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Board of Governors / CMO ZGT

GS1 in Dutch Hospitals



Overview

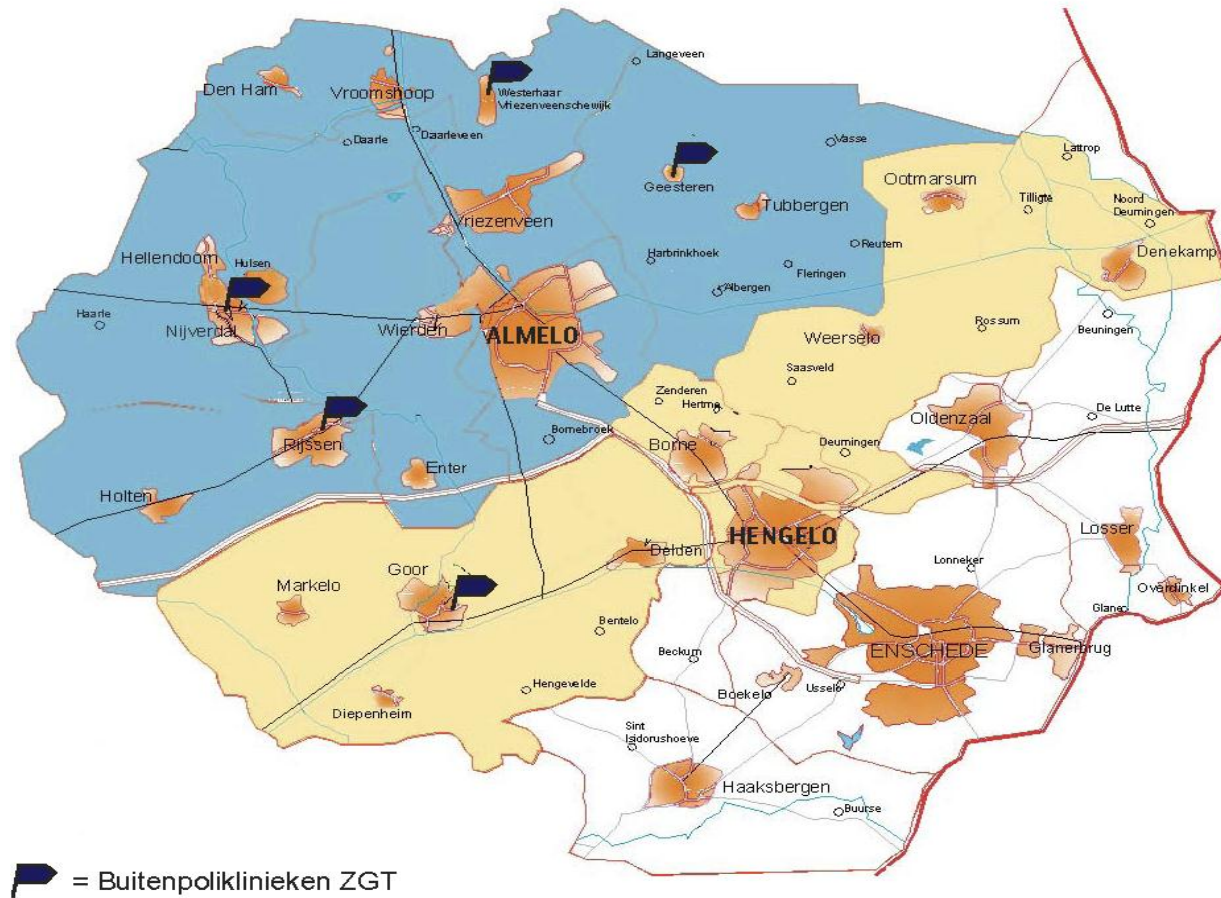
- ZGT in figures and key issues
- Healthcare 2011
- Challenge
- Barcode
- Lessons learned in ZGT
- Conclusion



**ZGT: one hospital in two locations:
Almelo and Hengelo**

Service Area ZGT

Population: 320.000



ZGT in figures (2010)

Hospital locations	2
Outpatient clinics (+mobile X-ray)	5
Number of employees	3500
Doctors	211
Patients treated annually	250.000
Beds	1085
Turnover	€ 250 million

Key Issues ZGT

- A safety management system that allows insight in hazardous processes and reduces unsafe situations
- Focus on management systems to provide apprehension of processes and guarantee the critical steps by protocols, all based on the patient perspective
- Focus on safety of medical equipment, including certification by TNO/TUV
- Auditing system to review and check our processes on a regular base. The results lead to quality improvements, eventually leading to ZGT as one of the most safe hospitals

