team”



Time schedule - GANTT Chart



From Strategies to Services



- Provide **concrete cross border services** that ensure safe, secure and efficient medical treatment for citizens when travelling across Europe
- Focus on services close to the patient:
 - **Patient Summary for EU Citizens**
 - Occasional Visit
 - (Regular Visit)
 - **ePrescribing for EU Citizens**
 - Medication Re-Dispense
 - Medication Occasional Dispense
- Build on **existing National eHealth Projects** and use experiences and knowledge from all Member States



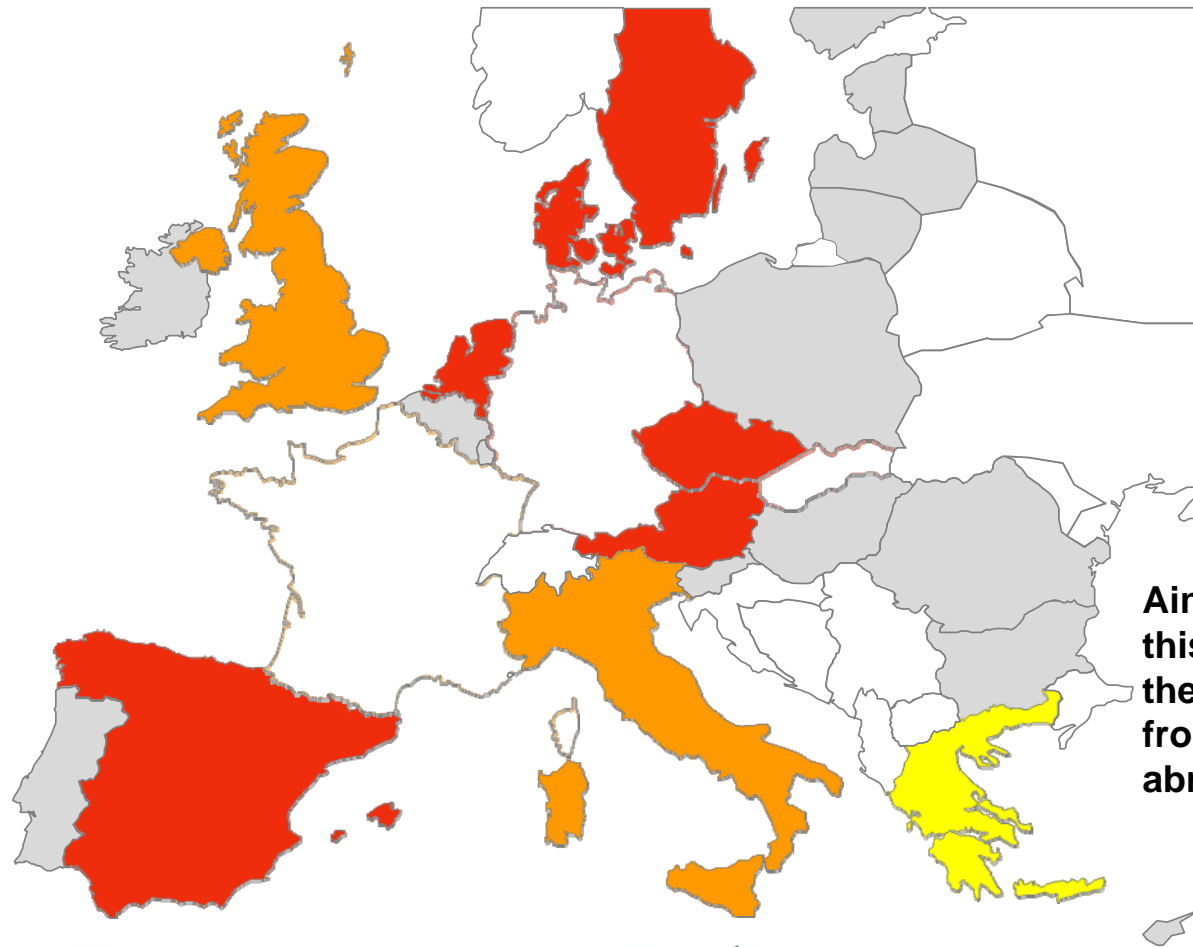
Patient Summary: Basics



