# **ELGA**

#### the Electronic Health Record in Austria

Dr. Christian Husek, Vienna

www.initiative-elga.at

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### joint presentation:

#### **INITIATIVE ELGA**

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- Information
- Communication
- Discussion
- Creation

"There are three types of organisations:

those who make things happen, those who watch things happen and those who wonder what has happened!"

"... improvement never stops!" ©



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#### **ARGE ELGA**

 Arbeitsgemeinschaft Elektronische Gesundheitsakte (working group electronic health record)

#### www.arge-elga.at



#### **INITIATIVE ELGA**

www.initiative-elga.at

#### NGO

physicians, pharmacists, patients, etc.

#### Main concerns:

- Privacy
- Usability
- Legal perspectives
- Costs
- Workload for HSP`s

#### ARGE ELGA www.arge-elga.at

#### **Government organisation**

- Organistorial issues
- Legal preconditions
- Finances
- Technical environment
- Political issues



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## Why EHR ?

- International trend, due to data amount
- Better availability, faster access, better interoperability
- Health market is still an upcoming business for ITindustry
- Cost effectiveness often also is an argument
- EU-driven purpose to implement EHR`s in Europe, but health systems still are very heterogeneous



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#### Situation in Austria

- Most austrian doctors use (and in our social health system need to use !) electronic data systems and have their personal office-software
- Most lab results, radiology reports, specialist reports and hospital discharge summarys already today are forwarded electronically to the requesting physician via special medical data transmitting systems ("Medicalnet", "DA-ME") directly into the office software system:

#### ("**push**-system")



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### Confirm of consent by the patient



Ich, Heinrich Test bin einverstanden, dass Krankenanstalten ermittelt. Gleichzeitig stimme ich zu, dass diese angefragten Krankenanstalten diese Daten an den Wiener Krankenanstaltenverbund übermittelt.

- Anzufragende Krankenanstalten: Universitätsklinik Innsbruck
- Zu ermittelnde Daten über die angegebenen Aufenthalte:
  - Patientenidentifikationsnummer
  - Aufenthaltsdauer (von bis), Aufenthaltstyp (stationär oder ambulant), Anstalt, Medizinische Organisationseinheit (Abteilungskostenstelle inkl.
  - Transfer)
  - Patienten-/Arztbrief
  - Krankengeschichte
- Zweck: Die Ermittlung der Daten erfolgt einmalig / wiederkehrend für diesen Aufenthaltes zum Zwecke meiner besseren und wirkungsvollen Behandlung.

Diese Zustimmung kann ich jederzeit ohne Begründung widerrufen. Ab diesem Zeitpunkt findet keine Ermittlung und Übermittlung von Daten auf Grund dieser Zustimmungserklärung über die angegebenen Aufenthalte mehr statt.

