

A close-up photograph of a human fingerprint. A small, square, gold-colored RFID tag is placed on the ridge of the fingerprint. The background is dark.

# RFID Tags

## Myths and Realities

voor industrie & logistiek

# AutoID event

Identificatie & data handling 4.0

7 maart 2017  
Hart van Holland  
in Nijkerk



# FERM & Elincom



Ferm RFID solutions is specialized in realizing specific tag solutions for a variation of solutions and customers. Ferm RFID solutions is able to design and distribute labels to meet specific requirements.

[www.fermrfid.com](http://www.fermrfid.com)



Elincom electronics is a specialized distributor of industrial products e.g. RFID readers from Idtronic for the BeNeLux market.

[www.elincom.nl](http://www.elincom.nl)

**Together we can provide the best suitable solutions for virtual all RFID requests by combining our knowledge and products.**

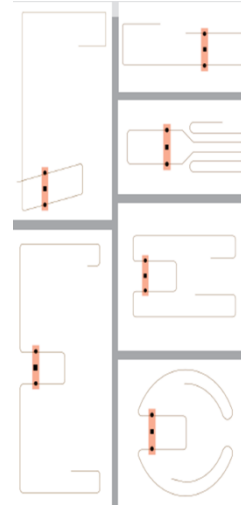
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# 1. RFID tag is a "talking" barcode

- SKU-level identification
- Sequential ("one at a time") reading
- Low production costs
- Simple to apply
- Standardised
- Requires "line of sight" visibility
- Easy to duplicate or remove



- Unique, item-level identification
- Real time capability
- Simultaneous ("bulk") reading
- Automatic & continuous reading
- Re-programmable
- Speed of processing
- Out of sight, from a distance
- Encrypted information

By applying RFID, you will be able to monitor & control unique product and asset movement & status continually, from manufacturer to end of life, in real-time

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## 2. You can read every RFID tag every time

- Read distance
- Read orientation
- Object material
- Environment (water, metal)
- Interference
- Bulk reading
- Tag material
- Tag attachment & position
- Tag protection





# 3. You can take inventory with the push of a button

- RFID is not RTLS
- It is all about read events (Portal, Mobile)
- What, when, where, why (EPC)
- Faster, 100% data accuracy, more resolution
- The 'real button' is although available, but not really needed and very expensive (eg Mojix)



# 4. RFID Tag delivers perfect information

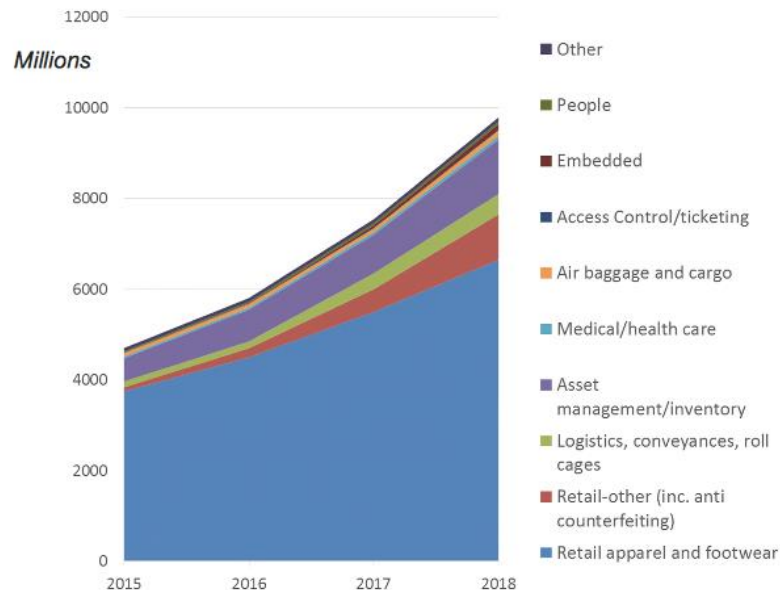
- Tag is only data input
- RFID Infrastructure is needed
- Software and integration is needed
- Not only happy day flow but also all exceptions
- From data to intelligent information is the key to improve the proces!



