

# e-health in Austria – An overview



**Walter M. Bugnar**

## e-health in Austria – An overview

### The Austrian e-card project

### The Austrian e-health landscape

### The Austrian EHR - ELGA

### e-medication

### Discussion



## The Austrian e-card project - An Overview

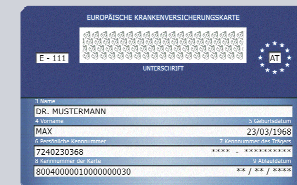
### Requirements to the Compound System - Openness of the System

- Design of the e-card as a „Key card“
- Access to personal data after approval of the cardholder (§31a (2) ASVG)
- The e-card system shall support the transparency of medical services and costs
- Acceptance of other cards with „Citizen Card Functionality“ (i.e. prepared for e-government).
- Load ability of new applications:  
Post Issuance Personalization and downloading of data, data structures and cryptographic key-files to the e-card
- Innovation and migration:  
Simultaneous operation of several „generations“ of smart cards with different scope of applications

## The Austrian e-card project - An Overview

### Features of the e-card

- The e-card is a **smart key card** and **signature card** enabling reliable verification of health care entitlements
- The e-card incorporates **2 signature applications** which support
  - Secure Electronic Signatures (for e-gov applications according to SigG and SigV)
  - Social Insurance Signatures
- The e-card stores holder's name, date of birth, sex, social insurance number, card serial number and user group identification
- The e-card is the **European Health Insurance Card**
  - replaces form E-111 for stays abroad
  - valid in the EU, EEA and Switzerland





## The Austrian e-card project - today

### The e-card today

The savings to the administrative area are given annually to approximately € 50 million.

The Austrian population is excited by the e-card. Almost 90% said in 2009 that the e-card with "very good" or "good".

Also the Health professionals are glad with the e-card.



