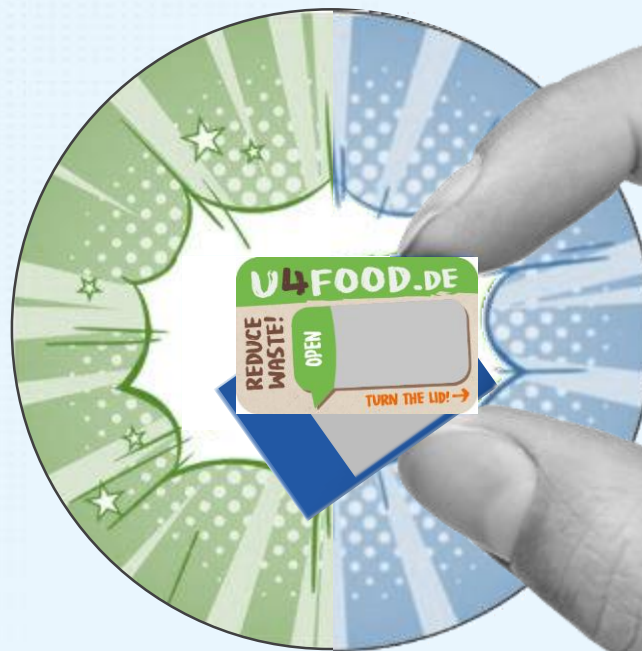


PolyTaksys

SMART LABEL TECHNOLOGY

OPEN MONITOR

Use cases



open 
Monitor



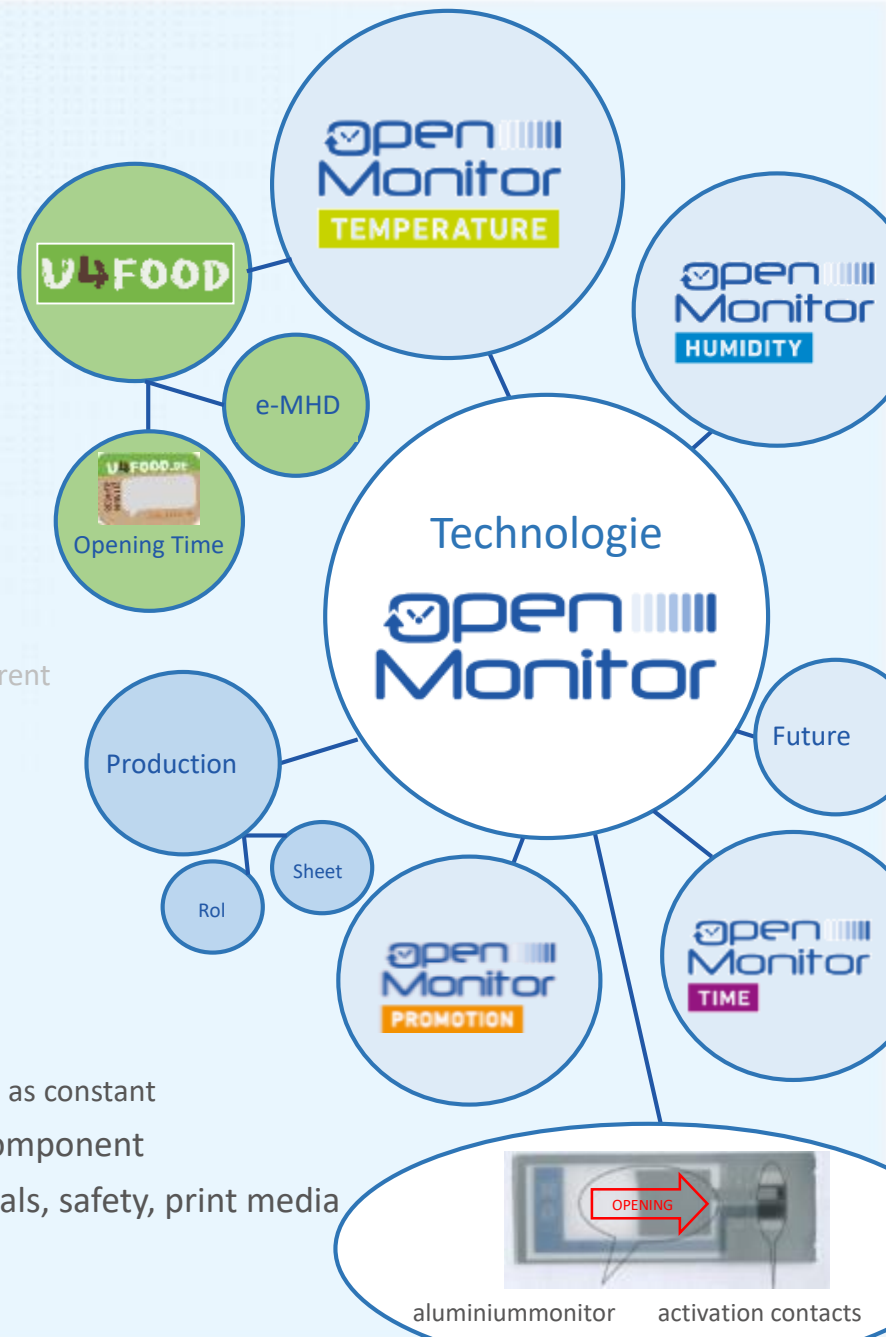
TECHNOLOGY- OPEN MONITOR.

