

EHTEL

EUROPEAN HEALTH TELEMATICS ASSOCIATION

Status and Perspectives for the Introduction of Health Cards in European Member States

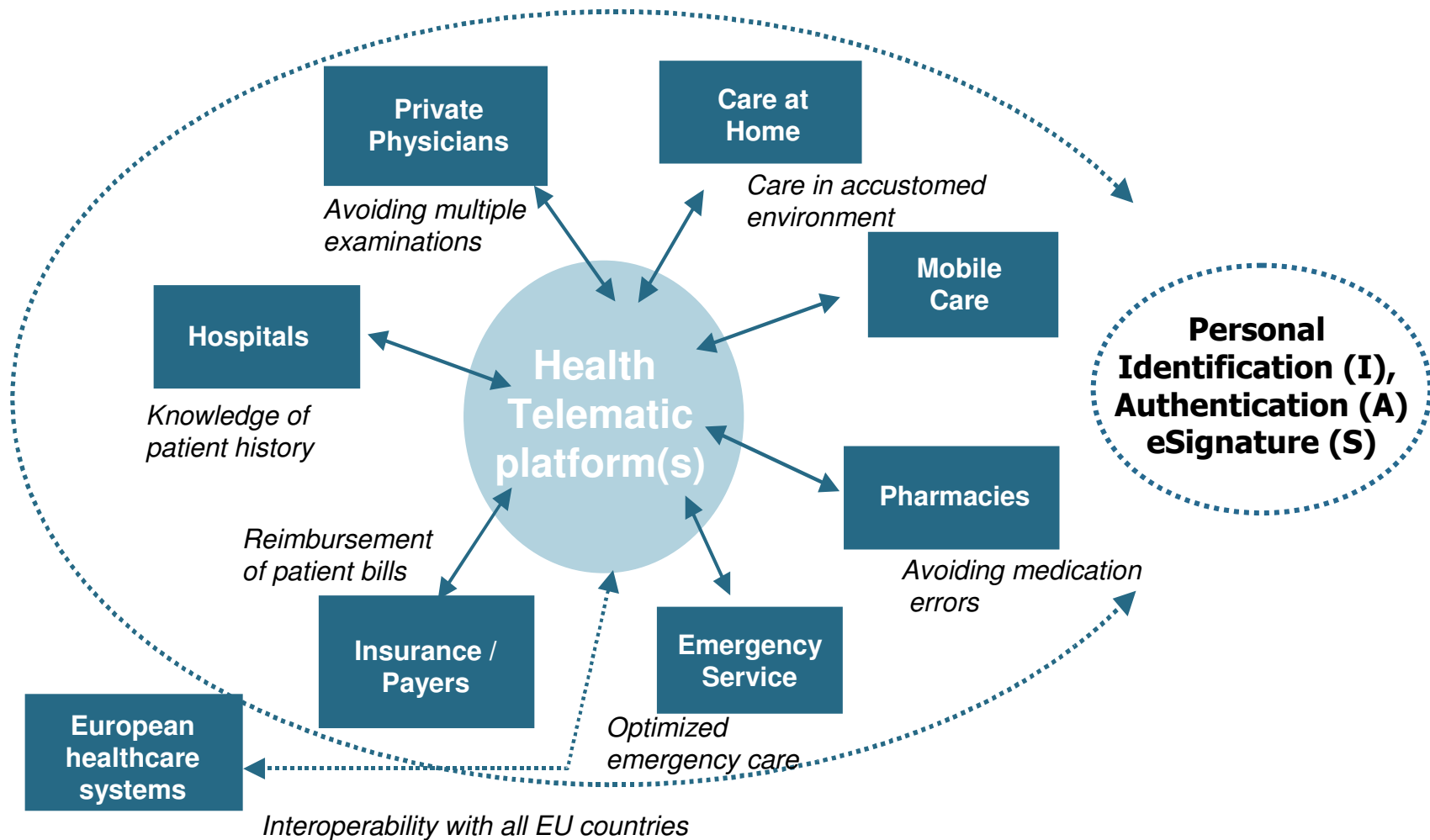
An Introduction

