ekahau

Ekahau, Inc.

WPI Campus Workshop 2012

RF Localization for the Next Generation Wireless Devices

May 2012

Ekahau – Overview

- Founded in 2000 as a spin-off from Helsinki University
- U.S. Delaware Comapany, HQ in Reston, VA, USA
- Customers in over 40 countries, with over 300 hospital clients
- Pioneer in indoor location (RTLS) and Wi-Fi site survey markets with 12 patents

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About RTLS

& Barcode = Asset / People ID

= Asset / People ID + Location

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RTLS Components

RTLS Software

Any Wi-Fi Network

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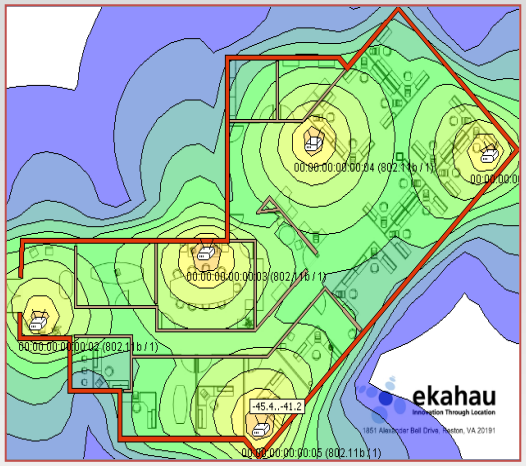
Ekahau Innovation Milestones



2009 — **World's 1st** Infrared-based Location Beacon to support Wi-Fi RTLS micro-zone accuracy

2008 — Launched full family of new RTLS tags (industrial, temp and exi certified included)

2007 — Lauched **World's 1st** Wi-Fi pager Ekahau T301BD badge

2006 — Launched second-generation probabilistic location algorithm in EPE v 4.0

2004 — Launched **World's 1st** Wi-Fi tag, Ekahau T101

2003 — Launched **World's 1st** Wi-Fi coverage mapping and site survey tool – ESS

2002 — Launched **World's 1st** Wi-Fi based commercial location engine – EPE; Relocated Ekahau HQ to USA

2000 — Ekahau founded in June – solution based on positioning algorithms for wireless networks

Ekahau's technology is based on a solid scientific innovation and over 10 years of top research in the field of Wi-Fi RF mapping, tracking and analysis.

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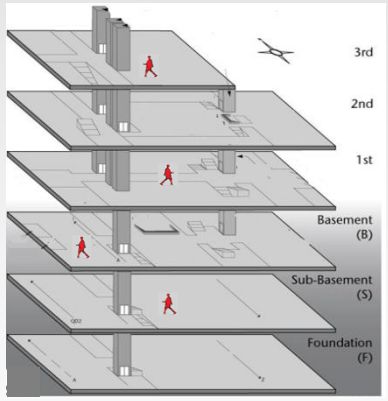
Wi-Fi: One Ubiquitous Wireless Infrastructure

Standard Wi-Fi infrastructure is today already in use at 90% of the enterprise customers, enabling Data and Voice AND LOCATION services.

DATA | **VOICE** | **LOCATION**



802.11 Wi-Fi

Ekahau enables real-time location services over the existing Wi-Fi network, just by adding software and tags: fast and easy!