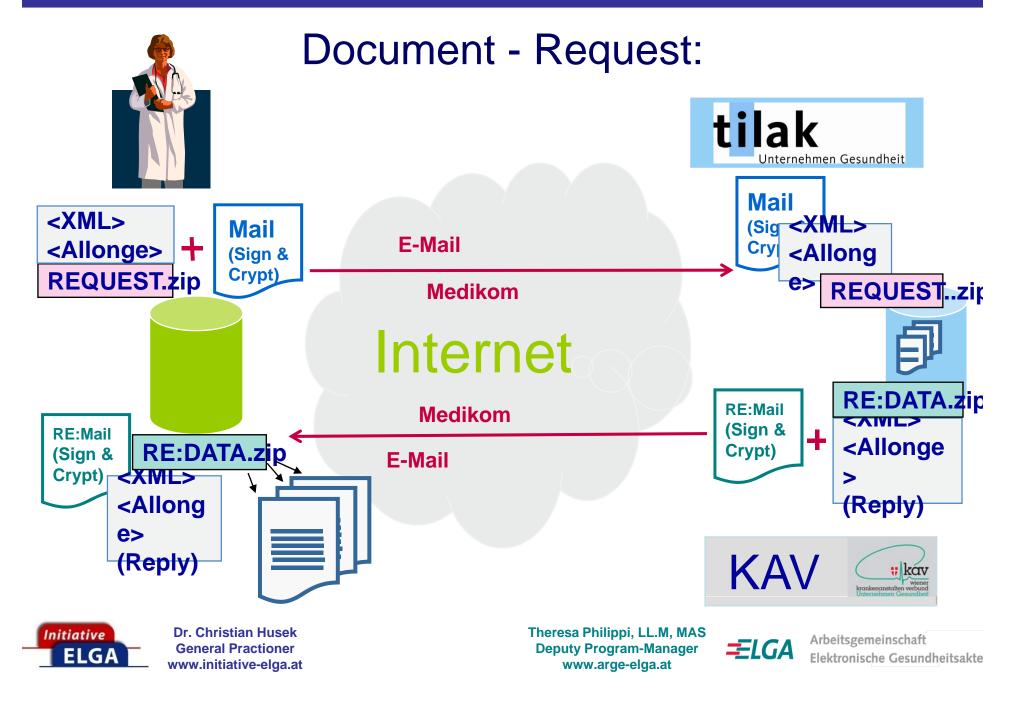
Heinrich Test

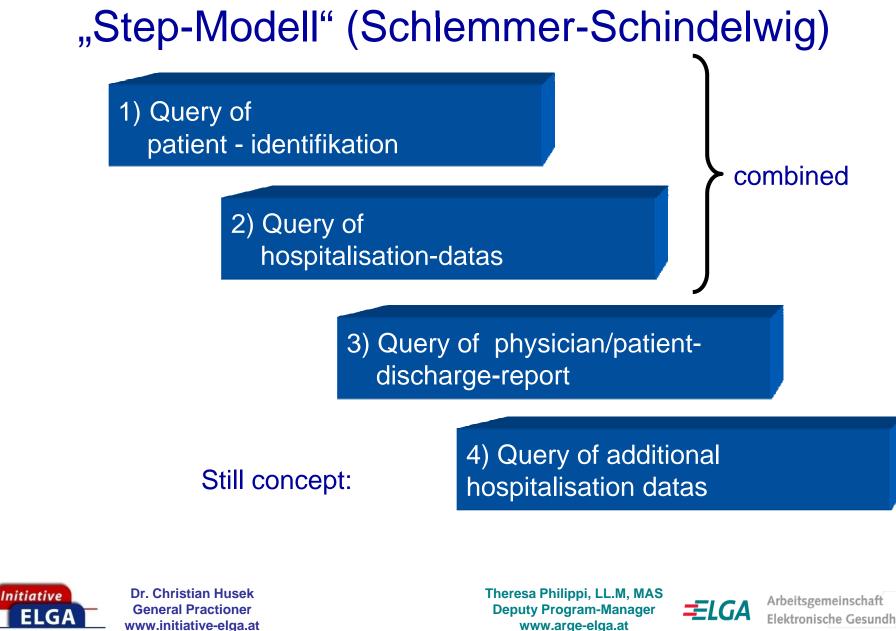
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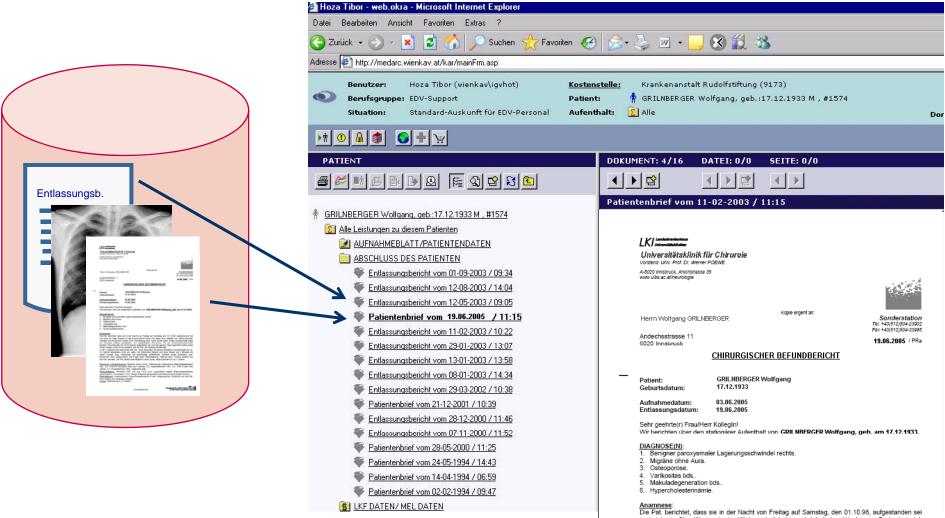






