





Case study: Leveraging IoT to maximize efficiency and process stability in Automotive logistics

**BOX ID Systems GmbH** 

**Sigfox Poland** 

Kraków, 2024





#### **BOX ID – Streamlining transport logistics with IoT/SaaS**



Founded 2018

**Headquartered Munich / Germany** 

#### **Mission Statement:**

**Eliminate Waste** in Transport Logistics



Serving 60+ customers worldwide



85.000+ connected assets



Strong team with 20 FTE





Worldwide Partner Network



Strong Investors e.g. KPN B.V.



SaaS and IoT for Supply Chain

#### **Solutions for**

- Reusable Transport Packaging
- Mobile Asset Tracking
- Process Monitoring

#### **Industries served:**

- Automotive
- Machinery
- Retail/Wholesale
- Glas/Windows
- Cargo/Parcel







#### **Reusable Transport Packaging (RTP)**

#### **Reusable Transport Packaging:**

- Is a 107 Billion € worlwide market (in 2023)
- Is focused largely on B2B supply chain
- Is enforced by EU legislation for sustainability









#### **Sample fleet values:**

Carmaker: 750 M€Machinery: 50 M€

■ Retailer: 15 M€

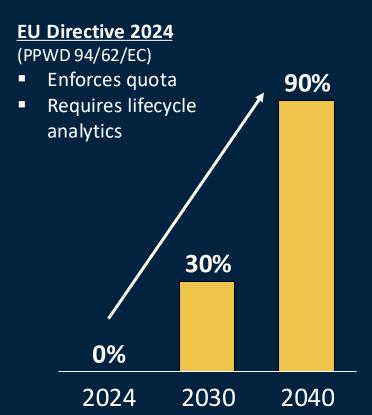
■ Glassmaker: 5 M€

#### Wasted fleet value per year

Loss of assets: 3-15%

Underuse: 8-20%

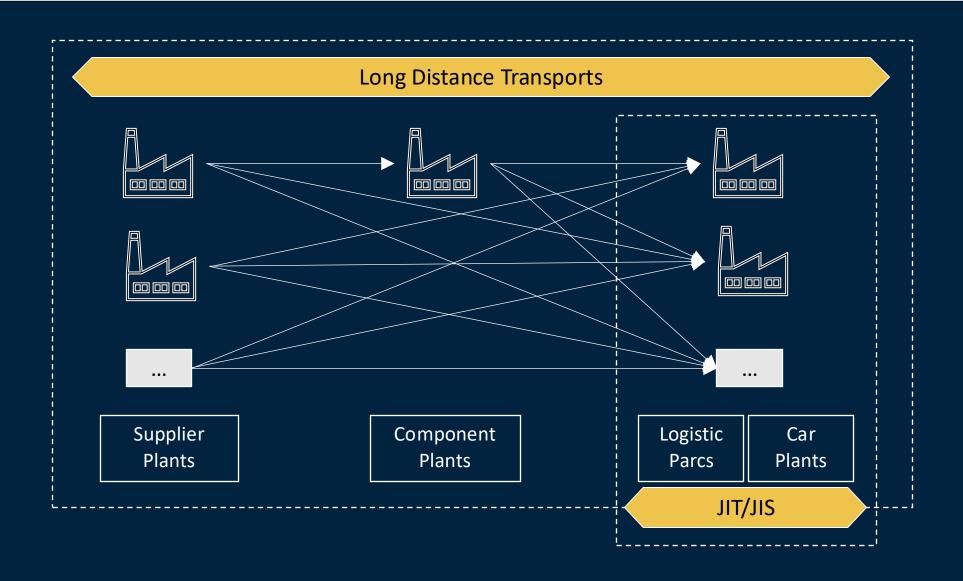
Shortages: case specific







# **Automotive Supply Logistics**



# sigfox poland



# **Long Distance**

# **Long Distance Transports**







# JIT/JIS

# JIT/JIS









#### Problems of the individual load carrier



- Loss or damage due to lack of traceability
- Unplanned downtime due to insufficient location information
- Time lost due to manual searches for unavailable load carriers
- Difficulties in meeting compliance requirements
- Unforeseeable costs due to undetected damage

Lack of traceability and undetected damage cause costs and downtime

#### Problems of a load carrier fleets

sigfox BOXID

- Lack of coordination leads to inefficient use
- Difficulty in prioritizing shipments and resources
- Insufficient fleet utilization due to inaccurate information
- Complicated troubleshooting of fleet-wide problems
- High costs due to ineffective route planning and resource allocation

Lack of coordination and inefficient use of the fleet lead to higher costs and delays along the supply chain.