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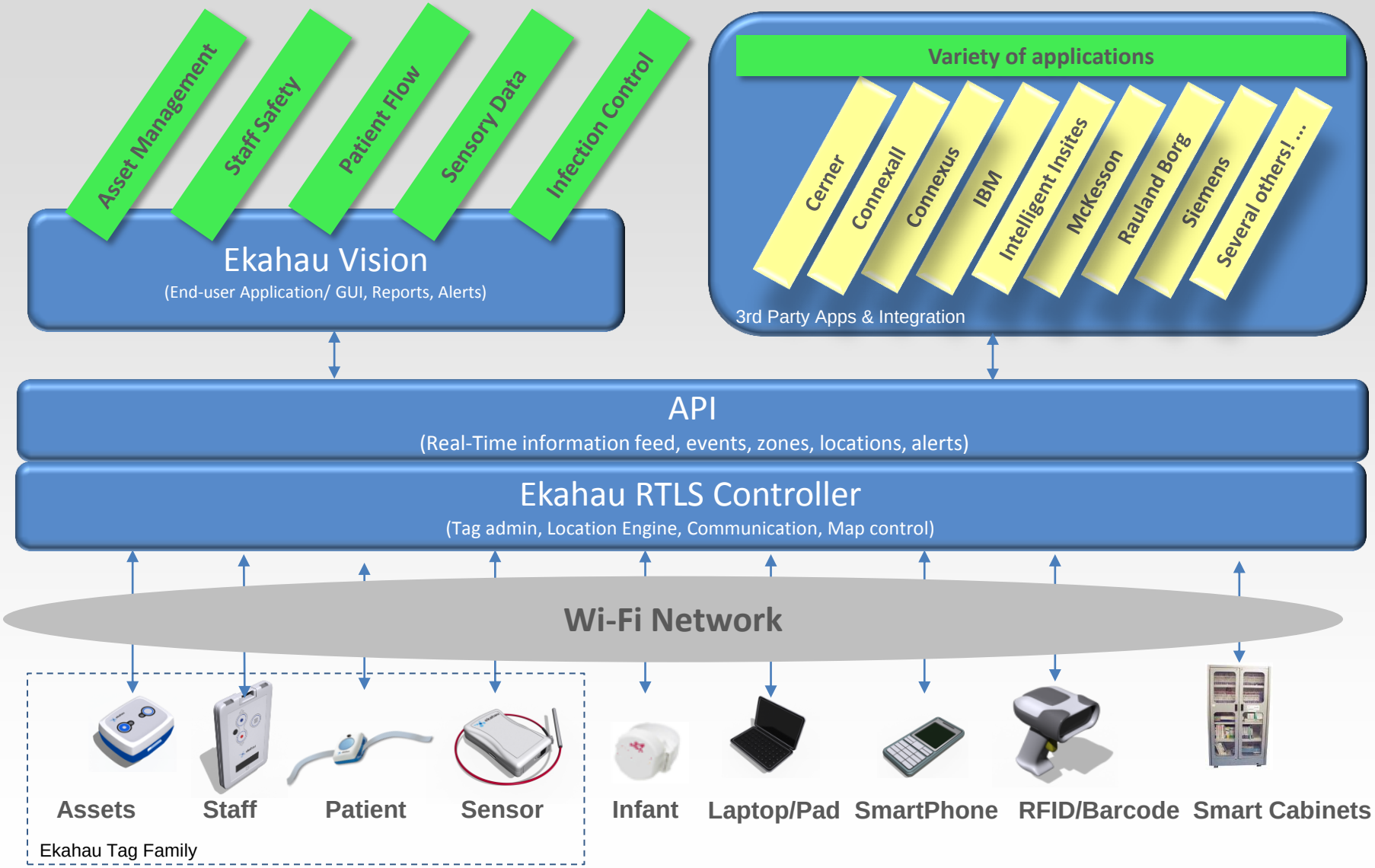
Ekahau RTLS Today



