

**Erasmus MC**

Universitair Medisch Centrum Rotterdam



# Erasmus MC

Creating value in Healthcare

Erik Zwartter, project manager

# Introductie

## Project manager

- Process optimalisation (LEAN)
- Software-implementation
- Innovation (AIDC)
- Patient safety
- Traceability



# Erasmus MC

10.262 (8417 fte)

## Capacity of patient care

1221 beds

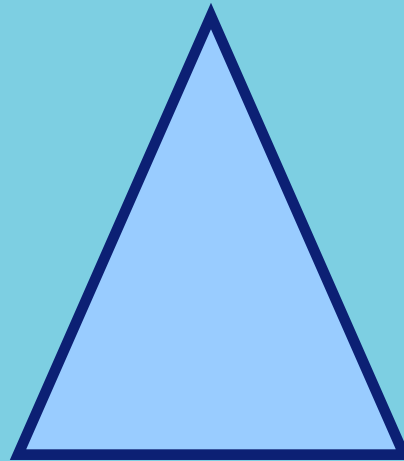
## Capacity of patient care

7,9

Average patient days

# Strategic triangle

Development new hospital



Organisational change

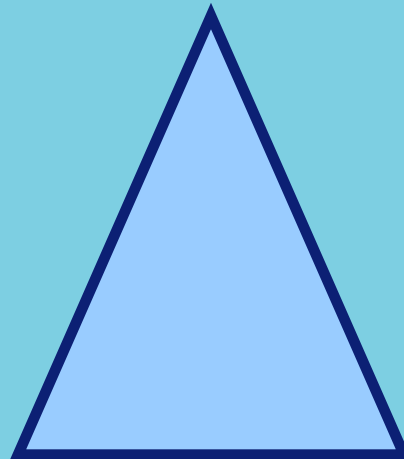
ICT innovation (EPR)

# Erasmus MC is building



# Strategic triangle

Development new hospital

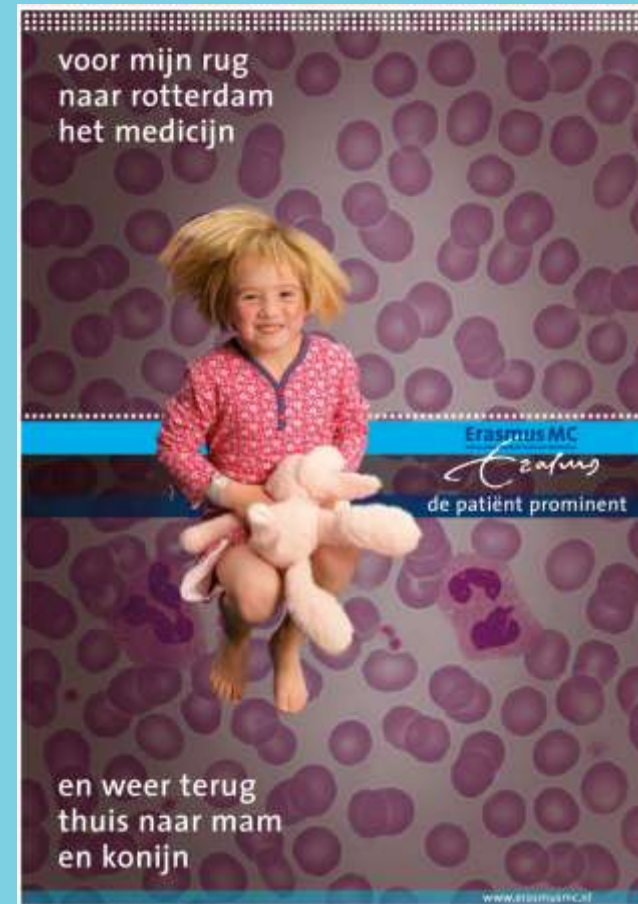


Organisational change

ICT innovation (EPR)

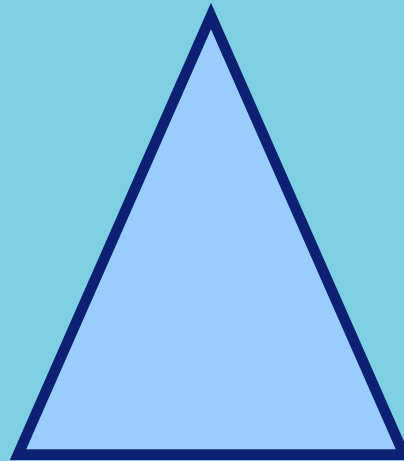
## Thematic approach

- Brain and senses
- Oncology
- Defense mechanisms, metabolism and aging
- Emergency
- Circulation (heart and lung diseases)
- Growth, development



# Strategic triangle

Development new hospital



Organisational change

ICT innovation (EPR)

## Perspective 2011

- ICT Care innovation:
  - Implementation of new EPR
  - Migration and phasing of HIS
  - Old EPD: transition policy in transition period
  - Laboratory logistics systems and medication logistics
- ERP Oracle eBS (Fin, Purchase, Logistics, HRM)
- Recordmanagement: value creation from data
- IAM: implementation Identity & Access Management
- Roadmap ICT support of Research & Education