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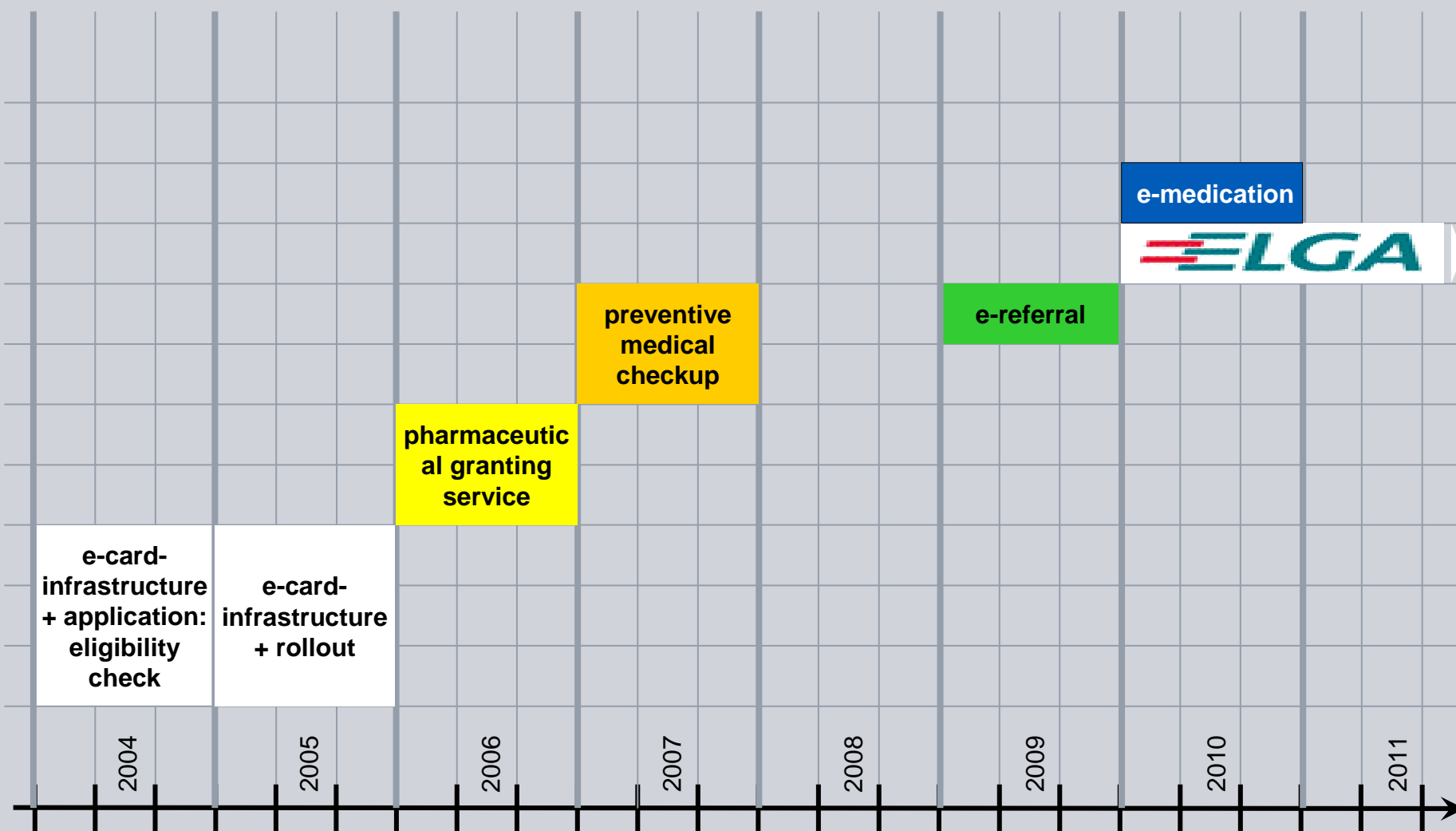