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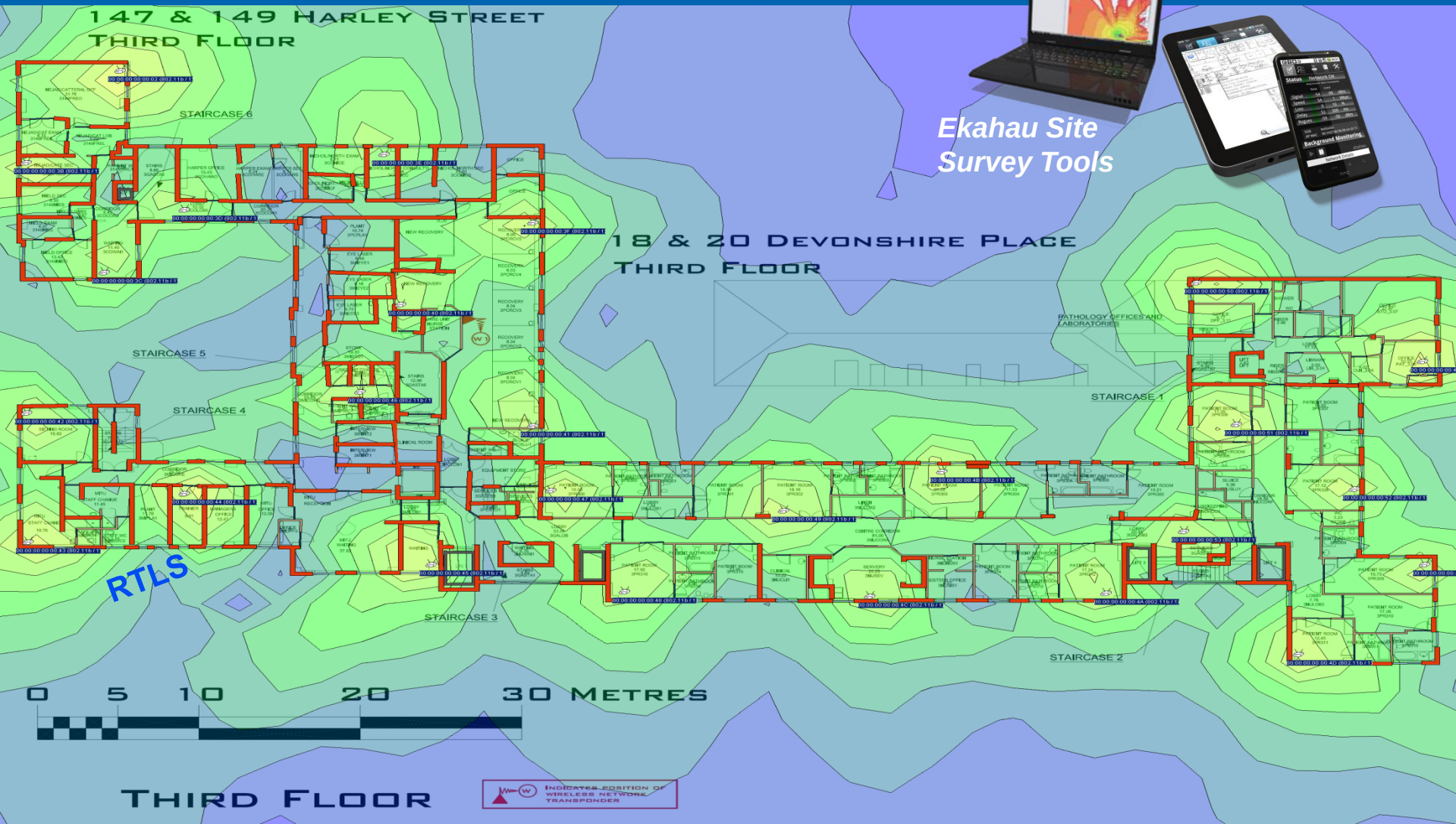