Healthcare 2011

- Focus on patient safety :
 - Safety Management System
 - Electronic Health Record
 - Electronic Prescription System
 - Recall registration
 - Increasing partnership patients
- Transparency: “Prove of” quality of care and patient safety will gain importance
- The value of ICT in healthcare will increase significantly

Challenge

Part of the solution is the use of a unique barcode in the Healthcare Supply Chain

The use of a unique barcode leads to:

- medication errors*: decrease of 38%
- administrative costs: decrease of at least 7%

ICT-systems need to “communicate” and match

* source: Poon EG et al. Effect of Bar-Code Technology on the Safety of Medication Administration. N Eng J Med 2010;362:1698-707

Barcode supports -1-

- Identification:
 - Person
 - Time
 - Place
 - Pharmaceutical or Medical Device
 - Reduce costs
- Registration of each step in the process
 - Reduction of errors and adverse events

Barcode supports -2-

- Track and trace:
 - Focus in recalls
 - Reduce costs
 - Enhance safety
- Stock control
 - Security of the supply chain
 - Reduce costs
 - Increase scheduled planning

ZGT

ZGT started a project for traceability of medical devices at the operating theatre

We intend to learn what processes are involved and what systems have to be adjusted

ZGT: Lessons learned

Thus far we learned :

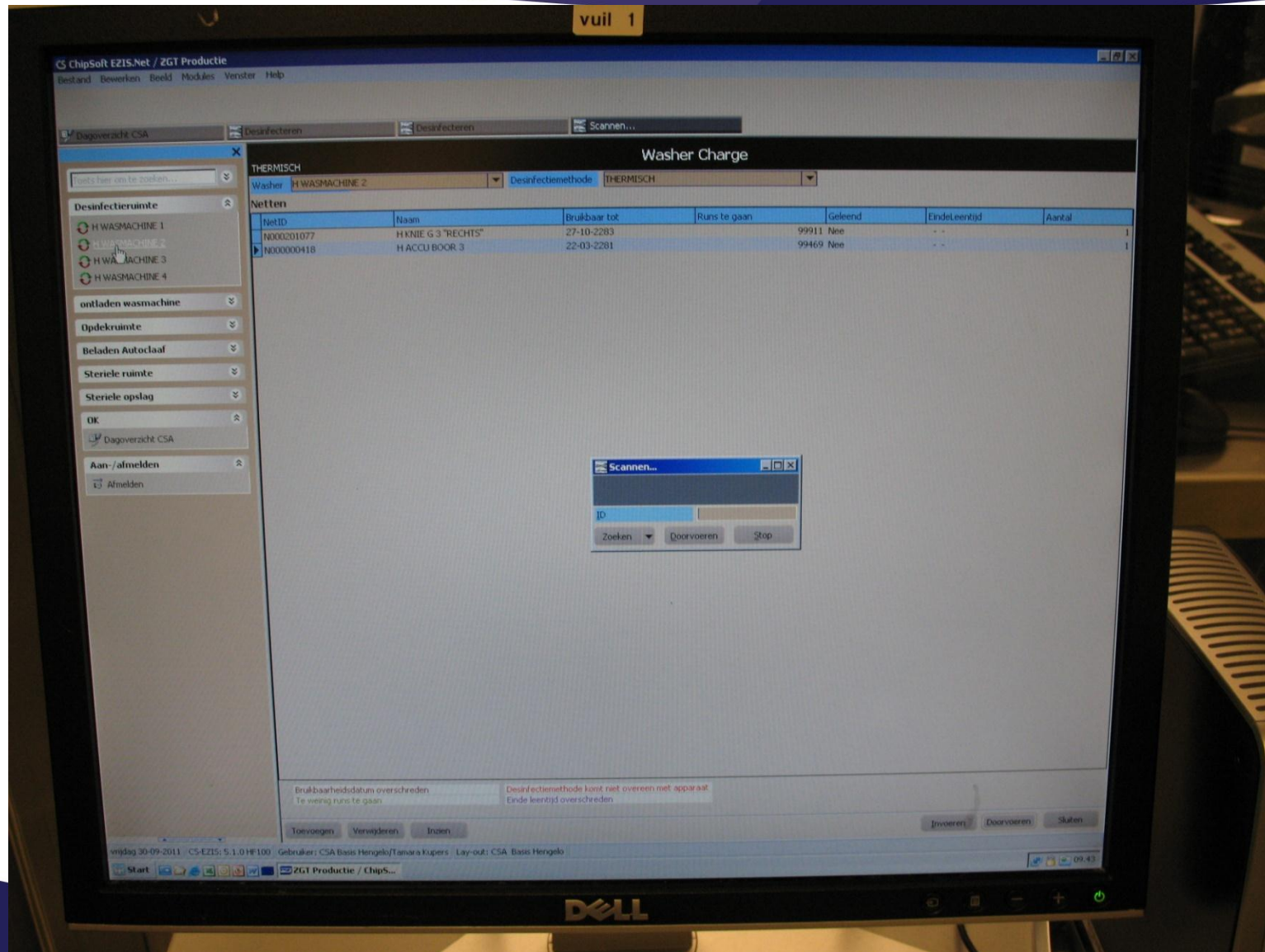
- to cooperate in the supply chain with:
 - Software suppliers
 - Medical Device suppliers
- To cooperate in our own hospital with:
 - All types of professionals
 - Logistics
 - Software
 - Management
 - Etc.





