Smartpouch

In recent years, the air cargo industry has made great progress towards digitalisation, yet freight processes on the shop floor are still relying on a large amount of physical documents and the availability of digital freight information in the handling process is still limited.

The availability of this data forms the basis for an efficient and standardised flow of goods, for the internal process optimisation of all stakeholders and the generation of data regarding the status and location of the freight. IoT devices and IOT-connected hardware can bridge the gap between the shop floor and the information available in the supply chain and add value.

Goal

The goal of SP2 is to analyse the existing handling processes along the flow of goods and, on the basis of these findings, to develop software and hardware concepts that are capable of individually displaying data in different handling processes and generating freight-specific data and, in the course of this, to improve and standardise the existing processes across the company.

NE:ONE Tag

Scan the QR Code → Retrieval of the requested Data → Smart Data View of the requested data
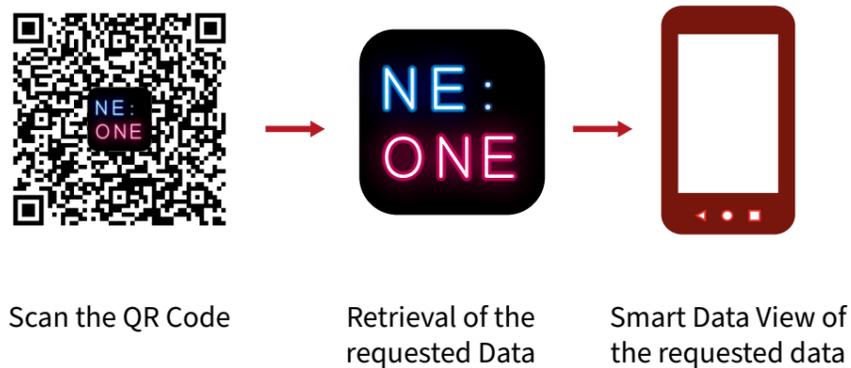
NE:ONE Tag forms the interface between the data available in ONE Record and the shop floor. This is software that can display and write existing data individually by process step at the piece level. This enables the automatic sharing of critical information via ONE Record.

Application Areas:
Inbound/outbound logistics, handover processes, support processes, warehouse processes

Smart Device

Track & Tracing

Speed

Temperature

Shock

External Sensors

Communication with NE:ONE

Smart device (active)

1. Digital linking of Pieces to aggregated levels

2. collecting Infomation

3. inheritance of the information to the aggregated
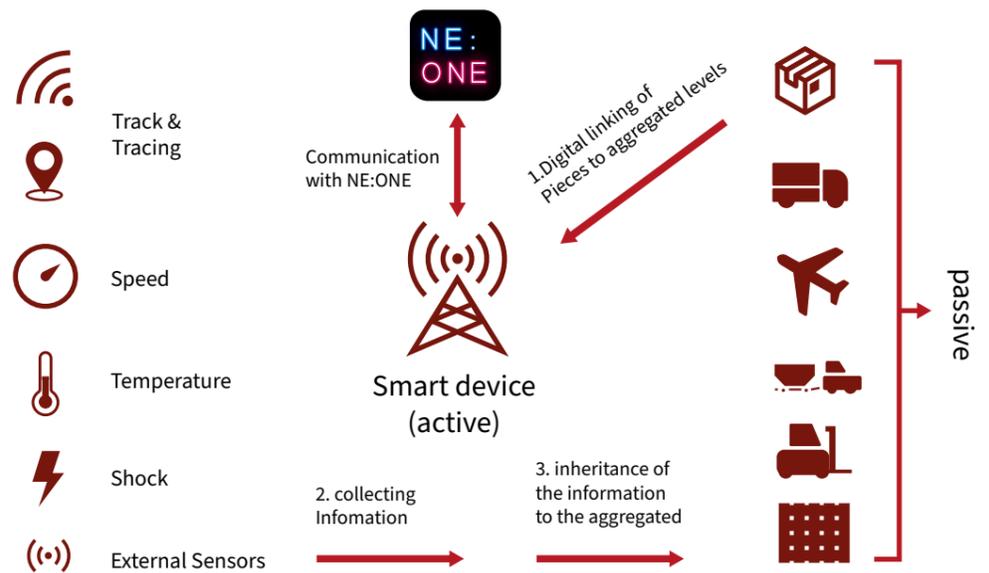
passive

The **Smart-Device** connects the structure of various objects from reality via active and passive beacons and transfers them to the One Record data structure. This allows freight data, such as the current position, to be automatically transferred to a large number of consignments and actively shared.

Application Areas:
Build-up/break-down, transport movements, storage processes