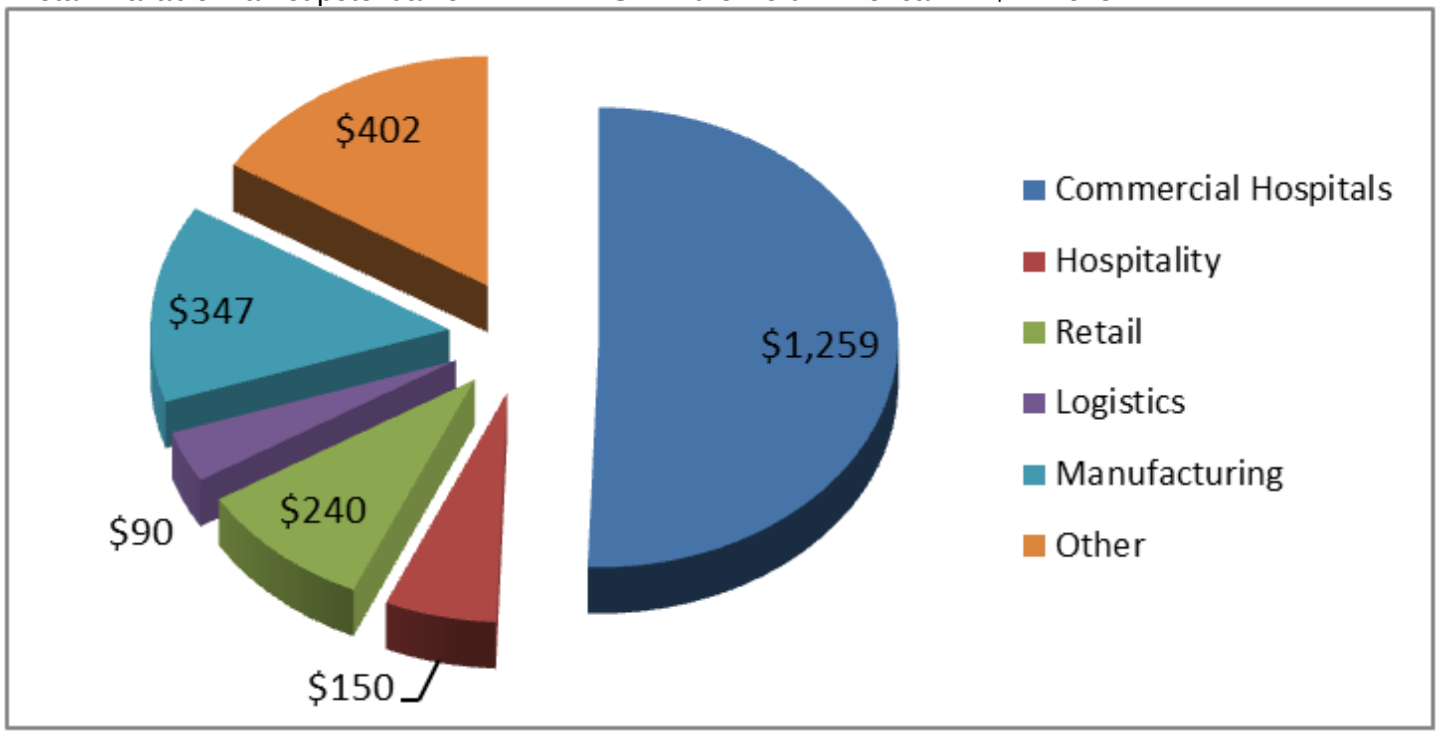
Is Your Wi-Fi Ready for RTLS?



