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A photograph of a female doctor with glasses and a white lab coat, smiling as she interacts with a young girl. The girl is wearing a pink polka-dot shirt and is holding a thin, green, wireframe object. The doctor is also holding the object, and they appear to be examining it together. The background shows a modern, brightly lit interior with a metal railing and a potted plant.

**e-Health in practice:
Experiences and results from regional
projects in Europe**

Dr. Stefan Resch, Siemens AG Healthcare

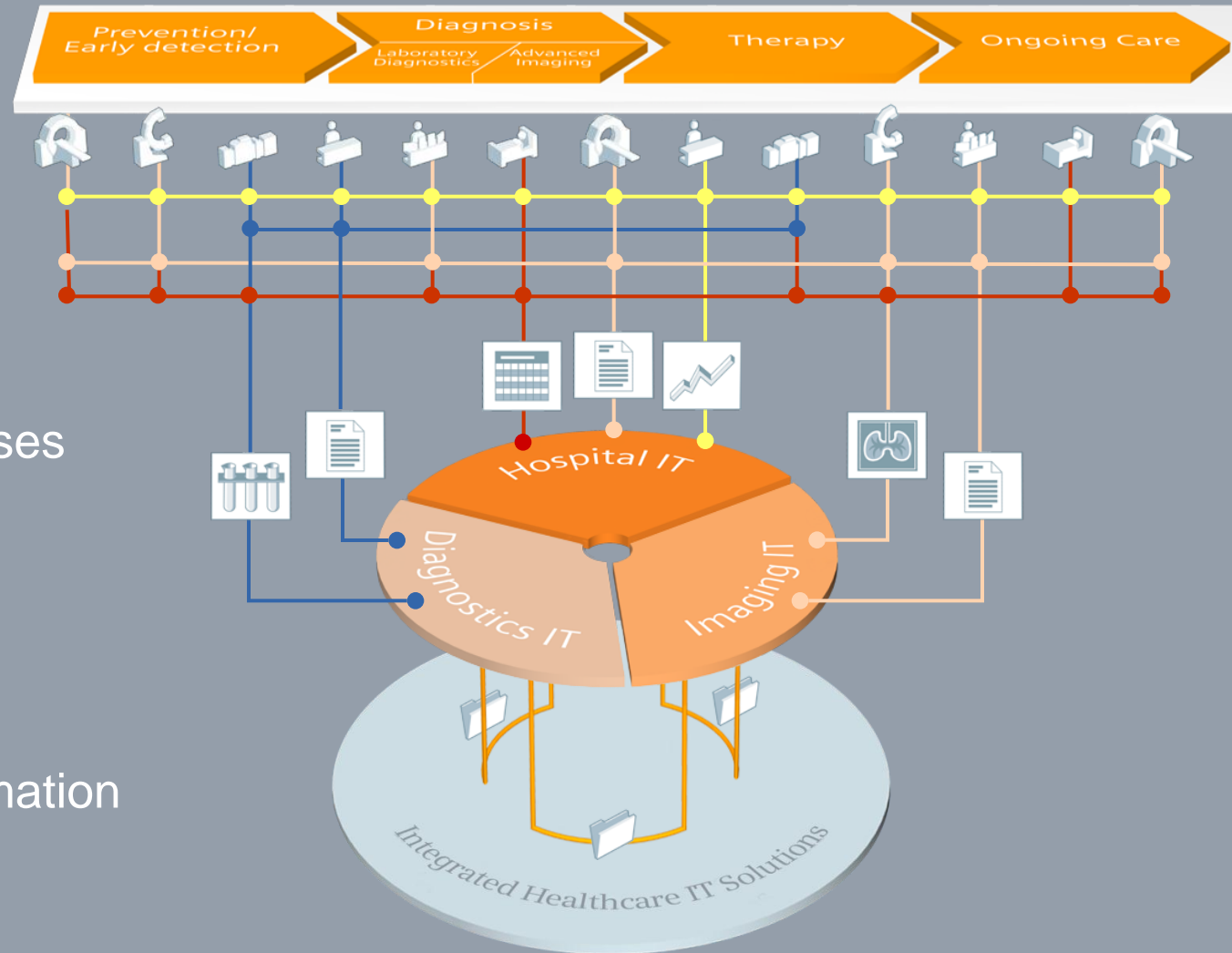
Agenda



- Vision
- eHealth Solution
- Projects
- Lessons learned

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

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- Continuum of care
- People and processes
- Software Solutions
- Data management
- Integration of information

