

# Patient Summaries and the European eHealth Digital Service Infrastructure

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19th International HL7 Interoperability Conference

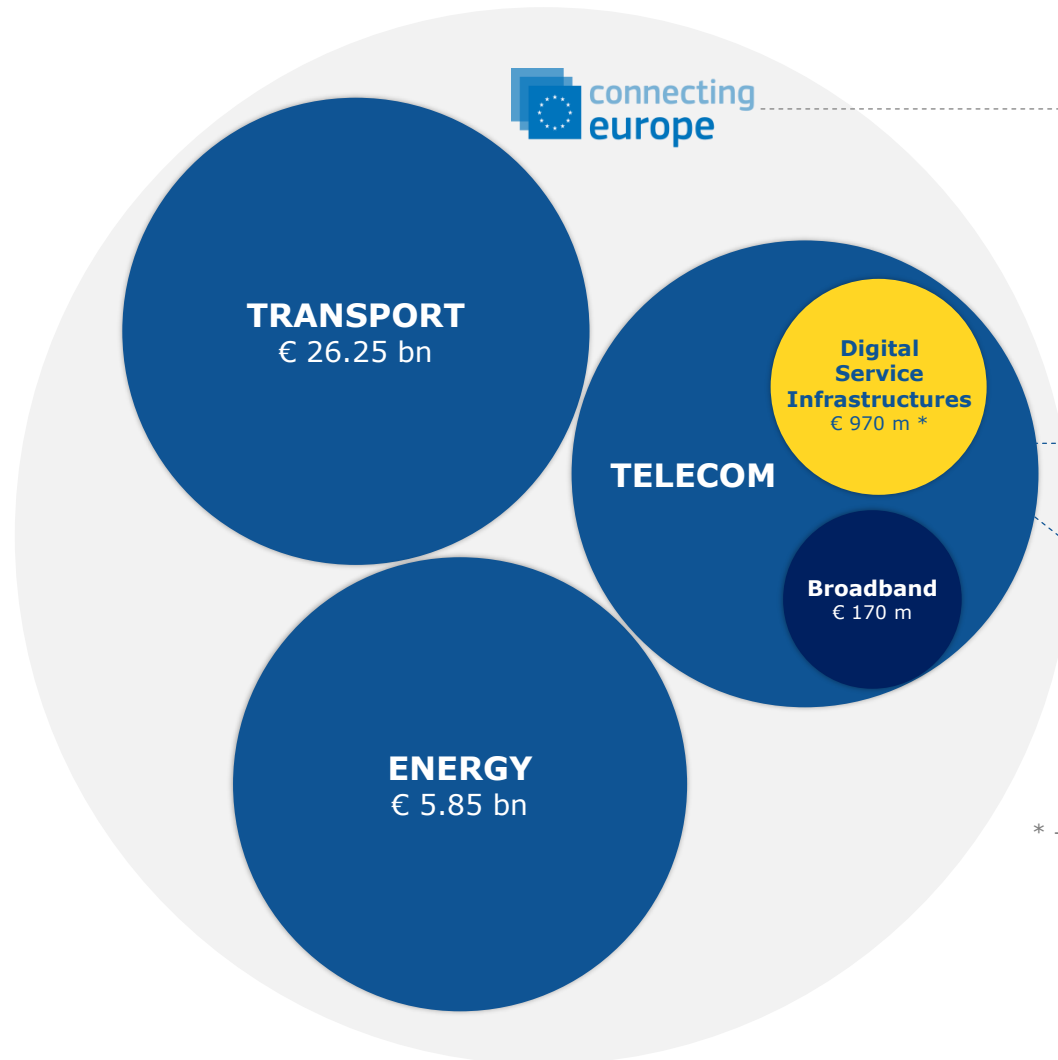
22nd – 24th October 2019

Warsaw, Poland

## Agenda:

- Cross-border service infrastructure for eHealth
  - Connecting Europe Facility - CEF
  - eHealth Digital Service Infrastructure – eHDSI
  - eHealth DSI Member States Expert Group - eHMSEG
- Using PS across borders
- Current developments and challenges

## What is CEF



## HOW IS IT REGULATED?

### CEF Regulation (REGULATION (EU) No 1316/2013)

The Connecting Europe Facility (CEF) is a regulation that defines how the Commission can finance support for the establishment of trans-European networks to reinforce an interconnected Europe.

### CEF Telecom Guidelines

The CEF Telecom guidelines cover the specific objectives and priorities as well as eligibility criteria for funding of broadband networks and Digital Service Infrastructures (DSIs).

### CEF Work Programme

Translates the CEF Telecom Guidelines in general objectives and actions planned on a yearly basis.

