"Building Patient Safety"

Patient Safety

Healthcare Supply Chain Efficiency

Automatic Data Capture (Bar Codes, Data Matrix, RFID)

e-Commerce (EDI / XML Transactions)

Electronic Record Management (e-Records, e-Prescriptions)

Assets & Equipment Tracking

Traceability (e-Pedigree, Recalls)

Standardized Product Definition (GDSN®)

Standardized Location Identification (GLN)

Standardized Product Identification (GTIN®)

Standardization → Interoperability
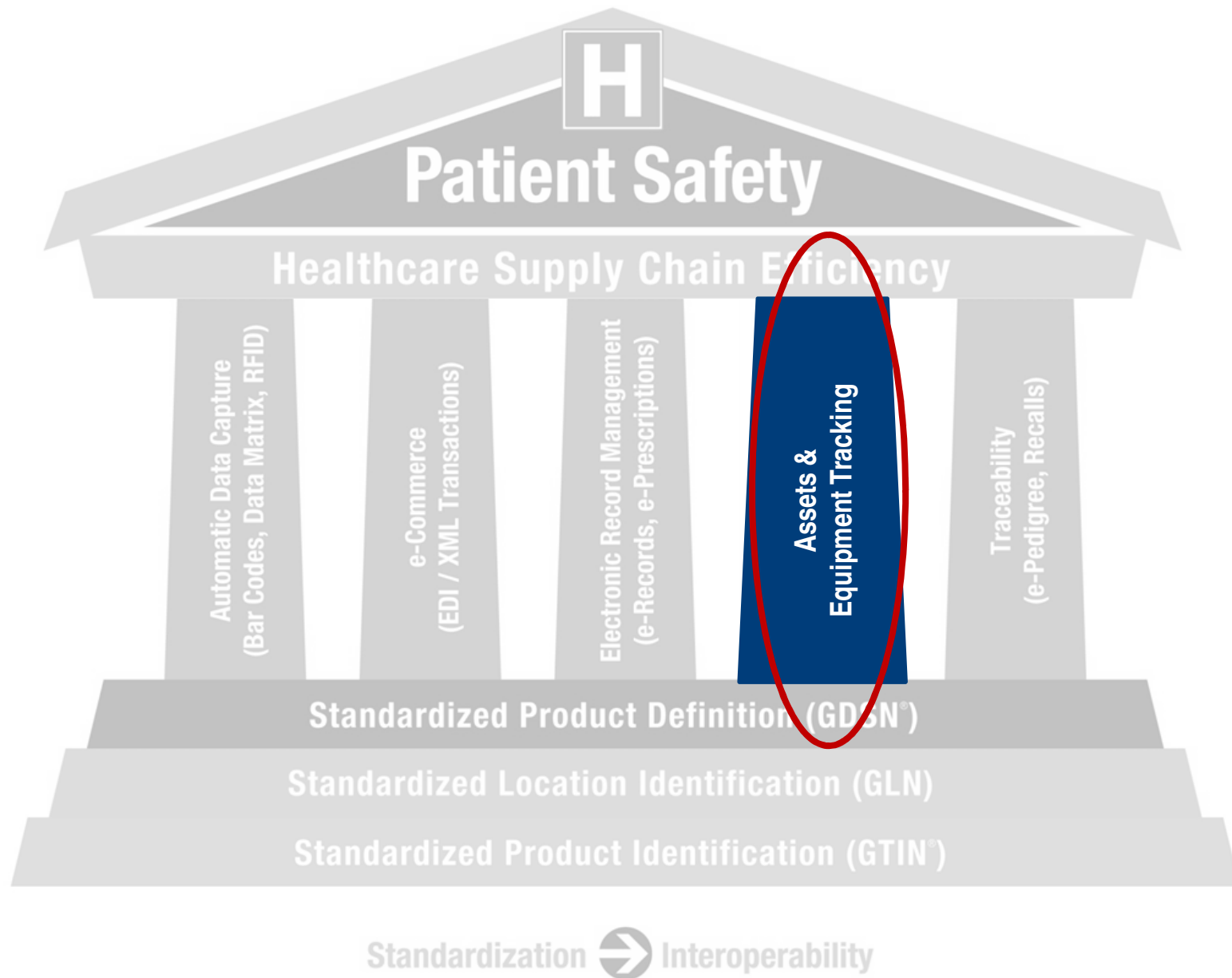
RFID Implementation

Jean Sargent
Director Supply Chain
GS1 Healthcare US Leadership Team

Why

- Patient safety
- Recall and event reporting purposes
- Rental expenses in excess of $400,000
- Needs Analysis indicated no need to rent
- Assist in determining need for additional equipment and actual numbers required
- First of many phases
  - Supply tracking
  - Patient tracking
  - Staff tracking

