Innovative Temperature Monitoring Solution
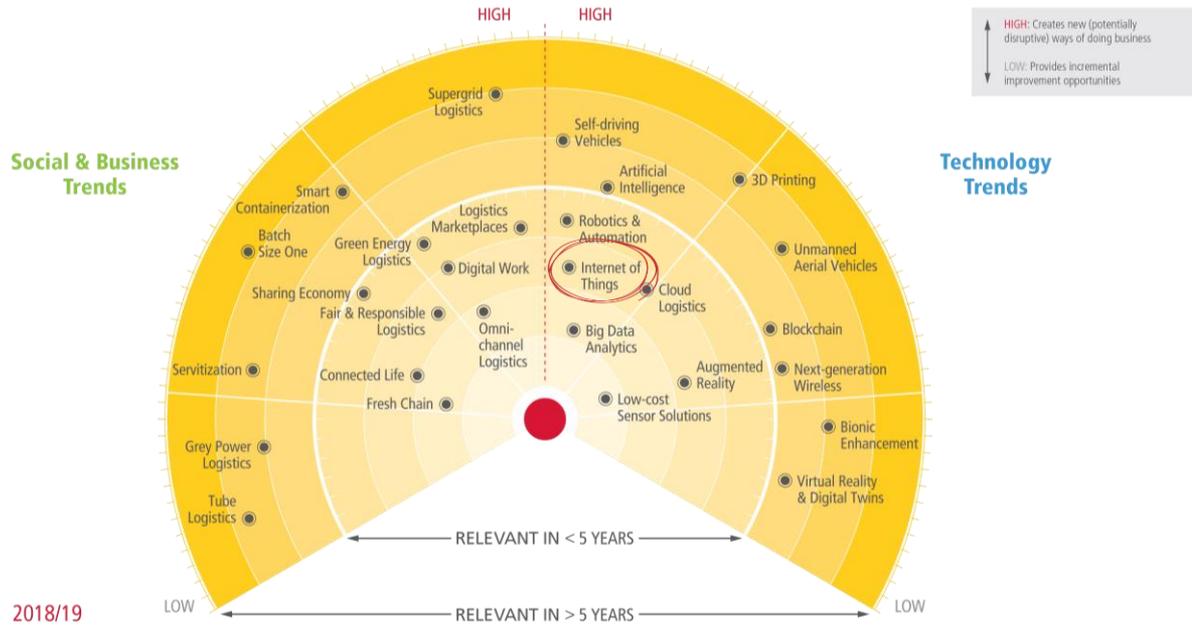
Blulog & DHL
22nd GCCA European Cold Chain Conference
21 March 2019 | Brussels

DHL

What is the next technology to use?

