



ENSO  
FLEXPRO

# The Smart System

The Smart System improves cost, time & quality of logistic processes by optimizing the overall system

All companies receive goods in the warehouse without knowing if the transport was ok unless the package shows some damage. The people in the transport chain decide about the time & quality of the transport.

## How can they be better involved?

The solution is an electronic sealing which indicates a broken sealing due to a flashing light to the transport personal if the delivery conditions are not met. This enables the people in the incoming warehouse to refuse a delivery if the sealing was broken.

## Smart Box

The Smart Box contains a built in electronic circuit with an active sensor RFID linked to a Web Platform. It is an electronic sealing with a built in condition monitor for:

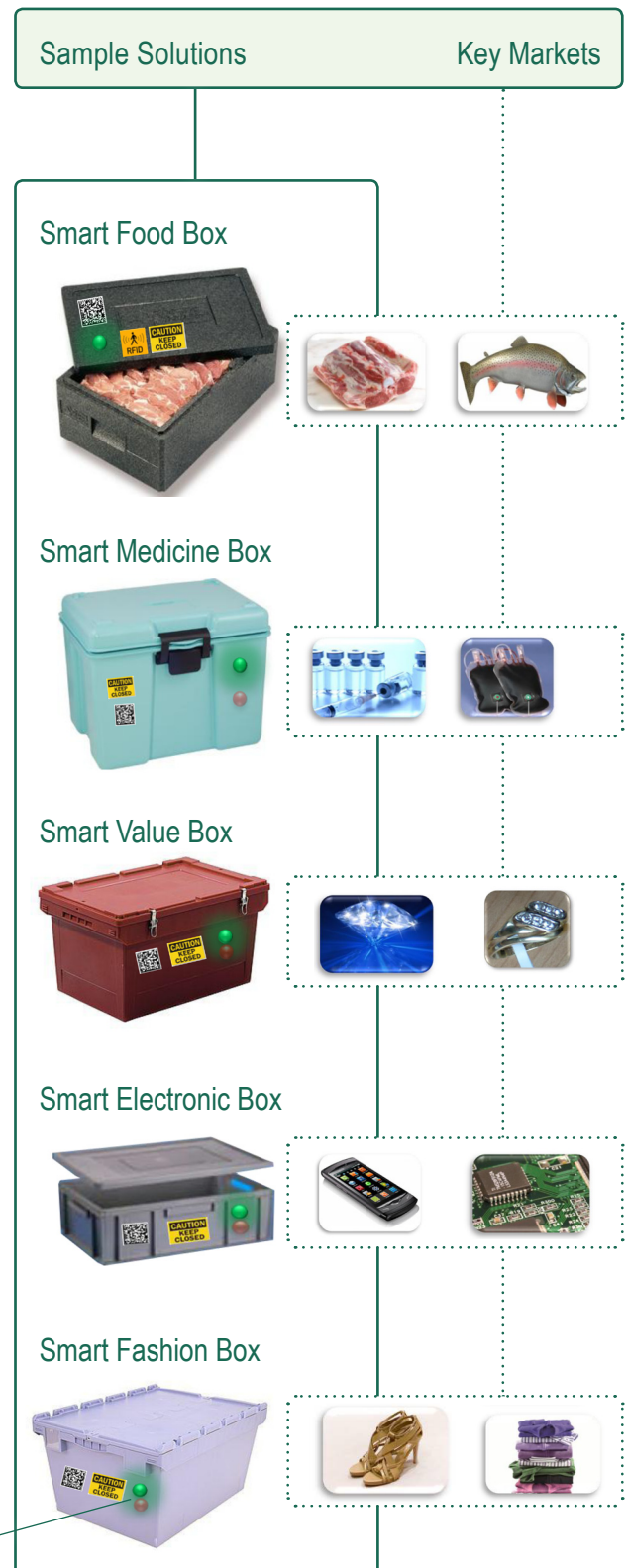
- ▶ Unauthorized box opening
- ▶ Temperature range
- ▶ Acceleration range in 3D (shaking, falling down,...)
- ▶ Time stamp (storage life)