by Marc Lange

**eHealth 2005 - Telematik im Gesundheitswesen -
Internationaler Tag**

21. April 2005

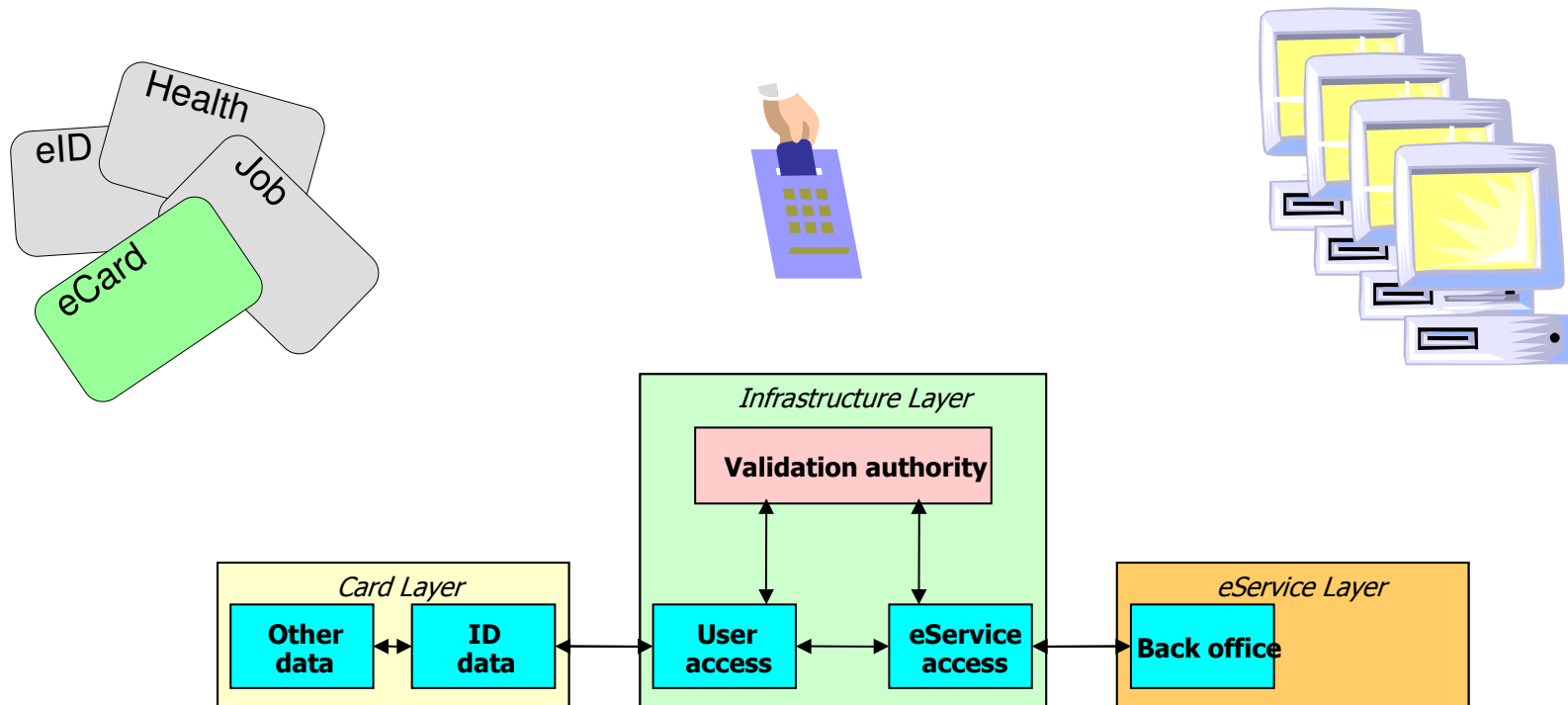
eHealth Requirements: IAS



IAS (on patient/professional cards)