RTLS - Industry Segments

Total Available Market potential for Wi-Fi RTLS – in the North America in x $ millions



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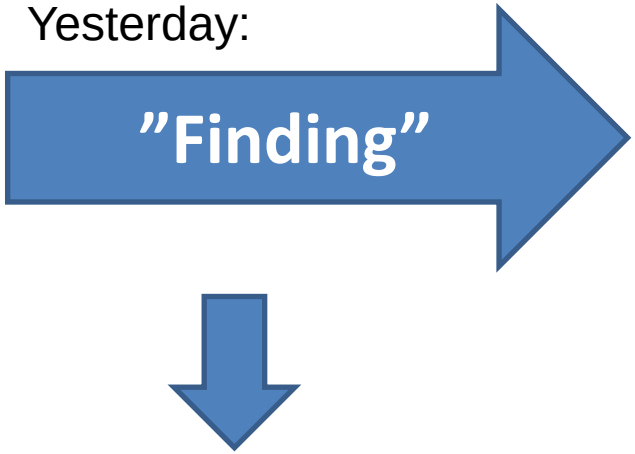
What Customers Need from RTLS

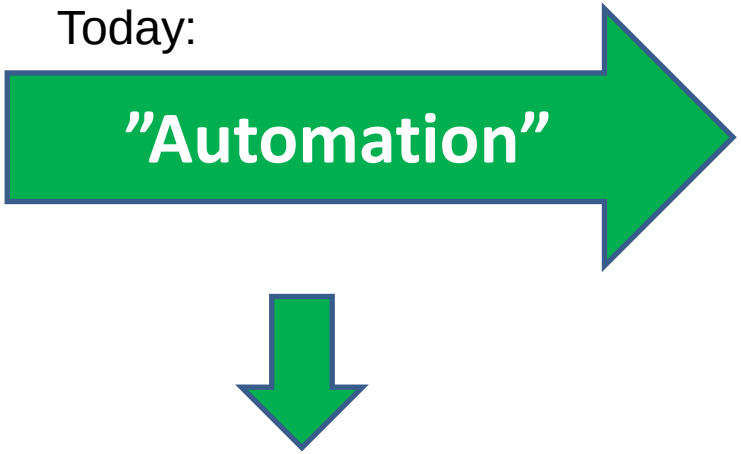
Changing landscape for RTLS technology requirements:

Yesterday:



1) Department Level Accuracy OK
2) +/- 1 room accuracy OK

Today:



1) 100% Room accuracy required
2) Bed level accuracy required

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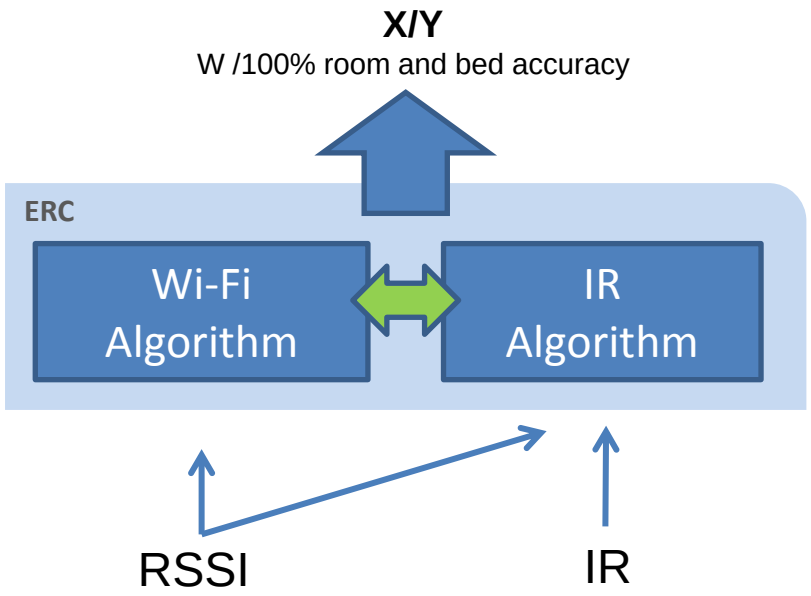
Ekahau Location Beacon = bed-level accuracy



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3-Step Deployment of Ekahau Wi-Fi RTLS