- Access to the Patient Summary information is in the context of a resident of one Member State visiting another MS and seeking healthcare.
- It is assumed that the PS made available to the HCP contains **only** updated and reliable information.
- At European level, it is possible that the patient may have more than one electronic PS, in one or many countries.
- In epSOS only **one** common structured epSOS PS per country will be visible from outside



Availability of Patient Summary 2010



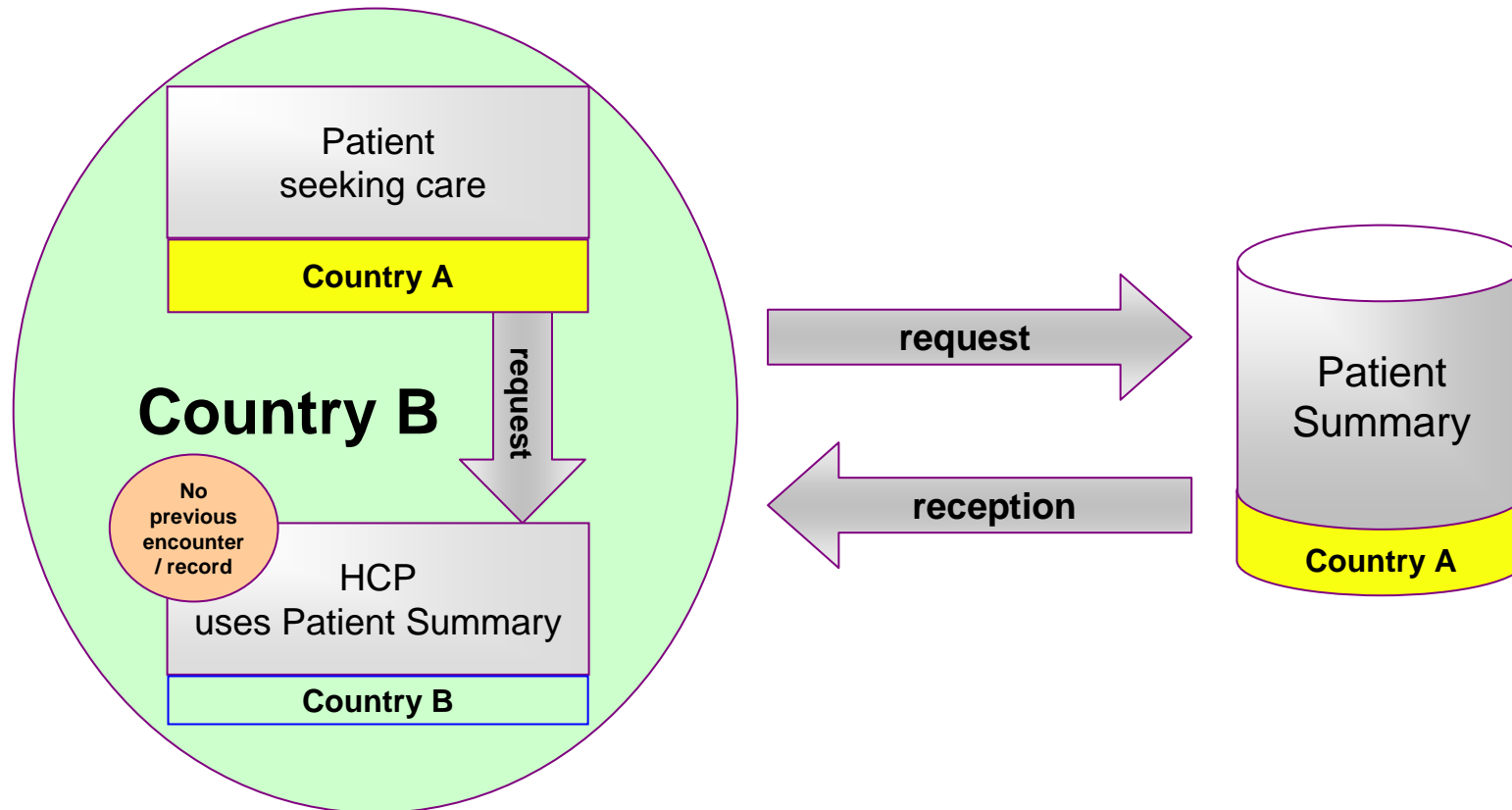
Aim: citizens who receive this eHealth services in their country, will benefit from it also when travelling abroad.



