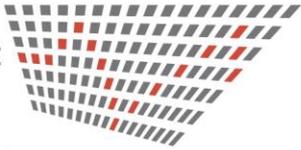


ehealth
summit
austria



HIMSS Europe

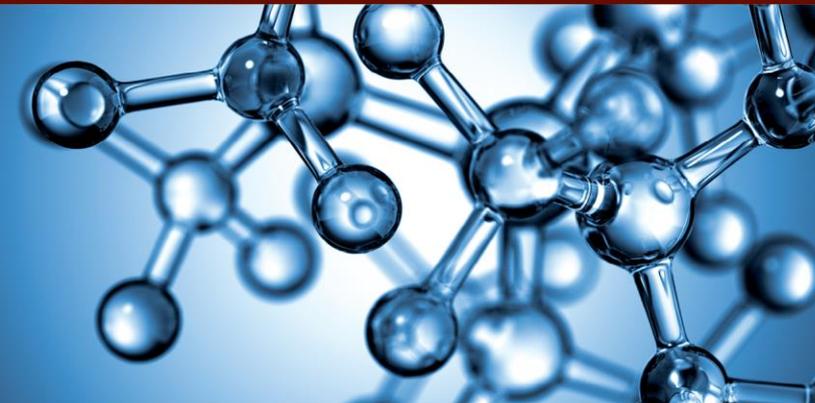
In Kooperation mit



eHEALTH
2015
www.eHealth2015.at

WILLKOMMEN | 18.-19. Juni 2015 | Schloß Schönbrunn Wien eHealth Summit Austria

Österreichs eHealth Event



Gesundheit neu denken: Personalized Health

Präsentiert von

HIMSS Europe

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY
TOMORROW TODAY

 Österreichische Gesellschaft
für Biomedizinische Technik
Austrian Society for
Biomedical Engineering

 OESTERREICHISCHE
COMPUTER GESELLSCHAFT
AUSTRIAN
COMPUTER SOCIETY

UMIT

Anforderungen und Lösungsansätze für eine zweifelsfreie elektronische Identifikation beim grenzüberschreitenden Gesundheitsdatenaustausch in Europa

Robert SCHARINGER

Bundesministerium für Gesundheit, Wien

Trends:

- **Personalised Health von zunehmender Bedeutung**
- **Gesundheitsdaten elektronisch**
- **Datenaustausch organisationsübergreifend**

Resultierende Anforderungen:

- **Datenschutz, Cybersecurity**
- **Semantik**
- **...**

**Zweifelsfreie (elektronische) Personensidentifikation
für Personalised Health unabdingbar!**

Rechtliche Basis

Österreich (<http://www.ris.bka.gv.at/>)