## Key figures ICT

€ 25 mln

## Key figures ICT

301 fte

## Key figures ICT

9500  
workplaces

# History of standardization

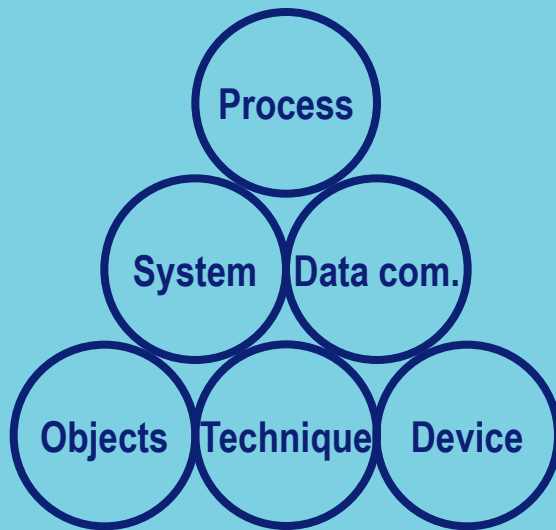
*Old Dutch is a collection of city and regional dialects (9<sup>th</sup> century)*

*Absence of a single language.*

*In the 12<sup>th</sup> century it was needed for book and literary and official texts and documents*



# Automatic identification



- What method of working?
- Why are we doing this?
- What interface technique?
- What (patients, material e.g.)
- How (manual, RFID, barcode)
- Which (scanner, PDA e.g.)



# Medication verification

L. Hanff, J. Hazelzet, I. Wouts, E. Dekker, E. Zwarter, Erasmus MC, Rotterdam

- Project on ICU Children & Pharmacy
- Reducing medication-errors

## Issues

- B|Braun IV pumps, PICIS PDMS system.
- Datastructure
- Different material flows



# Blood transfusion

M.R. van Bohemen, J.G. Boonstra, Y.B. de Rijke, P.A.W. te Boekhorst, E. Zwarter, Erasmus MC, Rotterdam

- Project Hematology lab and clinic, OR and ICU
- Reducing failure modes
- Tracking and tracing bloodproducts

## Issues:

- wristbands,
- labels,
- device.



# Reservation on the lab

The screenshot shows the 'LabTrain Transfusie Lite' application window. The title bar reads 'LabTrain Transfusie Lite'. The main window has a dark blue header with the application name and a logo. Below the header is a sidebar with navigation options: 'Reserveren', 'Uitgifte', 'Overdracht', 'Toediening', and 'Retour'. The main content area is titled 'Reserveren' and contains four barcode input fields, each with a green checkmark or a red X. The first three fields are filled with values and have green checkmarks. The fourth field is empty and has a red X. At the bottom left, there is a 'Verbinding met server' status indicator with a green checkmark. At the bottom center, there is a large red circle.

Barcode type	Value	Status
Barcode werknemerspas	084840	✓
Barcode eenheidsnummer bloedproduct	N0011 07 198530	✓
Barcode productcode bloedproduct	N00210A0	✓
Barcode etiket bevestigd aan bloedproduct	3030090 N0018 09 211713 N02880A0	✗

# Issue bloodproducts from the lab

LabTrain Transfusie Lite

**LabTrain Transfusie Lite**

**Uitgifte**

Barcode uitgevend personeel

084840 ✓

Barcode etiket roze doorslag aanvraagformulier

3030090 ✓

Barcode etiket bevestigt aan bloedproduct

3030090 N0018 09 **211713** N02880A0 ✓

Barcode eenheidsnummer bloedproduct:

Barcode productcode:

Scan barcode ontvangend personeel voor akkoord van levering

Verbinding met server ✓

1

# Administration of bloodproducts



# Record implants on OR

G. Kazemier, N. Nathan, M. van Houdenhoven, E. Zwarter, Erasmus MC, Rotterdam

- ✓ No more sticking labels
- ✓ paperless administration
- ✓ Costs are transparent per patient
- ✓ Consumption is known
- ✓ Recall proof