\* - 100 m Juncker Package

## CEF Telecom – what does it finance



# CEF eHealth DSI (eHDSI)

## What is the eHealth DSI?

- **Services** and **Infrastructure** using ICTs that enable cross border Healthcare services.
- Use Cases:
  - **Patient Summary**, provides access to health professional to verified key health data of a patient during an unplanned care encounter while abroad
  - **ePrescription**, enables patients to receive equivalent medication treatment while abroad to what they would receive in their home country

## eHealth DSI Deploying Countries

PS eP

Austria

Croatia

Cyprus

Czech Republic

Estonia

Finland

France

Germany

Greece

Hungary

Ireland

Italy

Luxembourg

Malta

Portugal

Sweden

Netherlands

Spain



FI



EE



CZ



HR



LU



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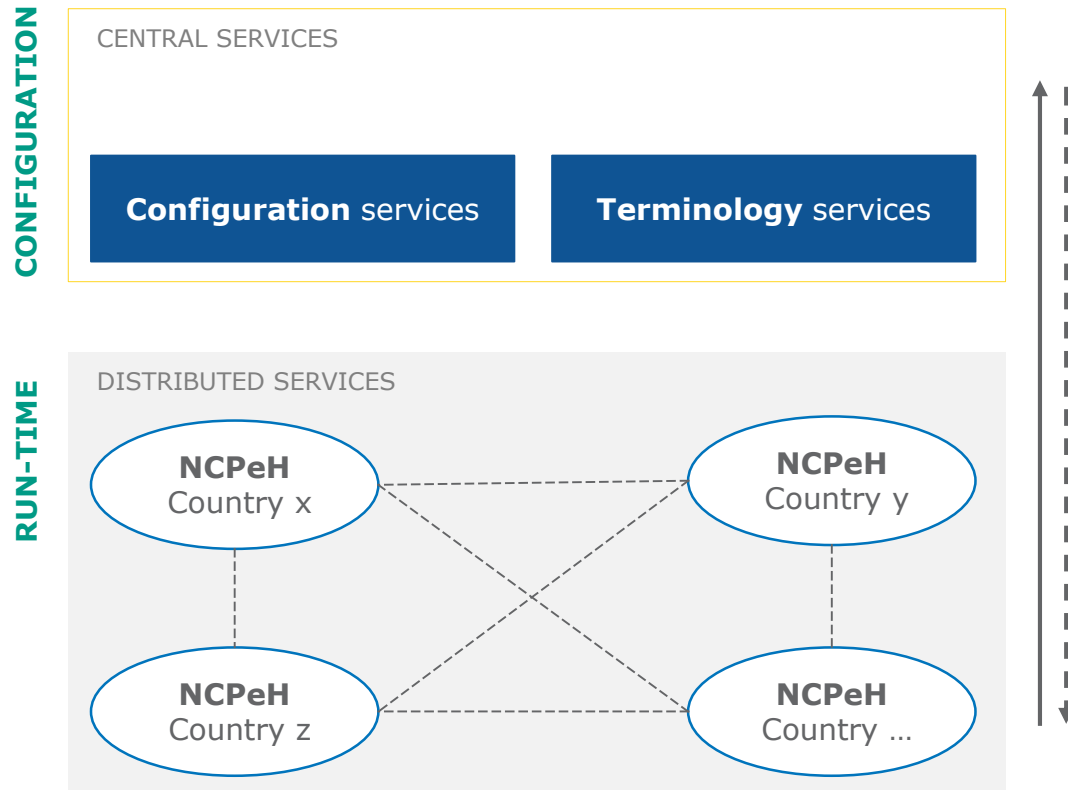