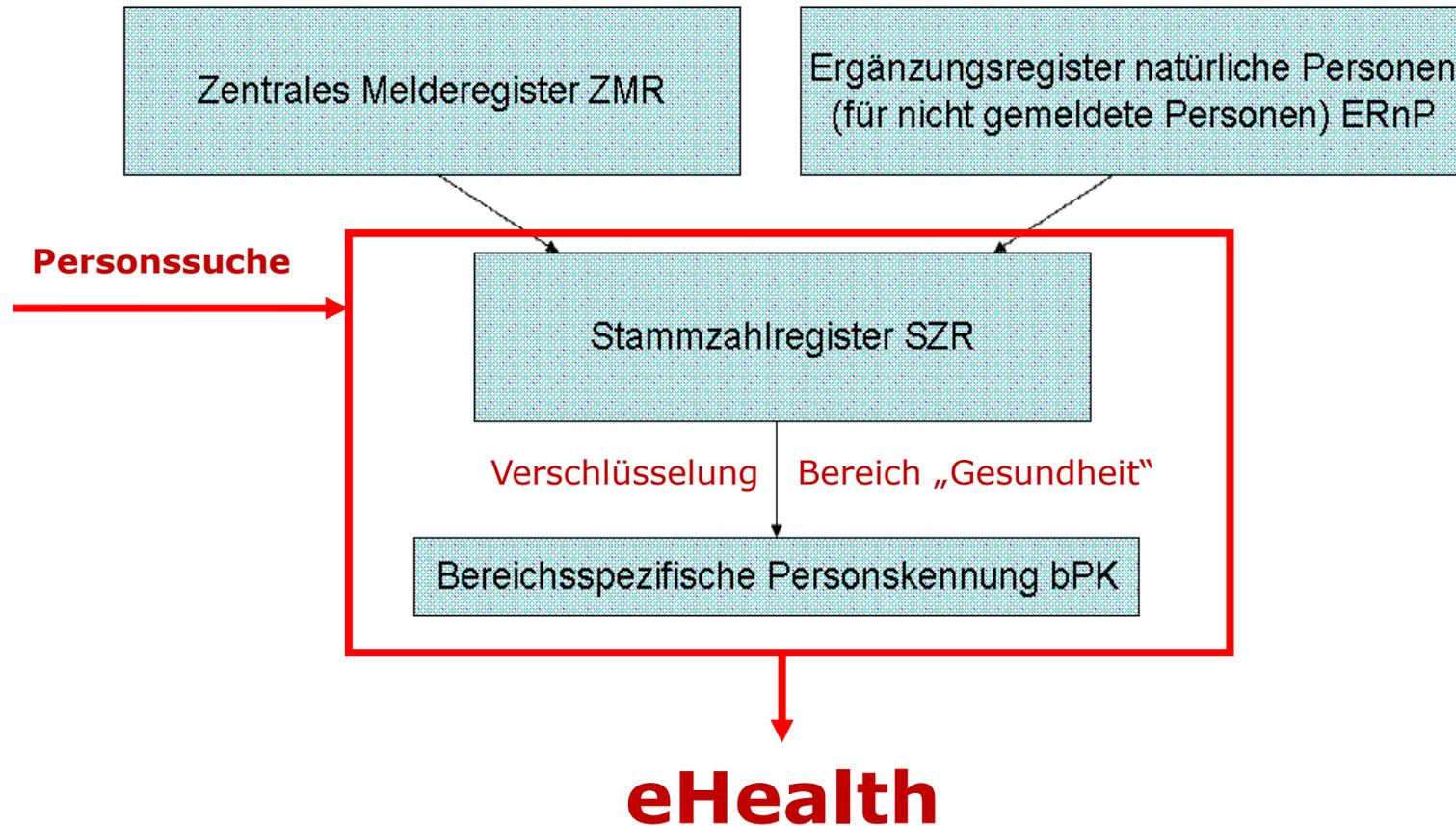
- **Gesundheitstelematikgesetz (GTeIG 2012)**
- **Datenschutzgesetz (DSG 2000)**
- **e-Government-Gesetz (E-GovG 2004) samt e-Gov-BerAbgrV und GleichwertigkeitsVO**

Europäische Union (<http://eur-lex.europa.eu>)

- **Patients' rights Directive (2011/24/EU)**
- **eIDAS-Regulation (910/2014 - electronic identification and trust services for electronic transactions in the internal market)**
- **Data Protection Regulation – in Arbeit, Ratsbeschluss liegt vor**
- **Praxiserprobung: die EU Large Scale Pilots epSOS und STORK und verwandte Aktivitäten** (<https://ec.europa.eu/digital-agenda/en/large-scale-pilot-projects>)

Staat	Eindeutiger Identifikator des Herkunftsstaates im Nachweis	Bezeichnung des Mediums für die Erbringung des Nachweises
Belgien	RRN-Nummer	Belgian Personal Identity Card (Elektronische identiteitskaart BELPIC)
Estland	PIC-Nummer	Estonian ID Card (Isikutunnistus ID-kaart ESTEID)
Finnland	FINUID-Nummer	Estonian mobile eID (Mobil-ID) (FINEID)
Island	SSN-Nummer	Isländische Bankkarte
Italien	Steuernummer	Electronic Identity Card (Carta d'identità elettronica)
Liechtenstein	Seriennummer des Zertifikats in Verbindung mit PEID-Nummer	National Service Card (Carta nazionale dei servizi)
Litauen	Persönlicher ID-Code	lisign
Portugal	Persönliche Identifikationsnummer Sozialversicherungsnummer Steuernummer Gesundheits-Benutzernummer	Lithuanian Personal Identity Card (Asmens Tapatybės Kortelė)
Schweden	Persönliche ID-Nummer	Personal Identity Card (Cartão do Cidadão)
Slowenien	Seriennummer des Zertifikats in Verbindung mit PRN-Nummer oder Steuernummer	Nationellt id-kort SIGOV Card
Spanien	Steuernummer	Halcom ONE FOR ALL!
	Persönliche ID-Nummer	Postarca smart card
		DNI electronic (DNI electrónico)

Persons-/Patienten-Identifizier: eID in eGovernment und eHealth



Stammzahlregisterbehörde
als Identity Provider für eGovernment und auch für eHealth




epsos

EUROPEAN PATIENTS
SMART OPEN SERVICES

*making
healthcare
better.eu*



epSOS Services

Patients have the opportunity to use cross-border eHealth Services, which will be tested in the following areas:

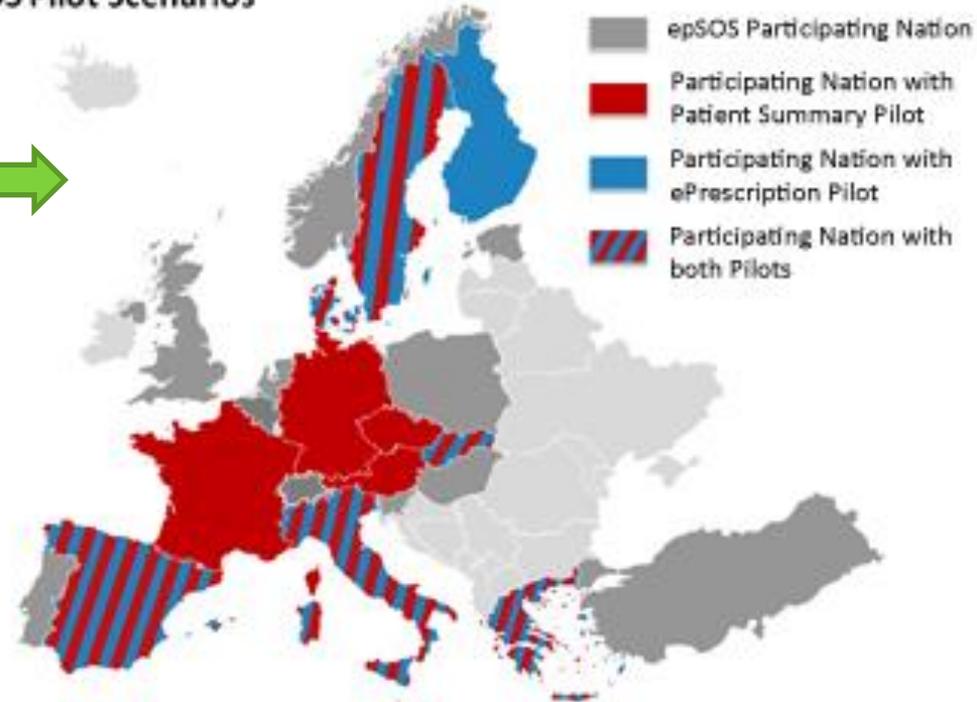
In a first phase:

- Patient Summary
- electronic Prescriptions (ePrescription / eMedication systems)

In a second phase:

- Integration of 112 emergency services
- Integration of the European Health Insurance Card (EHIC)
- Patient access to data

epSOS Pilot Scenarios



The epSOS Patient Summary

...is a standardized set of basic patient data, which includes the most important clinical facts needed to ensure safe and secure healthcare.

The epSOS Patient Summary consists of the following data sets:

- General information about the patient
- A Medical Summary
- A list of the current medication
- Information about the Patient Summary itself

epSOS Patient Summary



The epSOS ePrescription

...is in general a service that is made up of electronic prescribing and electronic dispensing.

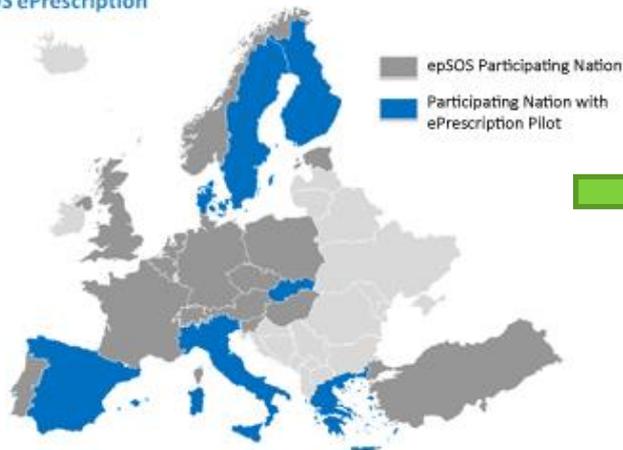
epSOS eDispensation



eDispensing:

meaning the electronic retrieving of an ePrescription, dispensing the medicine to the patient as indicated and electronically reporting about the medicine dispensed.

epSOS ePrescription



ePrescribing:

meaning electronic prescribing of medicine using software and transmitting it to the pharmacy where it is being retrieved.

EU LSP STORK

Large Scale Pilot
„Secure Transactions across borders linked“

Quality of Authentication Assurance (QAA) and eID

Government eID projects ...

- Early birds started late 1990's early 2000



– Finnish eID card: December 1999



– Estonian eID card: from January 2000



– Austrian citizen card: from 2003, mass rollout 2005

– Italian CIE/CIS: test phase 2003 (CIE)



– Italian eID card: from end of 2003



Evolved as national islands

National eIDs landscape

■ Heterogeneous in various dimensions

– Technology

- Smartcards: AT, BE, EE, ES, FI, GE, IT, PT, SE,
- Mobile eID: AT, EE, FI, LU, NL, NO, UK, ...
- Soft certif.: ES, SE, SI, ...
- usern./pass: NL, UK, ...