#### **BOX ID an End to End Solution – Involvement of OEM, 3rd Parties, Customers, Distribution services**

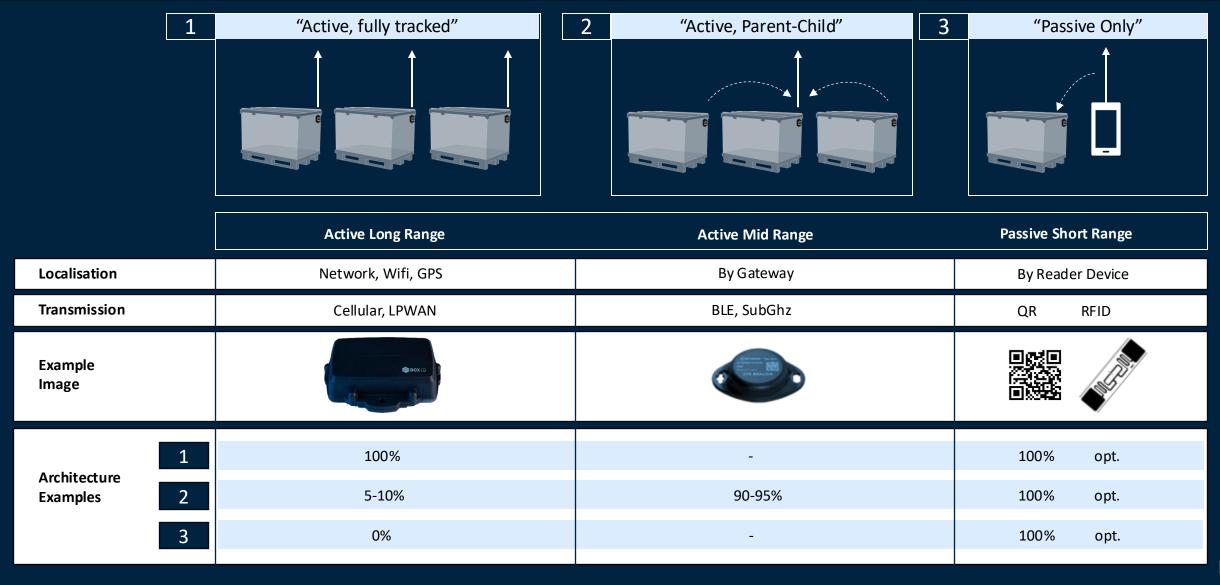


App + special QR code





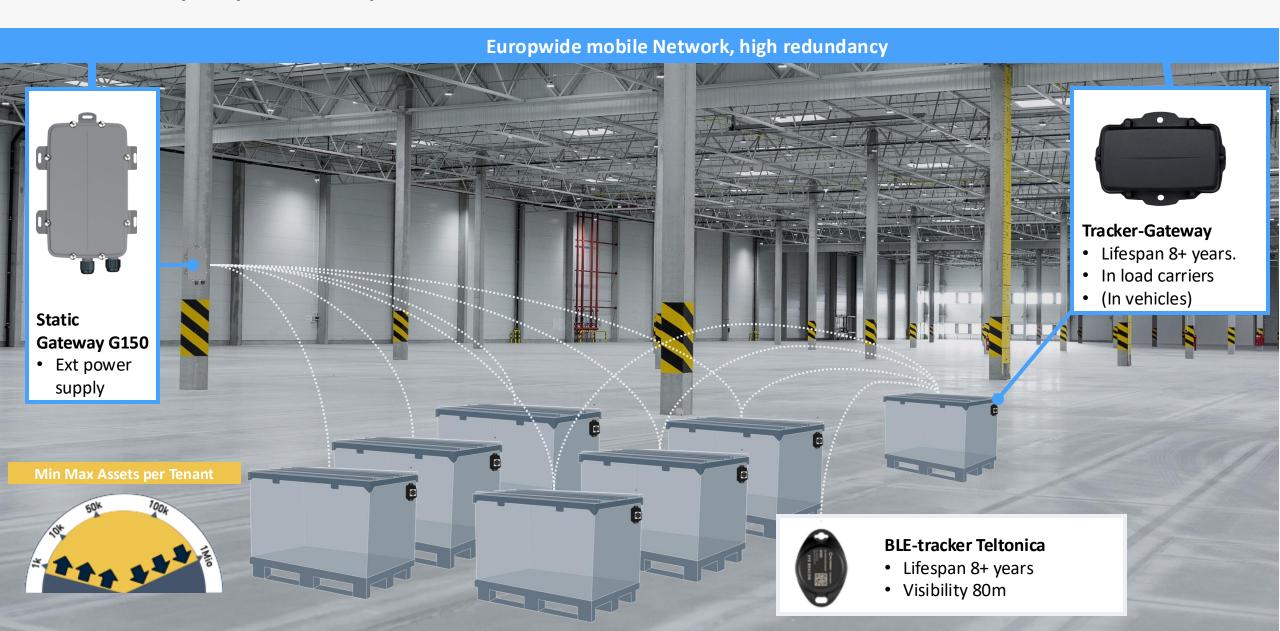
# Connecting fleets of returnable transport items by IoT







