



The Global Language of Business

The 14th HPAC Webinar

Barcode scanning in the OR

Elisabeth TweeSteden Ziekenhuis
The Netherlands

Roland van der Loos (OR Manager)
Jeroen van Winden (OR Supply Chain coordinator)



St. Elisabeth Ziekenhuis



Question & Answers



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Questions

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Healthcare Provider Advisory Council Best Implementation Case Study Award winners

From the U.K.

Date: Thursday 11th February 2016 **AND** Thursday 10th March 2016

Time: 13:30 BST

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In this webinar

- Introduction
- Business Case
- Project – overview
- Project benefits
- GS1 compliance
- Future
- Questions

Introduction

- Elisabeth-TweeSteden ziekenhuis, Tilburg area
The Netherlands



- 3 Locations
- Approx. 900 beds
- 24 OR's
- Approx. 20.000 surgical procedures
- Stockvalue \pm € 3.5 mil.



Introduction



Jeroen van Winden
Supply Chain Coordinator

Roland van der Loos
OR Manager



Bottlenecks

- User has no responsibility for costs
- Costs made not visible per surgeon / specialty
- Stock piles
- No overview of expiry dates



- No digital registration of implants in patients
- Inefficient logistic process
- Lack of sufficient insight in stock value

Business Case

Costs

- €40.000 invested from OR budget (phase 1)
- Creating support executive board by proof of concept
- €30.000 invested from hospital (phase 2)

Business Case

Cost Benefit

- Phase 1 (estimates)
 - Stock reduction 10% ± €21.000
 - Waste reduction ± €10.000
 - Higher cost awareness ±€6.000
 - Improved logistics ±€4.000
 - Total **±€41.000**

Business Case

Cost Benefit

- Phase 2
 - Lowering CSSD costs ±€7.500
 - Further stock reduction ±€20.000
 - Reduction of staff (0,5 FTE) ±€29.000
 - Total **±€46.500**

The project

Phase 1

From OR costs to OR stock and costs of use per specialty

Scanning of Self created, non-GS1, barcode labels and manual entry of lotnumbers within OR