– Operational

- Issued by public sector or private sector or combined
- Issued at federal, local, regional level
- Use of identifiers

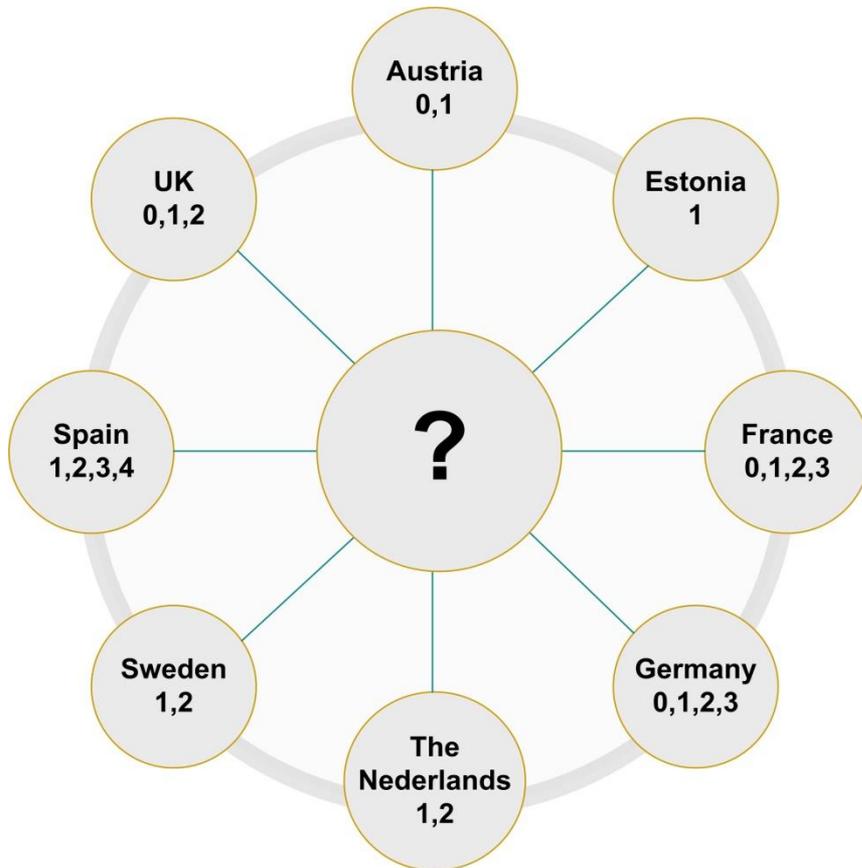
– Legal

- (limited) use of identifiers; flat, sectoral, combined



**Claim: None is the
“better”
system, they’re just
different**

One problem tackled: Trust levels



Different technologies and security levels:

- Smart cards
- Software certificates
- Mobile Phones
- Username-password

STORK QAA levels

STORK QAA level	Description
1	No or minimal assurance
2	Low assurance
3	Substantial assurance
4	High assurance