PS: Description of the Use cases



- **Use Case 1: Occasional Visitor** (e.g. attending business meeting)
 - Incidental encounter
 - Visit is irregular, infrequent, and may not be repeated
 - Healthcare professional (HCP) has no record of previous encounters



Patient Summary 'Minimum dataset'



Information/dataset	Contains
Patient Identification	Unique identification for the patient in that country.
Patient Personal information	Full name. Date of birth Gender
Allergies	Allergy description and agent
Medical Alerts	Other alerts not included in allergies
List of current problems	Problems/diagnosis that need treatment and/or follow up by a HCP
Medication Summary	Current medications
Country	Name of Country A
Date of creation of PS	Data on which PS was generated
Date of last updated	Data on which PS was updated
Author organization	At least an author organization (HCPO) shall be listed. In case there is not HCPO identified at least a HCP shall be listed.



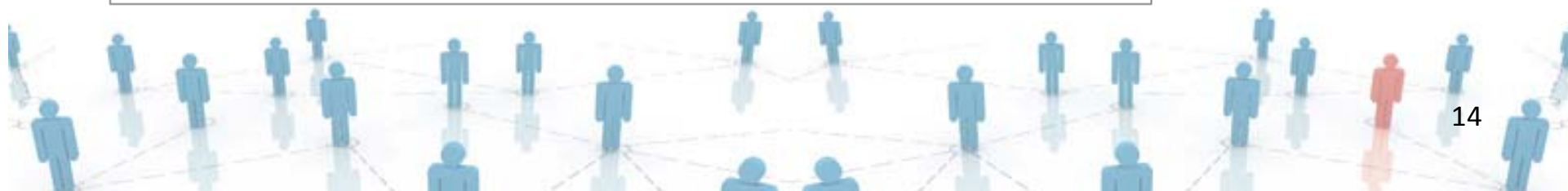
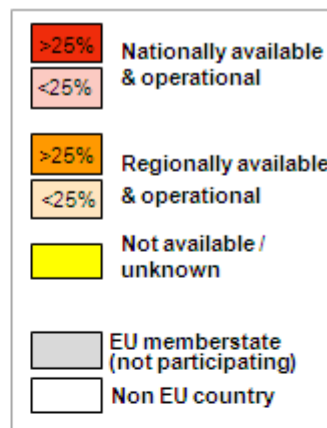
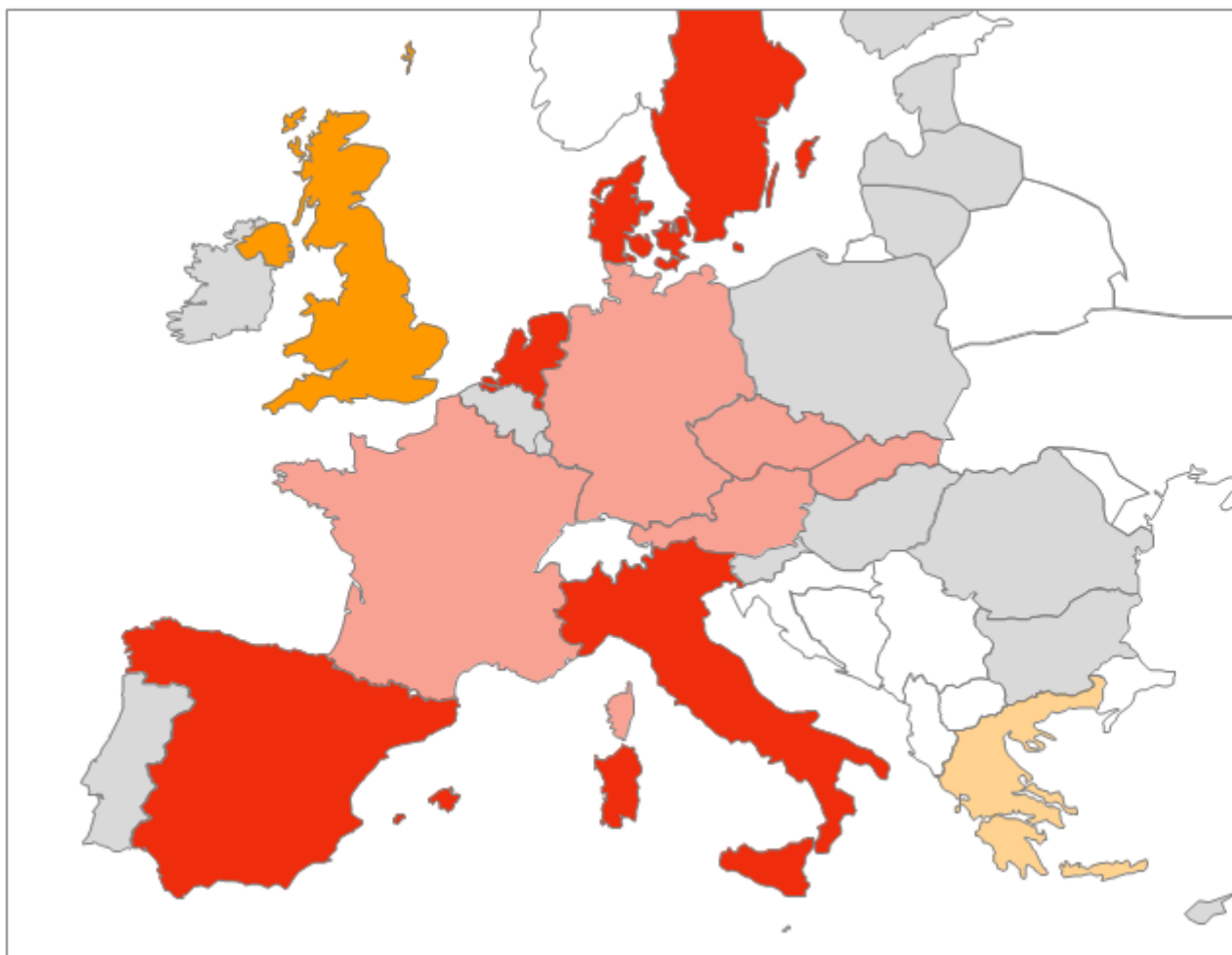
Patient Summary, Decisions



- The Patient Summary does not hold detailed medical history or details of clinical condition
- The Patient Summary dataset has been defined from the medical standpoint.
- Every MS is responsible for the content of the PS generated in it.
- All information interchanged must be understandable in both countries involved in the interaction.
- The Medication Summary is part of the Patient Summary. It is defined as the list of the current medications



Availability of ePrescriptions 2010



ePrescription (I)



- Prescriptions are in the responsibility of the country which generates them.
- Use cases: ePrescription from Country A are dispensed in Country B
- Minimum DATASETS: Minimum (essential) data items for the dispenser to dispense from the pharmaceutical point of view to identify the medicine
- Pharmaceutical care: It can not be assured that all the information needed for a correct or proper Pharmaceutical care will be available. It is assumed that medication surveillance, as part of the pharmaceutical care, will be covered by other processes in the country



