

**Siemens Healthcare.**

A photograph of a female doctor with glasses and a white lab coat, smiling warmly at a young girl. The girl is wearing a white hospital gown with a small pattern and is looking down at something in her hands. They are in a hospital room with a window and a plant in the background.

**e-Health in practice:  
Experiences with cross sector cooperation  
between health care providers based on  
Soarian Integrated Care**

**Werner Striebel, Siemens AG Healthcare**

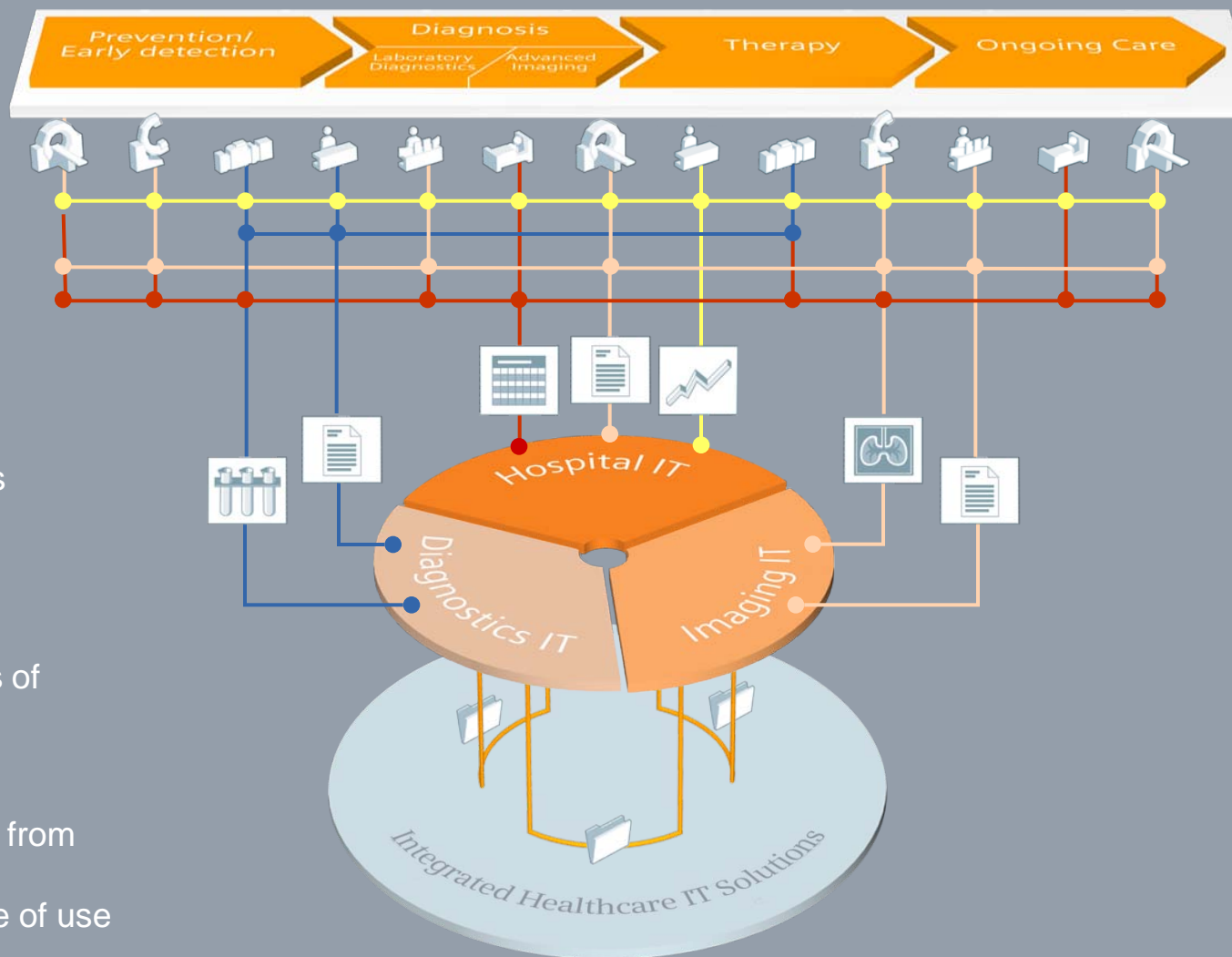
## Agenda



- Vision
- eHealth Solution
- Projects
- Lessons learned

# Vision Becomes Reality: Optimization within Hospital is Reaching a “Local” Limit

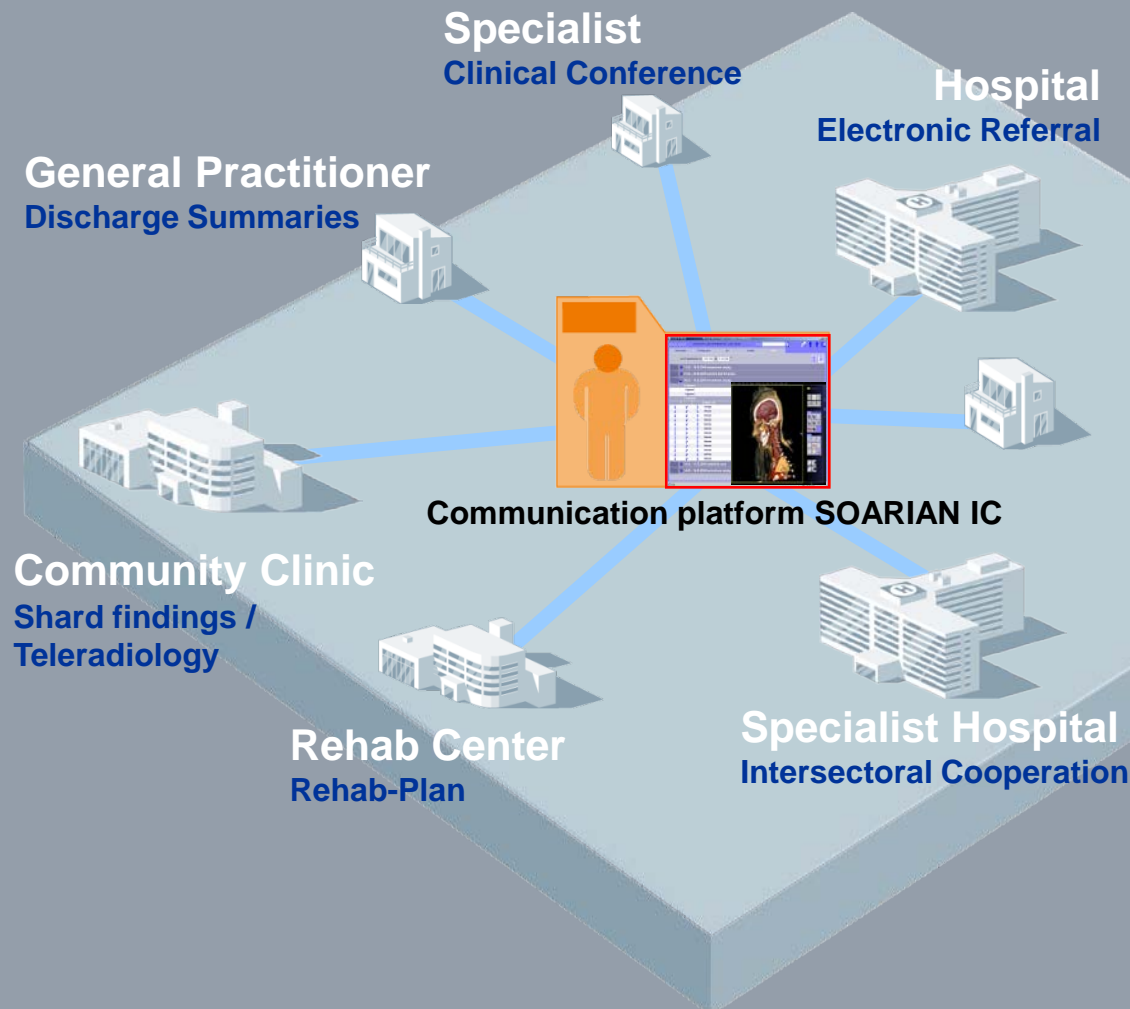
- **Continuum of care**  
Patients follow an evidence-based care path
- **People and processes**  
Cross-departmental teams can access the EHR at any point of care
- **Software Solutions**  
Clinical documentation, modalities, and processes generate excessive amounts of data
- **Data management**  
The three areas of Siemens Healthcare IT manage and coordinate the vast amounts of data
- **Integration of information**  
Siemens Healthcare IT incorporates the information from all aspects of care and assimilates the data for ease of use



## Next Step: Cross Institutional Collaboration

- Care collaboration
- Managed care
- Resource allocation
- Quality management
- Standard of Care
- Health care value chain

= **Improved  
quality of care  
and lower cost**





# Typical Functionalities Needed for Health Information Exchanges (HIE)



Electronic Health Record



Task list and Notification



Consent-Management



Audit Trail / Reporting



Master Patient Index (MPI)