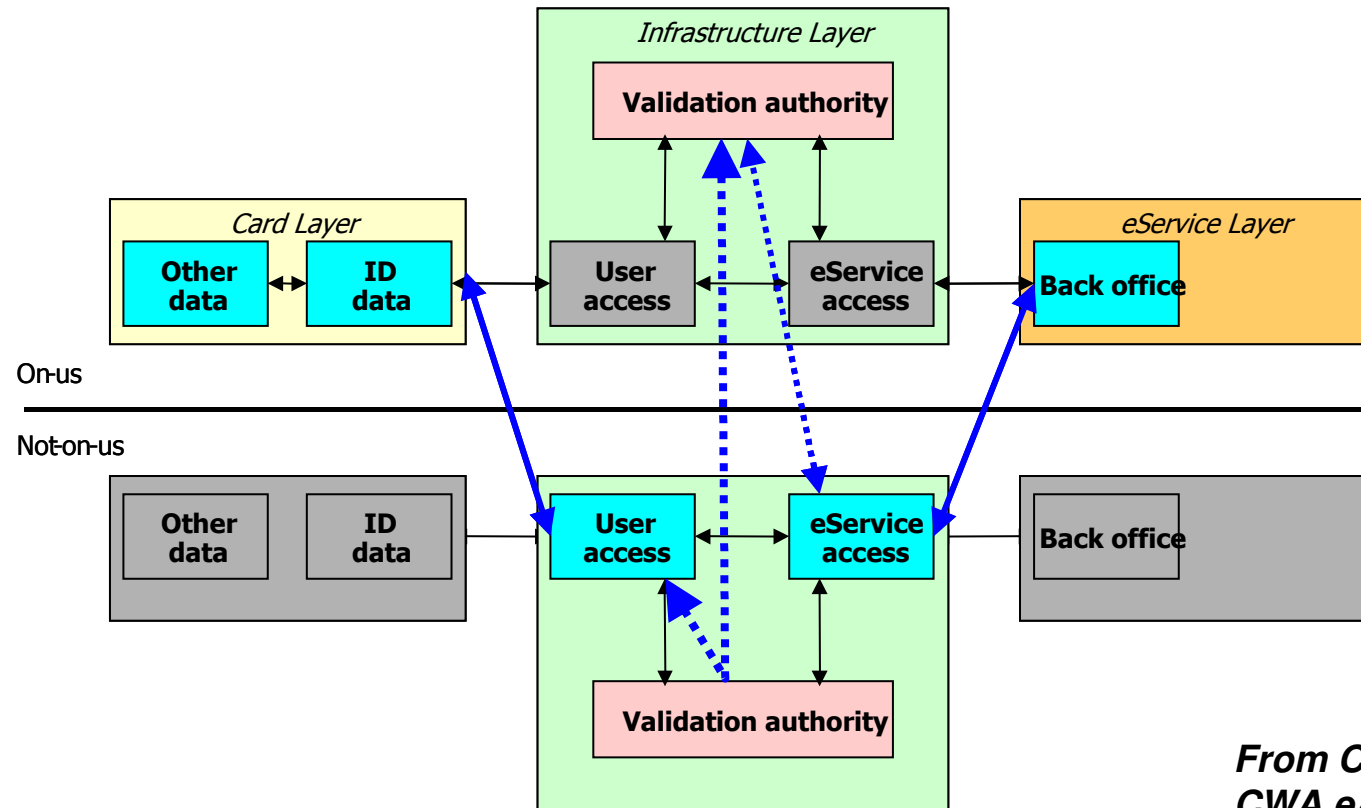
- ▶ eIdentification
- ▶ eAuthentication
 - For secure access control and privacy protection
- ▶ eSignature
 - For transmitting/updating data when the professional responsibility is engaged
- ▶ In the context of several eHealth services:
 - EHR
 - ePrescription, second opinion
 - Access to sensitive administrative data ...