The electronic nanofilm processor

- Intelligent Smart Labels
- Self-writing effect = central function
- Lateral oxidation principle = aluminum neutralized, layer becomes transparent
- Self-sustaining processor = without any battery
- Patented

Performance & Use

- Sensory functions
- Exposure of individual information
 - Dependent on environmental conditions or defined as constant
- To be dispensed or as an integrative packaging component
- Fields: food, beverages, pharmaceuticals, chemicals, safety, print media





TECHNOLOGY + SENSORS OPEN MONITOR.

What is in a label with Open Monitor technology?

The electronic nanofilm processor

Sensoric functions

+

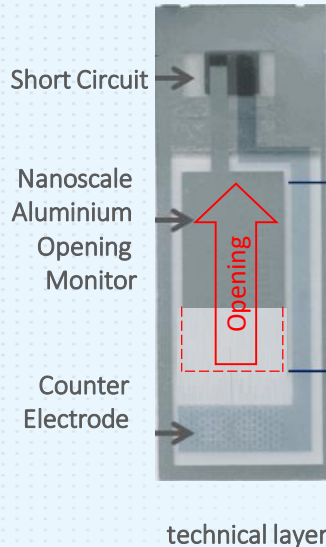


Bridges to

digitalization



variable linking options



+

“Temperature”

Works with

← temperature in correlation with the time factor

+

“Humidity”

Works with

← humidity thresholds and in correlation with the time factor

+

“Time”

Works as

← encapsulated system analogous to a clock, independent of external influences

+

“Promotion”

