



eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA

ORGANISED BY

Ministry of Health
of the Republic of Latvia



THE STYRIAN PERSONAL eXray-RECORD

Improving patient empowerment and safety via eHealth technology

Follow us  @eHealthWeekEU #eHW15

Overview

- Acceptance and usage
- Cumulative exposure
- Information service



PALANTE EU-project

PAtients Leading and mANaging
their healThcare through EHealth

PALANTE

- PAtient Leading and mANaging their healThcare through Ehealth
 - 21 partners / 7 pilots
 - 2011 - 2015
- Main objective: Patient empowerment via eHealth



The PALANTE project has received funding from the European Union's ICT Policy Support Programme as part of the Competitiveness and Innovation Framework Programme under GA No. 297260



11 - 13 MAY 2015
RIGA, LATVIA

Follow us  @eHealthWeekEU #eHW15

PALANTE Pilot 5

- PALANTE Pilot 5: Austrian eXray-Record
 - Integrated into an existing patient portal
 - Styrian Hospital Cooperation KAGes
- Released to the public: October 2014
- As of March 2015
 - 1,400 accesses via the hospital information system
 - 270 accesses from the patient's home





The Styrian Personal eXray-Record

ACCEPTANCE AND USAGE

eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA

ORGANISED BY

Ministry of Health
of the Republic of Latvia



Follow us  @eHealthWeekEU #eHW15

Expectations

- Patients
 - Available cumulative exposure
 - Reduction of unnecessary examinations
 - Improved communication with professionals
- Professionals
 - Quality assurance and improvement
 - Open discussion with patients
 - Reduce radiation anxiety

Evaluation April 2015

- Users are IT and health-savvy
 - higher education
 - young user group
 - health occupation
- User are empowered
 - responsible for own health
 - knew exposures of **single** examinations
 - are now able to track **cumulative** exposure with the eXray-Record



The Styrian Personal eXray-Record

CUMULATIVE EXPOSURE

eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA

ORGANISED BY

Ministry of Health
of the Republic of Latvia



Follow us  @eHealthWeekEU #eHW15

Cumulative exposure

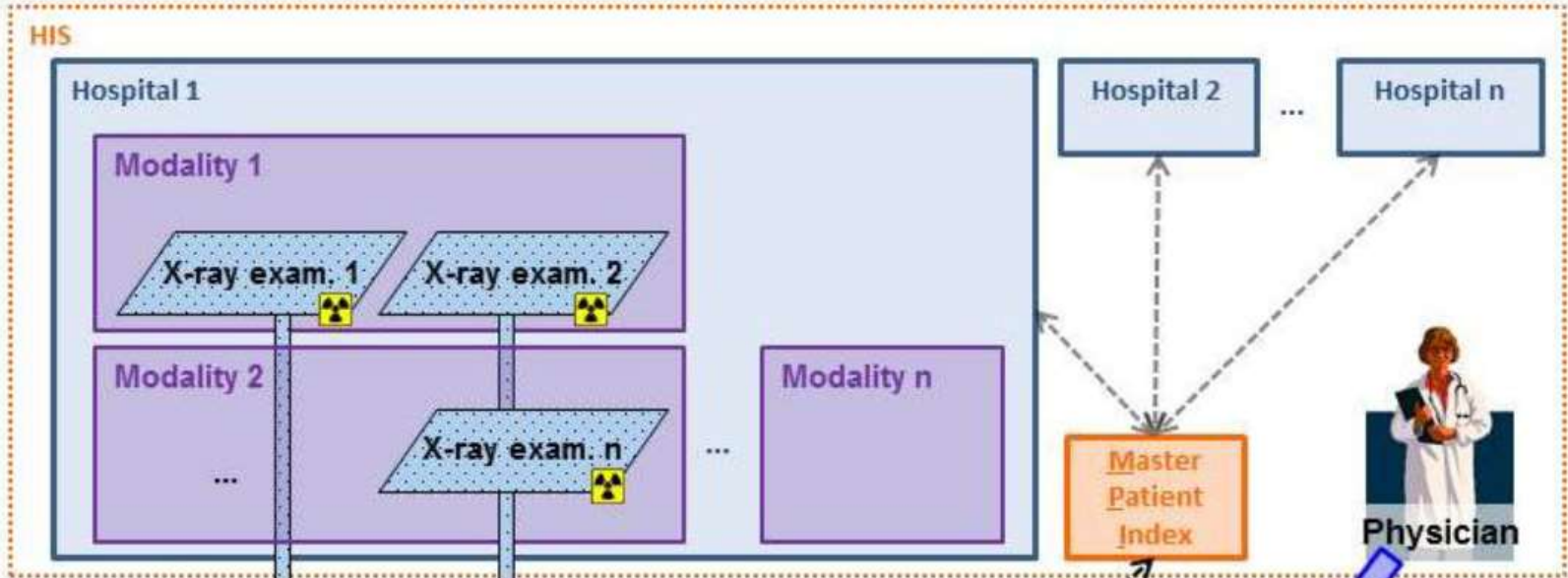
- Data extraction
 - DICOM / PACS / CDA
- Data processing
- Representation
- Integration