SI



NL

# eHDSI System Architecture



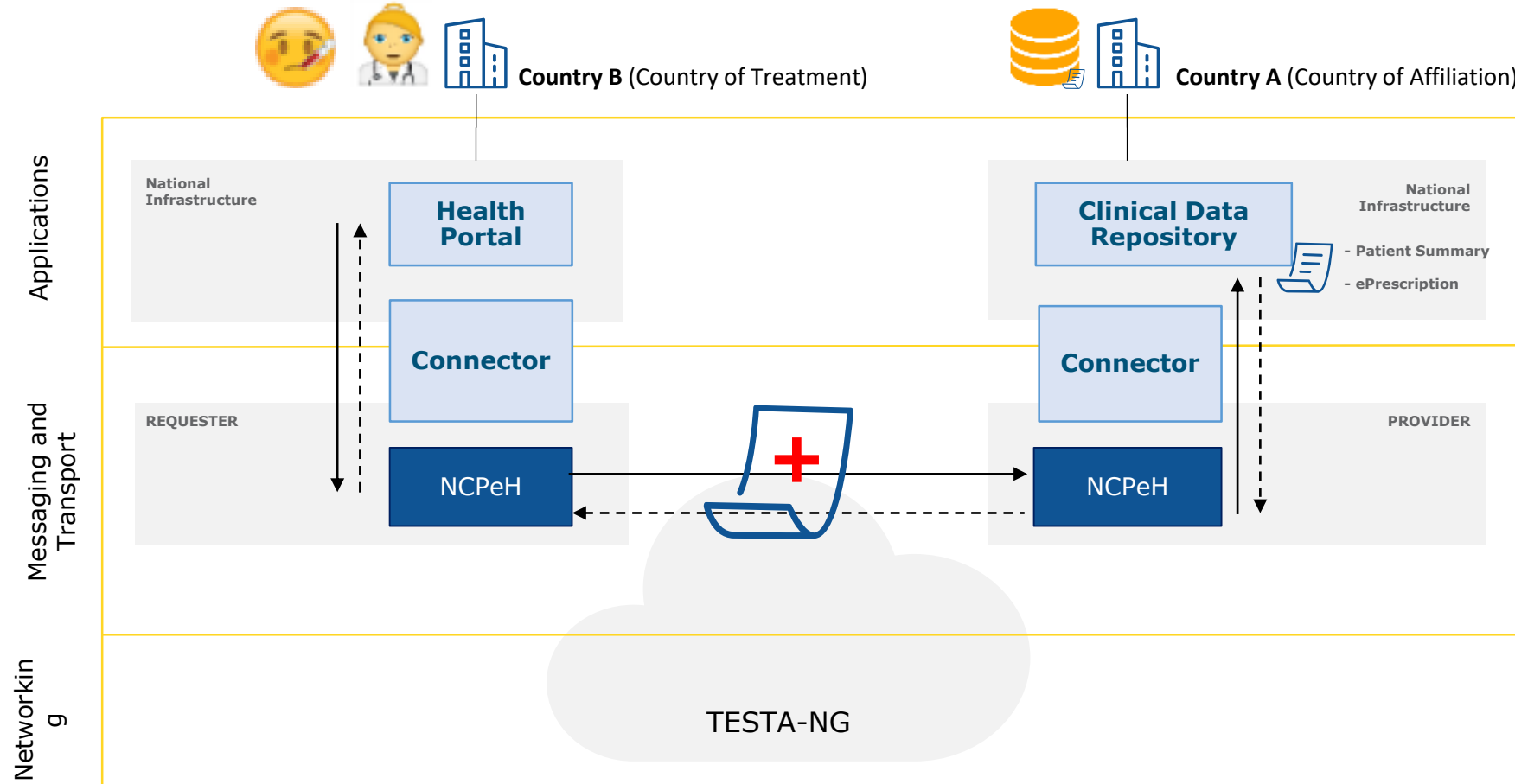
## Central Services

- 1 EU wide instance
- Configuration

