

UHF RFID in Electronics

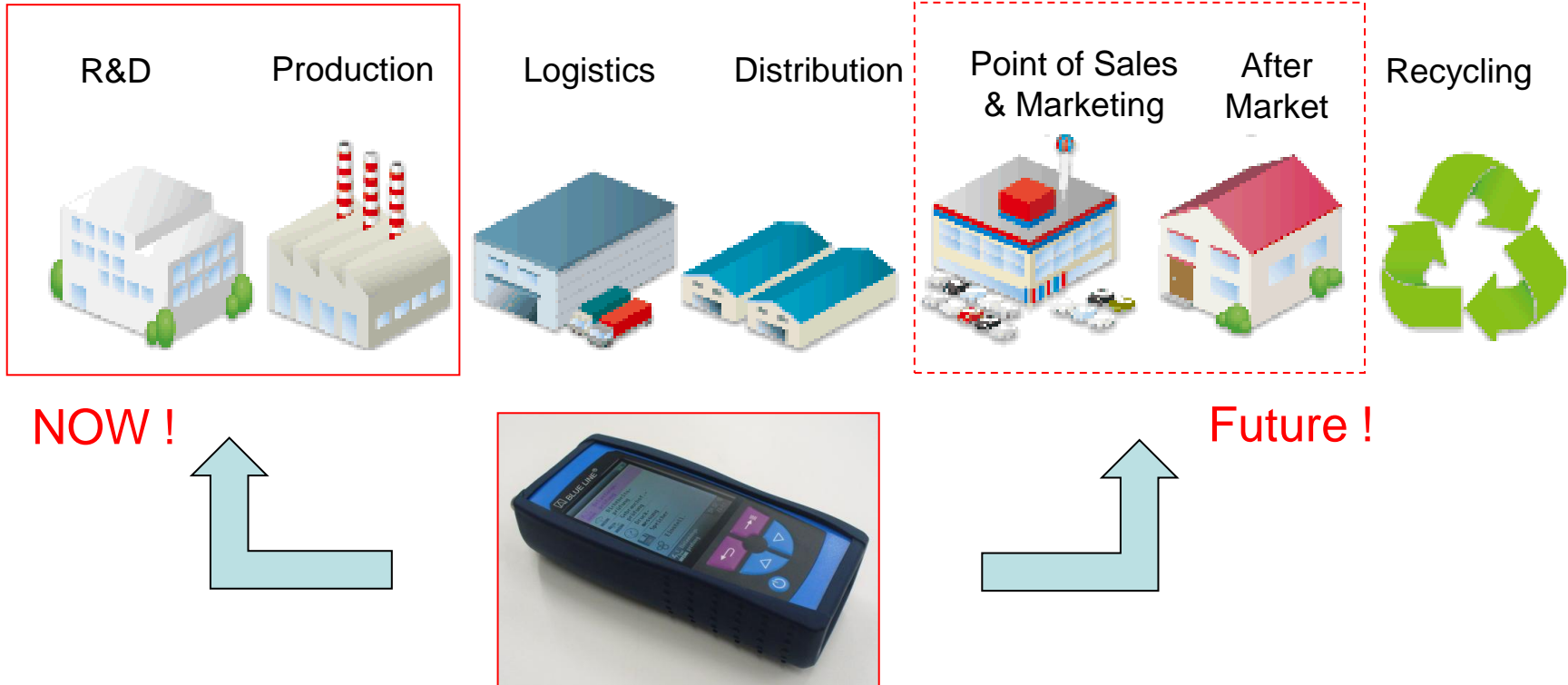
Use Cases of



MAGICSTRAP®



Use case of Systronik



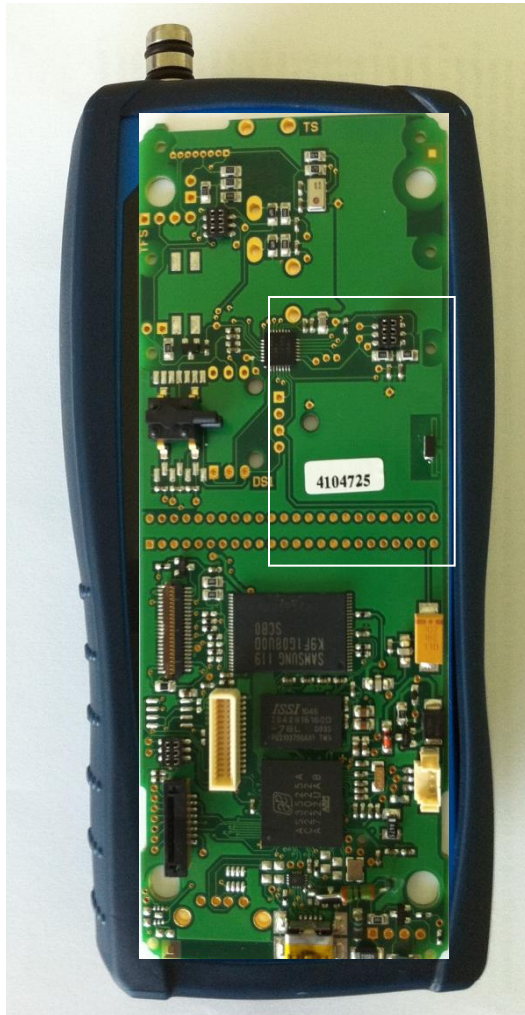
- OEM with own production
- Production partially by subcontractor
- EAU: 10 – 50k pcs
- Closed loop (until now) – RFID only used in premises of OEM

S2600 Blue Line Series



- Product:
 - Portable Gas Sensor Tightness Checker
 - for regular heating systems check in private houses

Before



**Printed Serial Number
on sticker**

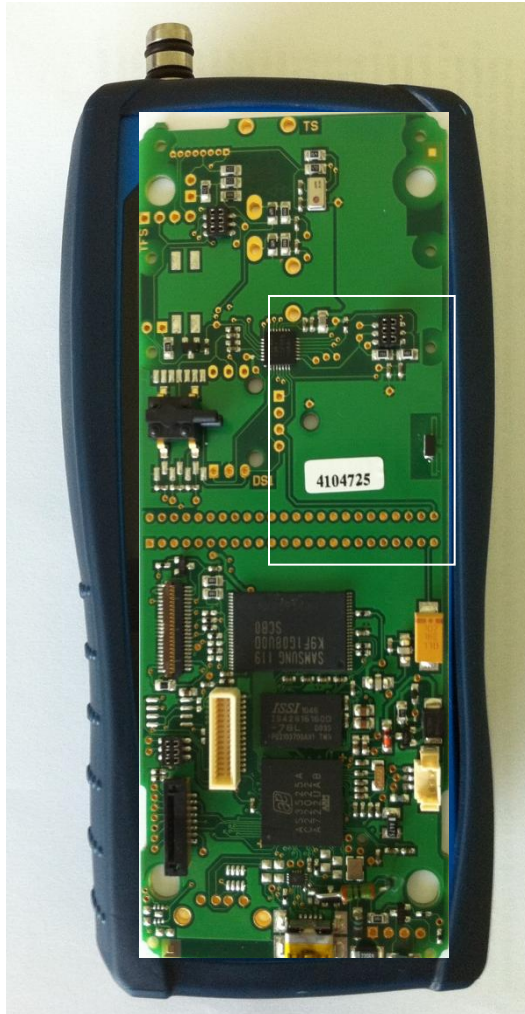
Past:

- Printed serial number on sticker for traceability
- In ICT (in circuit test), serial number was written into memory of controller, by connecting device to PC and then manually typing into memory

Problems:

- Human Errors
- Sticker lost or unreadable
- application of sticker only at end of PCBA process (reduced traceability data)

After



 **MAGICSTRAP®**
on PCB

Today:

- Magicstrap on PCB
- EPC linked to components in placing process
- Write calibration data in user memory of RFID

Benefits:

- Advanced traceability
- Calibration data available off-line and rewritable
- No more human errors

Read Range



Note: Read range is expected under 2W ERP condition from linear polarized antenna at 865MHz.

Screen shot of reader soft



Conclusion



- All use cases primarily located in production
- Subcontractor using even without selling PCB for higher price to end customer
- Further extension of RFID use already planned
- Step by step evolution
- ROI already through improvements in this step of value chain



And this is all just the beginning...



Beta
LAYOUT



detego
by RF-IT Solutions

KATHREIN
RFID

muRata
Innovator in Electronics

<http://www.rfid-valuecreators.com/>

<http://www.murata.com/products/rfid/index.html>