ELECTRONIC HEALTH RECORD

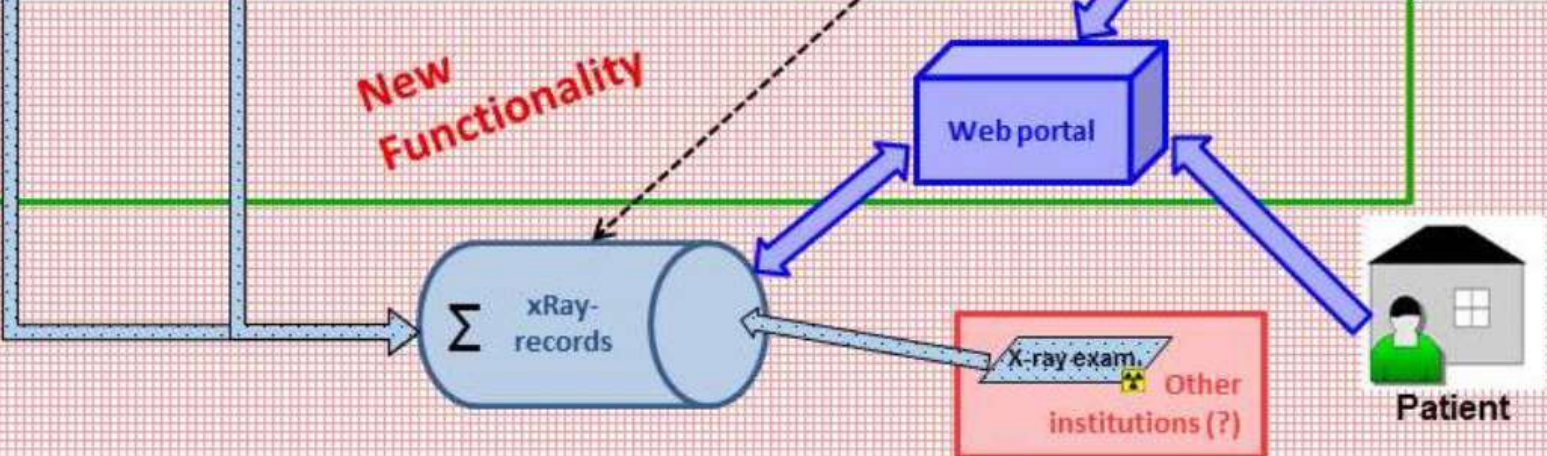


Data extraction and processing

KAGes



New Functionality



Data Representation

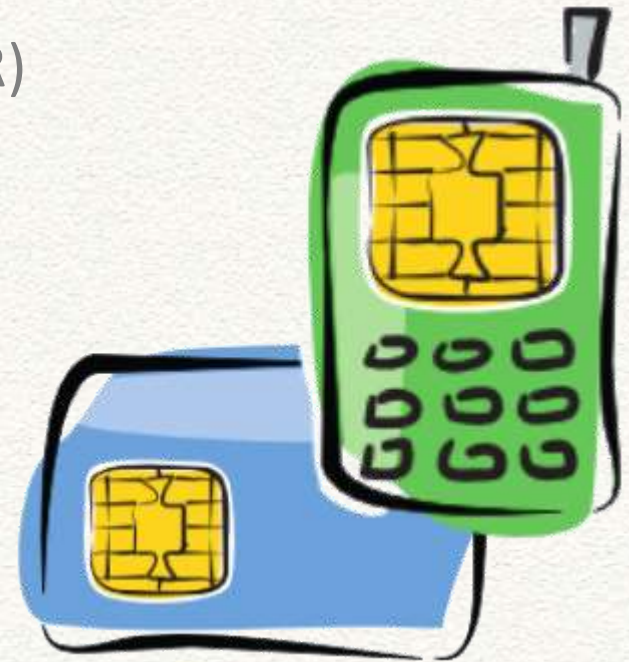
- Normalise to a specific examination
- Compare to other radiation types
- Compare to risk of mortal cancer
- Compare to natural radiation



Integration



- Uses the Austrian Citizen Card for authentication
 - High level of safety
 - Access to ELGA's data (Austrian EHR)
 - Smaller target group





The Styrian Personal eXray-Record

INFORMATION SERVICE

eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA

ORGANISED BY

Ministry of Health
of the Republic of Latvia



Follow us  @eHealthWeekEU #eHW15

Information service

- Reducing the uncertainty
 - Procedures
 - Devices
 - Exposure units

Stieiermärkische
Krankenanstaltengesellschaft
m.B.H.

Zugang für Patienten

Medizin-Portal der KAGes

Sie sind hier: Patienten-Portal / Meine Anwendungen / eRöntgenpass / Strahlenexposition

Natürliche Strahlenexposition

In dieser Grafik sehen Sie wie sich die Summe der natürlichen Strahlenexposition (effektive Dosis), der Sie im Laufe ihres Lebens ausgesetzt waren, zusammensetzt. Die Werte werden einerseits in Prozent und andererseits in Milli-Sievert angegeben.

Kosmische Strahlung
(z.B. aufgrund der Sonne)

35 %
42,00 mSv

Terrestrische Strahlung
(z.B. aufgrund des Zerfalls natürlicher Radionuklide in Böden und Gesteinen der Erdkruste)

65 %
78,00 mSv

Aktuelle Werte	
Name:	Eva Musterfrau
Alter:	47 Jahre
Natürliche Strahlenbelastung:	120,0 mSv
Aktuelles Datum:	08.04.2015

[Zurück zur Übersicht](#)

• Die natürliche Strahlenexposition wird auf Basis Ihres Lebensalters und der durchschnittlichen jährlichen natürlichen Strahlenexposition in Österreich von 2,9 mSv (Quelle: AGES; Österreichische Agentur für Gesundheit und Ernährungssicherheit) errechnet.

Information service



<https://www.youtube.com/watch?v=oMDTu7jegTg>



eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA



THANK YOU

eHealth
week

11 - 13 MAY 2015
RIGA, LATVIA

ORGANISED BY

Ministry of Health
of the Republic of Latvia



Philipp Neurohr, BSc, MSc
Health Care Engineer / Researcher
University of Applied Sciences
JOANNEUM Graz / Austria
philipp.neurohr@fh-joanneum.at

Follow us  @eHealthWeekEU #eHW15