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On the Right Track

Implementation of an RTLS for management of Medical Technology

Roland Loeffen MSc, Pdeng

Vera Nuiver, Marcel van Keeken, et al.

Radboud University Medical Center, Nijmegen, The Netherlands

Event Website: <https://www.globalcea.org/icehtmc>



Introduction

Radboud University Medical Center



10's of building
100's of floors
More than 400.000 m²



40.000 assets
20.000+ Medical Devices

Problem description



Limited insight in location and movement of mobile objects



Time lost in searching and administration



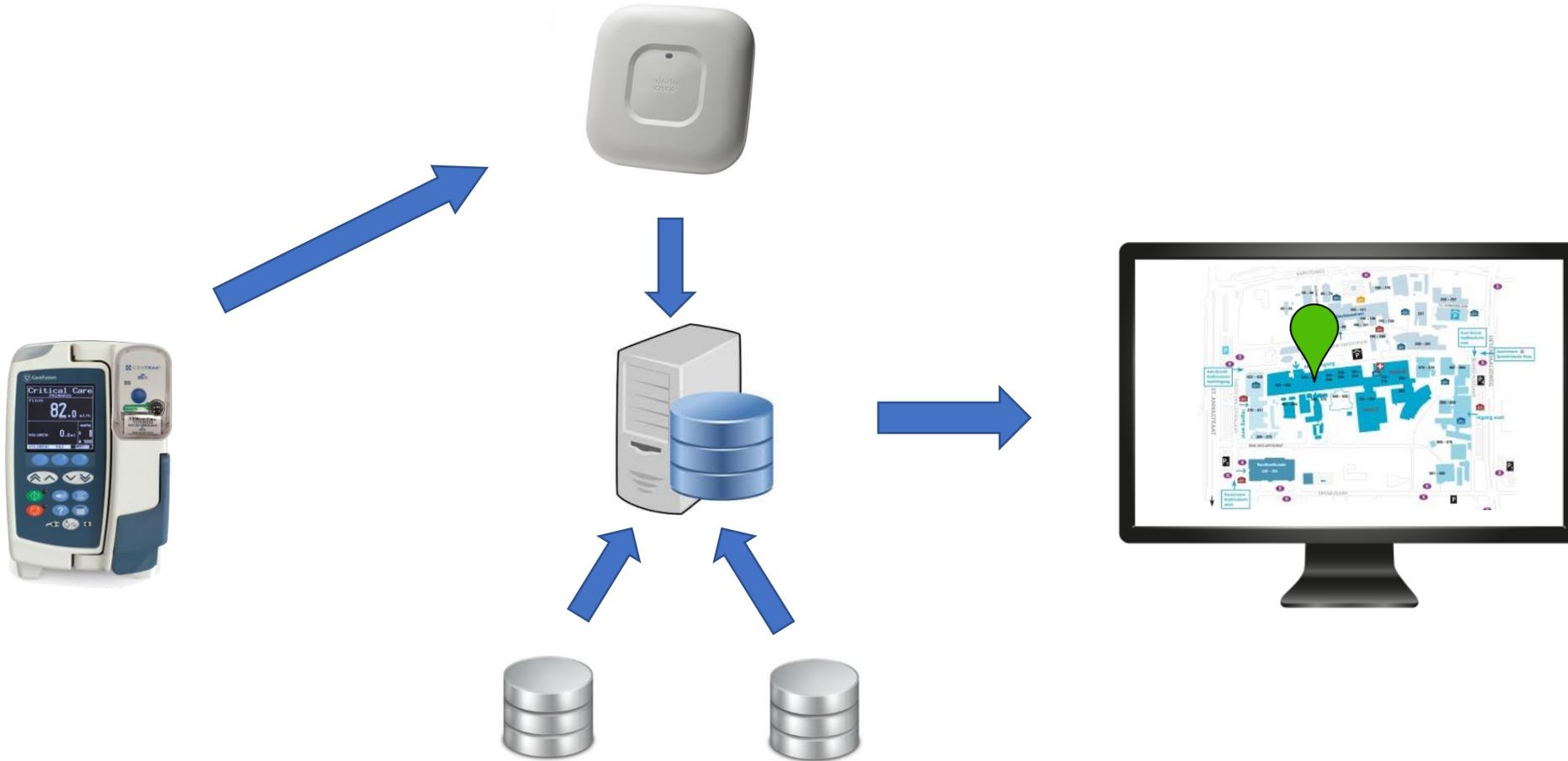
Frustration



Inefficient use and management of Medical Technology

Roland Loeffen. On the right Track : onderzoek naar de inzet van Track en Trace technologie binnen het ziekenhuis(PDEng Qualified Medical Engineer, external assessor) (in Dutch)