# Functional principle – Data acquisition and hardware

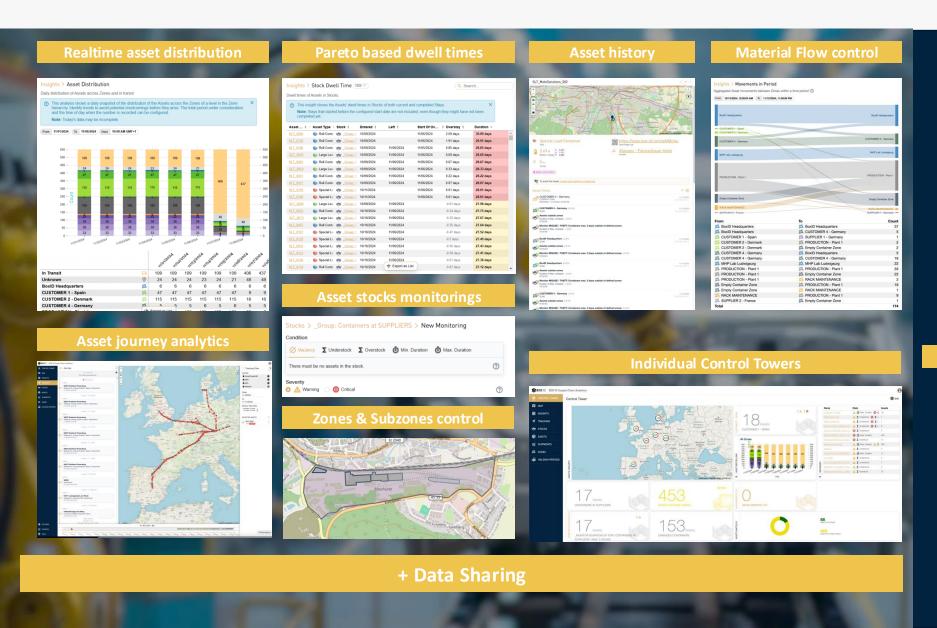


MotoSolutions 2024

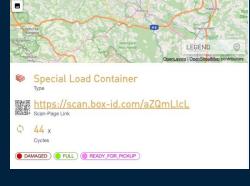




#### One System to gain full control of RTP fleet management and transport logistics improvements



# Asset Overview SLT\_0139



#### Scan Page based communications









# **Customer video**

# VIDEOTO BEADDED

**Benefits** 



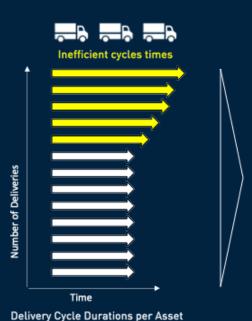


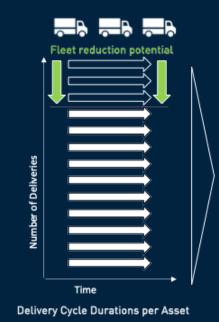


# **Long Distance Transports**

#### JIT/JIS

### BOXID RTP Management for Automotive







- Streamlining operations
- Avoiding breaking the sequence
- Frozen stock CAPEX reduction
- Full cycles management and visibility

- Highly scalable solution for large corporates
- Large fleet management capabilities
- High saving potential hidden in cycle durations
- ROI realisation in <1.8 years
- Reduction potential of fleet sizes up to 25% for long distance transports
- Additional transparency benefits in JIT/JIS cycles

\*RTP Replacement value 1000€; 4000 RTPs in Fleet; 20% of the Fleet with extended cycles (30 days instead of 10 days); hidden unoptimized potential of 533k€





























**Matthias Piekarczyk** 

Head of Sales, CSO

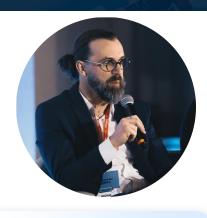


★ BOX ID Systems GmbH Lichtenbergstrasse 8 DE 85748 Garching

**→** +49-160-6357642

<u>m.piek@box-id.com</u>

www.box-id.com



Michal Kowalski

Partner,
Sales & Business Dev.

sigfox poland

★ SFP Provider Sp. o.o.
Gwiazdzista 71,
01-651 Warszawa

**>** +48601134048

mkowalski@sigfoxpoland.com

www.sigfoxpoland.com

Thank you for your attention