



**Jan Vink**

Patient Safety and Barcode Scanning in the Operating Theatre



# Background

- University Medical Centre (one of 8 in NL: 60 years young)
- Focus areas: Cure-Education-Research (international level)
- OR-procedure 10.000 (excl. interventional treatments)
- Turnover > \$ 1.000.000.000
- Largest employer in the region
- 9.000 employees
- 3.000 students
- 1.000 beds

**Ambitious  
environment in a  
changing world**



New hospital building  
with full centralised  
IC and OR-facility



# Challenge: back office activities



Easy to find?



Intensive?



Complex!



Always safe!

**Against  
all  
costs?**



## Observations interventional dept.'s and OR

- Value internal stock unknown
- Traceability problems (expiry date - lot numbers - recall)
- Abundance of barcodes and applications
- No integration between push and pull
- Depending on knowledge level staff members
- (preparation - expiry date - lot numbers)

**We cannot continue!**

**What are the next steps?**

on procedure



# Realisation

**3 stepping stone principals:**  
**Step 1: Structure internal organisation**  
**Step 2: Renewal techniques and procedures (lean)**  
**Step 3: Apply innovative techniques and integration**

## 2. Realisation

- Optimizing
- Reducing waste
- Effective order size



# Time table

**Research**

Q2-2010



Prepare to play



**Include GAP-analysis**

G = goods: logistics dept.  
A = automation: IT dept.  
P = processes: business

**The business case is never complete!  
Clear vision about the way forward!**

Q1-2011

**Extend scope**

Q2/Q3-2011

**Standardize and integrate**

Ready to play ←

Q4-2011 > 2012

# The current state

- Automated inventory management system (one dimensional barcoding)
- GS1-standard compliant standard
- Barcoding for tracking
- One-time



**Introduce GS1 Standard**

Harmonize and simplify:

1. Internal logistical processes
2. External supply chain connections

ain  
hology

# Target 2012

- Introduce Q-system (ISO9001: 2008)
- Integrated T&T-system
- One off: implementatie
- Real-time monitoring
- Elimination of waste
- Increase efficiency

## Results YTD (30sep11):

- 375.000 articles available
- 4.594 articles registered (80/20)
- 22.998 unique items identified
- Total value assets \$ 9.500.000
- AVG price per item \$ 410
- Departments involved: 21

UMC  St Radboud

Bestelstatus: Zoek

Tijd: 12 maanden Selecteer

Artid	2011-01	2011-06	2011-09	2012-01	2012-06
CONTOUR 300 SHWT CONTROL 7500 90	1				
MO0111590 EQ_201112165					
MO0114804 TORSEND EX 0141268 50FF 10P				2	
MO01148070 TIAKBAUW 14 1-TP 1Mou11hou				2	

Gebruik dit scherm om te kijken welke items als spoedig zullen expireren.  
 Met verschijven tussen dit scherm en de volgende artikelen is dat dit scherm de artikelen laat zien die zullen expireren, en nog niet als zo gemeenschappelijk.  
 Met volgende artikelen scherm laat zien welke items zijn verlopen, maar ik





