



e-Health in Austria

Experiences from Implementation of EHR and Supplemental Applications

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„Government 2.0 – Breaking with Traditions“



Agenda

- e-Health Vision
- The Austrian e-card Project
- ELGA - The Austrian EHR
- Drug seat belt with the Austrian e-card

Siemens e-Health Vision



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*...the most remarkable feature of
this twenty-first century medicine is
that we hold it together with
nineteenth-century paperwork*

US Secretary Tommy G. Thompson, remarks offered at the Health
Information Technology Summit, Washington DC. May 6, 2004.





**“By 2015 all necessary health data
as well as medical knowledge will
be available electronically for
authorized persons
independent of time and location
in an optimized form
fast and secure”**

Source: The Austrian e-Health Strategy, e-Health-Initiative 2005/2007

The Austrian e-card Project

The legal base for e-Health



1999

Authorization of the Austrian Main Association of Social Security Institutions to build up an chip card based system for administrative purposes by a **social insurance law** (56. ASVG-Novelle).

2000

Data protection law.

2004

E-Government law for a citizen card.

2005

Healthcare telematics law (GTeIG) for the use in e-Health.

The Austrian e-card Project

Advantages of the e-card



Insurance holders



- Easier access to medical assistance
- Protected privacy

- Efficient use of IT
- Lower administration costs

Doctors



Replacement of
42 million vouchers
per year



Service providers



- No issue of healthcare vouchers

- Reliable verification of entitlements
- Lower administration costs

Social Insurance



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The Austrian e-card Project

e-card in figures



facts & figures

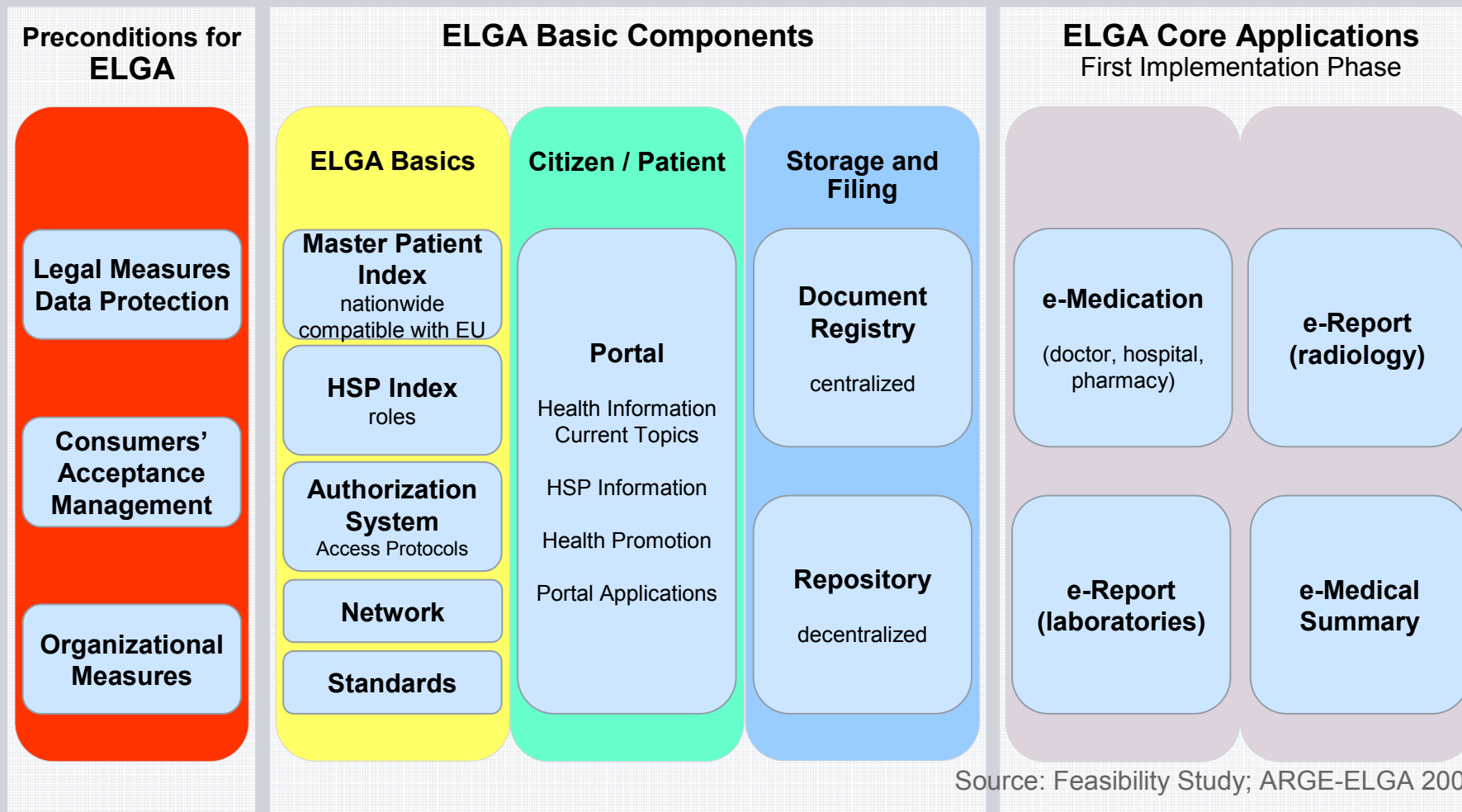
- **8,4 million e-cards** for insurance holders and dependents
- **24,000 health professional cards** incl. PIN/PUK mailings
- **up to 700,000 new issues** per year (loss, theft, changes of names)
- e-card infrastructure for **approx. 12,000 medical practices**
- Almost **500 training courses** at regional level
- Estimated **600,000 calls** to the service line per year
- qualified certificates on e-card used for **public administration**