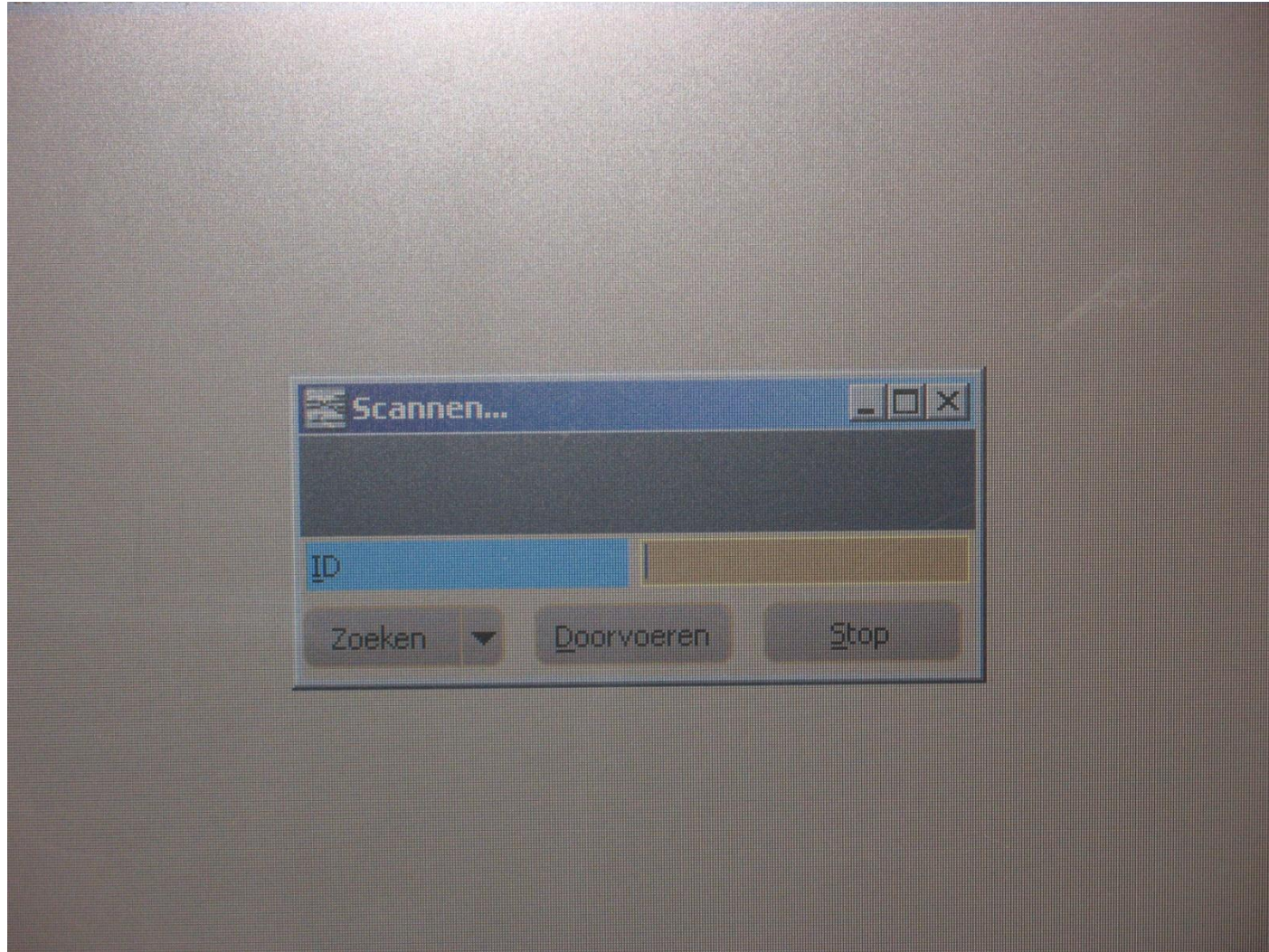


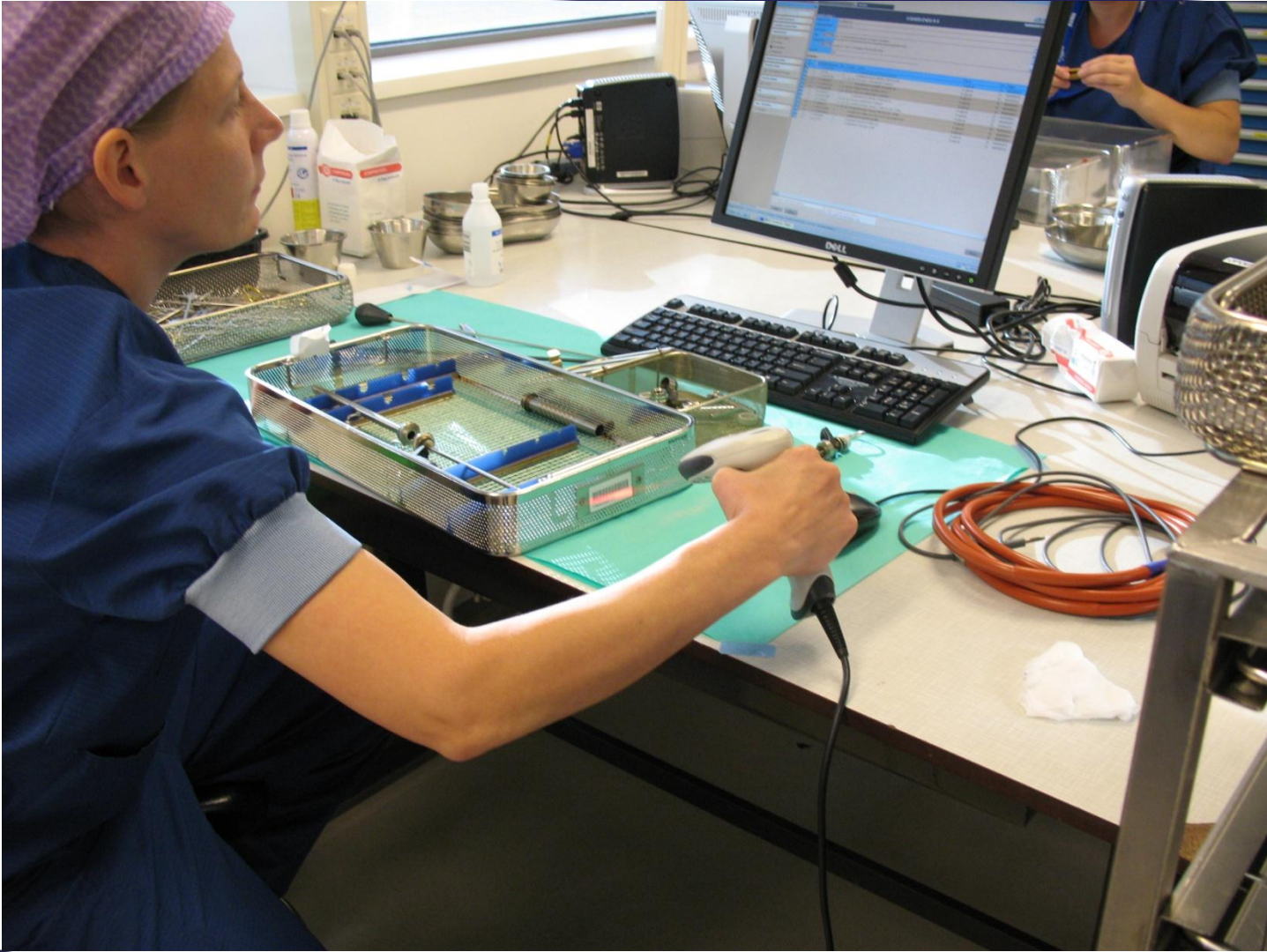
GS1 in the Dutch Hospitals















Goal

Due to the urgency of patient safety and the quality of care, we can't afford delay

Barcodes are state of the art in the entire supply chain. However there is not yet an uniform standard between the supply chain partners and the hospitals

The Dutch Hospital Associations NFU and NVZ decided to implement GS1 Data Carriers on primary and secondary packages

By the end of 2012 all primary and secondary packages should contain a GS1 barcode with a GTIN, batch or serial number and expiry date

Conclusion

Most suppliers seem willing to use the GS1 barcodes

Hospitals are not yet ready to implement

To improve patient safety and quality of care, all partners within the supply chain and hospitals need to cooperate to implement a unique GS1 Barcode

Proof is needed to show hospitals how a unique barcode can improve patient safety and quality of care

Thank you