Vision - Visibility

Tracking in Healthcare

. Asset Tracking

- Clinical equipment
- Wheelchairs
- Beds, Stretchers
- Medical assets

2. Staff tracking

- Process/workflow improvement
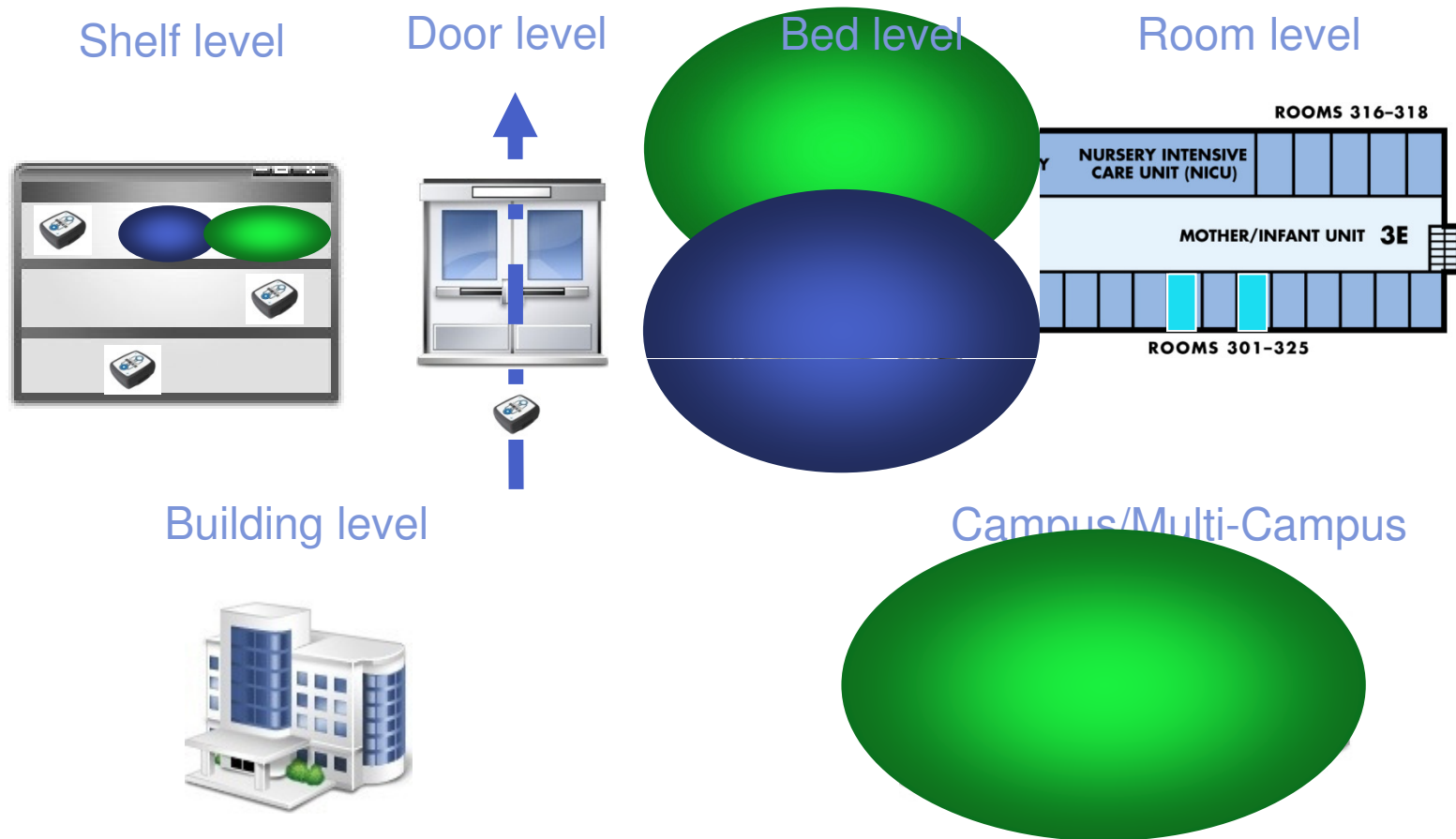- Scheduling, Patient transports

3. Patient tracking

- Process improvement through tracking patient flow
- Wanderers/elopement
- Long-term care, elderly care
- Control pandemics
- Manage disaster situations

RTLS for Healthcare

Real-Time-Location Solution

Shelf level   Door level   Bed level   Room level

ROOMS 316-318

NURSERY INTENSIVE CARE UNIT (NICU)

MOTHER/INFANT UNIT   3E

ROOMS 301-325

Building level   Campus/Multi-Campus

Ekahau software and Ekahau Tags

T301-B Personnel Tag with LCD

Code RED 132

T301B
- Pager/text messaging (LCD) option
- Motion sensor
- Panic buttons

1. **Man-Down alerts:**
   – if person has not moved in 5min, send request to get security guard to that location

2. **Panic Alerts**
   – if one needs help, push button and get help in you location

3. **Hazardous areas**
   – whoever enters in hazardous area, report person ID and location

Desktop

Customizable View, where users can display the most frequently requested location information

- Searches and Item Lists in map or list format

- Alerts and notifications

- User's location

- Quick Find

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DESKTOP FIND EVENT RULES EVENTS TAG MANAGEMENT

Logged in as Vision Admin

LOGOUT

Customize ?