Perform Site Survey

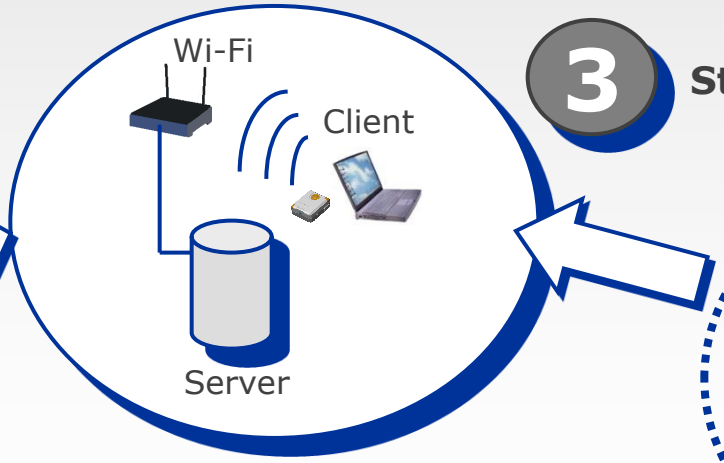
2

- walk around the site once for RF site-survey

Install Software

1

- Ekahau RTLS Controller SW
- Floor Plan maps
- Ekahau Applications



Any Wi-Fi network

3 Start Tagging and Tracking!

- Any Wi-Fi clients of Wi-Fi tags

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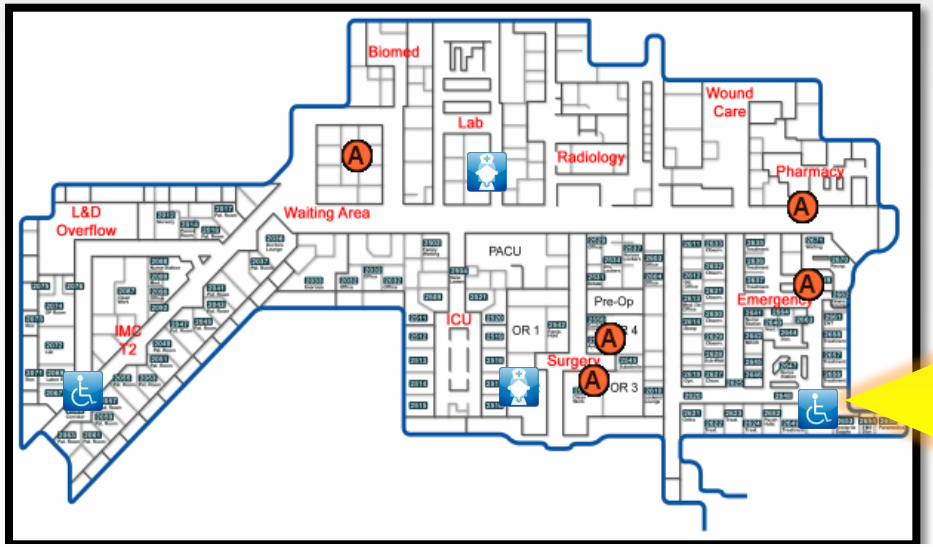
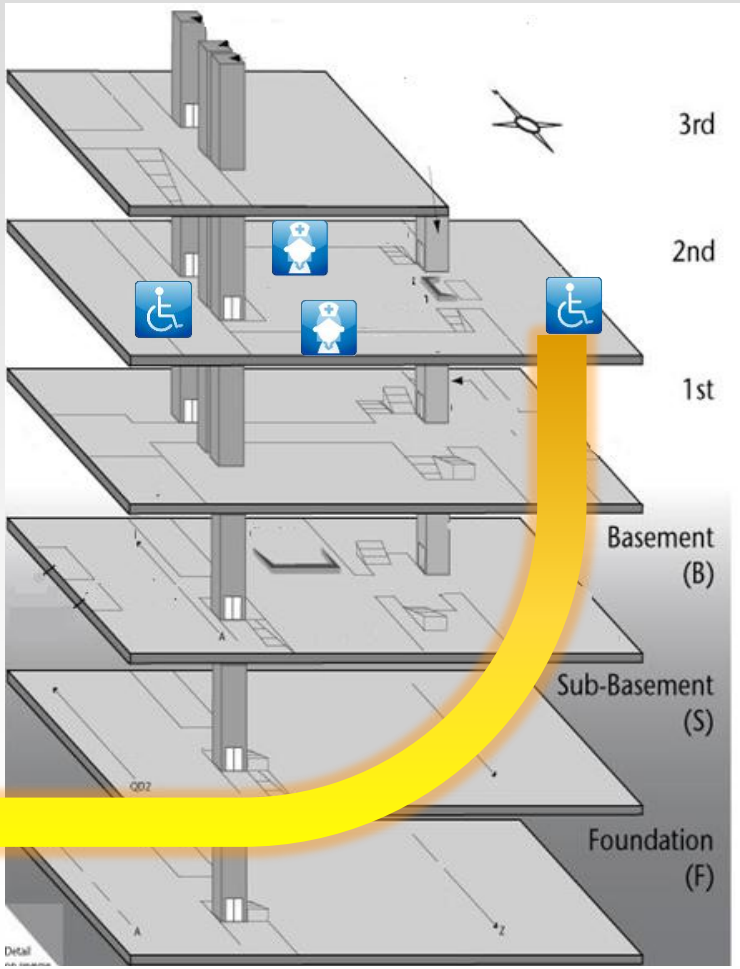
RTLS Benefits: See it on the MAP!