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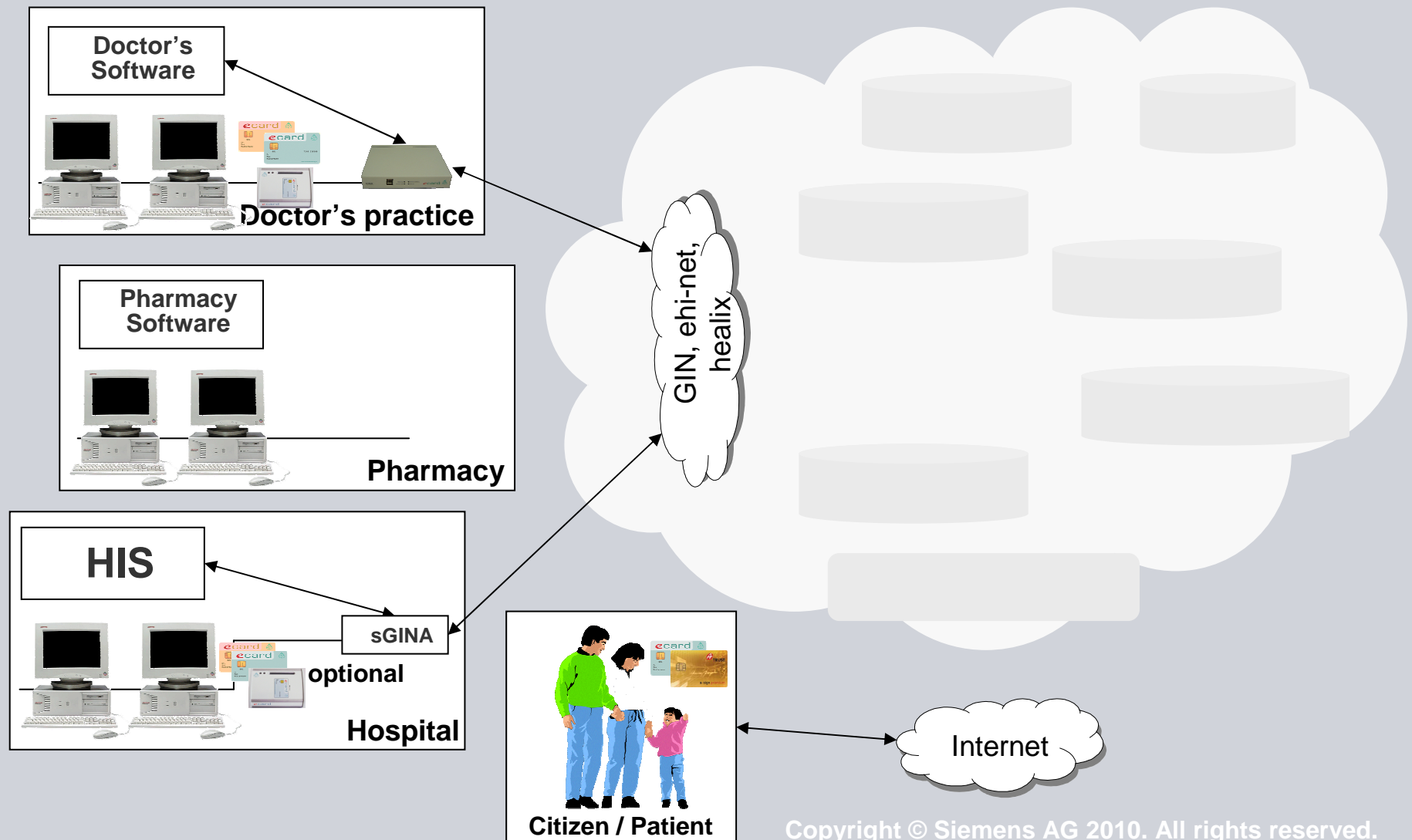


