



Quality Label and Certification Processes

Karima Bourquard
Director of Interoperability
IHE-Europe





MEDIQ

**NÁRODNÉ
CENTRUM
ZDRAVOTNICKÝCH
INFORMÁCIÍ**

IHE
UK
Integrating
the Healthcare
Enterprise

PROREC-BE

Interop Santé
four des systèmes d'information communica-

**FACHHOCHSCHULE
TECHNIKUM WIEN**

PROREC-SI

assinteritalia

TicSalut
Techniques, innovation et santé

HL
HELLAS

Denmark, Norway, Sweden Finland,
Iceland, Estonia, Lithuania, Latvia

Poland, Czech Republic, Slovakia,
Hungary

Ireland, United Kingdom

Belgium, The Netherlands, Luxemburg

France, Switzerland,

Germany, Austria

Slovenia, Croatia, Serbia, Bosnia, FYE
Macedonia, Montenegro

Italy, Malta

Portugal, Spain

Romania, Bulgaria, Greece, Cyprus,
Turkey



The challenge

eHealth Deployment in Europe



The environment

*Directive 2002/21/EC Common Framework on
communication networks*

Directive 2007/47/EC on medical devices

*Directive 2011/24/EU on Patients' rights in Cross Border
Healthcare*

MoU on eHealth between EC and US



Requirement

Consensus on a common Interoperability Framework
For an harmonized implementation across Europe



To design a European quality label or certification process that supports eHealth interoperability in Europe.

These processes shall operate in harmony with country specific quality label or certification processes

Main benefits:

For Healthcare providers

- A harmonized European market for the eHealth solutions
- Better integration between solutions
- Ability to exchange electronically medical data between Regions and Nations

For Industry

- One recognized quality label or certification process in Europe
- Avoid duplication between the national and regional testing processes
- Factor and mutualize specifications elements and corresponding testing tools



Get ready 2012-2013

Operationalize 2013-2014

Deploy 2015-20XX

European Strategic Milestones

Ehealth Interoperability Framework

eEIF

Evaluation of Testing & LabelCert.

Pilot Testing & LabelCert.

European Testing & LabelCert. Operational

Testing & Certification Processes

European-Level QMS V1.0

Proposed European-Level Testing Process

Proposed European-Level LabelCert. Process

European-Level QMS V2.0

European-Level Testing Process

European-Level LabelCert Process

Support of Project-Level Testing & LabelCert Process



Testing Tools

Testing Management Platform V1.0

Test Methodology

Interop/functional Linkage

Test Management Platform V2.0

Test Cases V1.0

Test Tools V1.0

Test Cases V2.0

Test Tools V2.0

Support of Project-Level Testing Tools



Antilope

Slide 6

ChP1

Milan had many comments on the english for the slide notes. I applied those and polished the text.

Parisot, Charles (GE Healthcare), 06/11/2013



Stimulate the creation of European market based on the evolving European eHealth Interoperability Framework associated with a modular European Conformance Assessment Program

Harmonize the quality label and certification processes in Europe and among countries and regions

Propose a European interoperability quality label and certification process that allows for flexible national or regional approaches



Recommendations from previous projects

HITCH

*(Healthcare Interoperability Testing and Conformance
Harmonisation)*

EHR-Q^{TN}

(EHR Quality Labelling)



1

Develop an European ecosystem by promoting recognized profiles, test plans and test tools

2

Define flexible testing processes

3

Provide a European Interoperability Assessment Scheme



1

Apply generic criteria of quality to the initiatives

(independence, openness, impartiality, transparency and confidentiality)

2

Involve stakeholders to the definition of the priorities in
defining feasible goals

3

Structure the Quality label and Certification processes in line
with ISO standards



ANTILOPE Methodology



INPUTS from



Experts



Standards and SDOs
Project
Questionnaires

....



RECOMMENDATIONS

- Definition of an Interoperability testing strategy in Europe
- Key points to be taken into account:
 - Comprehensive test plan, test cases, tools and test data
 - Definition of exhaustive/mandatory/realistic Use cases/ test cases
 - Risk assessments
 - End-users actively involved



Testing, Quality labelling and certification processes

Functional Model



QL & C processes

- Requirements, activities and tasks to support an entity in organizing high quality interoperability assurance or certification