1) Find Assets
2) See Patient FLOW
3) See Staff WORK-FLOW





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RTLS Benefits: Get a REPORT on it!

- *”Where is that IV pump! ?”*
- *”Find all Baxter pumps for maintenance next week!”*
- *”Where are all the unused assets?”*
- *”How many of my rental IV pumps are utilized?”*
- *”Show all equipment waiting for repair in the lab”*
- *”What is the patient flow history in this departmen*

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Visibility is the KEY to Improved EFFICIENCY

REAL-TIME VISIBILITY!

Patients

Staff

Assets

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Hospital ROI from Real-Time Visibility:

IMPROVED:

1) ASSET UTILIZATION
2) PROCESS FLOW
3) SAFETY

ROI on average:
1.8x ROI in 12 months

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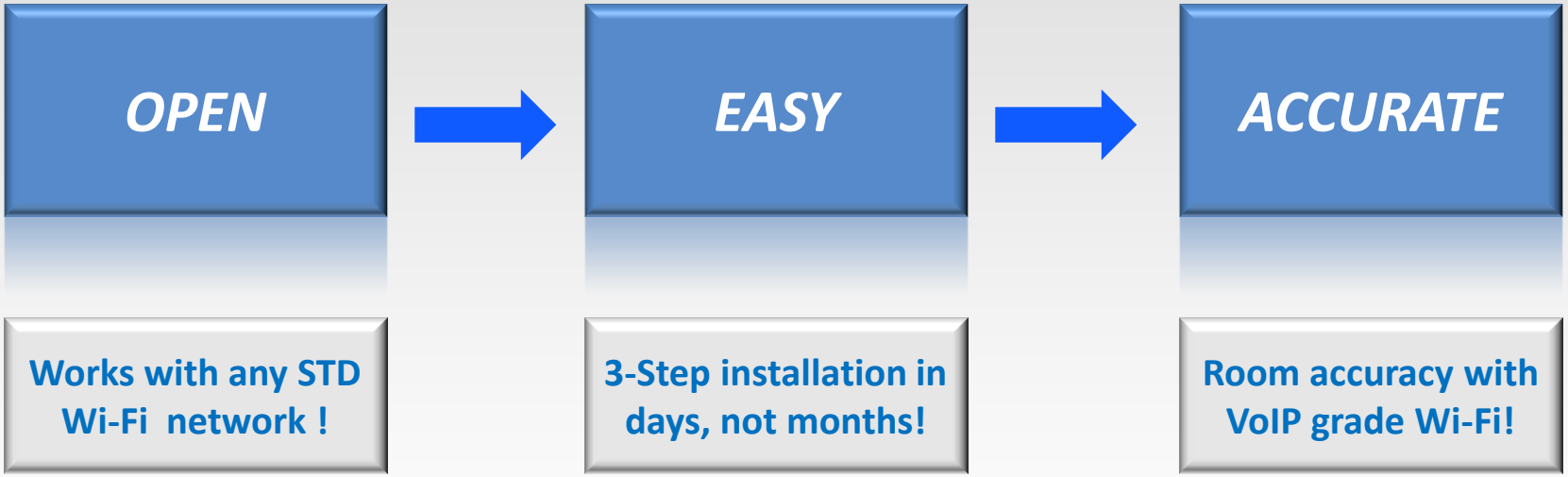
EKAHAU ADVANTAGE: OPEN-EASY-ACCURATE



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Thank You!

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