Automated ordering process

Phase 2

Use of supplier barcodes (GS1 and HIBC) and automated entry of lotnumber

In the Operating Room Theatre, ultimate goal for complete hospital

Risks

Overflow of administrative tasks for OR nurses

Changing the mindset for logistics

Matching system stocklevels with fysical stocklevels

Benefits explained

Digital recall

Stock reduction

Costs reduction

Optimal logistic process

Benefits: Digital Recall

IBM COGNOS

OK Uitgifte

Detail overzicht OK uitgifte

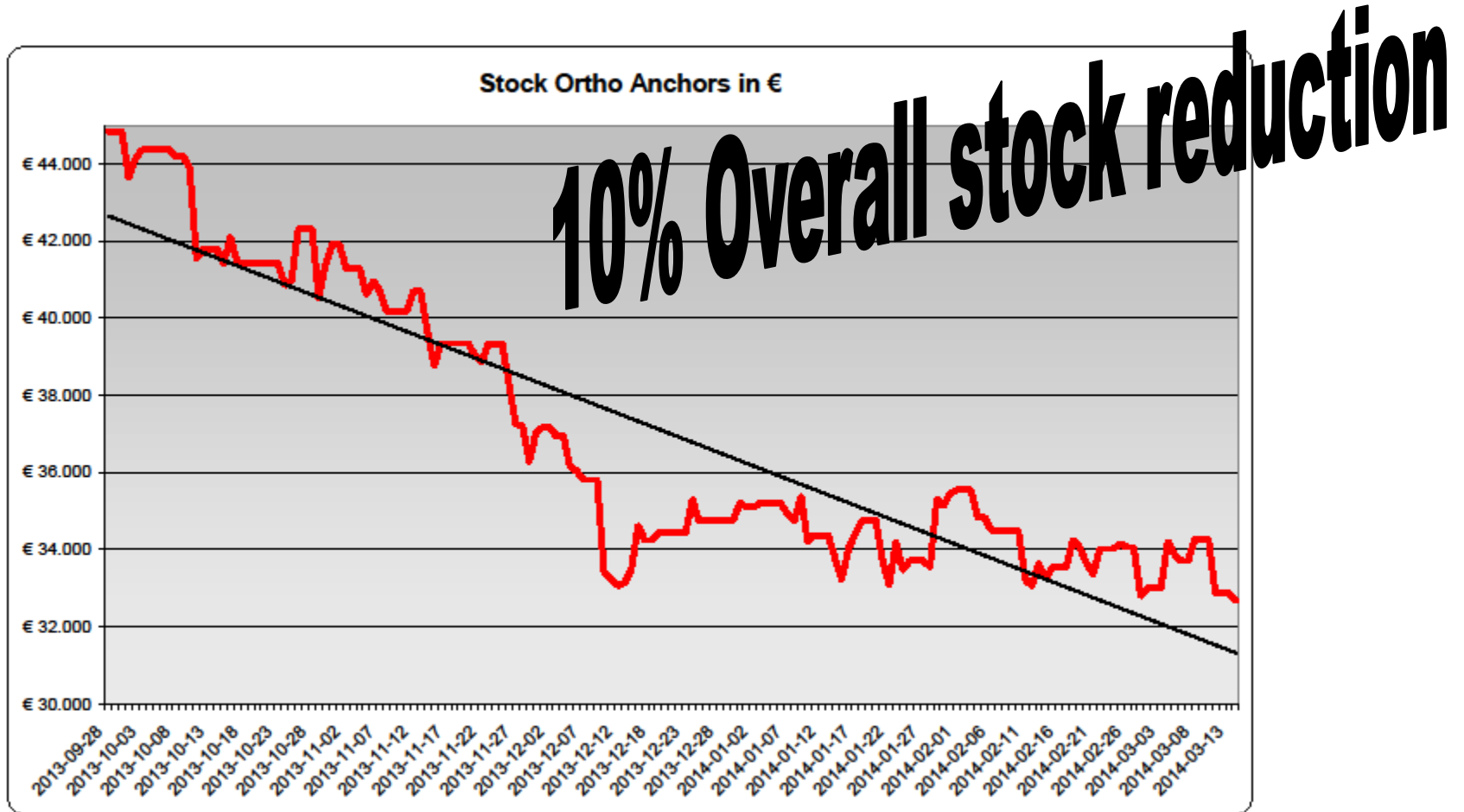
Geselecteerde OK periode: Tussen 1-jan-2014 en 1-okt-2015

DATUM	PATIENT NR	HOOFDINDICATIE	CATEGORIE	LEVERANCIER	LOT NR	ARTIKEL OMSCHRIJVING	MT
2015-06-24	1213575	TOTAL HIP ALLOFIT-CLS	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-09-22	1496275	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-04-07	1832688	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-05-28	2002979	TOTAL HIP ALLOFIT-CLS	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-03-31	2769107	THP CLS STEEL MULLER CUP	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-04-20	3180826	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-07-07	3468520	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-09-09	3497101	TOTAL HIP ALLOFIT-CLS	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-04-02	3509101	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-05-08	3509101	THP ALLOFIT-CLS	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-07-07	3509101	TOTAL HIP ALLOFIT-CLS RE	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-06-06	3509101	TOTAL HIP ALLOFIT-CLS	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-06-02	5326871	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-06-22	5753572	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-04-13	6391579	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-09-08	6963572	TOTAL HIP ALLOFIT-CLS	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-04-09	7055565	TOT HIP ALLOFIT-CLS LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-06-09	8053006	THP MULLER-MULLER RE	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-04-20	8142651	THP MULLER-MULLER LI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-03-31	8420973	THP MULLER-MUL LI/ SPI	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-06-16	8763403	MULLER CUP/CLS STEEL RE	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1
2015-03-24	9593470	THP MULLER CUP CLS STEEL	Heup-protheses	ZIMMER NETHERLANDS I	2788600B15	HEUPKOP BIOLOX DELTA 12/14, 32X0	1