e-card transactions (“Consultations”)

- | | |
|--------------------------------------|----------------|
| ▪ accumulated requests since 03/2005 | 309 Mio |
| ▪ daily average | 470.000 |
| ▪ all time high | 614.292 |

ELGA - The Austrian EHR

Overview of Basic Components and Main Applications

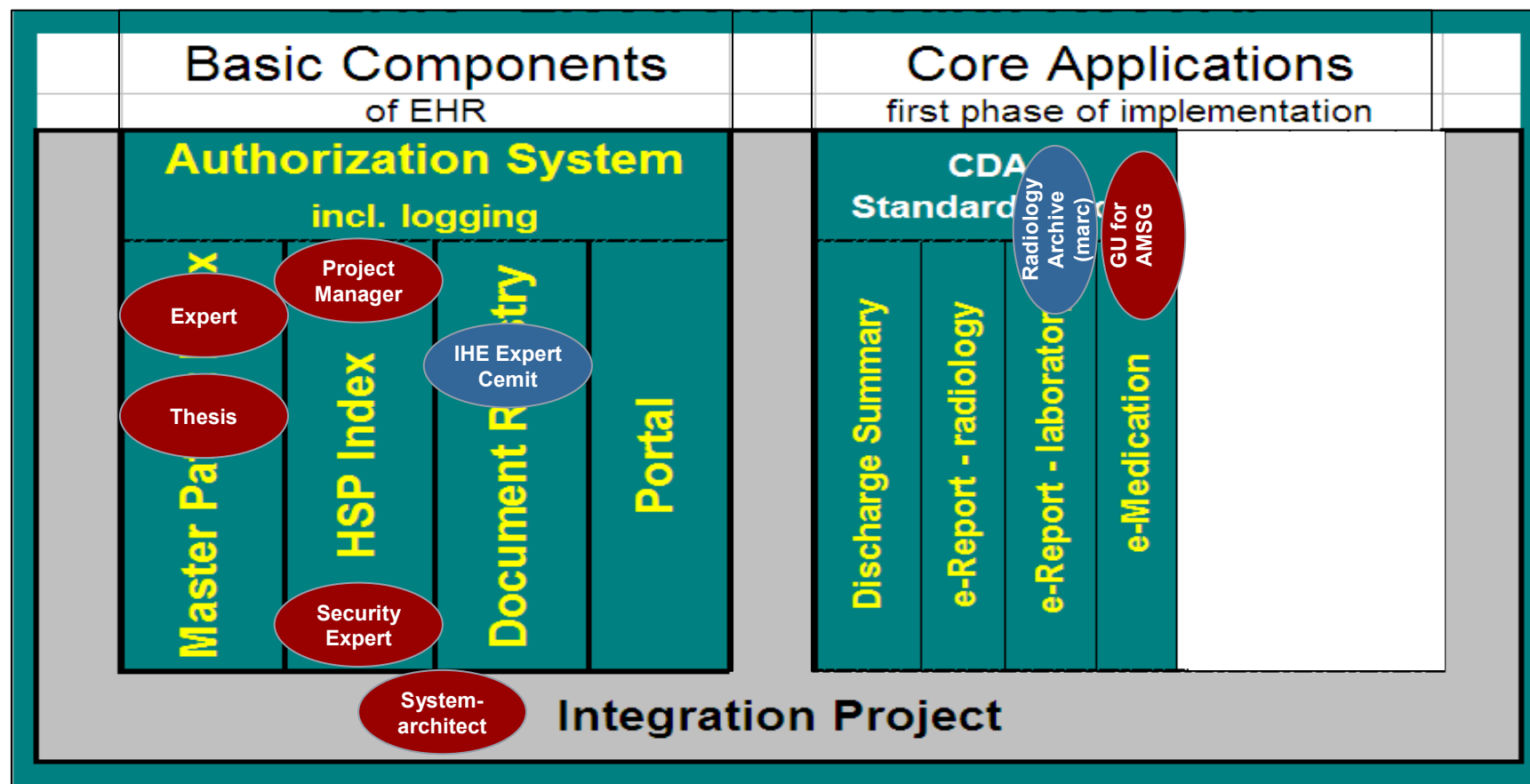


Source: Feasibility Study; ARGE-ELGA 2007

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ELGA - The Austrian EHR

Siemens in Projects of Detail Planning Phase



Source: ARGE-ELGA 2008



SIS



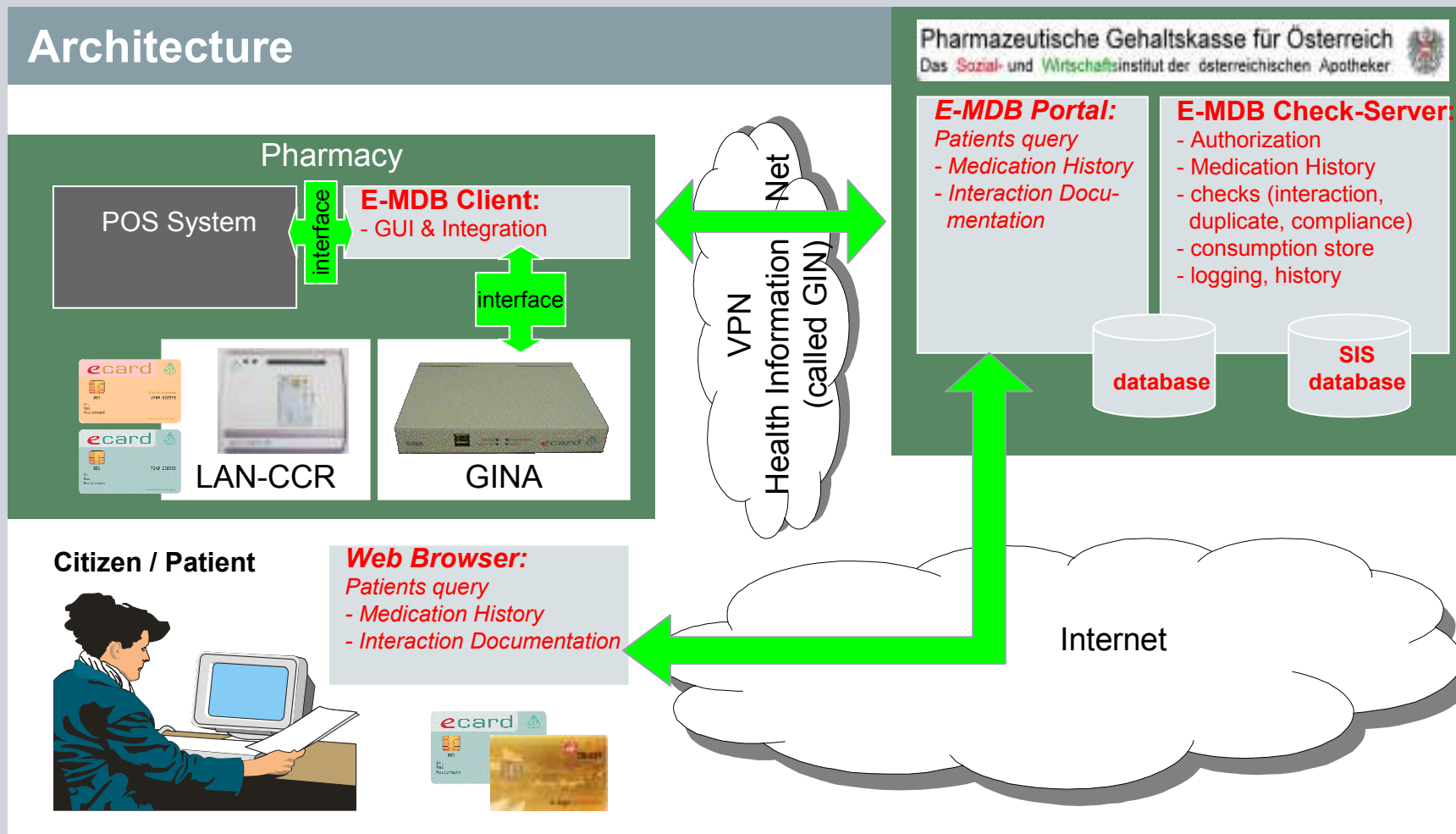
Healthcare (MED)

Drug seat belt with the Austrian e-card

The very first application of ELGA



Architecture



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Drug seat belt with the Austrian e-card

Overview

- Potential **savings of € 150 million** in medical costs.
- **Rescue** of more than **1,000 lives** per year in Austria.
- Checks **drug interactions**, compliance and many more.
- Both **prescribed drugs** and **OTC** (over the counter) products.
- The **participation** of patients is **voluntary, free**, revocable at any time.
- In more than **1,200 public pharmacies** and **50 pharmacies in hospitals** the drug seat belt will be available.
- In pilot more than **80% of drug adverse events** could have **solved** by the pharmacist immediately.
- The most common serious interactions: Marcoumar / Aspirin, multivitamin supplements / osteoporosis drugs and cholesterol-lowering / antibiotics.

Siemens & e-Health Activities



Austria

- Leading of one working groups of the Austrian e-Health Initiative
- technical cooperation with the ARGE ELGA
- Leading working group healthcare of the ICT Austria
- Member of the Austrian Standards Institute
- Cooperation with the „Semantic Web Company“

International

- Founding member of IHE world
- Industry co-chair and steering committee IHE Europe
- CEO of COCIR and board members
- Member of the ICT Standardization Policy Focus Group of the DG Industry of the European Commission
- Expert in DG Information Society working on the large scale pilot for Smart Open Systems (S.O.S.)