# 5. You can buy RFID tags for 5c

- The market for UHF RFID tags, readers and infrastructure will grow to more than \$3 billion by 2020
- Driven by increased adoption in retail apparel and tires
- Cheapest Retail tags around 7c
- Only new production techniques and adoption in other markets will allow further decline of production costs

## RAIN RFID Tags Forecast



## 6. The tag cost is critical to making any deployment pay off

Improvement in inventory accuracy by	30% to 60%
Better Inventory Accuracy	Between 95% & 99.9%
Reduction in Physical Count Time by	50% to 90%
Reduced Inventory Carrying Costs by	10% to 35%
Reduced Counting Man Hours	20% to 45%
Reduction in Inventory On Hand	5% to 20%
Reduction in Expedite Fees	5% to 18%
Reduction in Operating Costs	From 1% to 5%





# 7. RFID tags are primarily used in supply chain



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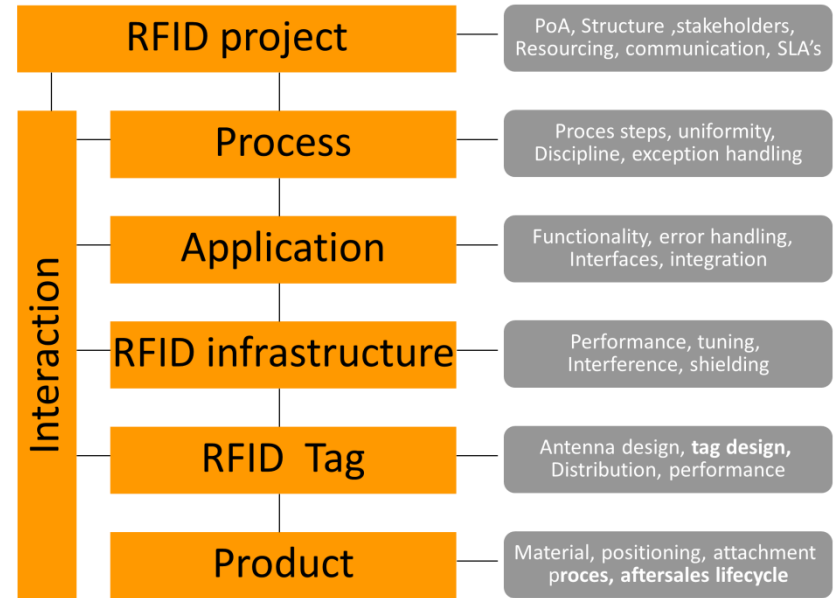
# 8. RFID spells the end to privacy

- Big Brother
- Kill switch, password protected read and write
- Meaningless number
- You also need connection to the database!
- Security and encryption at system level
- Do you also worry about your mobile phone ?



# 9. RFID Tag is easy to deploy

- The RFID tag is not a goal on itself but is an enabler to improve the processes
- The tag is only a part of the solution
- The tag is only the data input and not the data management
- There is no one size fits all
- It is not plug and play
- You need experienced system integrators and tag solution providers to implement a successful RFID Solution



# 10. I can afford to wait

- Start early and small
- Proceed slowly
- Learn step-by-step
- What ever you do, make it futureproof and flexible (EPC)
- What about law and regulations in your industry?
- Think Big start small!!





# Welcome to the RFID World.....



<https://www.youtube.com/watch?v=aYmNuUI27ws>

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discover  
questions  
how?  
where?  
why  
asking questions  
challenge  
who?  
clues  
ask  
who?  
discover  
when?  
knowing  
investigation  
clues  
how  
why?  
ask  
knowing  
investigation

# QUESTIONS

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