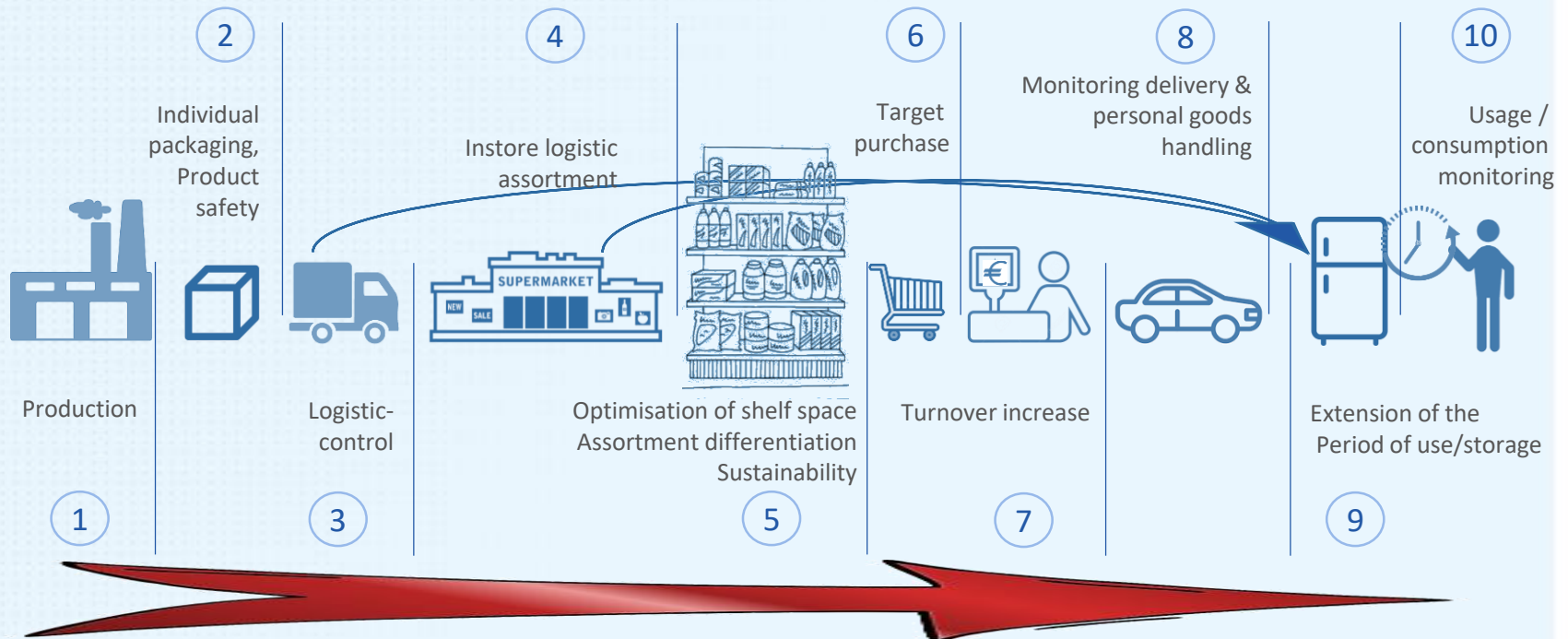
Uses

← environmental influences for its own dynamic



OPEN MONITOR TECHNOLOGY – WHAT IT DOES.

CREATING PRODUCT SAFETY IN THE PROCESS AND SUPPLY CHAIN



WE CONNECT

RFID

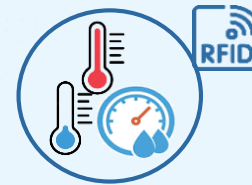
**MEASUREMENT RESULTS
DIGITAL**

 **open** 
Monitor



RFID LINK WITH OPEN MONITOR.

WE CLOSE THE GAPS
of cold chain and humidity monitoring



We supplement the digital tracking of the storage and cooling areas

- with an analogue visualization on the Smart Label Monitor,
- make the results readable via markers with RFID or similar other tags,
- and secure where digital tracking does not work.



STORAGE



PROVISION
ROOMS



INSTORE
LOGISTICS



DANGERS-
TRANSITION





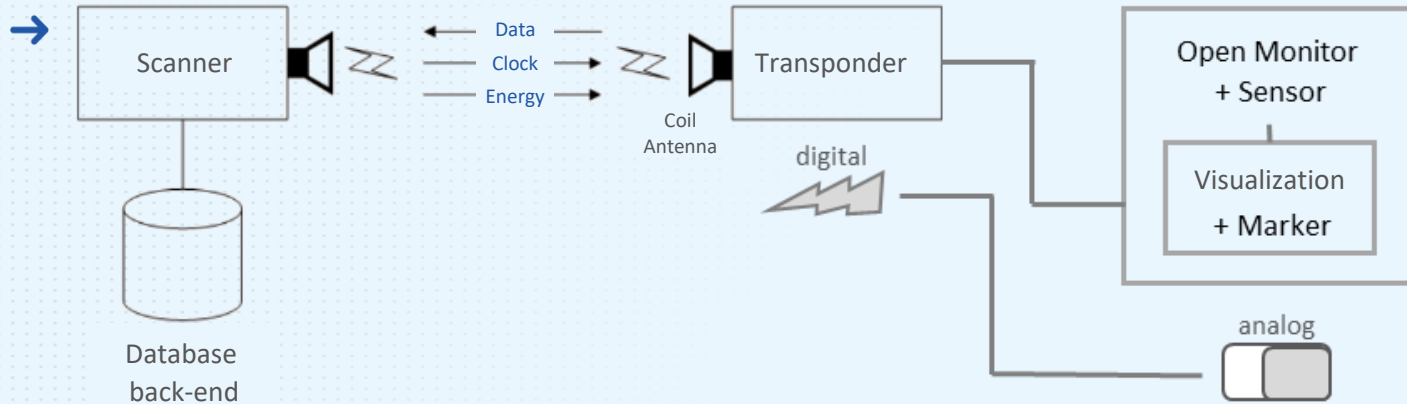
RFID LINK WITH OPEN MONITOR.