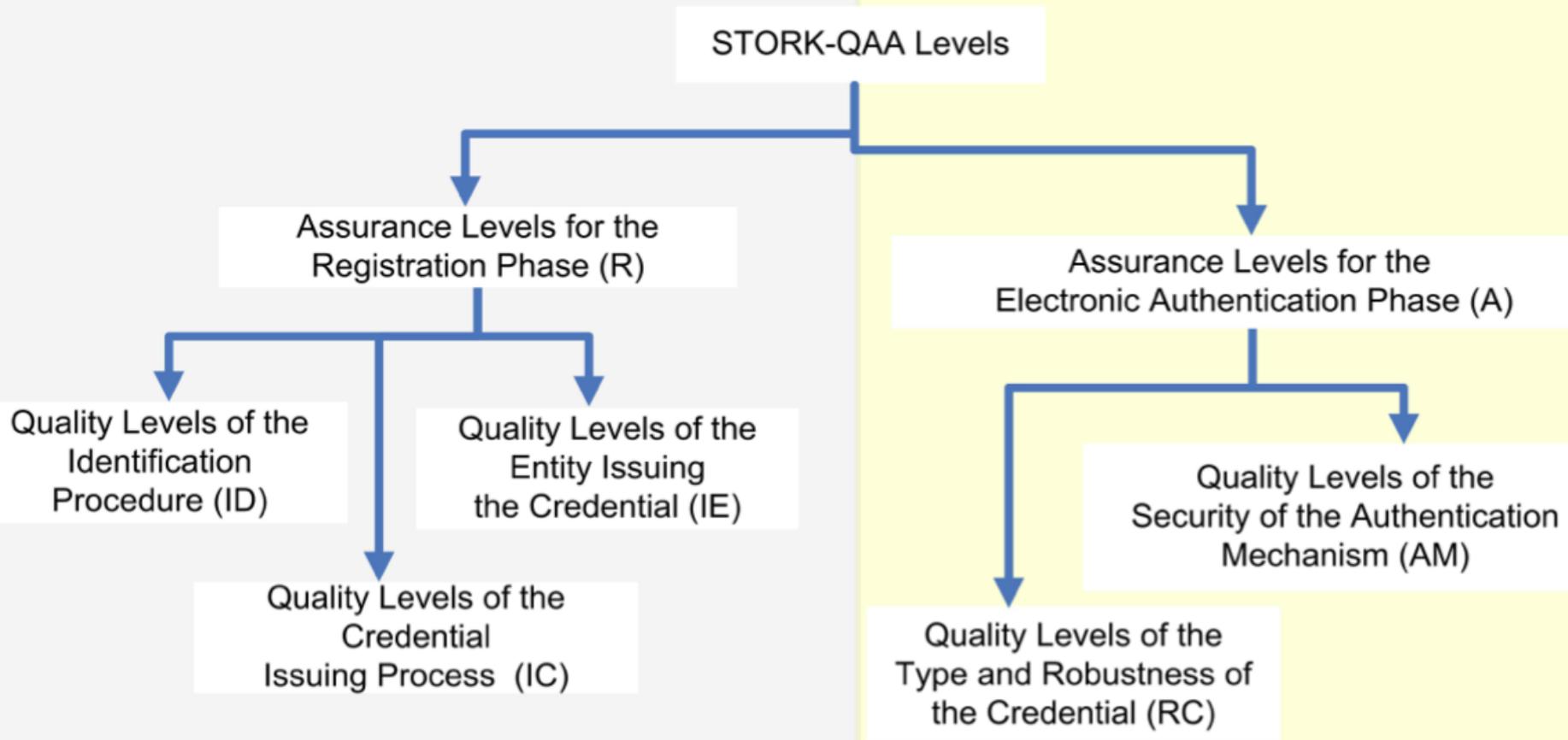
(Source: STORK D2.3 – Quality authenticator scheme)

STORK: eID profile of STORK countries (phase 1)

Technical factors influencing STORK QAA levels

Country & credentials		Token Types			Relation to 1999/93/EC		Token Issuer	
	# of cred.	Smart card	mobile eID	soft.-certif.	qualified cert (signature-cert)	is a SSCD	public sector	private sector
Austria	3	yes	yes	-	all	all	yes	yes (all. qual.c.)
Belgium	1	yes	-	-	all	all	yes	-
Estonia	2	yes	yes	-	all	all	yes	-
Germany	1	yes	-	-	optional	all	yes	(opt. qual.certs.)
Finland	1	yes	-	-	qualified	all	yes	-
Iceland	2	yes	-	-	all	all	-	yes
Italy	2	yes	-	-	all	all	yes	yes (sig.-card)
Lithuania	1	yes	-	-	all	all	yes	-
Luxembourg	3	yes	yes	-	all	all	-	yes
Portugal	1	yes	-	-	all	all	yes	-
Slovenia	3	yes	-	yes	all	yes (QAA 4)	yes	yes
Spain	1+80	yes	-	yes	all	yes (QAA 4)	yes (QAA 3-4)	yes (QAA 3-4)