The DHL Logistics Trend Radar 4.0

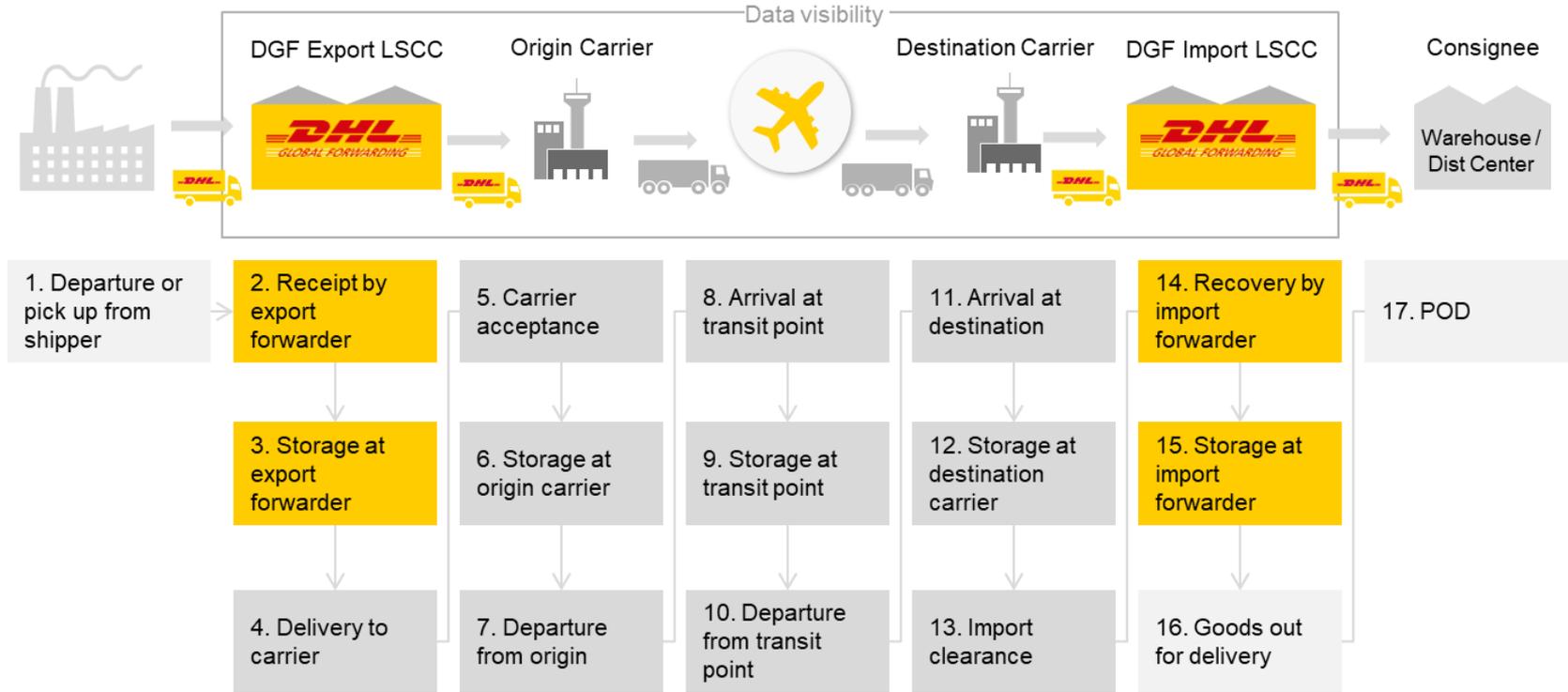# Joint collaboration between Blulog and DHL