Interoperability of IAS for a generic function



From CEN/ISSS CWA eAuth
May 2005

Interoperability of IAS systems better than of cards



From CEN/ISSS
CWA eAuth
May 2005

Smart card deployment for HISS/eID cards

- ▶ 17 countries out of 29 (EEA) are deploying or have at least politically agreed upon deployment plans
 - BE, DE, EE, ES, FR, IT, AU, SI, SE, FI (10)
 - CZ, GR, IE, HU, NL, PO, IC (7)
- ▶ 4 other countries are discussing deployment plan
 - PT, UK, SK, CH
- ▶ 6 countries have no plans at all
 - DK, LV, LT, LU, MA, NO
- ▶ 2 countries are still to provide information
 - CY, LI,

State of affairs in deploying EHIC

- ▶ By 2006, **EHIC** will be deployed in **29** countries (EEA)
- ▶ **16 000 000** EHIC have been distributed by the end of 2004, in **14** countries
- ▶ The Top 3 issuers are
 - Czech Republic: 4 000 000 (all their citizens)
 - Germany: 3 500 000
 - Sweden: 1 600 000
- ▶ One can expect
 - **50 000 000** cards issued in **19** countries By summer 2005
 - more than **100 000 000** cards by summer 2006

State of affairs in deploying EHIC

▶ Second step under discussion: eEHIC

- e.g. An insurance function with/without an health one ?

“The introduction of the European health insurance card will [...] also speed up the development of **common approaches** for electronic health records, medical emergency data and electronic patient identifiers.”

Karin Jöns, MEP - 1/12/2004



➔ IAS and cross-border interoperability of smart cards are now on the political agenda

Why Cross-border interoperability?

- ▶ *Nobody can be prevented to travel within the EU because he/she needs or may need health care during his/her temporary stay*
 - Cross-border **accessibility** to health care

➔ Interoperability for administrative data

- ▶ *... or because local health practitioners needs or may need to access “emergency” data or EHR during any stay abroad*
 - Cross-border **patient safety** and **quality** of care

➔ Interoperability for medical data and IAS for health professionals accessing them

Why Cross-border ...

- ▶ *Cross-border cooperation should be politically encouraged and administratively supported*
 - For **sharing capacity and resources** in case of shortage or for avoiding Euregio duplication
 - For encouraging **professional mobility**
 - ➔ **Interoperability of**
 - **administrative data**
 - **medical data**
 - **IAS for health professionals**
(including health professional cards)

How: harmonisation or coordination?

▶ 1 single card across Europe?

- Full standardisation
- Powerful investment and deployment plans

or

▶ Different and interoperable cards and infrastructures?

- Operational interoperability
- Semantic interoperability
- Standardisation of interfaces
- Migration plans at variable pace

▶ **A common objective and a common legal basis in a diversity of legal and technical environments**

The financial issue

- ▶ Who benefits from cross-border mobility/interoperability
 - Policies (EU/national/regional level)
 - Citizens
 - Health professionals
 - Sickness funds
- ▶ What kind of benefits
 - Time & resources saving, simplification, continuity of care ...
- ▶ In a win-win approach, those benefiting from cross-border interoperability should fund it
 - As a tax payer or as a user of the service?

More information?



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Annexes: Card IOP - Pre-analysis

► Seeking for technical orientations on:

- On-card & on-line data
- Card/reader interoperability
- Interoperability of communication infrastructure
- Cross-border access to on-card & on-line personal data

Data interoperability

- ▶ On-card identification data
 - See EHIC dataset
 - Standardisation work in process - ISO/IEC 21549-5