Organisational factors influencing STORK QAA levels



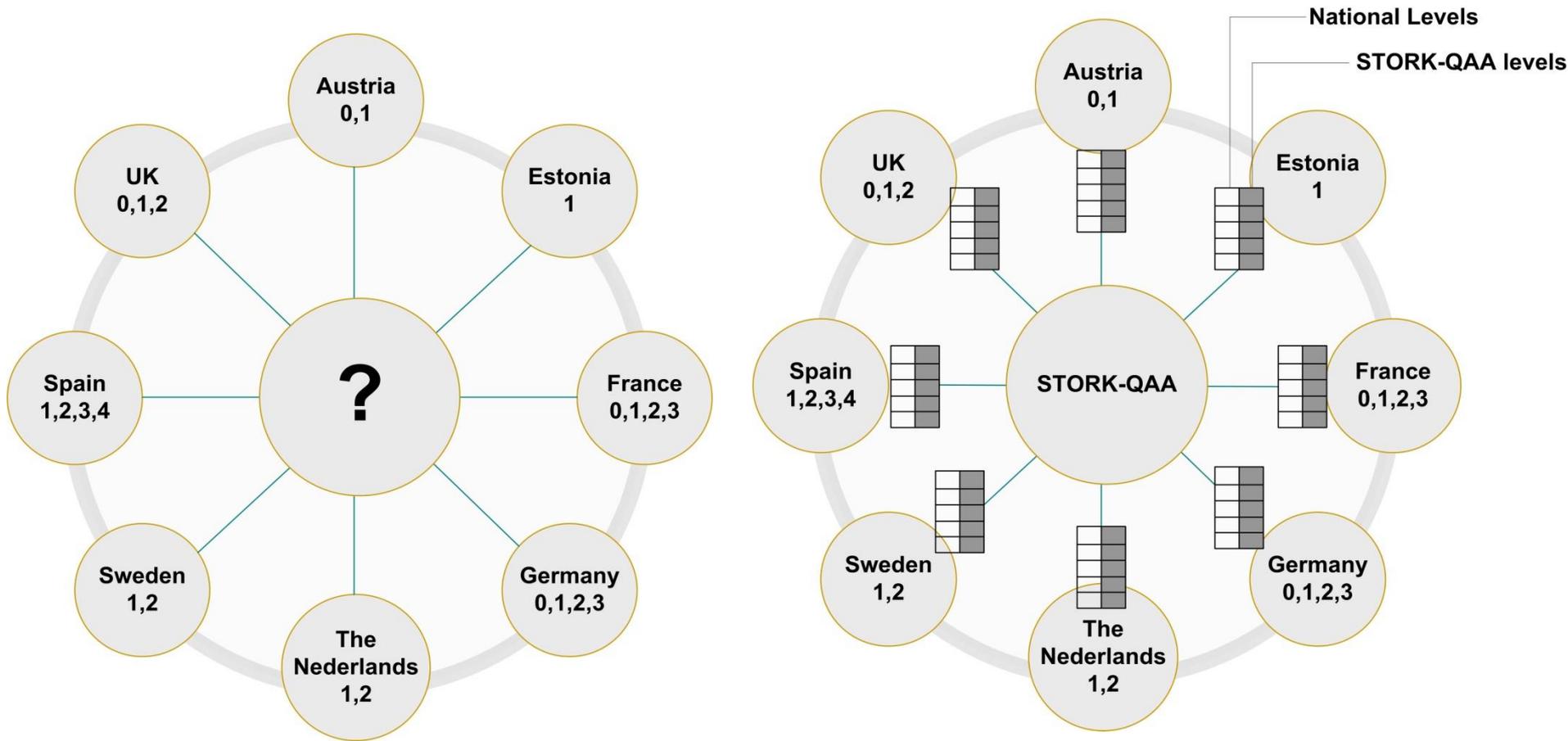
(Source: STORK D2.3 – Quality authenticator scheme)

Technical & organisational assessment of STORK QAA levels

		Assurance Levels for Electronic Authentication phase			
		EA1	EA2	EA3	EA4
Assurance Levels for Registration phase	RP1	STORK QAA Level 1	STORK QAA Level 1	STORK QAA Level 1	STORK QAA Level 1
	RP2	STORK QAA Level 1	STORK QAA Level 2	STORK QAA Level 2	STORK QAA Level 2
	RP3	STORK QAA Level 1	STORK QAA Level 2	STORK QAA Level 3	STORK QAA Level 3
	RP4	STORK QAA Level 1	STORK QAA Level 2	STORK QAA Level 3	STORK QAA Level 4

(Source: STORK D2.3 – Quality authenticator scheme)

Approach: Mapping to QAA levels



STORK I success story

■ Six pilots live as “pioneering applications”