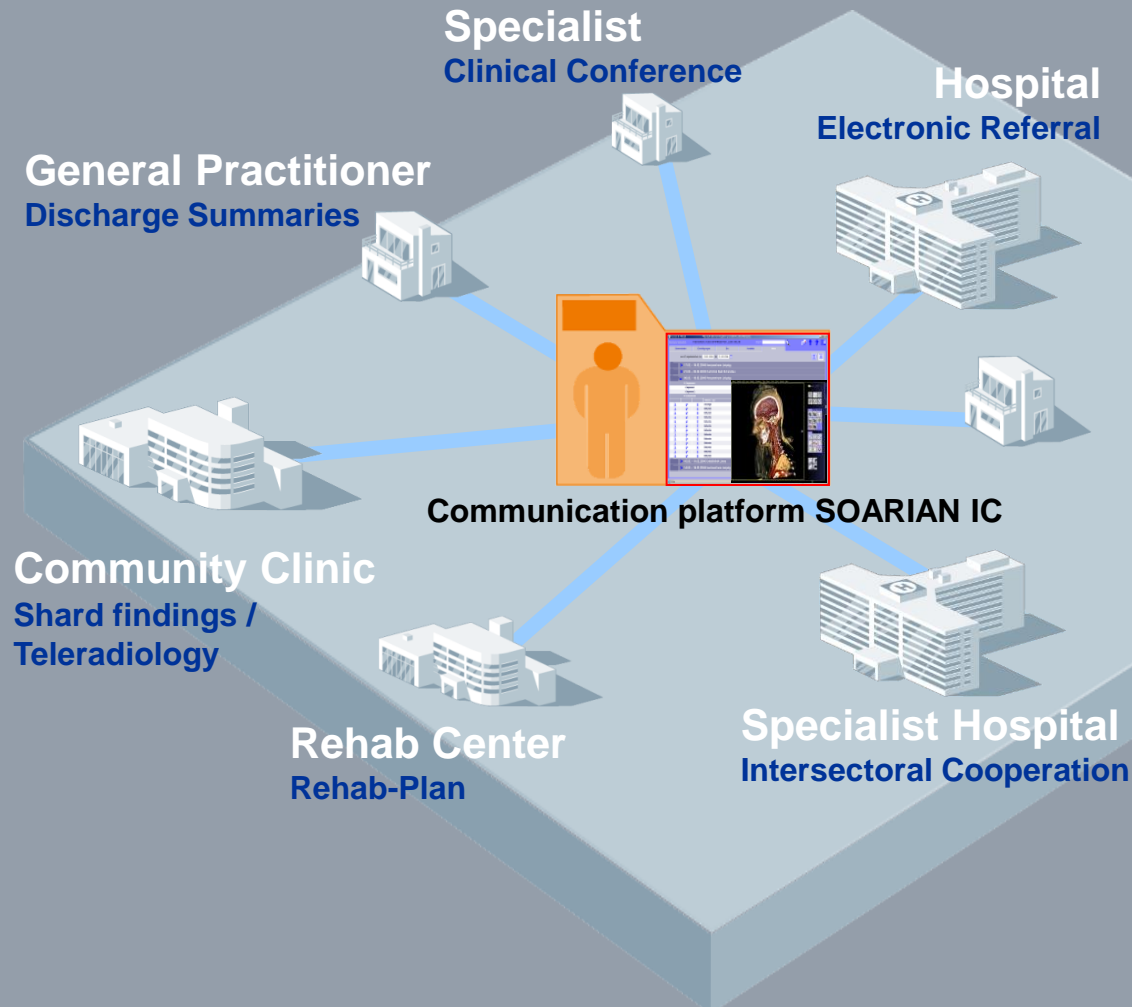
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Next Step: Cross Institutional Communication and Collaboration

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- Care collaboration
- Managed care
- Resources 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



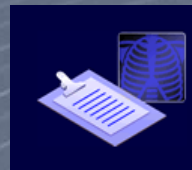
Forms



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 Billion 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

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



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*WebEPA: Web based, electronic Health Record

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

- Less losses of sight by diabetes



Overview of the diabetic retinopathy screening process in Scotland



Projects

University Hospital Erlangen, Germany



Participants:

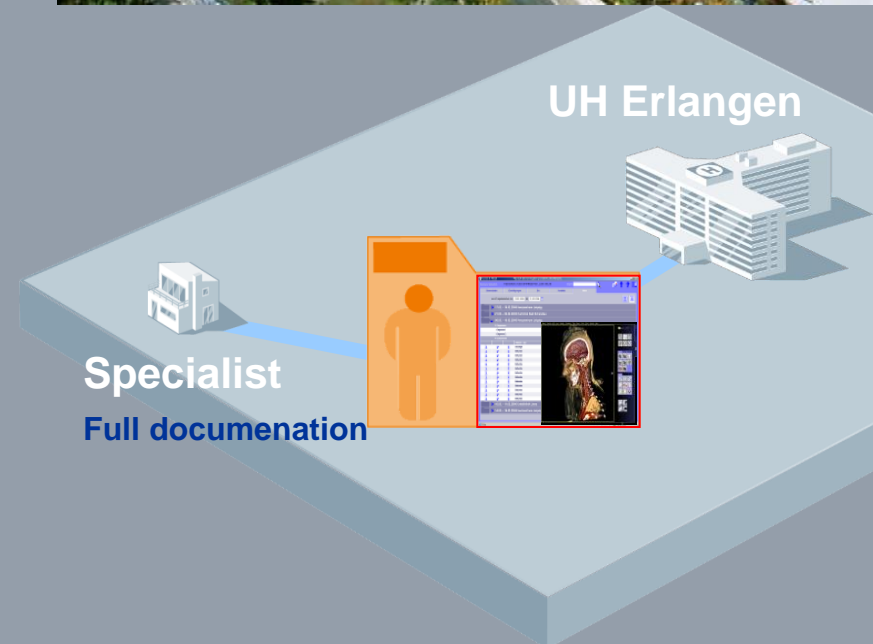
- Dept. for children's cardiology
- 15 specialists for children's cardiology in northern Bavaria
- 20 hospitals in northern Bavaria
- Ca. 400 patients/year

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: eHealth Is Happening Today !

- **There Is No Generic eHealth Solution**
 - Benefits Are Created within the Individual Care Processes
 - Ideally, these Care Processes Are Defined Already
- **eHealth Solutions Can Actively Support Clinical Processes Through:**
 - Second opinion
 - Clinical conferences
 - Managed Care
 - Regional collaboration
- **Change Management Is Crucial for the Success of eHealth Projects**
- **eHealth Will only be Successful If Tightly Integrated into Existing IT Infrastructure**



Thank you for your attention!

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Lessons learned

When is eHealth most beneficial?

- There are already common processes
 - Second opinion
 - Clinical conferences
 - Managed Care
 - Regional collaboration
- Relevant information are digital 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!