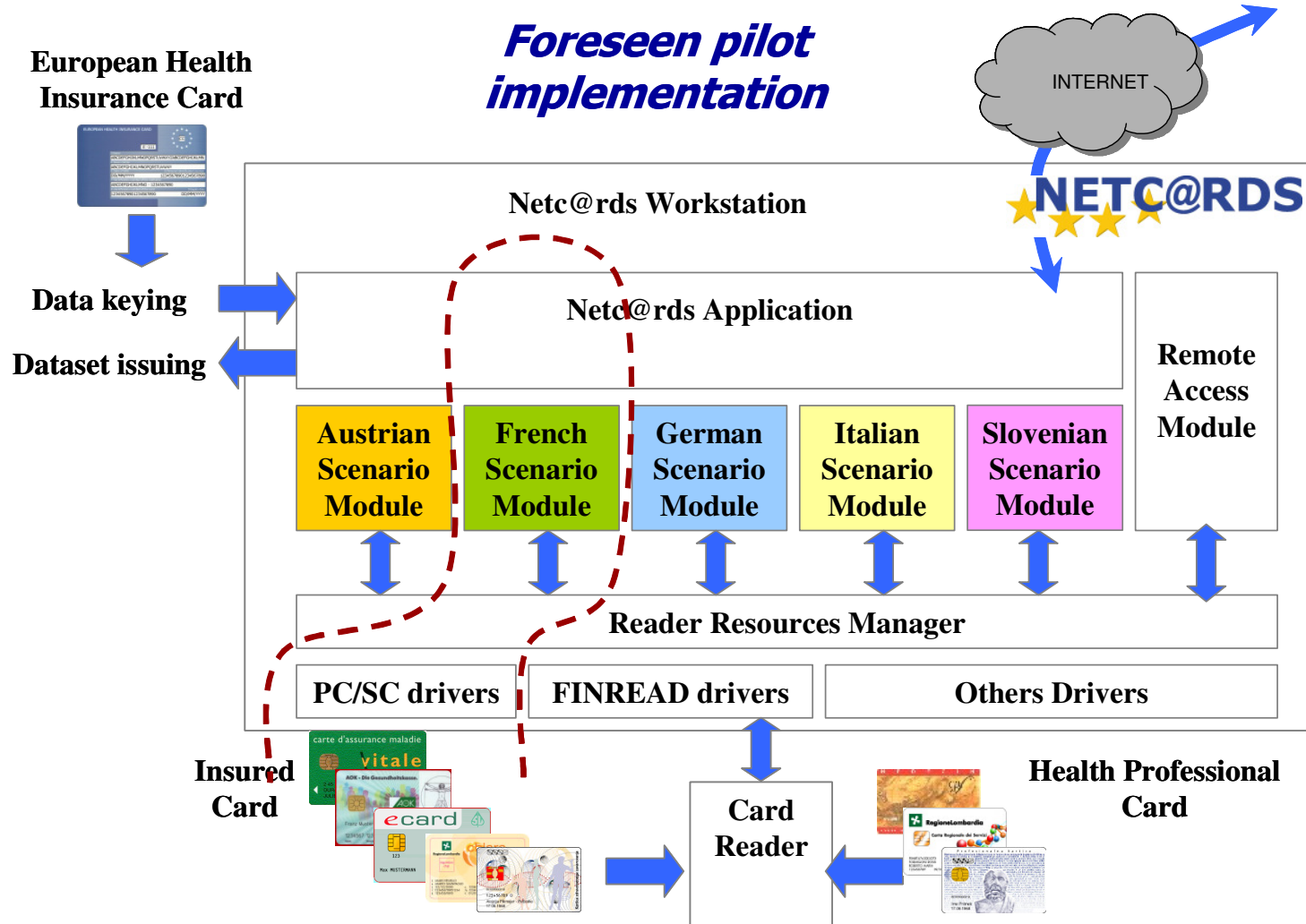
 - ▶ Other on-card data/services
 - Their interoperability is studied by
 - Netc@rds, for what concerns entitlement data
 - ISO/IEC 21549-3, for what concerns a basic health dataset
 - CWA eAuth. and subsequent standardisation work at
 - TC 224 WG 15
 - ISO/IEC JTC1 SC 17 TF 9
- for what concerns eAuthentication