■ Online authentication



■ Safer Chat



■ Student Mobility



■ eDelivery



■ Change of Address



■ ECAS



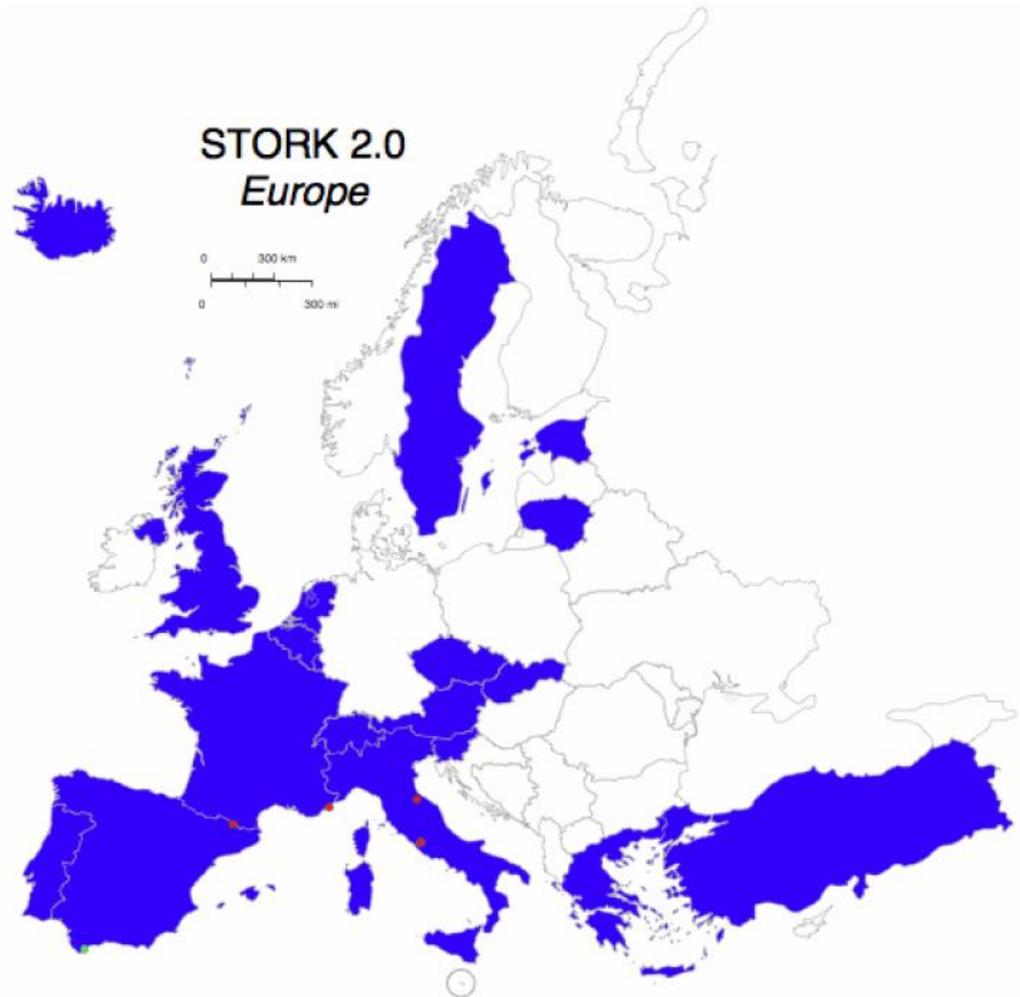
STORK 2.0 project

STORK 2.0
Secure idenTity acrOss
boRders linKed 2.0

3 year duration:
from 2012 to
2015

19 participating
countries

58 partners



The Vision

STORK 2.0 will contribute to the realization of a **single European electronic identification and authentication area** by:

- building on the results of STORK
- establishing interoperability of different approaches at national and EU level, eID for persons, eID for legal entities and the facility to mandate



Work packages in STORK 2.0

Work packages	Description	WP Leader
WP1	Project Management	Atos
WP2	Existing Infrastructures & Resources	IST
WP3	Legal & Trust Analysis	TIME.LEX
WP4	Common specs & Building Blocks	MINHAP
WP5	Pilots	
5.0	Pilots Coordination	Atos
5.1	eLearning & Academic Qualifications	ES UJI
5.2	eBanking	BUAS
5.3	Public Services for Businesses	IC
5.4	eHealth	BMG / TUG
WP6	Pilots Evaluation	VKA/HEC
WP7	eID as a Service Offering	BUAS/UK CO
WP8	Marketing, Communication & Dissemination	SU

eHealth - Objectives

- The pilot is fully in line with Key Action 13 “*Undertake pilot actions to equip Europeans with secure online access to their medical health data by 2015*” of the Digital Agenda as well as with the patients’ right of getting access to their personal medical data in crossborder healthcare as a topic in the EU Directive 2011/24/EU.
- The pilot leverages the existing STORK infrastructure to processing medical data, i.e. an area with the highest data protection requirements due to special categories of data that receive particular protection under the Data Protection Directive 95/46/EC.

1. Service (Use Case) 1 : Citizen (Patient) Access

1. Access to medical information of a citizen
2. STORK Partners contributing: Austria, Italy, Turkey (testdata), Switzerland, UK