Near future

- ordering
- replenishment

Vanaf 5 oktober in dit OK complex



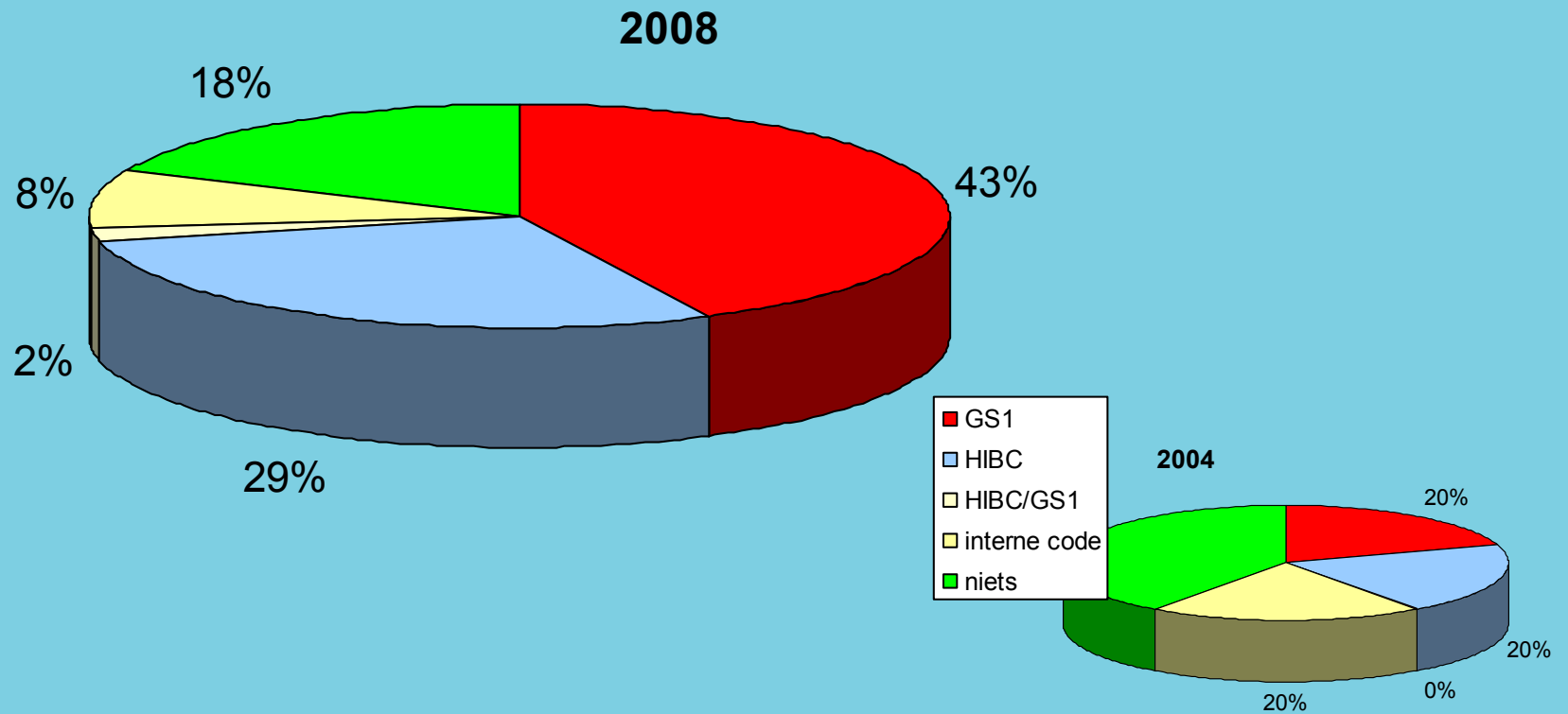
Het is pas bekend als je implantaten scant

LICENCE TO SCAN!



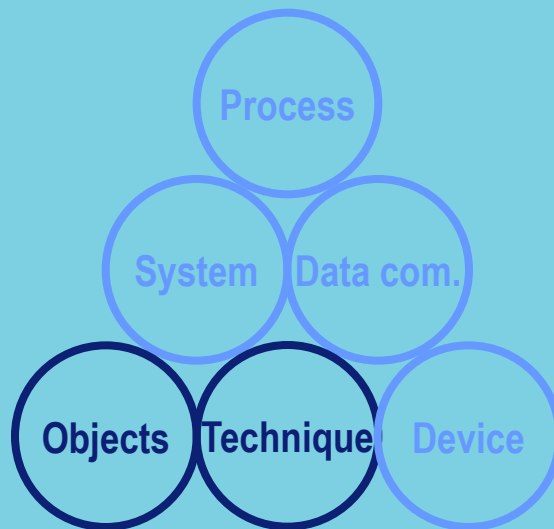
Uitgifte: Cluster 17  
Vragen: e.zwarter@erasmusmc.nl

# GS1 compliance



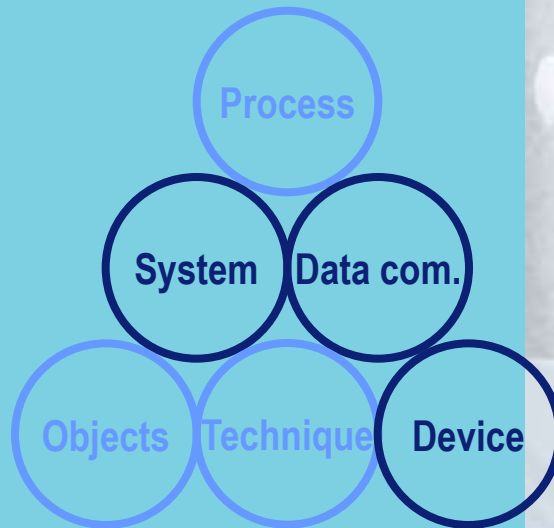
# Challenges

- GS1 compliance of suppliers
- GS1 compliance of solution-providers



# Challenges

- GS1 compliance of suppliers
- GS1 compliance of solution-providers





# Thank you

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