

Wireless: Reliable Factory Automation

What is Hindering Deployment? Challenges. Applied Research.

ABB STOTZ-KONTAKT GmbH Today's Panelist

Thomas Boenig

Area Marketing Manager
Wireless Automation (Factory; WISA)

Thomas.Boenig@de.abb.com

Phone 0049 6221 701 1388

ABB STOTZ-KONTAKT GmbH

Eppelheimer Strasse 82

Heidelberg, 69123

Germany

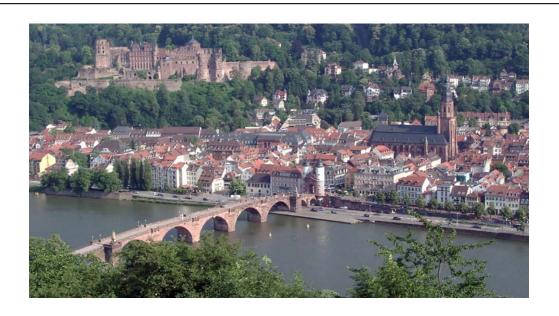




ABB: Wireless Factory Automation with WISA Concept = Cable Reduction = Reliability = Productivity

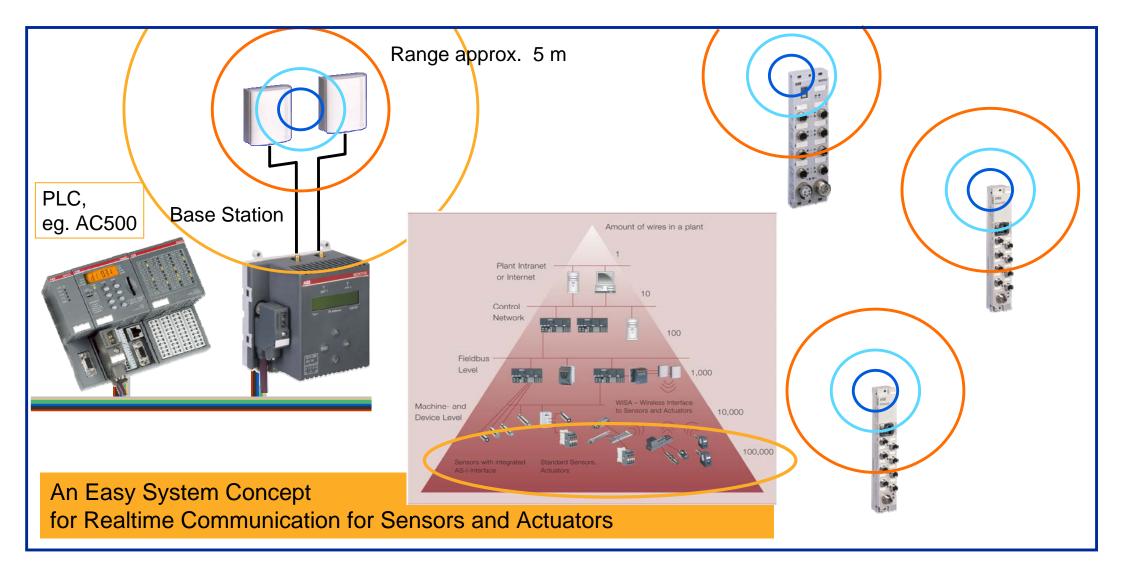




ABB: Wireless Process Automation WirelessHART for Sensors and Actuators







Wireless in Factory Automation Today and in 2012 and 2014

Today:

- WISA installations mostly in Automotive Industry
- ABB core businesses use WISA in own manufacturing, see YouTube
- Projects in industry and university run without complaints
- Awareness increases acceptance is there and grows slowly Early Adopters are now in our marketing & sales focus
- Retrofits to overcome production failures are easy to win

2012:

Early Majority uses Wireless, because constant marketing convinced buyers

2014:

Wireless is Commodity and everybody uses it like a Miniature Circuit Breaker



Issues Hindering Wireless Deployment Concerns about the Unknown

We learned:

- Let others try first!
- 2. My discipline is different from what it needs for your stuff.(I am mechanics, not electrics, not IT, not radio communication.)
- I have no time for something so new, so unknown.
- 4. Standards missing, feel uncomfortable because no alternative, no secound source
- 5 It costs more!?

Applied Research can help by:

- 1. Do research on "where improvements are urgently needed", work on use cases
- 2. Map different Wireless Solutions to Factory Automation Use Cases to help potential users to choose the most suitable wireless solution
- 3. Communicate the success stories of prototype use cases to potential users



Endeffector with WISA Example





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