## NCPeH – National contact Point for eHealth

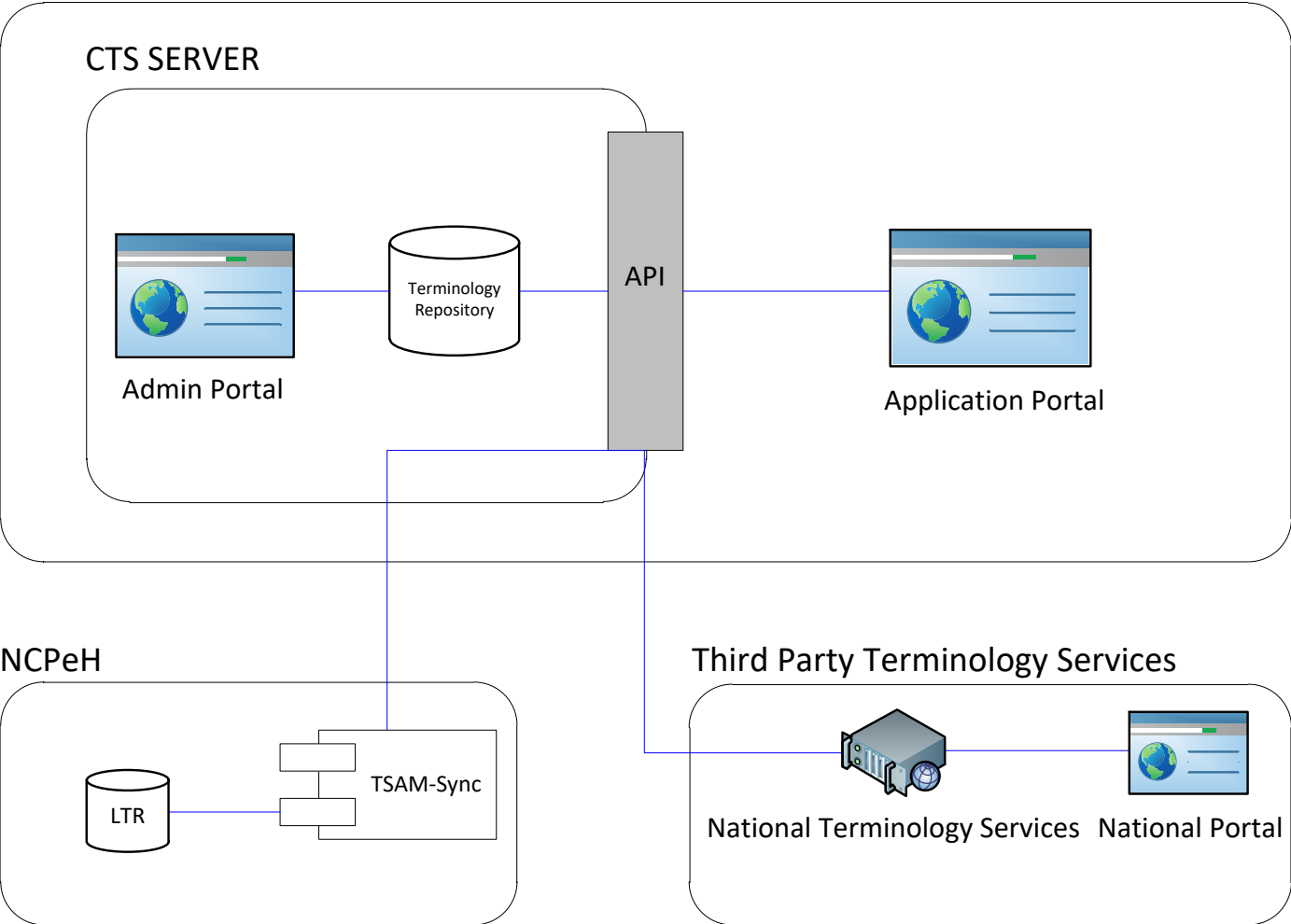
- 1 per Country
- Run-time

# The interoperability challenge



# CORE Services: **TERMINOLOGY