Totaal

Query when recall vs paper files

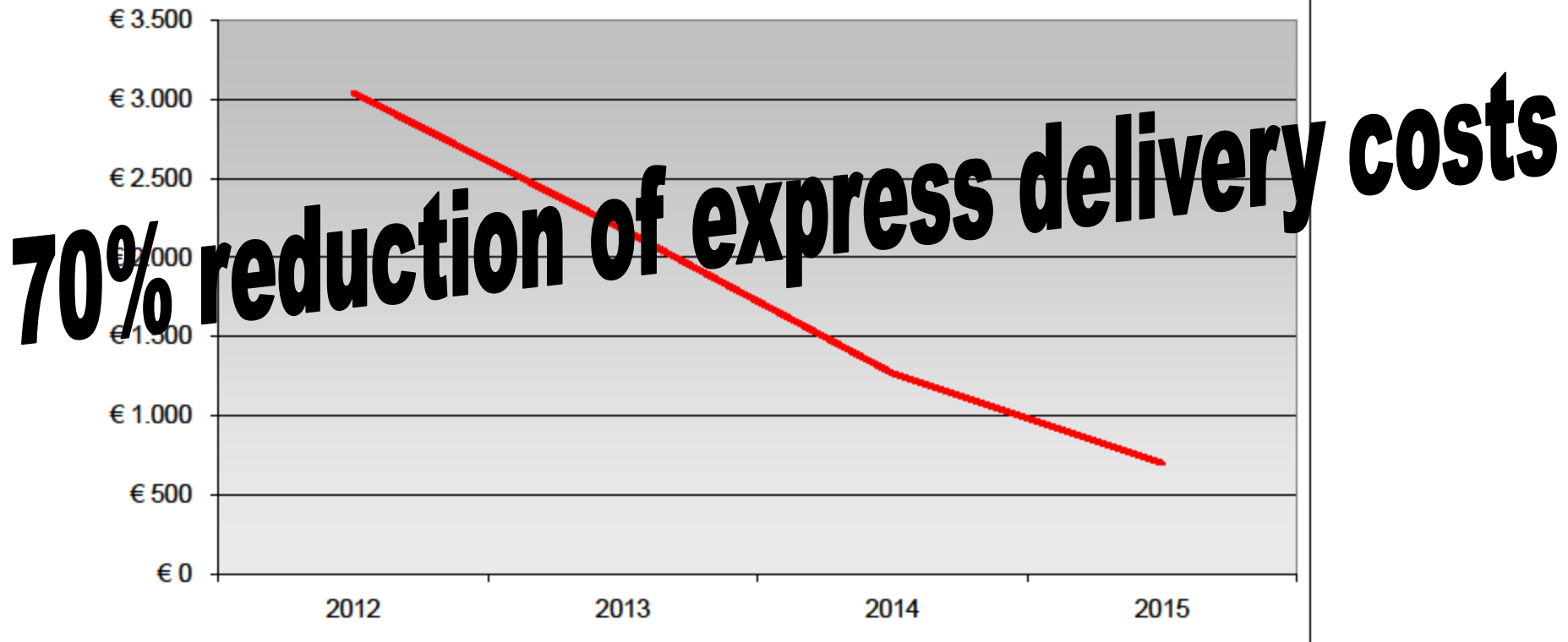
Benefits: Stock reduction



Benefits:

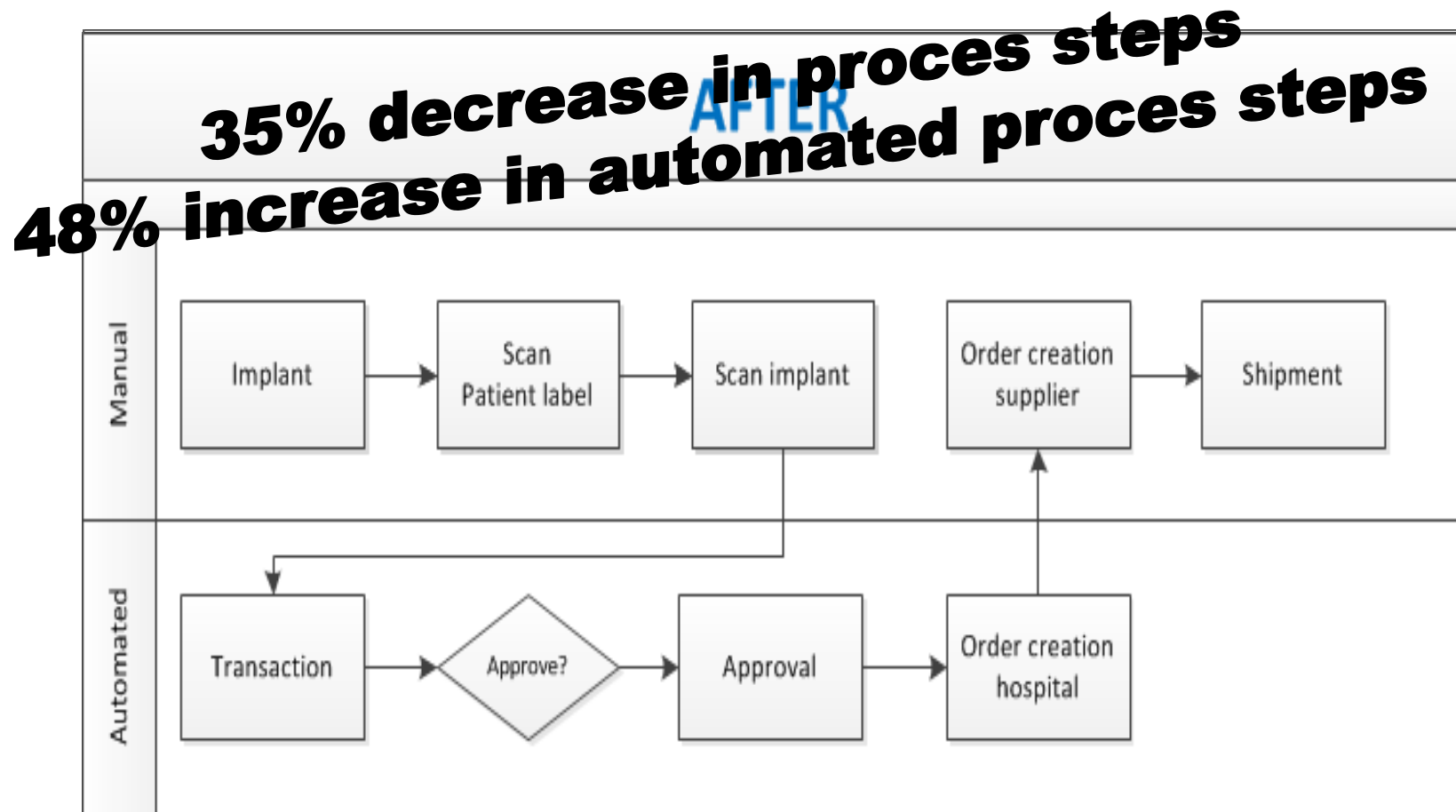
Cost reduction

Express delivery costs

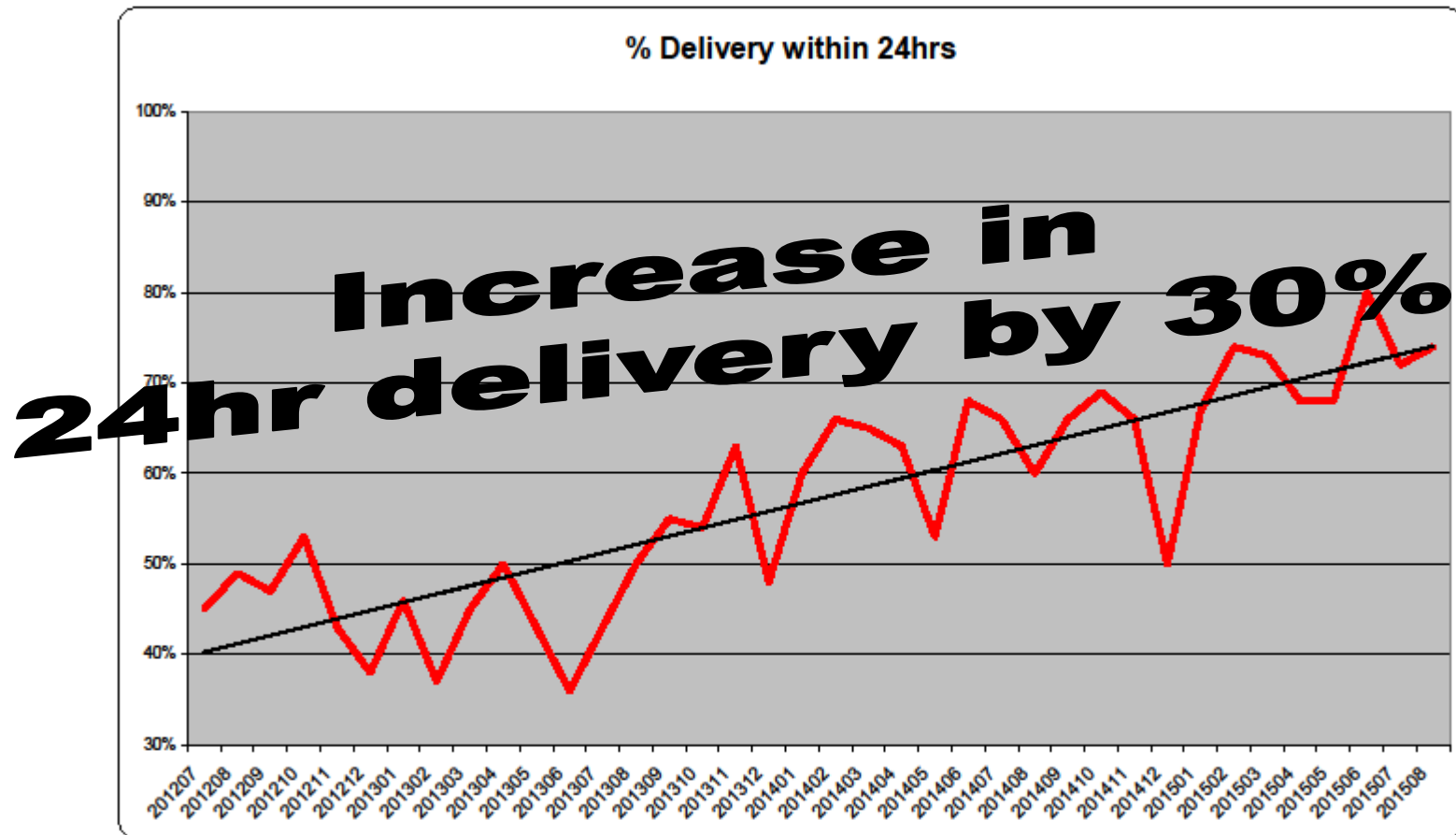


Benefits:

Lean from scan to order



Benefits: Logistic process



GS1 compliance



We strive towards 100% GS1 barcodes in the OR:

- **Explaining the urgency to non-GS1 suppliers**
- **GS1 barcoded labels for non-barcoded items**