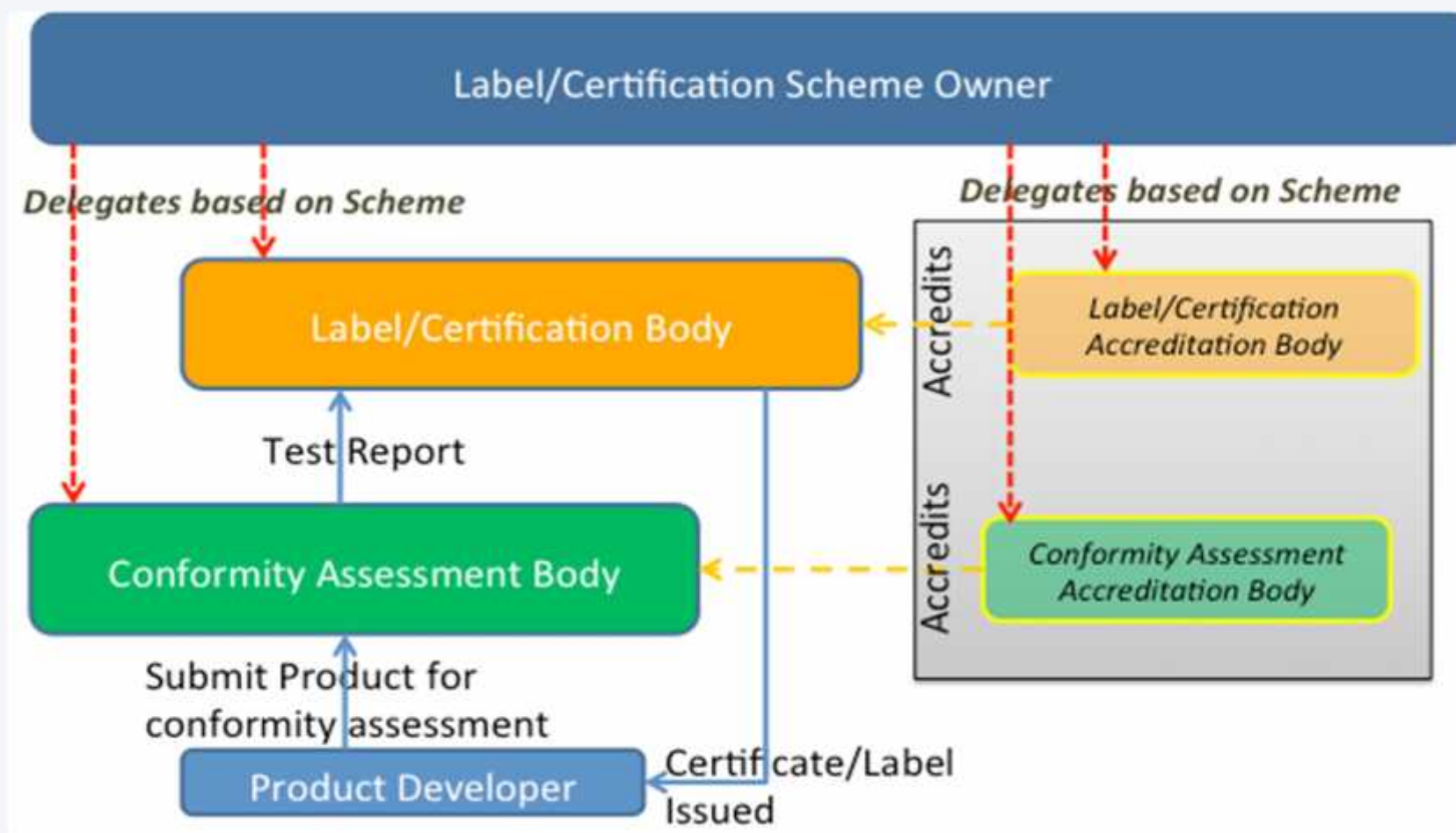
Conformity assessment

- demonstration that specified requirements relating to a product, process, system, person or body are fulfilled (ISO/IEC 17000)



A certification or quality label process requires:

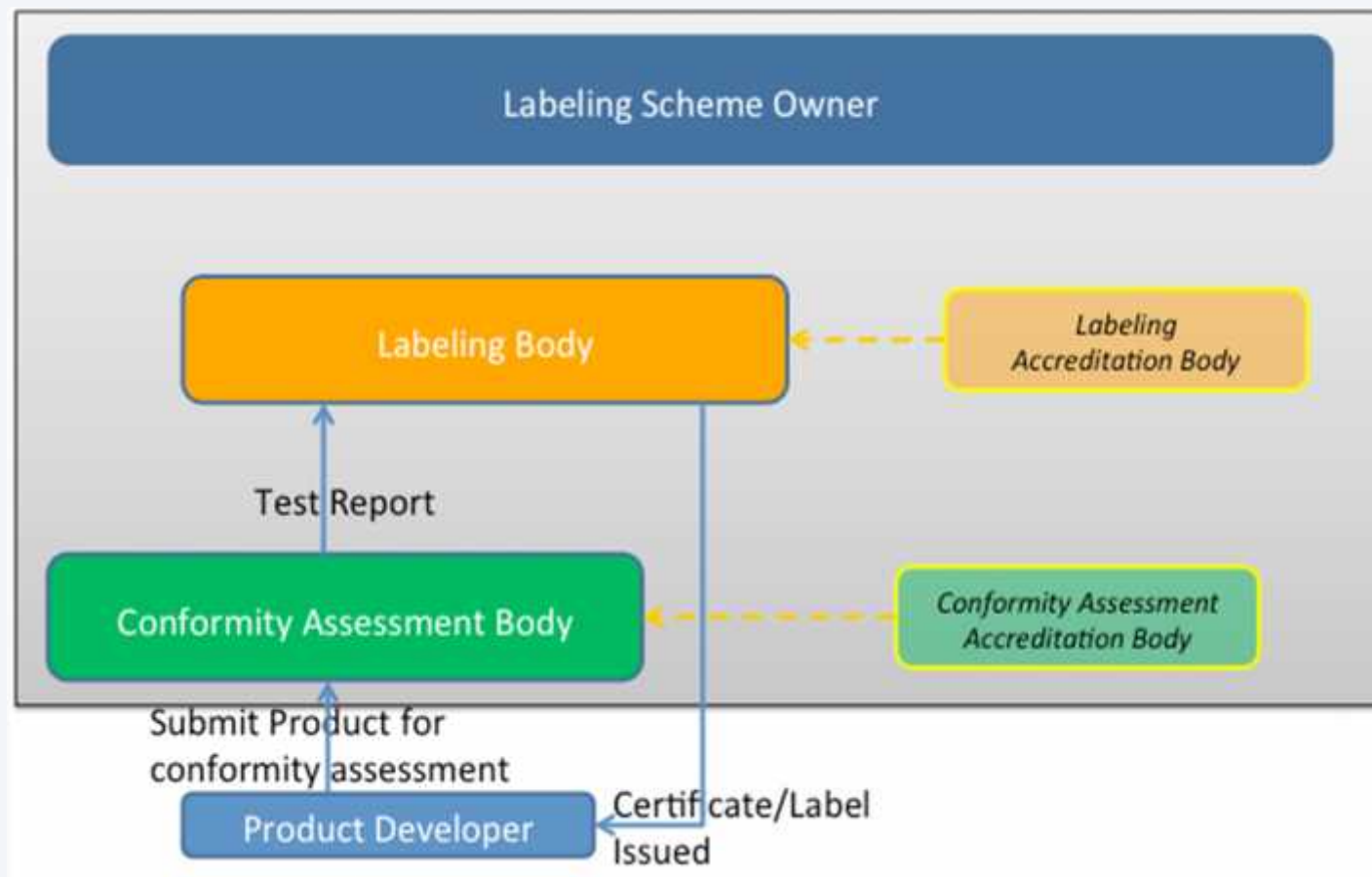
- A Certification/Label Scheme Owner: a party that sets the Certification or a quality label program or system;
- A label/Certification Body: a party that issues the quality label or certificate on the basis of the conformity assessment performed by a conformity assessment body;
- A Conformity Assessment Body: a party that assesses the conformity of products, services and/or suppliers (often called a testing laboratory)





Implementation: Model 2

Labeling & testing by eHealth project (no third party accreditation)



Case Studies



- Objective :
 - DMP is the national PHR/EHR in France
 - The process called “homologation” is described in detail in the annex II. The goal of the « homologation » is to validate that the healthcare software connected to the DMP (French National PHR) are conform with the DMP specifications.
- Specifications defined by ASIP Santé (national agency) based on IHE profiles, HL7 and DICOM
 - Access to the DMP
 - INS (National Identification of the Patient)
 - Creation and management of the DMP
 - Registration of medical documents in the DMP
 - Consultation of the DMP
 - Other services
- Label/Certification scheme defined by ASIP Santé



Registration of the Vendor to the process (ASIP Santé)
Registration and published candidates for DMP compatibility