FIND

[   ] Find

WHEELCHAIR PT3

| List | Map |

🔄 ☐ Auto refresh list every 10s

Checked   Checked Time

Name	Zone	Time
W 299483		03:37:22 PM Thu Mar 13 2008
W 938931		03:19:36 PM Thu Mar 13 2008
W 837782		03:19:36 PM Thu Mar 13 2008

EVENTS

Count: 5 / 1 New Events Received 🔄

Log Message	Originator Name
Wheelchairs needed, main building	W 837782
Wheelchairs needed, main building	W 938931
Wheelchairs needed, main building	W 837782
Wheelchairs needed, main building	W 938931
Wheelchairs needed, main building	W 837782

WHEELCHAIRS, 3RD FLOOR RECEPTION

| Map |

PT3-3rd floor ▼

ALERT ✕

Exit Alarm

Originator Name:

Map: 🖥 **PT3-3rd floor**

Zone: Office 236

Time: 03:57:55 PM Thu Mar 13 2008

Event Type: Area Enter

Battery: 100

[   ]

Acknowledge?

Yes   No

02:58:10 PM Thu Mar 13 2008
03:55:42 PM Thu Mar 13 2008
10:17:48 AM Thu Mar 13 2008
11:24:52 AM Tue Mar 11 2008
02:57:22 PM Thu Mar 13 2008

Event history

Full event history with visual search tools

- List events by
  - Event rule
  - Tag
  - Start date / end date

- Acknowledge open alerts

- View event location
  - List or map view

How Does It Work ?

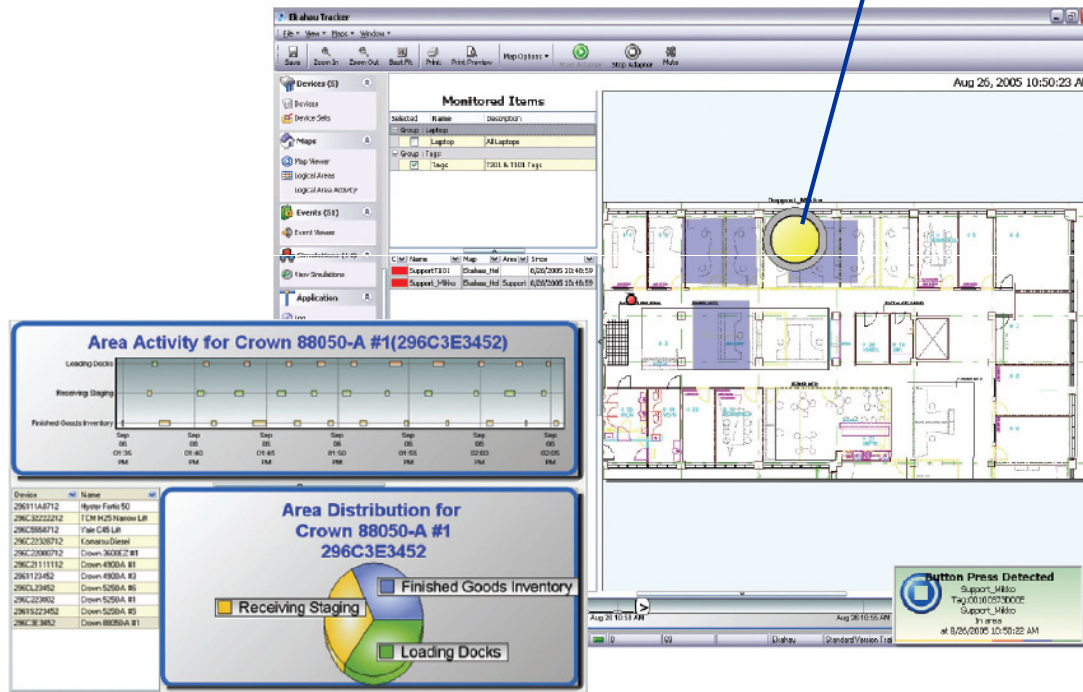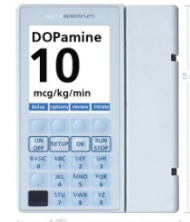**5** **Start Tracking!**

TRACK PDAs!

TRACK Laptops!