services** (Architecture)

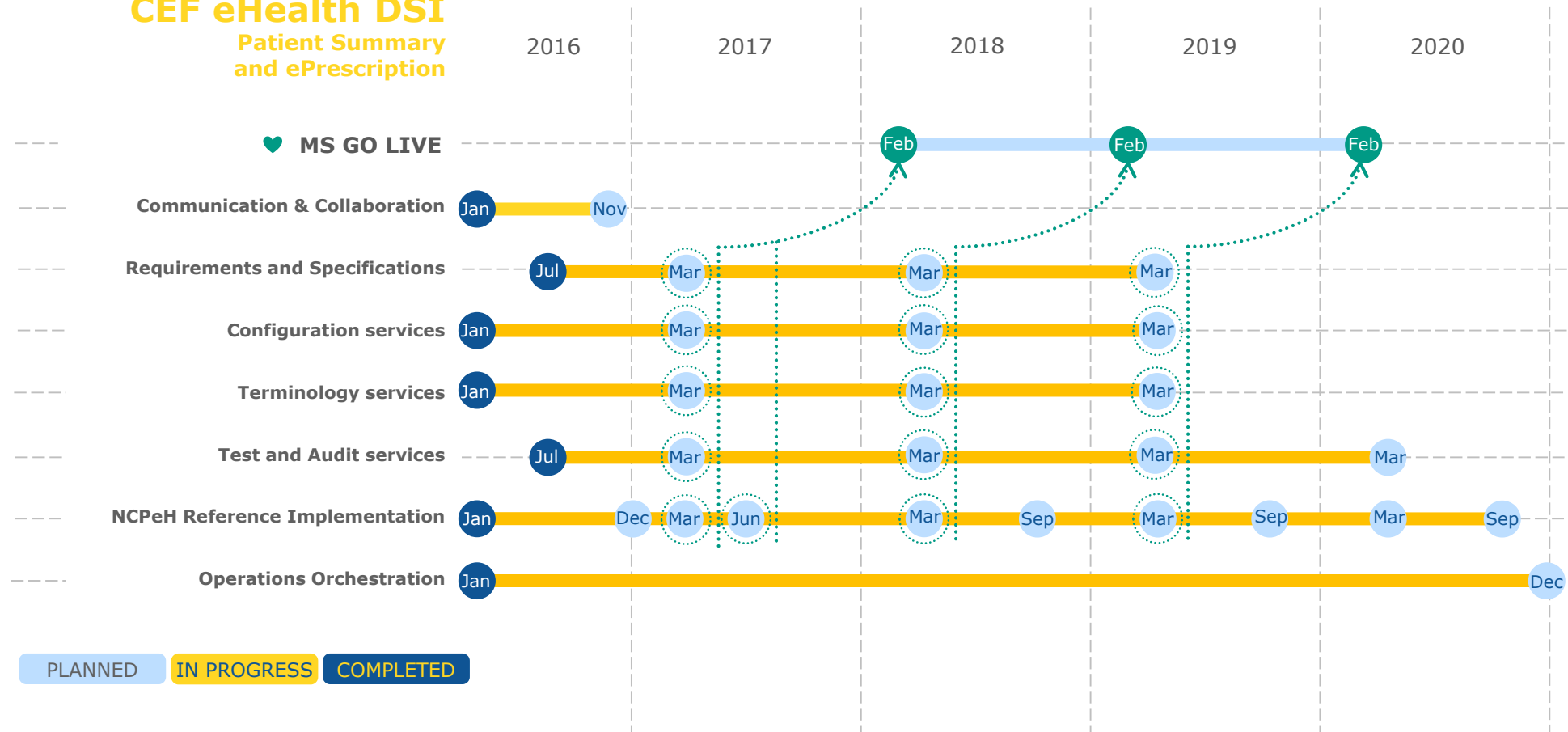
## Central Terminology Services





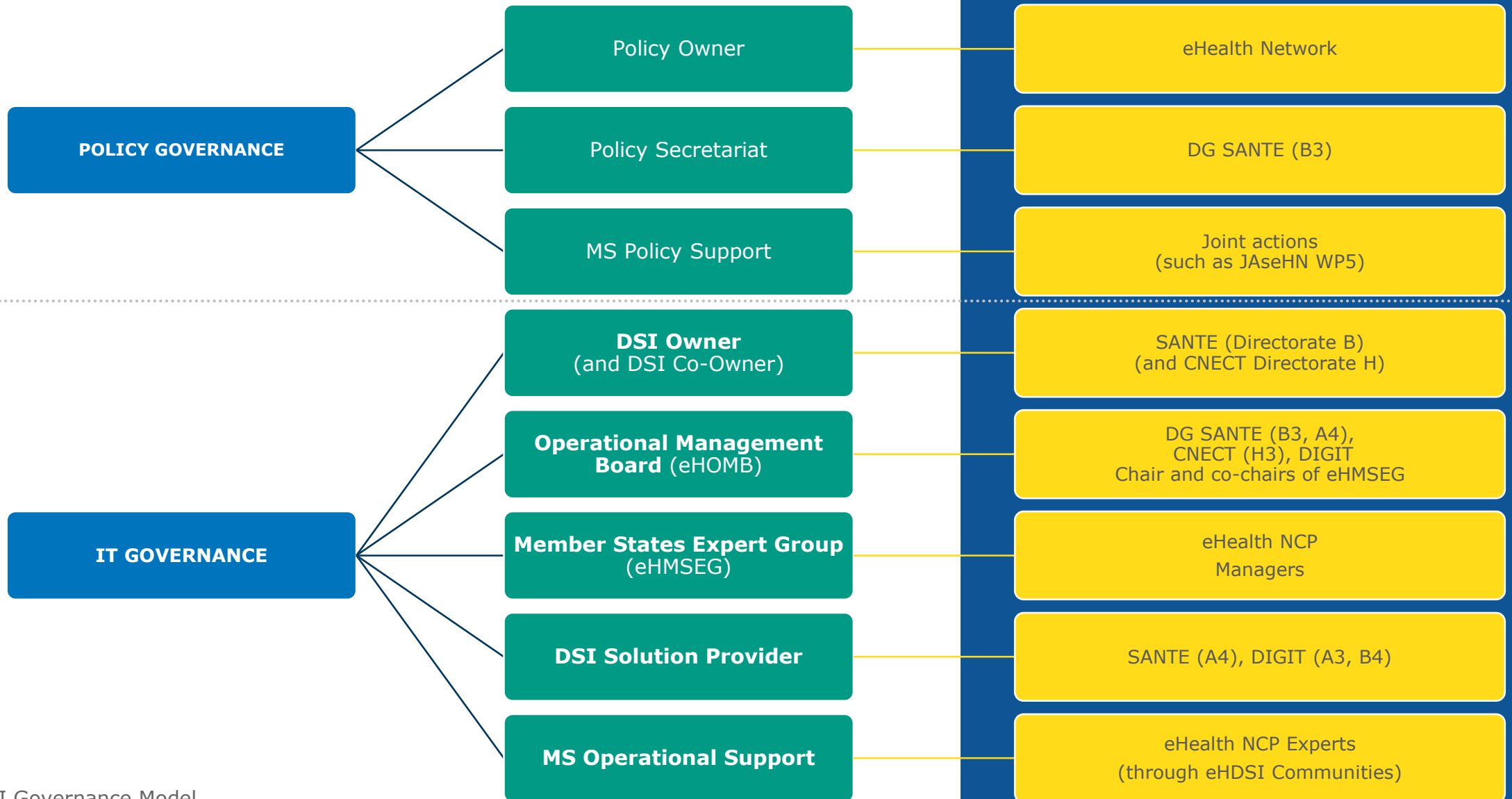