SMARTSENSOR

blulog

DHL Thermonet – visibility on temperature controlled shipments
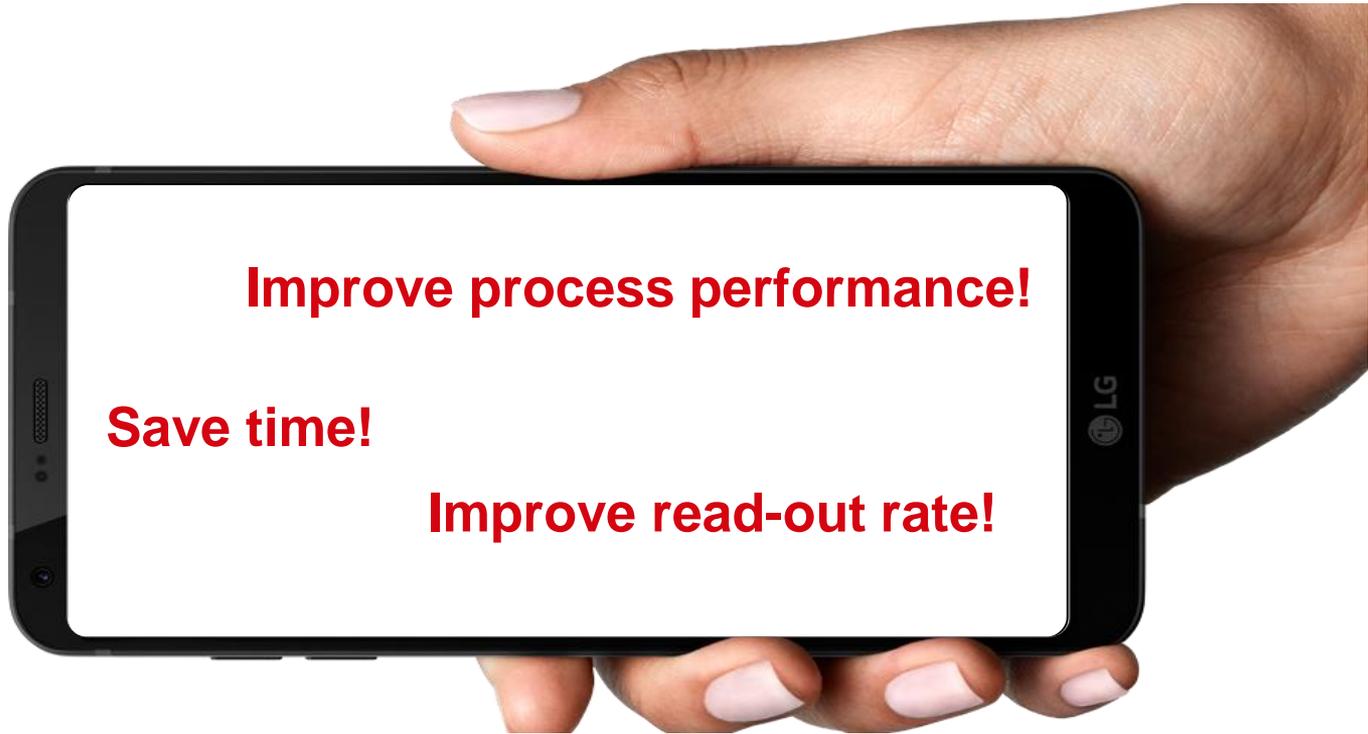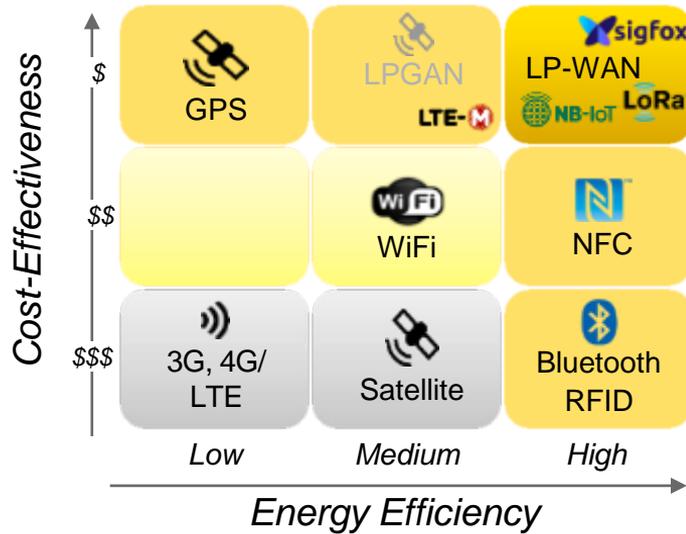
DHL SmartSensor RFID

THERMONET

- DHL SmartSensor **RFID** device in use since **2010**

- **130,000 devices** have been deployed

- **>120 GB of data** submitted

- **> 200 million temperature measurements**

- Full compliance with **pharma requirements** (EU GMP Annex 11, US 21 CFR Part 11, EU GDP)

>> Back in 2010 RFID was the state of the art technology to provide visibility

Purpose

Improve process performance!

Save time!

Improve read-out rate!