QUALITY CONTROL internal and external



It enables contactless storage and reading of data.

→ Automatic contactless and unique identification without direct visual contact.

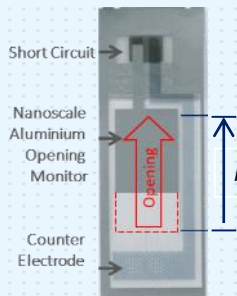




RFID LINK WITH OPEN MONITOR

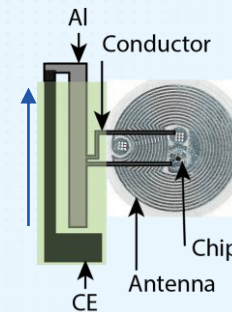
QUALITY CONTROL intern and extern –OM can start or stop RFID labels according to time-temperature or time-humidity results.

The technology



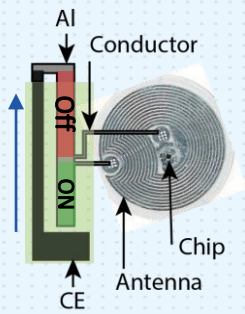
- Thin aluminium layer (20-40 nm) is dissolved
- Principle: Galvanic cell (battery)
- Dependent on humidity, temperature and/or time!

Linking with RFID

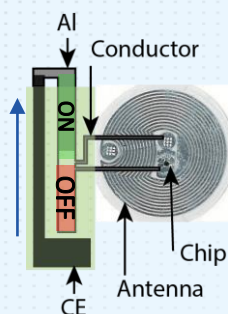


- RFID antenna is connected to the aluminium layer of the OM
- By dissolving the aluminium layer, the contact of the conductors to the RFID antenna is interrupted.

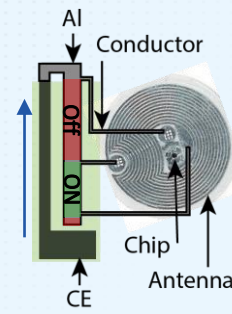
Switching options



OM as part of the antenna:
ON → OFF



OM short-circuits antenna: OFF → ON



Combination:
OFF → ON → OFF

Use cases

- OM can track the humidity and/or the temperature
- Different switching options to activate or deactivate RFID label
- OM shows the result optical on label and RFID shows the real situation digital readable



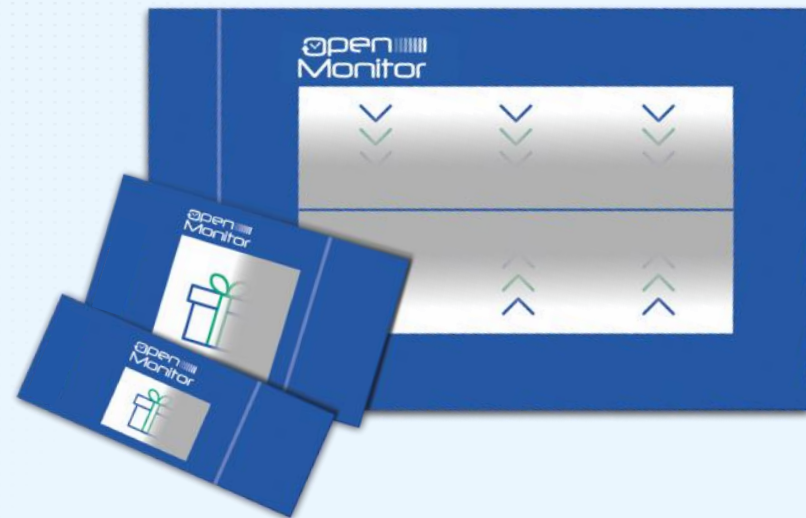


STARTING INTO A NEW ERA WITH OPEN MONITOR.

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Duty to inform about data collection according to DSGVO Art. 13

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