Step 2

Step 3

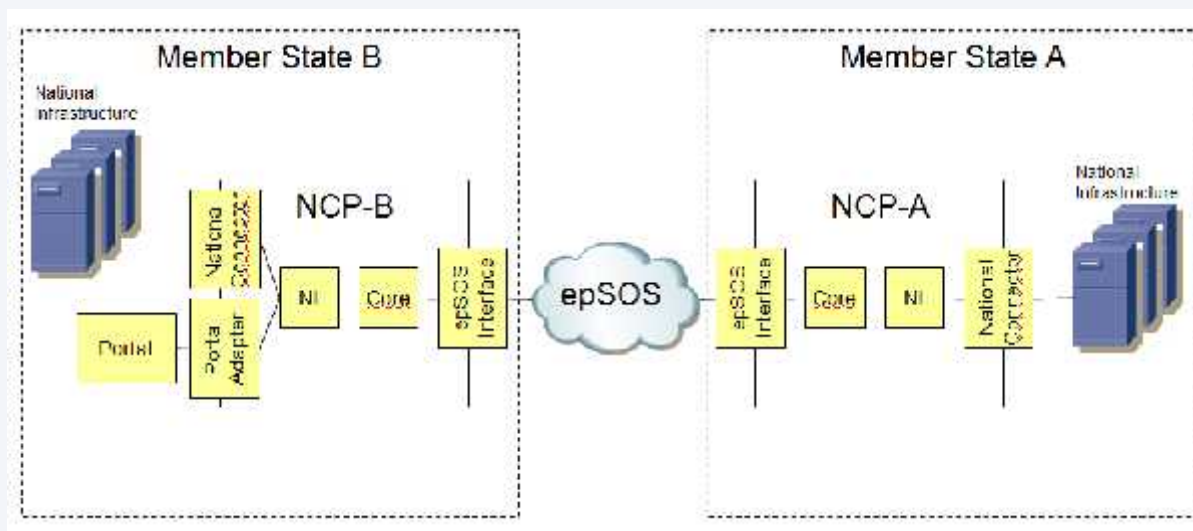
Label (Homologation) Process

Mapping Services/Standards and Profiles

Transactions DMP pour LPS		Technique
		Standards ou protocole utilisés
TD0.1	Authentification sur le DMP	SAML / TLS
	Connexion DMP et vérification de l'autorisation	HL7-V3
	Authentification	(ws)
	Connexions autorisées	(ws)
	Connexion actuelle	...
Gestion administrative du dossier d'un patient		
TD1.1	Création d'un DMP	
	Mise à jour d'un DMP	
	Suppression d'un DMP	
	Suppression d'un patient	(ws)
	Suppression/bloqués sur un DMP	(ws)
TD2.1	Alimentation en documents d'un DMP	
CONSULTATION		
TD3.1	Recherche de documents sur un DMP	
TD3.2	Consultation d'un document sur un DMP	
TD3.3	Gestion des attributs d'un document	
AUTRES SERVICES DU DMP		
TD4.1	Notifications	(ws)
TD4.2	Correspondance entre PS et Patient	(ws)
TD4.3	Traces d'un DMP	(ws)
TD4.4	Traces d'un PS sur le DMP	(ws)
TD4.5	Recherche de patient sur le DMP sans INS	IHE-PDQ
TD4.9	Paramètres fonctionnels du SI-DMP	(ws)



- Objective: epSOS is an European Project that the goal is to demonstrate cross-border interoperability between eHealth record systems in Europe by exchanging Patient Summary and ePrescription documents for a patient travelling in Europe.