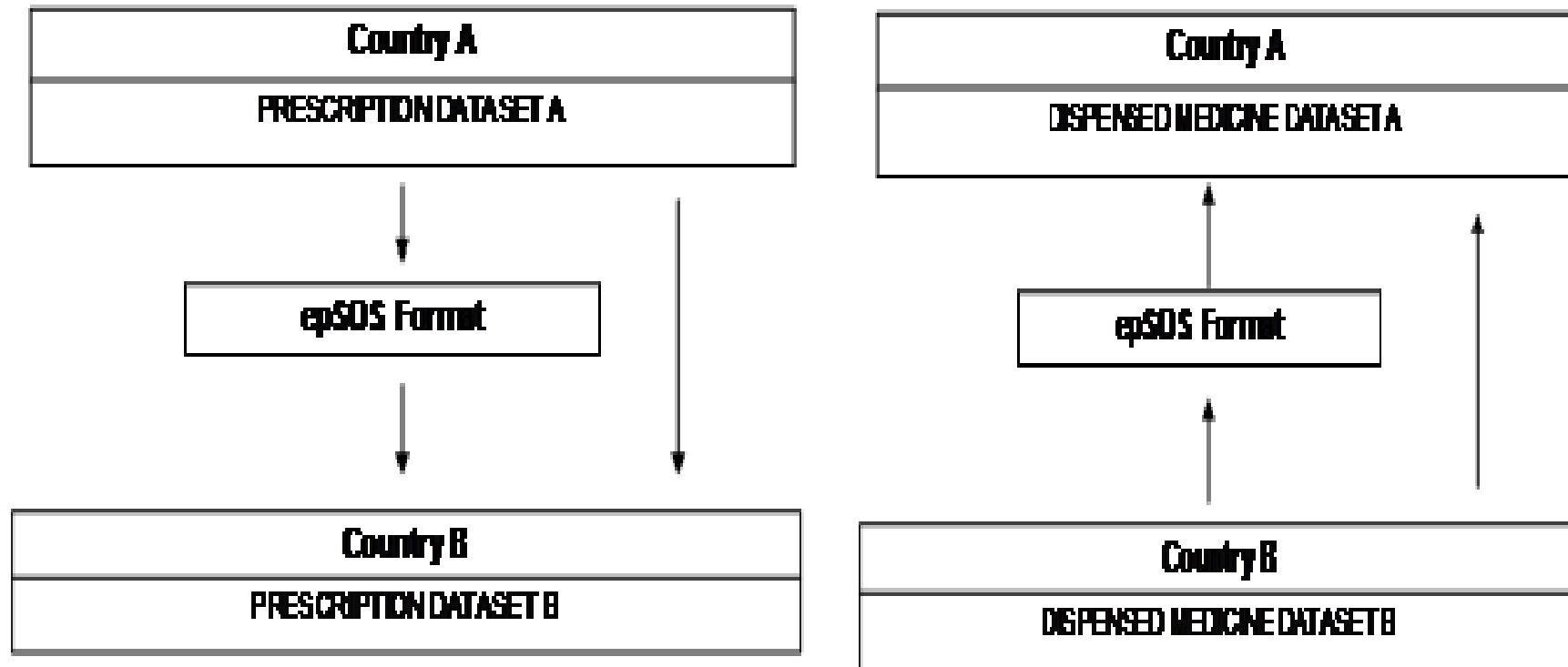
ePrescription (II)



- **BASIC DATASET:** Set of essential health information that is required from the clinical point of view
 - **MANDATORY DATASET:** it is a subgroup of the Basic Dataset, they must have a valid value. If the values are not valid, the PS will be rejected.
- **EXTENDED DATASET:** desirable health information from the clinical point of view. The fields are not mandatory to be sent



ePrescription (III)



Status ePS / Patient Summary



- Functional requirements in final decision process
- In discussion (other Workpackages)
 - Semantic Issues
 - Architecture and Services
 - Security (Authentication, Access rights,)
 - Testing / Pilot Sites
 - Legal basis for piloting





www.epsos.eu