# eHDSI Timescales: Core Services

## CEF eHealth DSI Patient Summary and ePrescription

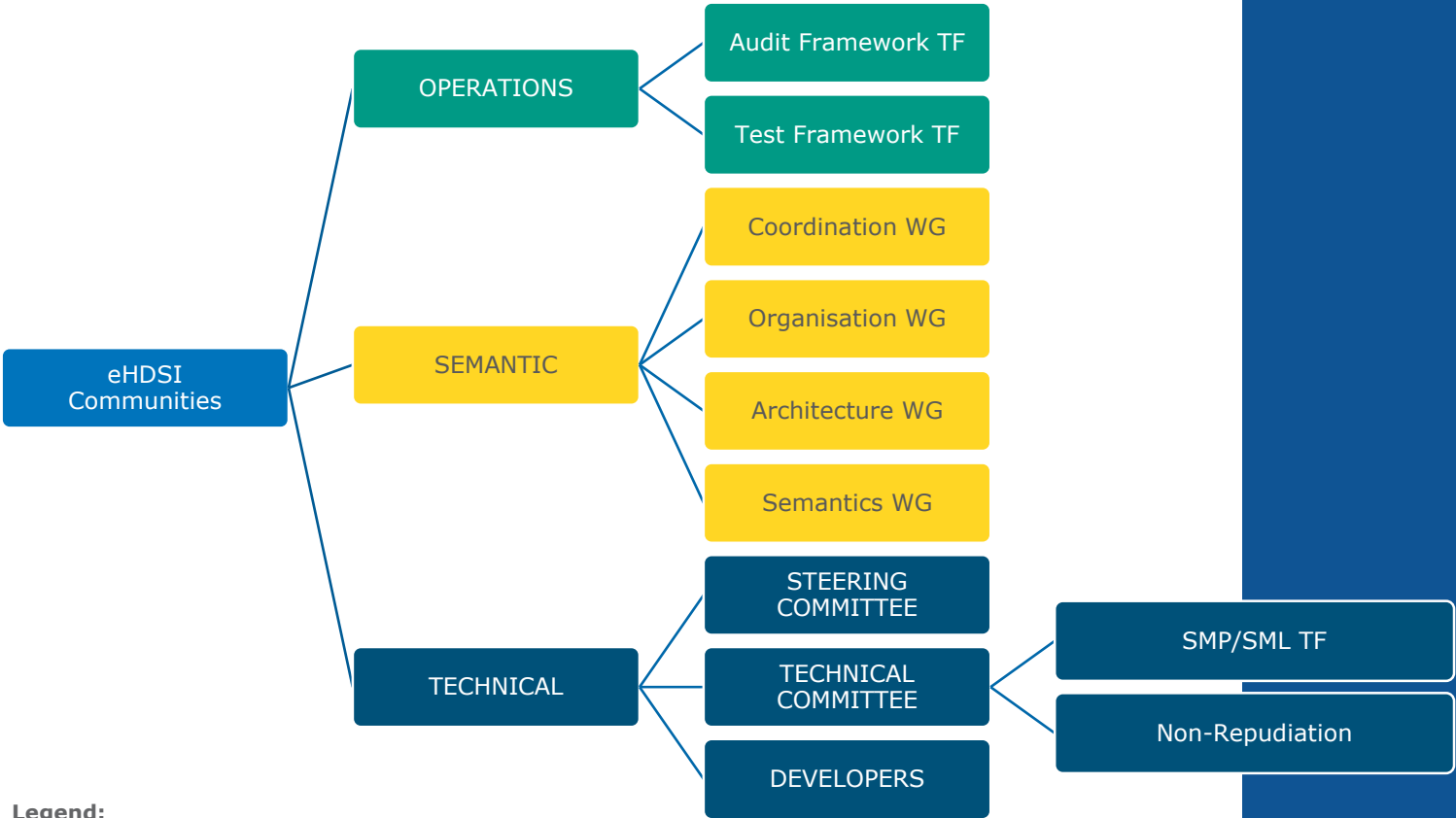


PLANNED
IN PROGRESS
COMPLETED