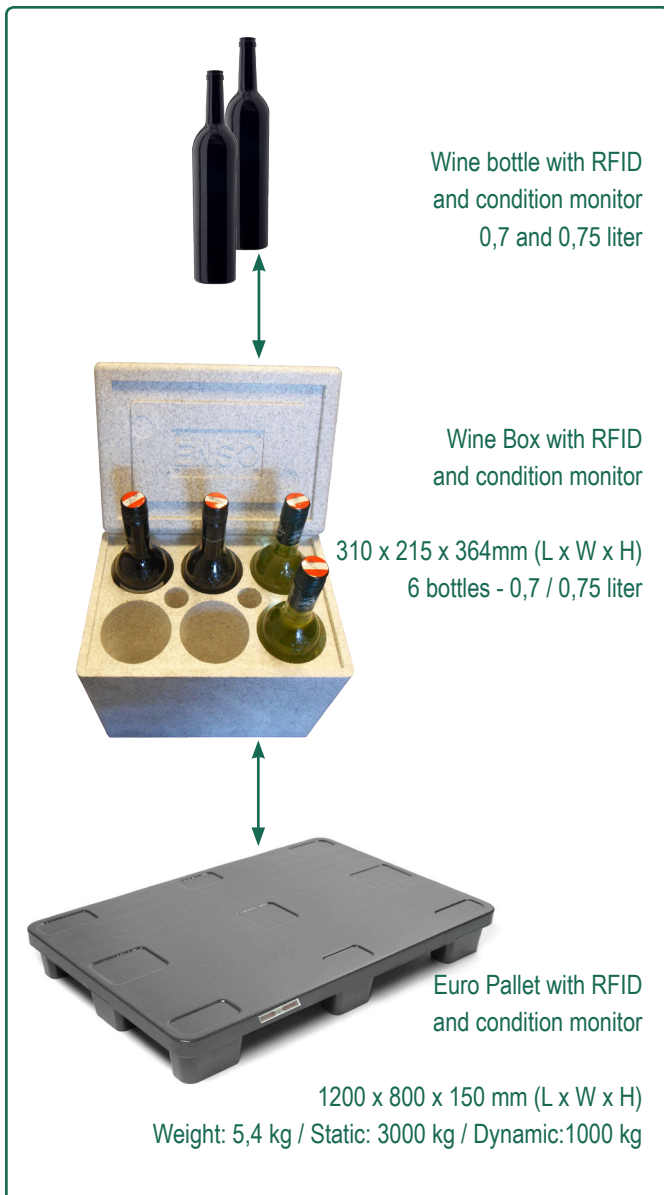
## Key applications for the Smart Box

- ▶ **Feedback:** Instant feedback to transport staff for sensitive goods
- ▶ **Delivery:** Transparent delivery with high consumer acceptance
- ▶ **Protection:** Trademark protection, product RFID linked to box RFID
- ▶ **Inventory Management:** Information & Security System
- ▶ **Warranty:** Zero failure delivery, optimized logistic

## Condition Monitor

The instant feedback targets the logistic risk:  
ok (green) or sealing broken (red)





## Web Platform with RFID as a Service

Conventional RFID solutions have the burden of proprietary systems and large investments. In order to increase the speed & quality of the logistic process a transparent logistic software system is needed across the proprietary logistic systems.

### What can be done to create transparency across the logistic network?

We created a logistic platform which operates in the cloud and which allows to connect different logistic systems. The new system works without proprietary software and allows operating the RFID solution as a service with micro payments.

## Software

The Software of the condition monitor is powered by Enso Detego GmbH. The product **detego® SURVEYOR** is an RFID-based, comprehensive asset management solution for the recording and tracking of assets, transportation, tools and high-maintenance equipment. The efficient and fully tracking of sensitive goods represents a significant value in the supply chain.

**detego® SURVEYOR** ensures the monitoring of deliveries in conjunction with special Smart Boxes in the fields of food, pharmaceuticals, watches & jewellery, electronics and fashion.

[www.enso-detego.com](http://www.enso-detego.com)



## About Enso Flexpro GmbH

Enso Flexpro GmbH is a smart packaging systems provider to the broader Industry. A smart package consists of advanced hardware, electronics and logistic software configured to meet a specific customer need. The company offers reusable packaging systems and solutions. Essential hardware used by Enso Flexpro is based on Advanced Materials and Composites developed internally within Enso Group.

## Contact

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