Card/reader interoperability

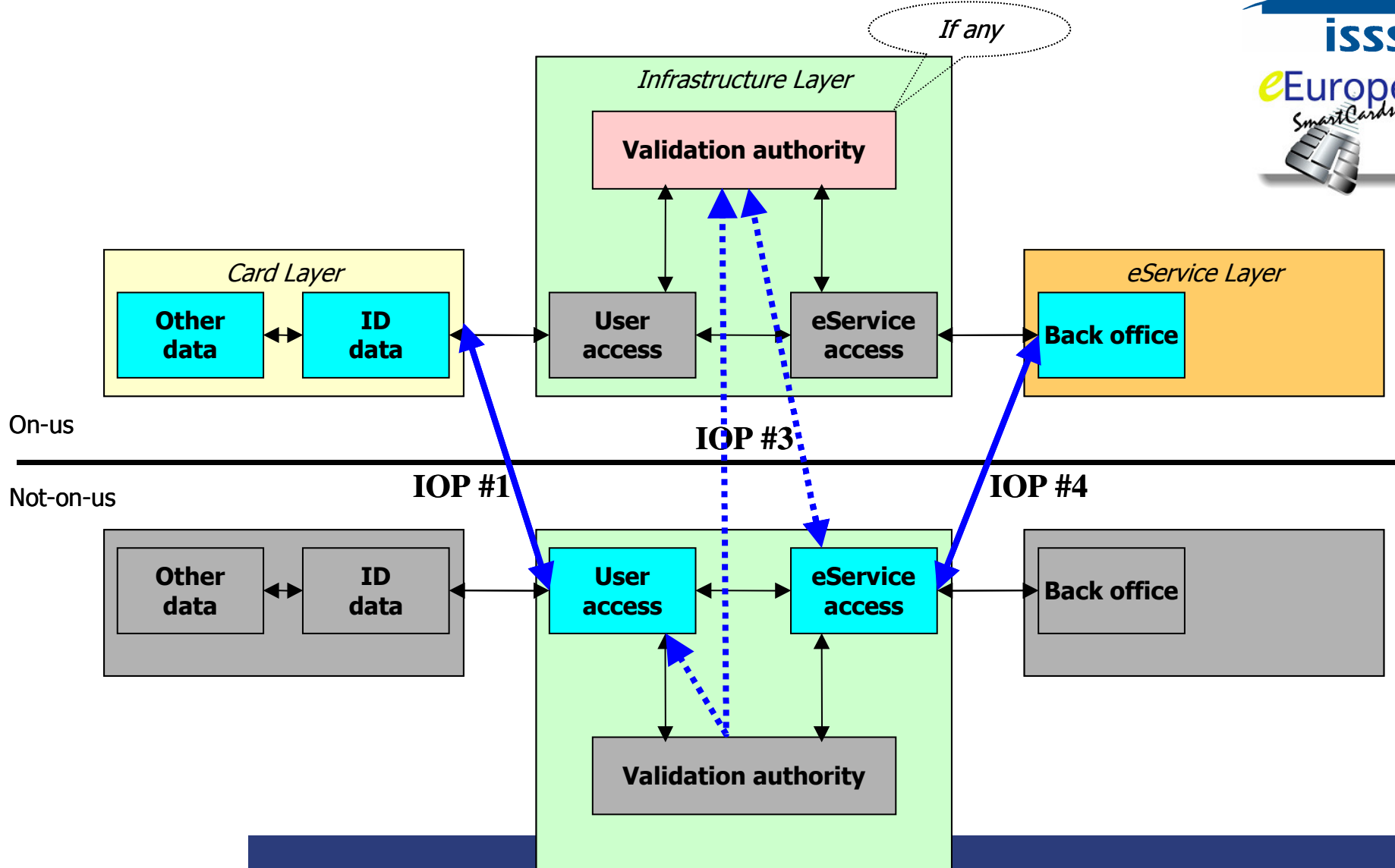
- ▶ Solutions already exist for solving generic interoperability (APDU ...) between cards and readers
 - This is mainly an industrial and financial issue

- ▶ Application-specific interoperability in support of the mobility of the patient/citizen is studied by projects such as Netc@rds, eEPOCH and Meditrav
...

Card/reader interoperability ...



IOP of infrastructure



Cross-border access to personal data

- ▶ Security measures for restricting access to some data may be
 - A PIN code under the sole control of the cardholder
 - The mutual recognition of the patient and health professional cards
 - A strong authentication (PKI-based) mechanism
- ▶ Interoperability agreements are necessary for managing security gaps
 - Some data may be of restricted access in some MS while of open access in other MS
 - Access restrictions may be subject to different level of security