# eHDSI Governance organisation



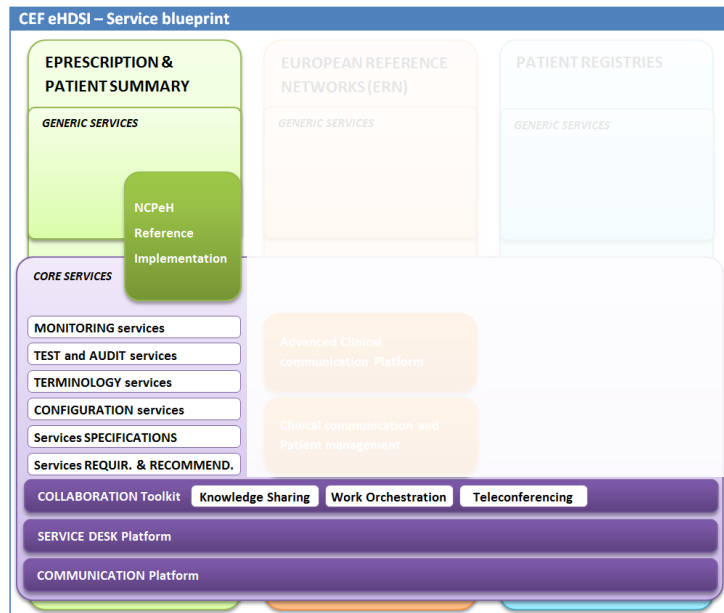
# eHDSI Communities



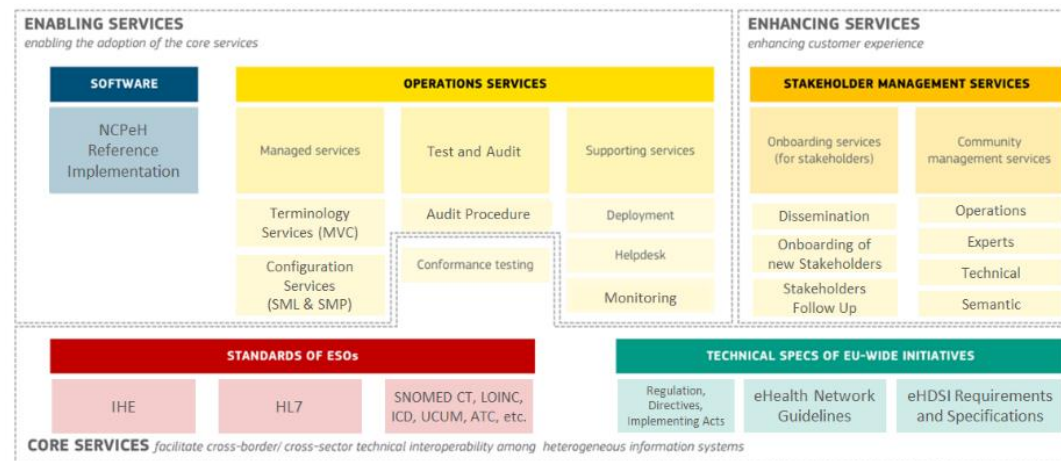
**Legend:**  
TF: Task Force  
WG: Work Group

