UIC DIGITAL AWARDS
DECEMBER 6TH 2018

TRAXENS
DIGITAL FREIGHT TRAIN

TRAXENS DIGITAL TRAIN SOLUTION

- Based on Industry know-how and expertise
- Designed to work worldwide, in severe environment and manage any type of assets
- Fast Time-to-Market: 2 years from design to implementation
- Designed for multimodal containers and already adopted by MSC and CMA CGM
- Building a turnkey solution on existing not powered logistic asset

DIGITAL FREIGHT TRAIN AN ECOSYSTEM SOLUTION

ONE DEVICE FOR ALL

Shippers — Geolocate their shipments in real-time anywhere around the world and receive alerts at key locations

Railway Undertakings — Optimise their wagon fleet and streamline operations

Wagon Keepers — Use preventive and predictive maintenance based on hard facts (accurate mileage, shocks/brake/axle monitoring)

Customized services — Door opening, Humidity and Temperature monitoring and Remote Control
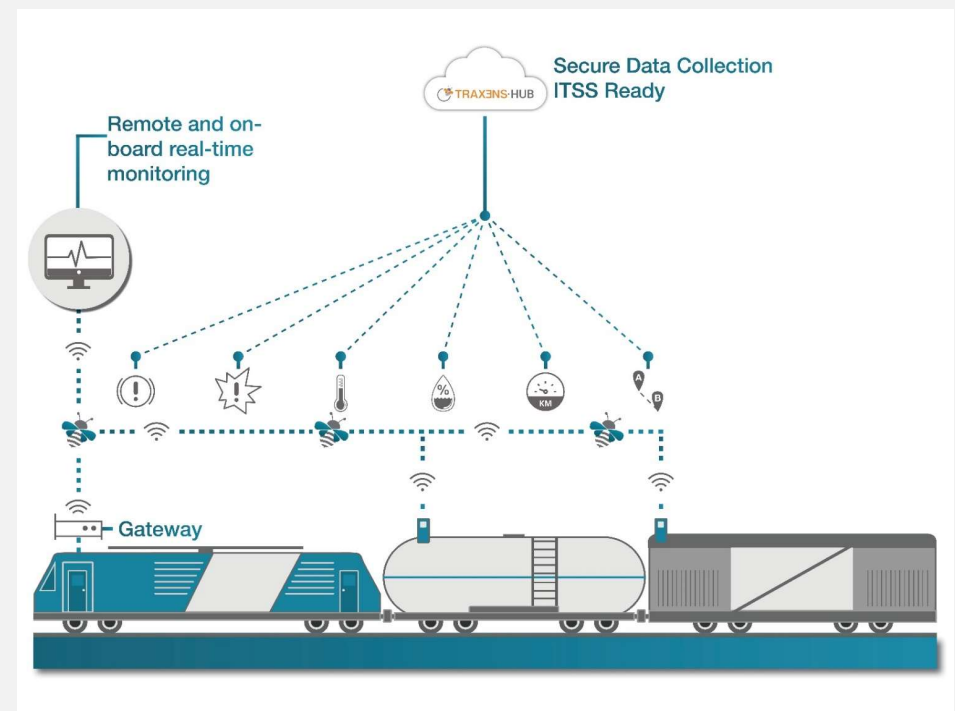
DIGITAL FREIGHT TRAIN
EUROPE'S FIRST FREIGHT TRAIN TO USE INNOVATIVE IOT-BASED SYSTEM

- Composed of smart devices capable of communicating with each other using wireless digital network creating a mesh network

- Allowing digitalization of operations and mutualization of the energy consumption

- Each box can be paired with specific sensors installed on the wagon

- Data is accessible locally for the driver and globally via the cloud

5000 wagons equipped with TRAXENS-BOX
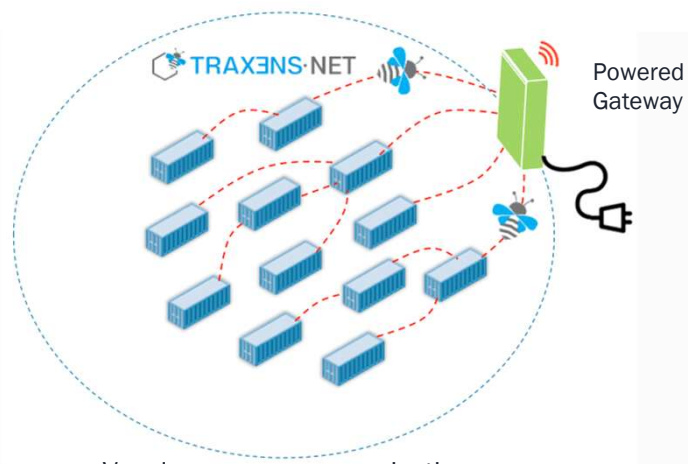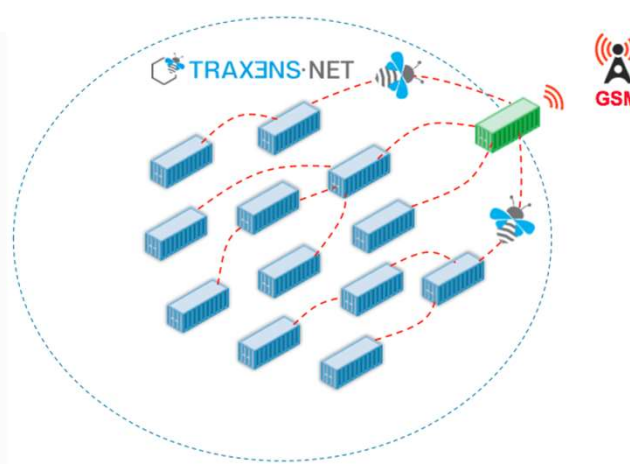135 wagons equipped with Break Test Sensor
in 2018

http://vimeo.com/traxens/BrakeTest

Secure Data Collection
ITSS Ready

Remote and on-board real-time monitoring

Gateway

Performance, Reliability, Safety and Security while optimising cost over the full life cycle.