e-Health-Initiative
Strategie und Technologien

ELGA

ICT|austria



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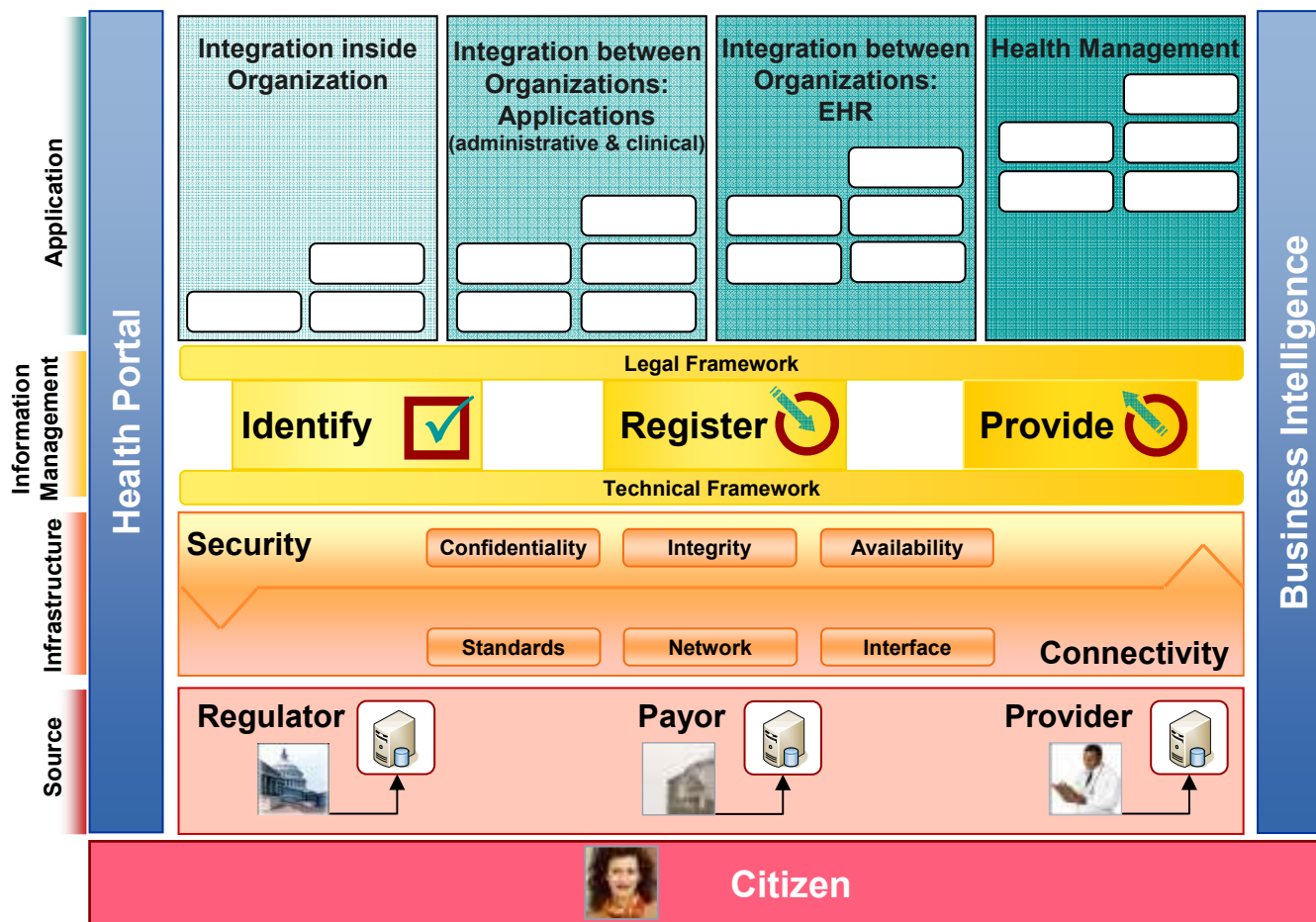


Enterprise and Industry

Europe's Information Society

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e-Health: The big Picture



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