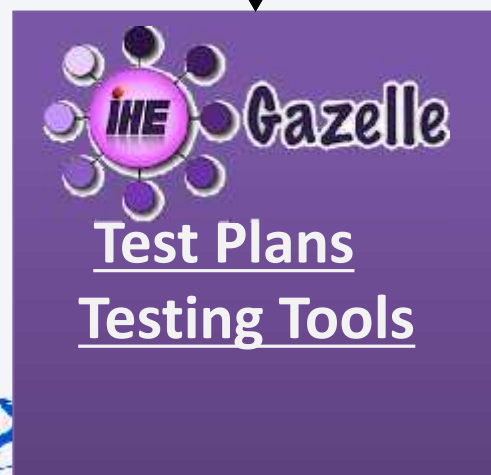
eEIF

UC1 , UC2a UC2b

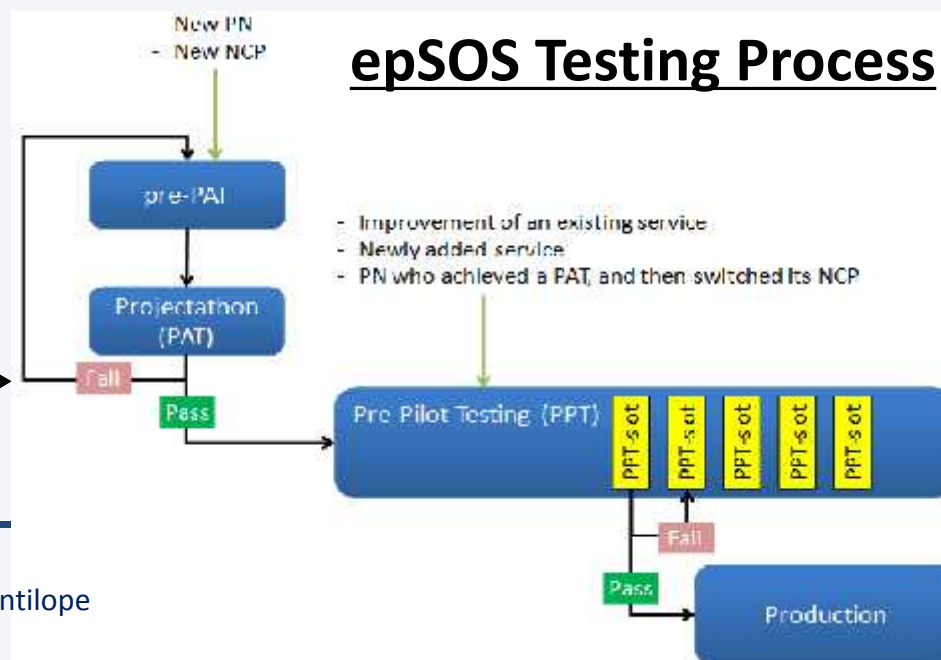
Nr	Level	Use case	Profiles
1	Cross-border	epSOS project - e-Prescription and e-Dispensation for cross-border information sharing for citizens travelling in Europe	<ul style="list-style-type: none"> IT Infrastructure: XCPD*, XCA*, CT*, ATNA*, EPPC*, XUA* Pharmacy: PRE*, DIS*
2a	Cross-border	epSOS project - patient summaries for cross-border information sharing for citizens travelling in Europe	<ul style="list-style-type: none"> IT Infrastructure: XCPD*, XCA*, CT*, ATNA*, EPPC*, XUA* Patient Care Coordination: XPHR*
2b	Cross-border	epSOS project - patient having access to his or her patient summary.	<ul style="list-style-type: none"> IT Infrastructure: XCPD*, XCA*, CT*, ATNA*, EPPC*, XUA* Patient Care Coordination: XPHR*