- **All new products need to have GS1 barcode**

Future

Roll out over OR 3rd location and onwards

Lotnumber track and trace from delivery to patient

Shifting the push-pull point from actual OR to planned OR

Don't hesitate, just do it!



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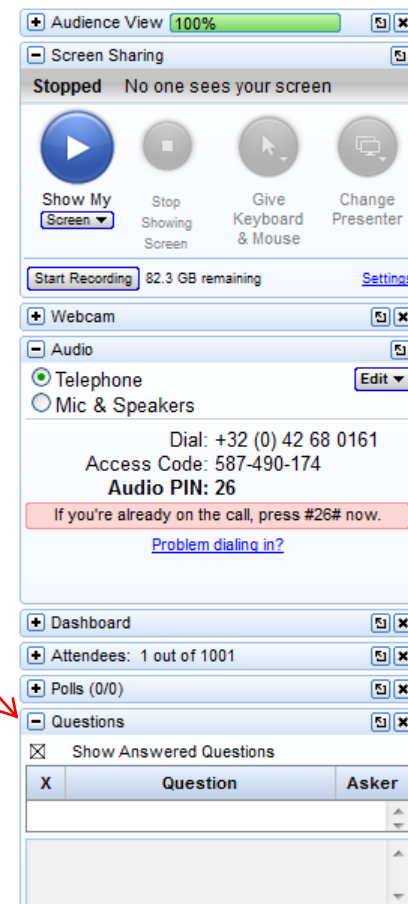
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