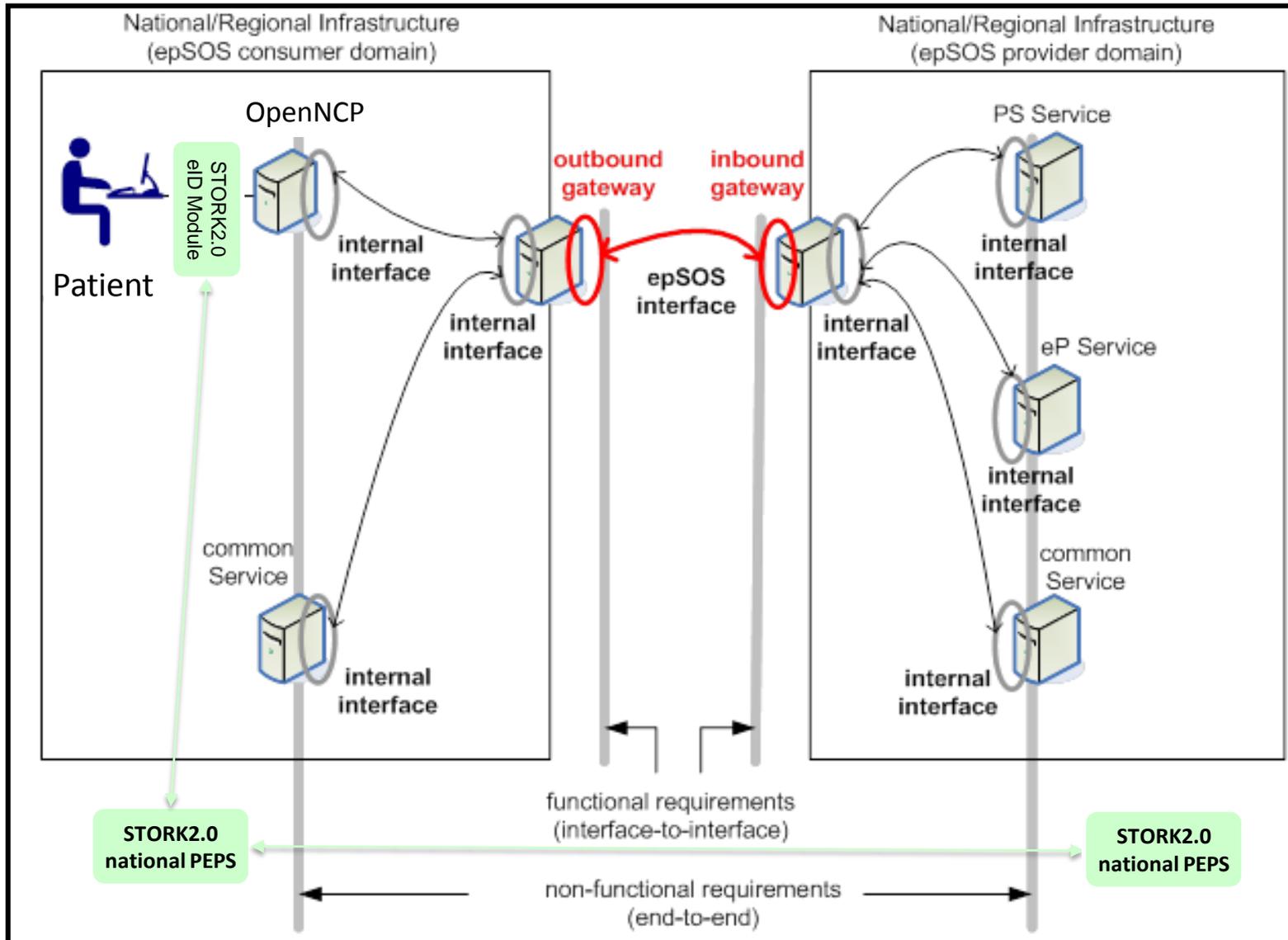
2. Service (Use Case) 2: Citizen (Patient) Access with Delegation of Patient Rights

1. Access of medical information of a delegated citizen
2. E.g. in Austria: change of attributes and permissions (eg: HCP, Consent,)
3. Pilot Partners contributing Austria, Italy

3. Service (Use Case) 3: Exchange Attributes about a Healthcare Provider (HCP-in the first step: Medical Doctor)

1. Exchange of HCP attributes and roles to check if the person is an HCP in her/his home country
2. Pilot Partners contributing: Austria, Sweden, Switzerland

epSOS OpenNCP → STORK-eID



HOW TO GET INVOLVED...

- Visit **STORK 2.0** website www.eid-stork2.eu !
- Subscribe to **STORK 2.0 Newsletter!**
- Participate & “like” [Stork eID Facebook](#) page!
- “Follow” us on [Twitter @StorkEid](#) !
- Connect to [Stork 2.0 EID LinkedIn](#) page!
- Register in **STORK 2.0 online groups!**
- Contact us at info@eid-stork2.eu !

- Rechtliche Basis für höhere Sicherheit und Zuverlässigkeit im Bereich der Patientenidentifikation liegt national und auf EU-Ebene vor
- Entsprechende eGovernment- und eHealth-Konzepte wurden EU-weit getestet und sind praxistauglich
- eIDs auf unterschiedlichen Qualitätsniveaus (Beachte: Begrifflichkeiten)
- Aufholbedarf in der flächendeckenden eID-Implementierung

Weitere Informationen:
Bundesministerium für Gesundheit

office@ehealth.gv.at

+43 1 71100 4195

<http://www.bmg.gv.at>