# eHDSI Service Offering

## SOLUTION PROVIDER perspective

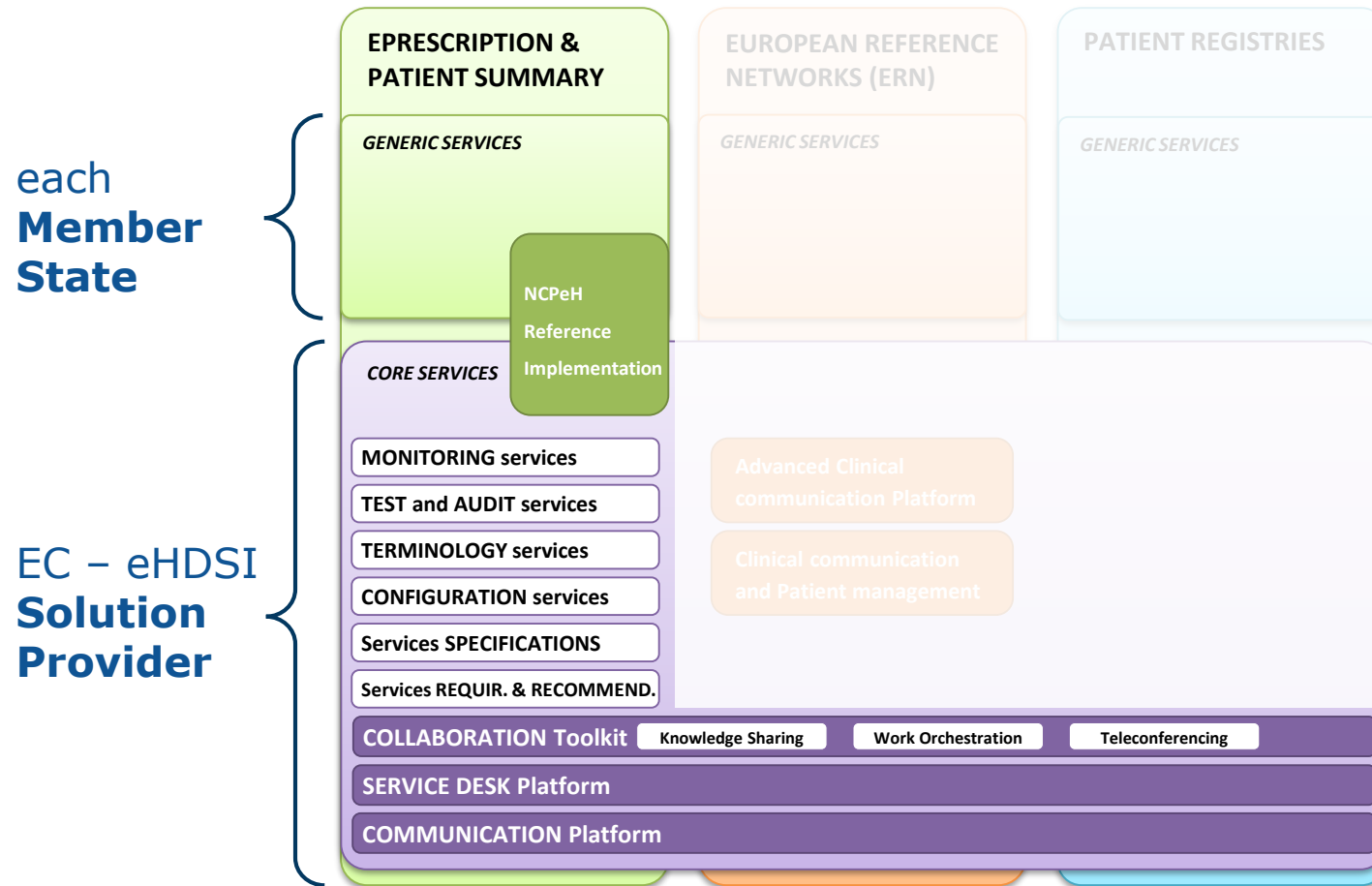


## USERS perspective



Online version: <https://ec.europa.eu/cefdigital/wiki/x/3EQZAg>

# eHDSI Service Offering - Solution Provider perspective



# Patient Summaries and the eHDSI

- How does it fit together?
  - eHDSI PS
    - CDA IG in ART-DECOR
    - Test framework, using IHE Gazelle
    - Annual release cycle
    - based on eHN guidelines (functional requirements)
  - CEN IPS project – funded by EU commission
  - HL7 IPS project – CDA IG, FHIR IG

# Main "semantic" challenges of PS in eHDSI

- Structured information can not be communicated
  - Allow multiple code systems
  - English translation may be sufficient
  - increase concept granularity
  - revise and update specific code systems (Allergies, Vaccines, Implants..)
  - allow some information as free text (posology)
- Structured and coded information is not available
  - member states must provide a roadmap for alignment
- Different processes to assemble PS
  - raise awareness, make process visible to participants

# Role of CEN/HL7 PS for eHDSI

- eHN decided to investigate options to move to IPS
  - use CEN IPS as functional base specification
    - gap analysis (in progress)
  - analyze possible future migration scenarios
    - iterative changes?
    - use HL7 CDA PS IG as alternative new specification?
    - use HL7 FHIR PS IG as alternative new specification?
- uptake of additional eHDSI use cases might add more options




# Thank you!

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Chairman HL7 Germany

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# Use Cases: Patient Summary and ePrescription



**GUIDELINE**  
on  
the electronic exchange of health data under  
Cross-Border Directive 2011/24/EU  
Release 2  
Patient Summary for unscheduled care

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Stakeholder Contributor(s):	CEN IPS, COCIR, DG SANTE, EMA, European Society of Cardiology (ESC), Eurosec, H17 Foundation, Pharmaceutical Group of the European Union (PGEU), Results4care



**GUIDELINE**  
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the electronic exchange of health data under Cross-Border Directive 2011/24/EU  
Release 2  
ePrescriptions and eDispensations

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**GUIDELINE**  
on  
the electronic exchange of health data under  
Cross-Border Directive 2011/24/EU  
Release 2  
General guidelines

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