## The Austrian e-health landscape - Roadmap



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# The Austrian e-card project – e-card network (2009)



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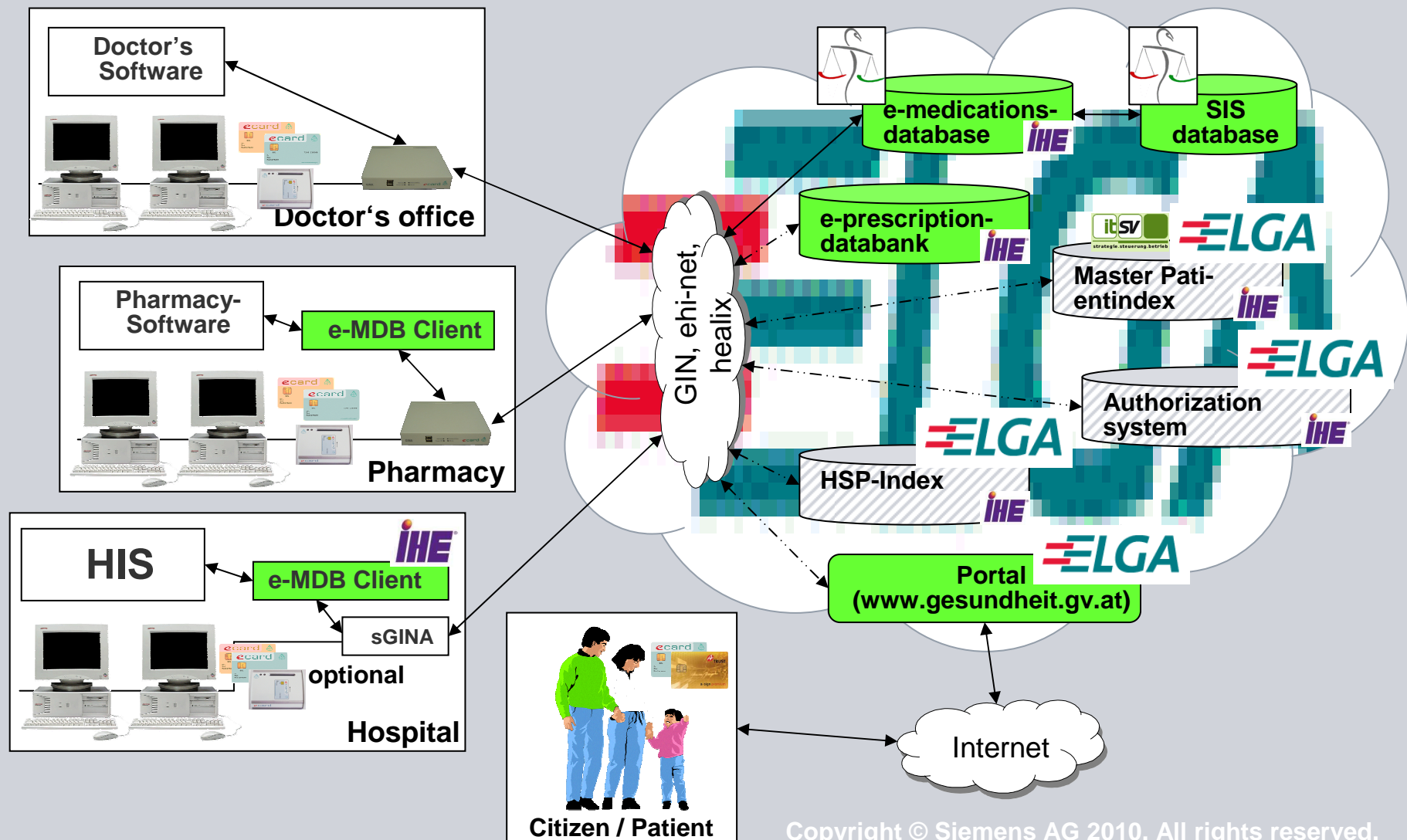
## **e-health in Austria – The Austrian EHR - ELGA**