Elektronische Gesundheitsakte

### Hospital - Database



Die Pat. berichtet, dass sie in der Nacht von Freitag auf Samstag, den 01.10.98, aufgestanden sei und sich ein Glas Wasser in der Küche geholt habe und dabei eine Attacke von Drehschwindel, Übelkeit und Erbrechen sowie einer Fallneigung nach vorne erfebt habe. Diese Symptomatik habe



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## Idea of ELGA

(Elektronische Gesundheitsakte) = Austria's EHR

- "pull-system" !
- Data are available independently of place and time (costsaving) at the place of treatment for all authorized persons according to the tasks and needs of these persons and in compliance with data protection rules.
- ELGA contains **relevant** multimedia-based and health related data and information referring to a precisely identified person.
- Data und information **originate** from
  - different health service providers and
  - from the patient himself/herself

and are **stored** in one or several **different information systems** (**virtual health record**).



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#### **Connecting:**

## all Health Service Providers in Austria

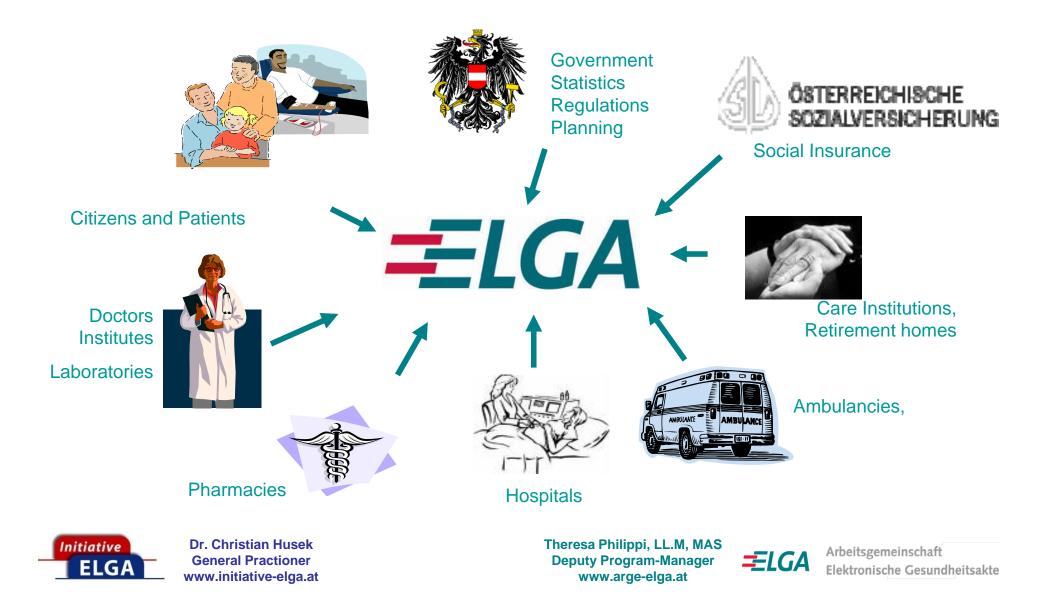
- ~ 35.000 Doctors
- ~ 4.500 Dentists
- ~ 5.100 Pharmacists
- ~ 1.200 Pharmacies
- 269 Hospitals
- ~ 755 Independent ambulatory
- ? Nursing Homes with medical supervision
- ~ 60.000 nurses
- ~ 1.700 midwifes
- ~ 5.129 Health Psychologists
- ~ 5.149 Clinical Psychologies



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### Users of ELGA



## The benefits of ELGA for patients

- More information about your own health data
- More and better quality information
- Faster access to data
- No delays earlier start of therapy
- Redundant checks to be reduced
- Better and safer data management
- Better quality of communication
- Better and safer data management
- "Full picture" all relevant data available
- Driver towards more patient orientation
- Decentralised creation, storage and retrieval of data
- Competitive market for suppliers of technology



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## Improved continuity of care

can be defined as ensuring a :

#### seamless pathway for the patients care

It is partly dependant on the **coordination between health professionals** and it is an essential criterion of quality