Electronic Referral



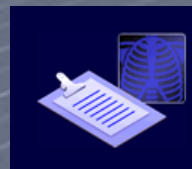
Forms



Teleradiology



Clinical conferences



Communication / Consultation

Soarian®

# Projects

## WebEPA\* for RHÖN-KLINIKUM AG, Germany

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### Key Figures Rhön-Klinikum AG

- Private Hospital Chain
- Second biggest Private Hospital Chain in Germany
- 46 Hospitals
- 2 University Hospitals
- 38 outpatient medical centers
- 16.000 beds
- 2.000.000 patients
- 38.000 employees
- 2.55 BLN Euro turnover
- Listed on the German stock exchange



\* WebEPA: Web based, electronic Health Record

# Projects

## WebEPA\* for RHÖN-KLINIKUM AG, Germany



### Goal

- Increase efficiency in cross-sector care and interoperability between care providers

### Realization

- Connect 46 hospitals, outpatient medical centers & practitioners with access to clinical documents (PDF, DICOM, JPG, CDA...)
- WebEPA will integrate 130 information systems >1,000,000 patients will be registered and cleared with integrated MPI per year

### Benefits

- Increased quality of care & cost reduction
- Knowledge Networking
- Helps avoid duplicate diagnostic tests
- Availability of medical special knowledge in remote regions
- Fast and reliable patient care
- Accelerates medical processes



# Projects

## National Health Service (NHS), Scotland

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### Goal

- Implementation of a national public health initiative (diabetic retinopathy screening program) supported by an IT infrastructure to avoid blindness caused by diabetes

### Realization

- Define processes and a quality program that can be applied to geographical areas with different resource levels
- Implement an integrated, IT-supported diabetic retinopathy management program\* at 73 locations and 5 regional grading centers
- About 230,000 patients and 500 users registered (as of end of June 2008)

### Benefit

- Fewer losses of sight by diabetes



### Overview of the diabetic retinopathy screening process in Scotland





# Projects

## University Hospital Erlangen, Germany



### Participants:

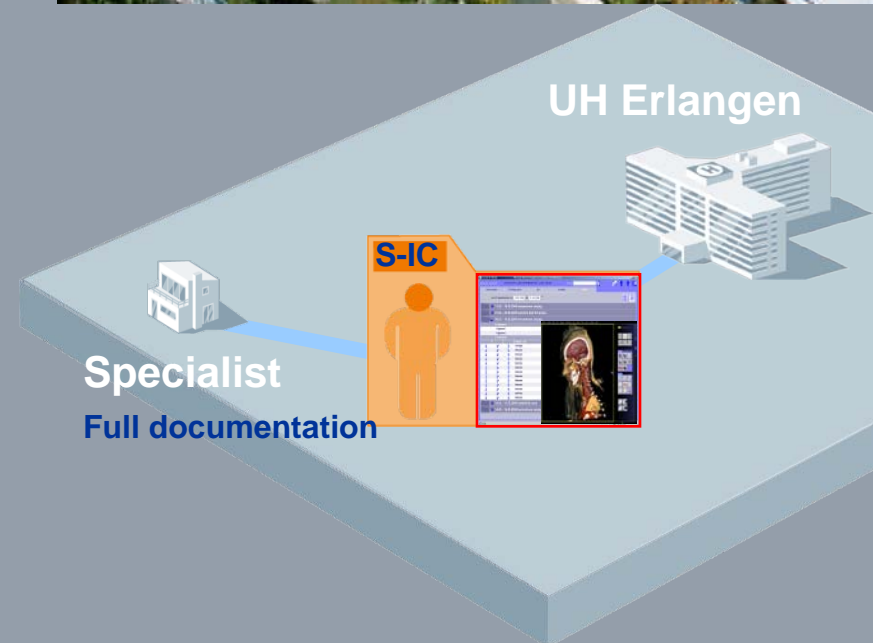
- Dept. for children's cardiology
- 15 specialists for children's cardiology in northern Bavaria
- 20 hospitals in northern Bavaria
- Ca. 400 patients/year

### Subject:

- Share all relevant patient-related data from UH Erlangen with involved partners
- Provide specialist consultation for GPs
- Share GP's findings with UH Erlangen

### Benefits

- Drastic reduction for re-admissions
- Drastic reduction in support calls from GPs
- Better quality of treatment because of more information



## Lessons learned

### When is eHealth most beneficial?

- There are already common processes
  - Second opinion
  - Clinical conferences
  - Managed Care
  - Regional collaboration
- Relevant information is digitally available
- Incentive to use a eHealth solution

### What are the most important challenges?

- Adaptation of the existing processes to the IT
- Change organization when necessary
- Convincing medical staff of the advantages of new eHealth functionalities
- Of course interfaces!



**Thank you for your attention!**

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