EXTENDED REACH & ENERGY SHARING

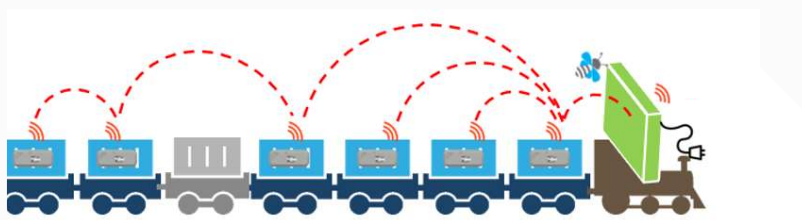## Technology developed to be embedded in mobile phones controllers, 5 Patents – PCT
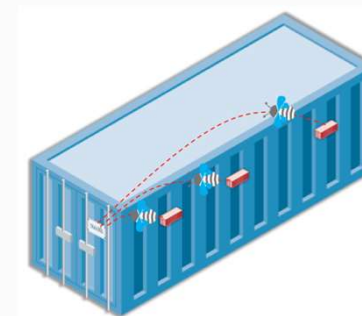

Powered Gateway

Very low power communication through TRAXƎNS-Net Gateways

GSM

Enhanced Reach and power economy by sharing communication through the device having the best connection to GSM and the best battery
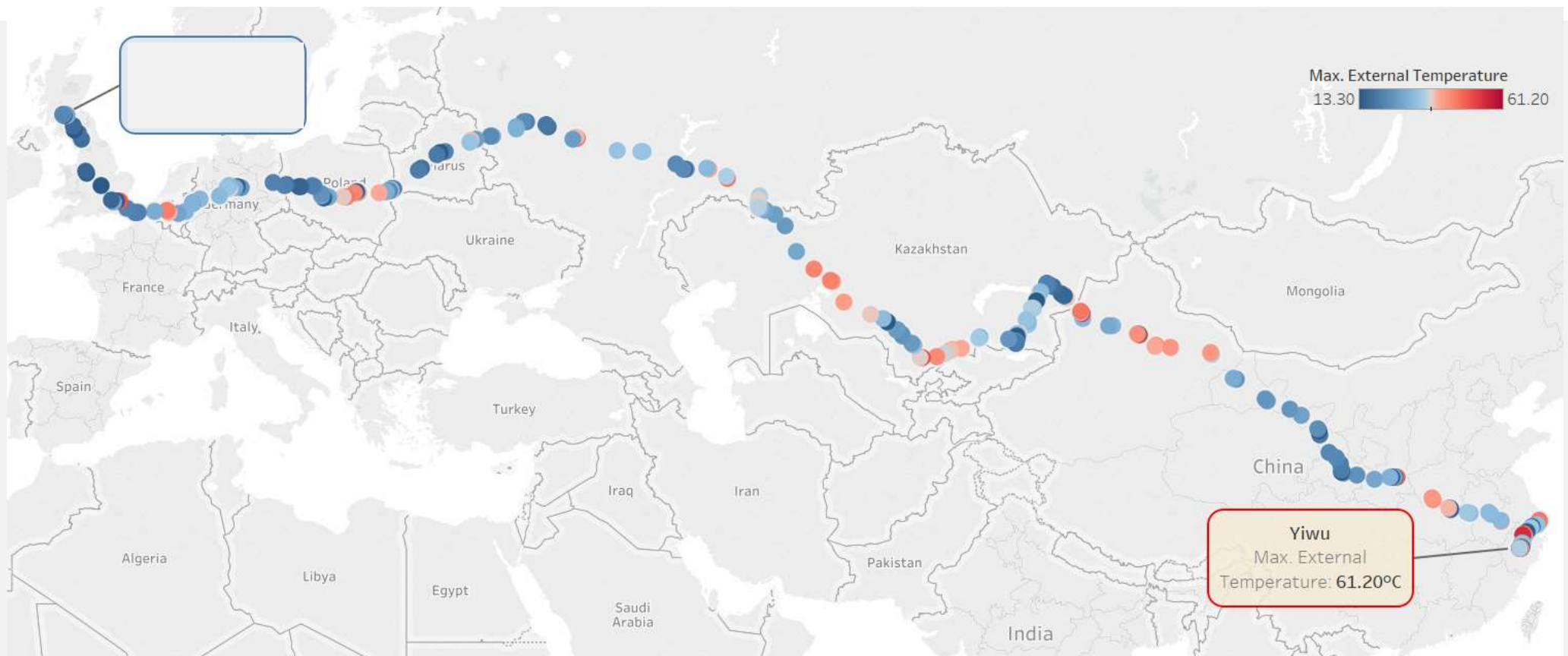

Extended reach capacity on board trains allows messaging via GSM

Cargo Monitoring by pairing a comprehensive range of secure, on-demand sensors to the smart container

EXTREME EXTERNAL TEMPERATURES

The maximum external temperature the container experiences is 61.2°C in July in Yiwu, China, while the minimum Maximum External Temperature was of 9.8°C in Scotland.

Max. External Temperature
13.30 — 61.20

Yiwu
Max. External
Temperature: **61.20°C**

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