epSOS Specifications

IHE Profiles



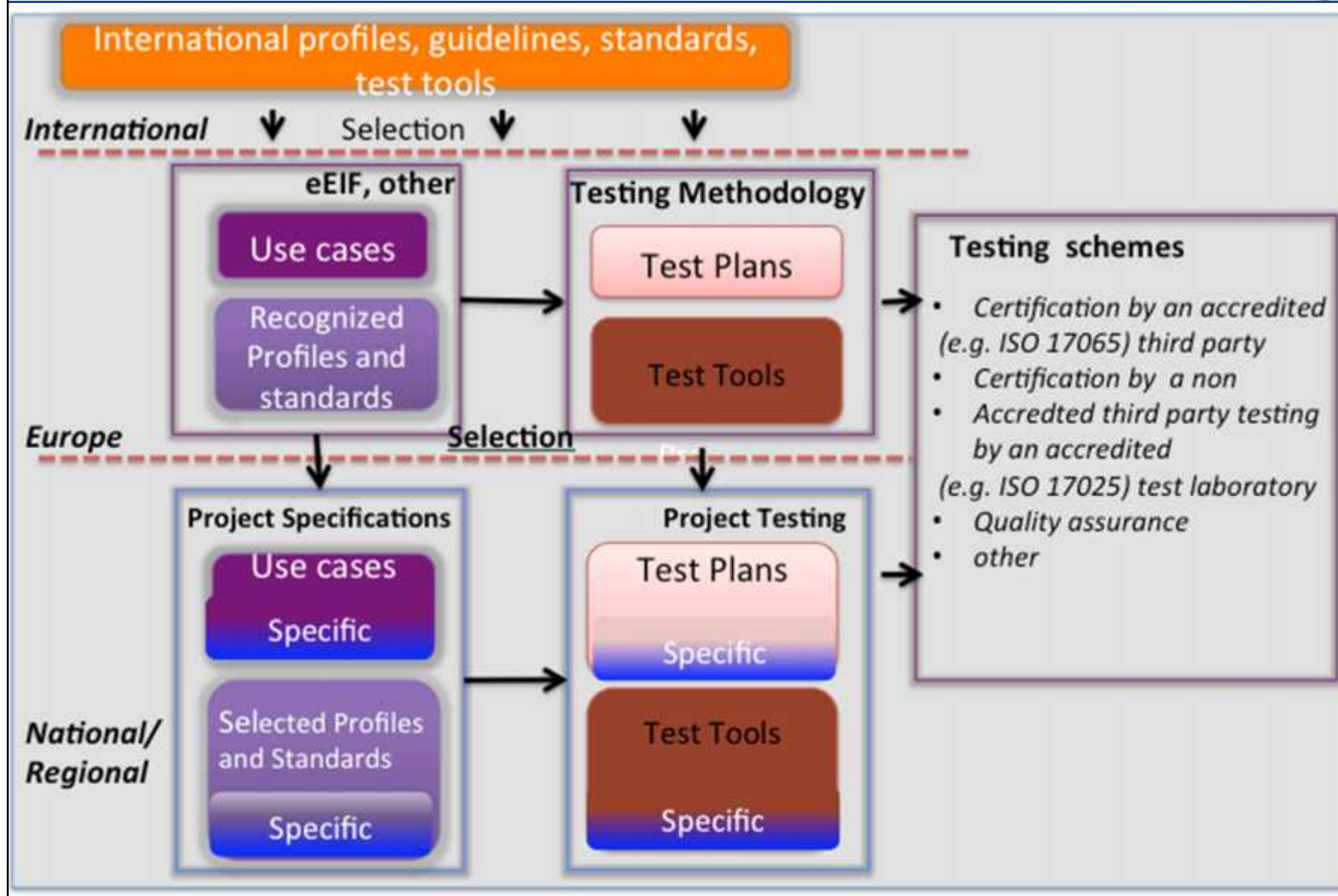
epSOS Testing Process



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Harmonisation of the quality label or certification processes in Europe





1

Define the Interoperability Conformance Assessment Scheme closely related with the eEIF

2

Promote creation of accredited Conformance Assessment Bodies in Europe

3

Develop Suitable Organisation for the QL&C process



1

National and Regional Project leverage profiles recognized by eEIF and use flexibility with needed national extensions

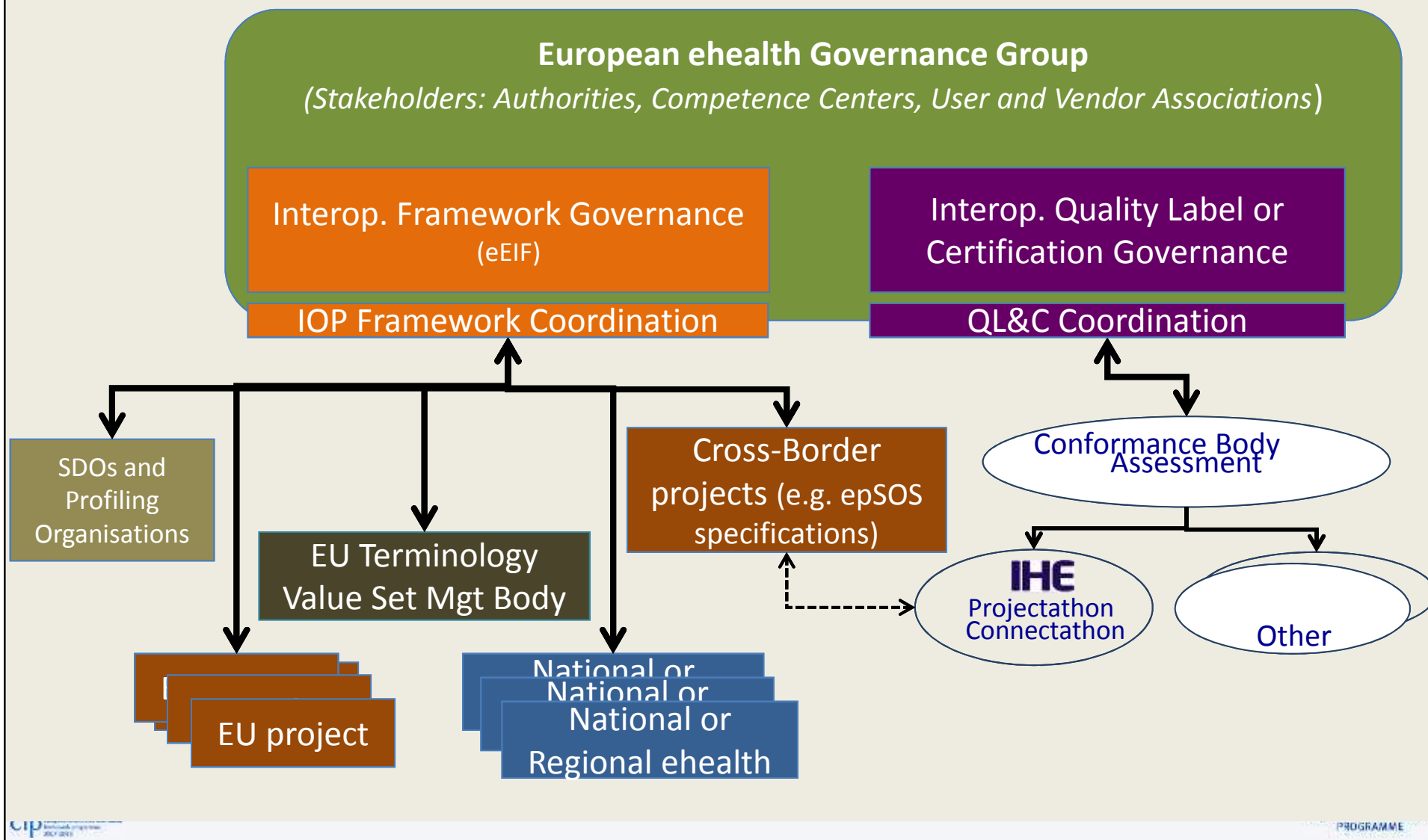
2

Ensure that the European level certification may be used as an entry criteria at the national level