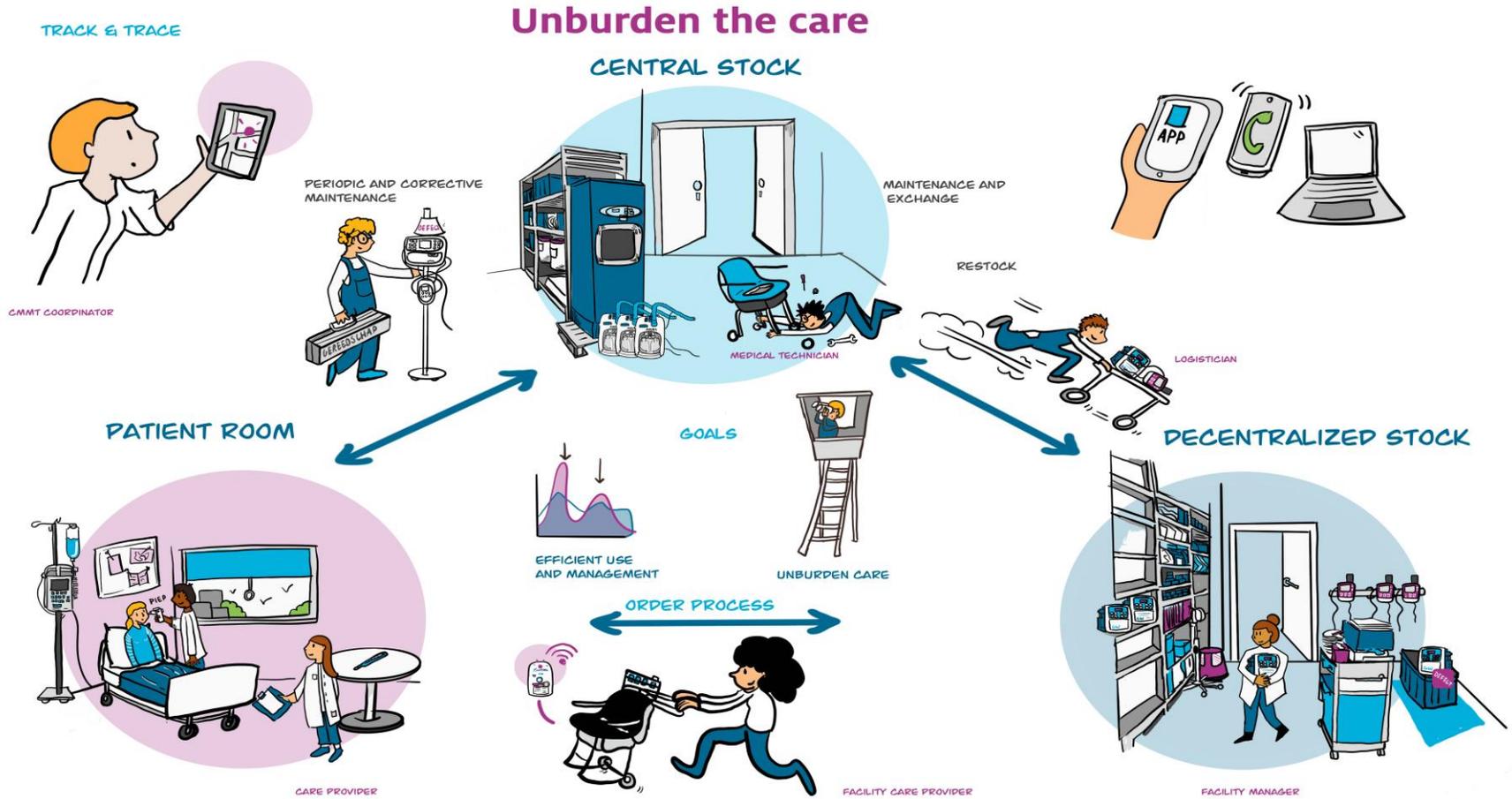
Real Time Location System (Track and Trace)



Kamel Boulos MN, Berry G. Real-time locating systems (RTLS) in healthcare: a condensed primer. Int J Health Geogr. 2012 Jun 28;11:25. doi: 10.1186/1476-072X-11-25. PMID: 22741760; PMCID: PMC3408320.

Goal

Centrally Managed Medical Technology (CMMT) Radboudumc



JustJulie i.o.v. het Radboud UMC

Methods

RTLS platform(Philips PerformanceFlow)

- Visualisation, Notifications, Workflow support, Analytics,.....

Use of Existing WIFI network

- No infrastructural changes needed
- Campuswide coverage

Integration with asset management system for MT management

- Asset management data combined with location data
- Work order creation for workflow support
- Inventory Management of decentralized and central stock

Results

- Hospitalwide Functional RTLS platform
- Integration with Asset management system
- Important tool for Central Management of Medical Technology

Take home message:

- Track and Trace is a tool, not a goal
 - Combine Track en Trace with process/organisational change to reach goals
- Think big but start small
 - Hospital wide approach with future-proof system
 - Phased implementation on the basis of topical use cases

Questions?

Roland Loeffen

Roland.loeffen@radboudumc.nl

Radboud University Medical Center, Netherlands