TRACK Voip Phones!
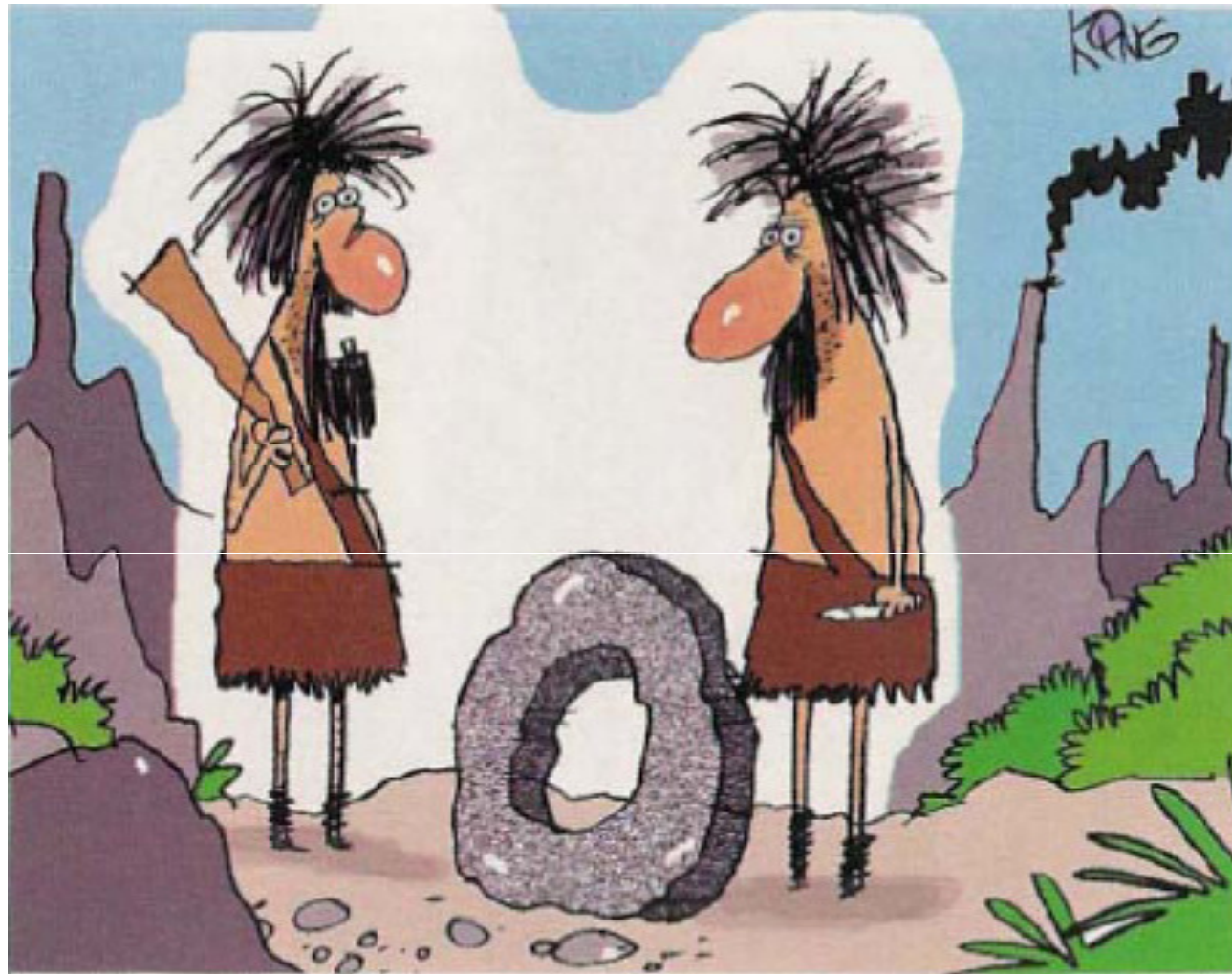
TRACK Barcode/RFID scanners!

TRACK hospital wireless equipment!

TRACK WiFi TAGs!

"Interesting. But what's the ROI?"

WHY WE CHOSE EKAHAU ?

1. **OPEN** Wi-Fi RTLS works with any Wi-Fi vendor's network, as any standard Wi-Fi application

2. **EASY** to deploy Wi-Fi RTLS can be deployed over existing Wi-Fi network in less than an hour per 30 000 sqft hospital floor (example)

3. **ACCURATE** Wi-Fi RTLS does NOT require additional hardware infrastructure

YES! Hospitals Need Asset Tracking

USED WHEELCHAIRS - FOR SALE

UKHealthCare

Use of RFID in the Future

- Patient safety

- Interface between system and ADT

- Traceability of patients, supplies and equipment

- Monitoring of temperature of supplies during shipment

- Addition of semi-active tags for equipment

- Increase TJC inspection compliance