1st step: technology screening

2nd step: partnering with Blulog

- Several **months** of **testing** samples, audits and meetings
- BluLog temperature loggers already **compliant with all regulations**
- **Adjustments** and **individualization** accordingly to DHL needs
- **Integration** of two systems
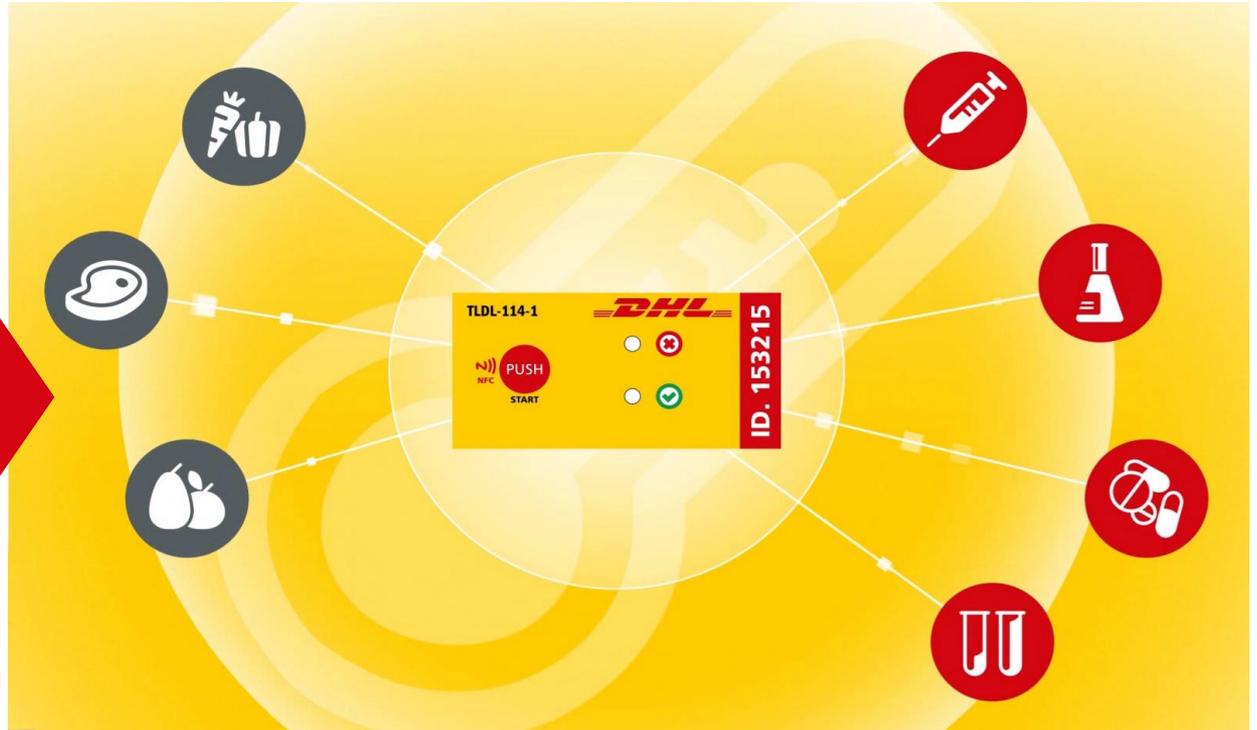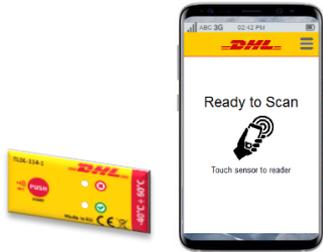- Facilitating use with **highest quantity** of shipments

▼

*The **engagement level** of the partners during the phase of testing and improvements allowed to come up with a great „new" product at the **next level***

Loading/Packing
- Loggers preprogrammed with Thermonet profile
- Possibility to add logistics and product info and IDs
- Easy integration with serialization, tracking and quality platforms
- Start via Smartphone App

OK

In-transit / Import
- Logistic agents can check parameters via NFC without opening the box/pallet
- Current temperature / geolocalization info is sent to Smart Sensor Webportal / LifeTrack, allowing proactivity

Read-out via Smartphone App
- Temperature profile directly viewable in Smartphone App
- All the data is uploaded to the Smart Sensor Portal / LifeTrack

PHARMACY

3rd step: rollout solution

Prerequisites

- ✓ Android phone
- ✓ Readout App
- ✓ Temp loggers

Immediate project payoff

Faster scanning of temperature data, w/o need for specific hardware

▶ **40% less spent on operations to get things done**

Easy to use – everyone with a smart phone can do it

▶ **Removing obstacles to executing sensor readings**

Ambient temperature data visible within seconds

▶ **Mobile App to gain instant access**

Cost effective as compared to RFID

▶ **40% less expensive**

Benefits from an open innovation approach

blulog

+

SMARTSENSOR

Passive NFC Tag

+

Android App

A simple **technology upgrade** can generate **significant benefits** in

- **operational efficiency,**
- **process compliance,**
- and **cost**

available for 3rd parties

Questions? Contact us!

SMARTSENSOR

Christopher Fuss
Head of IoT Accelerator
@ christopher.fuss@dhl.com
☎ +49 174 7846613

blulog

Jeremy Laurens
Cofounder & CEO
@ jeremy.laurens@blulog.eu
☎ +48 606 641 176

THANK YOU