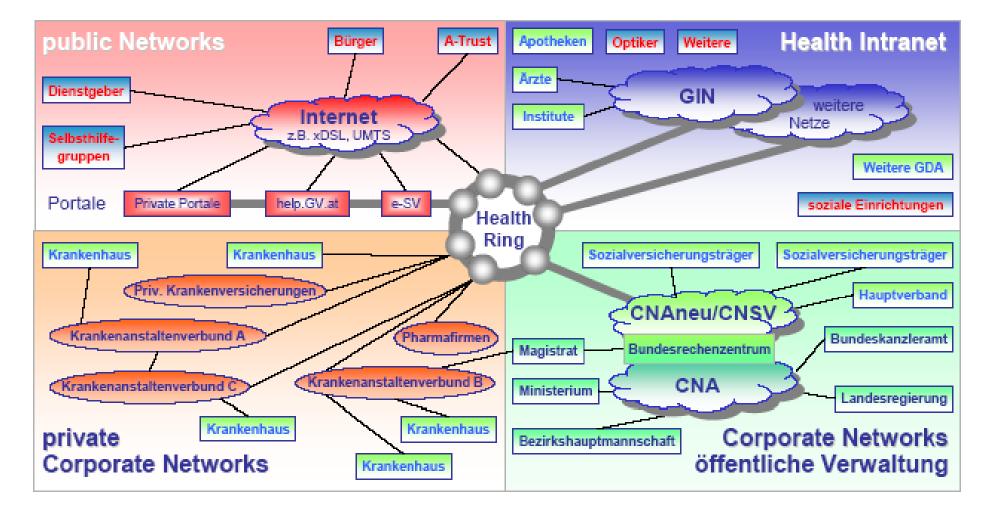
- between hospitals,
- inside/outside hospitals;
- inside hospitals;
- between health professionals of primary care sector;
- health professionals in a cross border context;
- between health professionals and patients.



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#### Health Networks in Austria





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## The Austrian e-card System



- The Main Association of Austrian Social Security Institutions was entrusted by law with the introduction and operation of the "Electronic Administration System". The aim of this is to support administrative processes between insured people, employers, doctors and hospitals as well as Social Security Institutions.
- The first step was the replacement of health insurance vouchers by a smart card however the Austrian e-card is now much more than only a online health insurance card.



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## The Austrian e-card System



- The e-card system provides a secure broadband connection within the health sector and the infrastructure for a number of future projects ("rail system").
- In addition, the Austrian e-card contains **signature applications** and is ready to be used as a **citizen card**.



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### Task Force Electronic Health Record

Arbeitsgemeinschaft Elektronische Gesundheitsakte - ARGE ELGA

- Decision of Federal Health Commission from July 2006 concerning establishment of Arge ELGA and financial remuneration
- Working basis of **Arge ELGA** is an agreement between
  - Federal Government
  - Provinces and
  - Social Insurance Institutions
- Since September 2006 ARGE ELGA is acting operationally Location: A-1020 Vienna, Schiffamtsgasse 15



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### **Initial Situation**





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### Preconditions for ELGA

- participation in the "making-of" ELGA
- Close cooperation with all groups
  - Federal Government
  - Provinces
  - Social Insurance Institutions
  - stakeholder
  - Health Service Provider
  - experts (e-Health, architecture; privacy law, data security, ...)

- ...