### **Definition**

**The electronic health record, ELGA short, is a system that manages all relevant health data of citizens electronically. The main treatment data will be stored. ELGA is the combination of existing projects and structures and focuses on the international market. The ELGA Ltd., which is responsible for the implementation of the EHR, integrates all users of ELGA in the planning work. This is a strict privacy protection and authorization system as a basis for the use of ELGA. For this purpose, the existing e-health law is reformed. Based on current and long past polls more than 90% of Austrians evaluate applications around the e-card and ELGA positive.**

**The individual projects of the ELGA - especially e-medication, the normalization for release documentation, laboratory and radiographic findings and epSOS are primarily for the quality assurance and cost savings. An epSOS trial run is planned for early 2011.**

## e-health in Austria – The Austrian EHR – ELGA (2011)

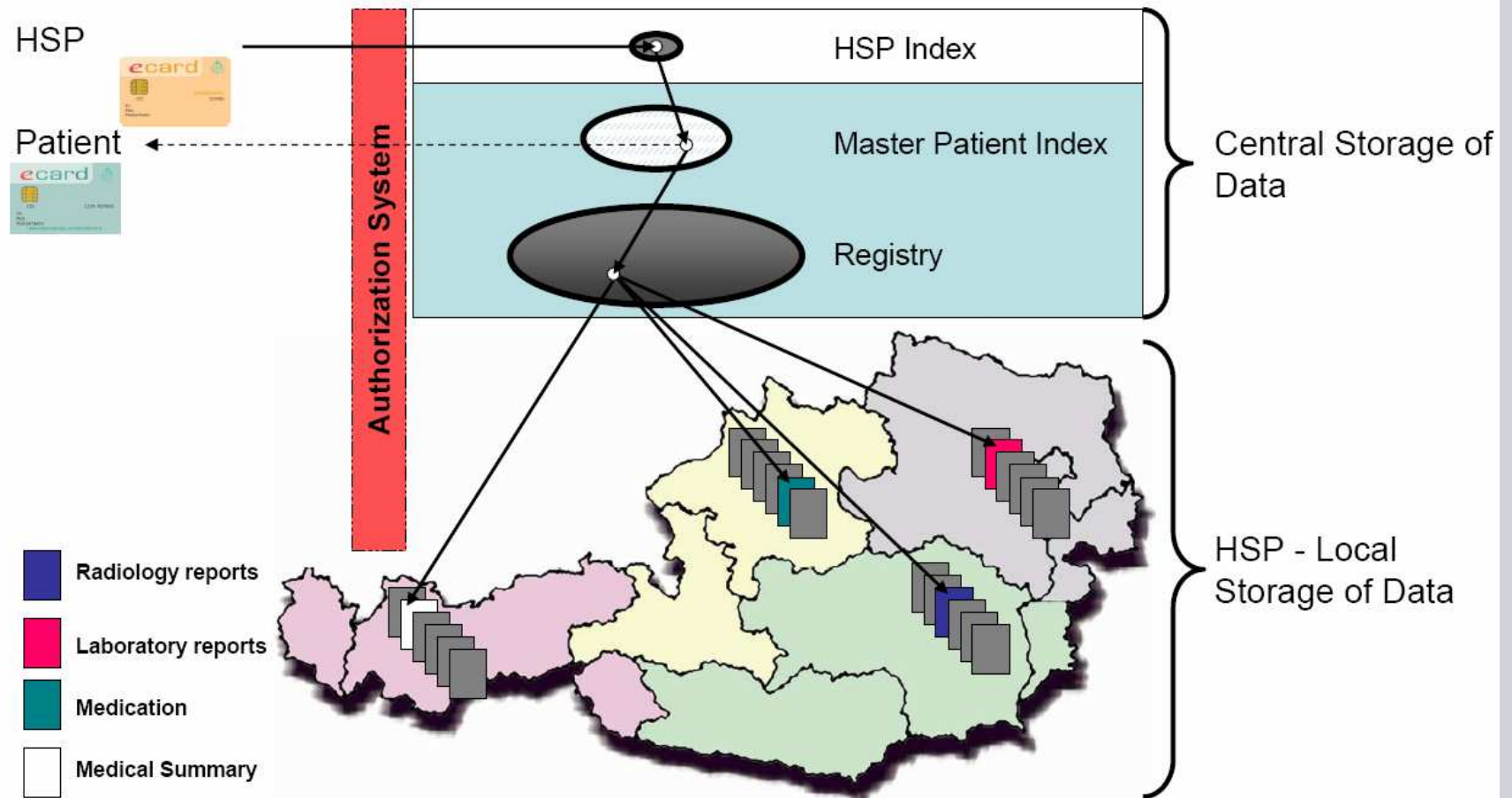


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# ELGA View on Data



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## **e-health in Austria – e-medication**

# **Phase: Pilot and Evaluation**

### **Creation of basic infrastructure and the environment**

#### **What is the e-medication?**

- A project on medical quality assurance
- Pharmacists and doctors are informed about the dispensed and their drug interactions, treatment compliance and multiple consumption
- Saves more than € 100Mio and more 1.000 lives annually

#### **Who benefits?**

- We patients - And thus the payer health system
- Pharmacists
- doctors

#### **Users: Around the Donauspital, KH Wels-Grieskirchen, KH Reutte/Zams**

- e-card Owner (patients)
- To the e-card system to be attached pharmacies
- Practices (already at the e-card system connected)
- Practices with pharmacy (already at the e-card system connected)
- Hospitals (already at the e-card system connected)

## **e-health in Austria – e-medication**

### **Phase: Pilot and Evaluation**

#### **Functions:**

- e-medication database contains dispensed pharmaceuticals and documentation of warnings
- The “Spezialitäteninformationssystem” of Apothekerverlag contains the information's of pharmaceuticals and interactions
- tracking the compliance of prescribed medication and over the counter products
- Medication lists for patients in doctors' offices and pharmacies

#### **Technical implementation:**

- The pharmacies, doctors' offices and hospitals are using the star-shaped network GIN, ehi-net, or HEALIX
- The functionality of the e-medication can be used in the Doctors, pharmacies and health information system (integrated) or as stand-alone client
- The implementation is carried out in accordance with national guidelines (EHR, e-card infrastructure) as well as international standards (IHE)

#### **Data protection:**

- Participation of e-card-users is voluntary, free, revocable at any time.

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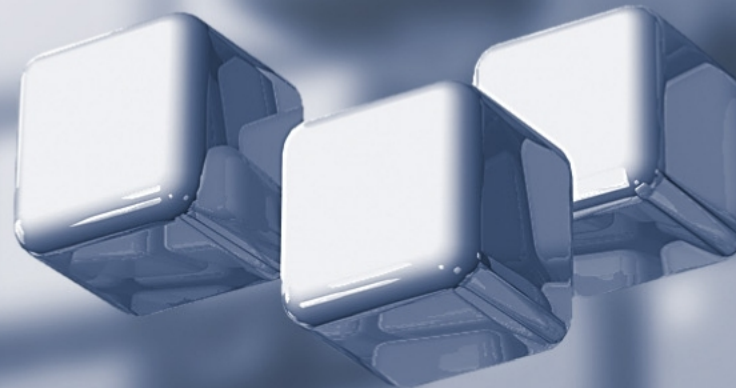
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**Thank you for your attention!**



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