3

Organise acceptance and the recognition of profiles candidates in the eEIF based on local use cases

Governance

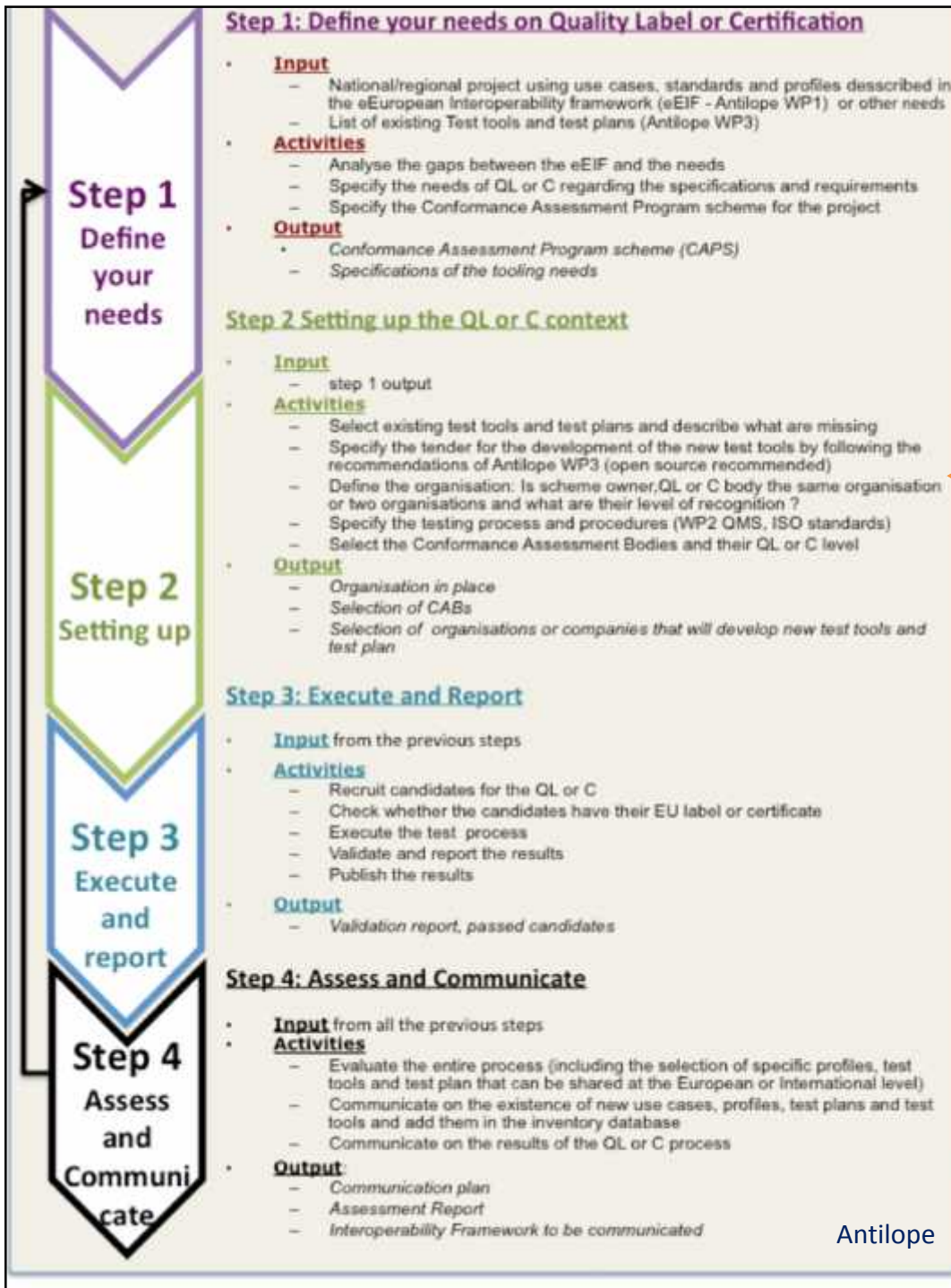




- European eHealth Governance group
 - All categories of stakeholders
 - Take decision and validates Interoperability framework and Conformance Assessment Program Scheme
- Interoperability Framework coordination
 - Refines, selects Use cases and profiles and maintains the eEIF
 - Analyses and prepares all the items in order to reach the consensus before validation by the eHealth Governance Group
- Conformance Assessment Scheme coordination
 - Specifies the Conformance Assessment Program scheme
 - Delegates the testing validation to the CABs



Guidelines and recommendations



How to deploy QL & C processes
In your organisation, region, or
Nation ?