 Data protection and privacy is indispensable for the success of ELGA

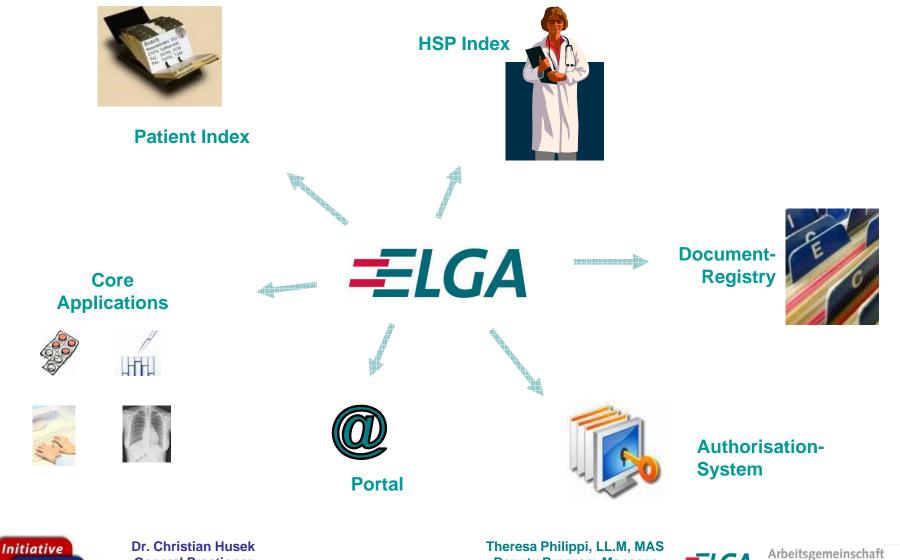


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## **ELGA Projects**



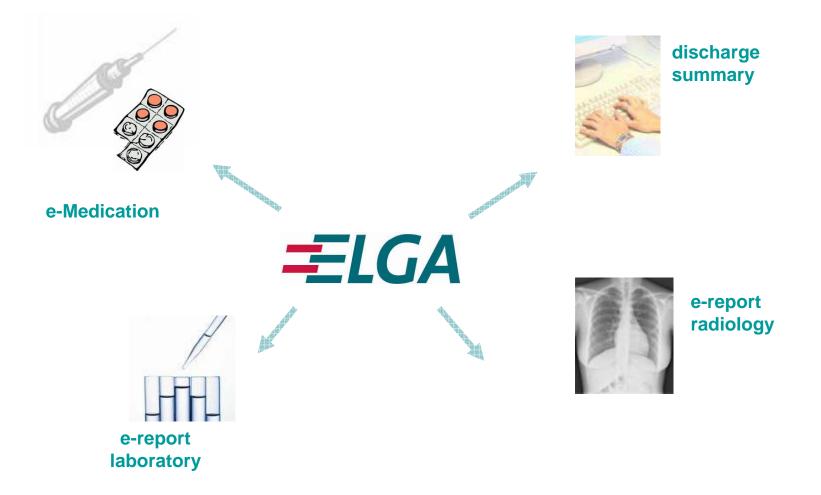
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**ELG** 

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### **Core Applications**

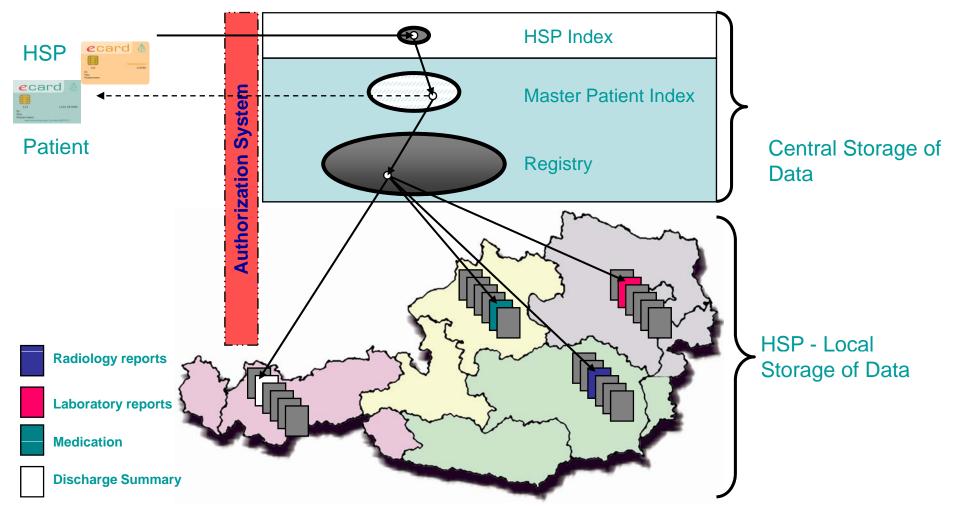




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### **ELGA View on Data**





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## Interoperability – Standards and Catalogs

- Technical (syntactical) interoperability
- Content wise (**semantical**) interoperability
- Requirement:
  Assort

Assortment of international standards

- •
- Standards rise quality and reduce costs!
- Standards promote competition!



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### **ELGA:** costs

 Propesed: 30 Millions of Euro`s for the initial concept and applications

real costs still unknown

 for comparision: similar systems in Germany: estimated costs up to 7 billions of Euro's England: 20 Billions of Euro's already invested in refurbishing NHS – datasystems, estimated 10 more billions needed



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## Main messages about the making of ELGA

- ELGA is still "in the making"
- The planning of ELGA will allow for a maximum of participation
- doctors, patient groups and privacy experts are the main stakeholders



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# Thank you for your attention!

# Have an interesting stay!

# **Enjoy Austria!**



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