

Integrating the healthcare enterprise

SUCCESS STORY IN THE NETHERLANDS

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Agenda



- Introduction
- Information Sharing (IHE XDS)
- Success Story
- Questions

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INTRODUCTION

Introduction



- Founded in 2006
- HQ in Zeist, The Netherlands
- Sales/ Support office in Toronto, Canada
- IHE XDS market leader
- Active role in development of (new) IHE profiles



Introduction



*Forcare enables healthcare providers
to share medical information from existing
information systems
from any location, specialty or vendor.*

Introduction



Solutions for **standards-based** Interoperability

- ❑ Health Information Exchange (HIE)
- ❑ Referrals Management
- ❑ Enterprise Clinical Document Management

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CLINICAL DOCUMENTS
CONNECT. SHARE. MANAGE.

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the Healthcare
Enterprise



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INFORMATION SHARING

Health Information Exchange



- “A network of connected clinical information systems, sharing clinical information”
- Characteristics
 - Multiple system interconnected
 - Sharing clinical information to support cross-site clinical workflows
 - Bi-directional communication
- Benefits
 - Improving quality of care by access to “outside” information
 - Improving efficiency and providing cost savings
 - Securing relationships with your clinical partners

Essential ingredients



- Shared network infrastructure
- Patient Identity
- User authentication & authorization
- Patient Care Management
- Ability to search and retrieve clinical information
- Accessing & Security

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CROSS-ENTERPRISE DOCUMENT SHARING (XDS)

IHE XDS



- XDS is an ***infrastructure*** allowing access and sharing clinical information
- XDS is ***document*** oriented
- XDS is an ***agreement*** between healthcare organizations how to share information
- XDS is ***patient*** focused
- XDS is ***standards-based***



IHE XDS



So, you'd like to help your patient the best you can.

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SUCCESS STORY

Background Project

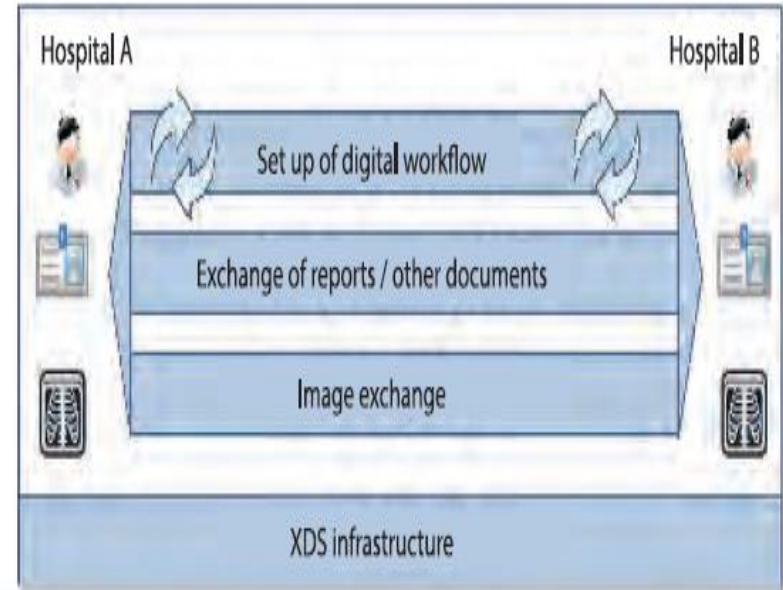
- In the Northern Netherlands several existing networks for exchange of medical data.
- Wish to achieve a regional IT infrastructure for exchange of medical data.
- Started study: how to get a central infrastructure together with a detailed business case.



Background Project



- Result: 5 yr Vision report
- The stages consist of:
 - Setting up central XDS infrastructure
 - Integrating and phasing out of existing exchange networks
 - Replacing the flow of CD/DVD
 - Continuing towards exchange reports and XDW
 - Regional Viewer



Goal Project



- Centrally housed standards based XDS Infrastructure for the region.
- Deployment on larger scale: not only exchange images but also reports, requests, workflow (XDW).
- Aim is to support healthcare professionals and through this improving healthcare.

Results Project



- Generic regional XDS network covering Northern Netherlands (11 Hospitals).
- Can be connected (via XCA) to:
 - Infrastructures of other regions,
 - Dedicated national networks (Mammo screening)

Implemented IHE Profiles



IHE Profile		Used for
IHE XDS	Cross-Enterprise Document Sharing	Infrastructure
XDS-I, -MS, -SD, -Lab	XDS Content Profiles (17 profiles supported)	Imaging, PCC, Lab, etc.
ATNA	Audit Trail & Node Authentication	Security – Logging
XUA	Cross-Enterprise User Attribution	Role-based access control
BPPC	Basic Patient Privacy Consent	Patient Consent
XCA	Cross-Community Access	Connecting HIEs
MPQ	Multiple Patient Query	Public Health Survey
PWP	Personal White Pages	Provider Query
DSUB	Document Subscribe	Broadcast notification
PIX/PDQ	Patient Information Cross-Reference / Patient Demographic Queries	Master Patient Index lookup Patient demographics lookup
XDW / x-BeR	Cross-enterprise Document Workflow	Support referral patterns

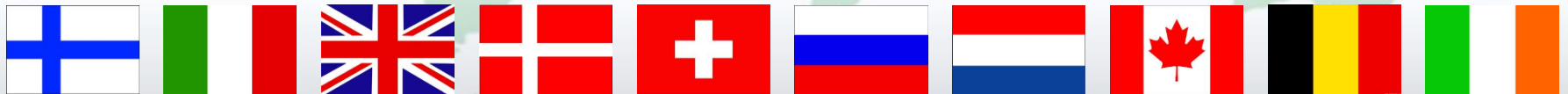
**STANDARDS-BASED
INTEROPERABILITY**

Projects



-  Frisian Cardiology HIE
-  Dutch National Mammography Exchange
-  NI-PACS Radiology Exchange
-  NIMIS National Image Exchange Ireland
-  Amsterdam Radiology HIE
-  HovedStaden Radiology Exchange
-  Amphia/BVI Exchange
-  Flemish health information exchange
-  NHS Sussex and Surrey Network
-  Alberta Health Services XDS network

-  Radiotherapy HIE Rotterdam
-  University of Wisconsin HIE
-  Cardiology HIE Groningen
-  Taormina Cardiology Exchange
-  Moscow State University
-  Hospital District of Helsinki and Uusimaa
-  NHS Hampshire Network
-  Care network East Netherlands
-  eHealth Ontario
-  NHS Gloucestershire



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QUESTIONS?

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