4 STEPS

Roadmap

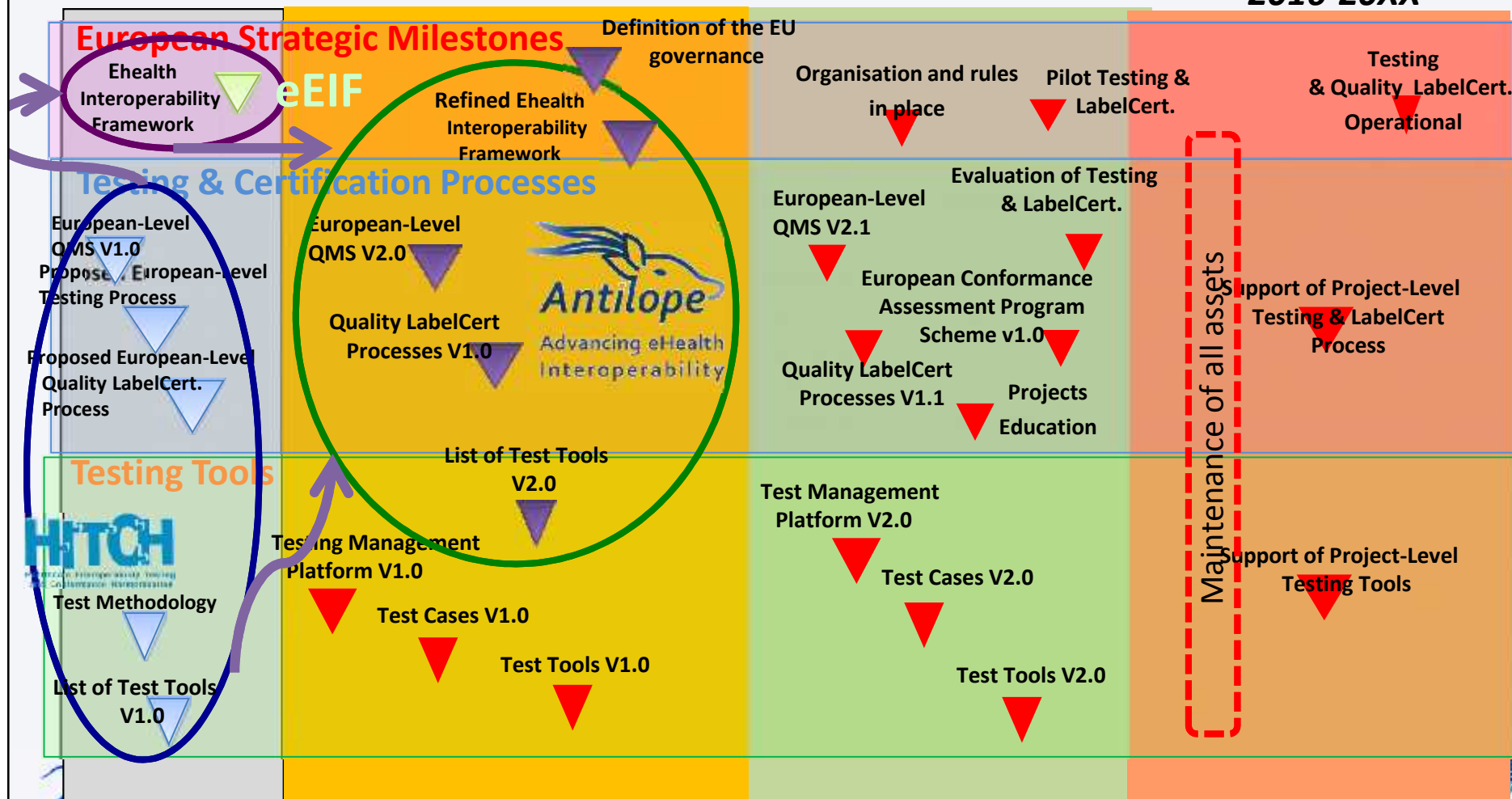
Key messages



Antilope roadmap



Get ready 2012-2013 Build 2013-2014 Operationalize 2014-2015 Deploy and Maintain 2016-20XX





Stimulate the creation of European market based on the evolving European eHealth Interoperability Framework associated with a modular European Conformance Assessment Program

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For more information,
please refer to document D4.1.
available on the Antilope website
<http://www.antilope-project.eu/>



Any questions?