deep hub

Connecting the Dots for Tomorrow's IoT World

With the **premier omlox™ compliant middleware** from Heidelberg Mobil International

Heidelberg Mobil

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The world's first
open locating standard

What is the need for an open locating standard?

- The current market of vendors of locating-technologies is highly fragmented and closed – this is true especially for UWB

- There hasn't been a silver-bullet for indoor locating technology

- Holistic solutions are very costly and not suited for SMEs

- An open standard....

  - enables digital ecosystems

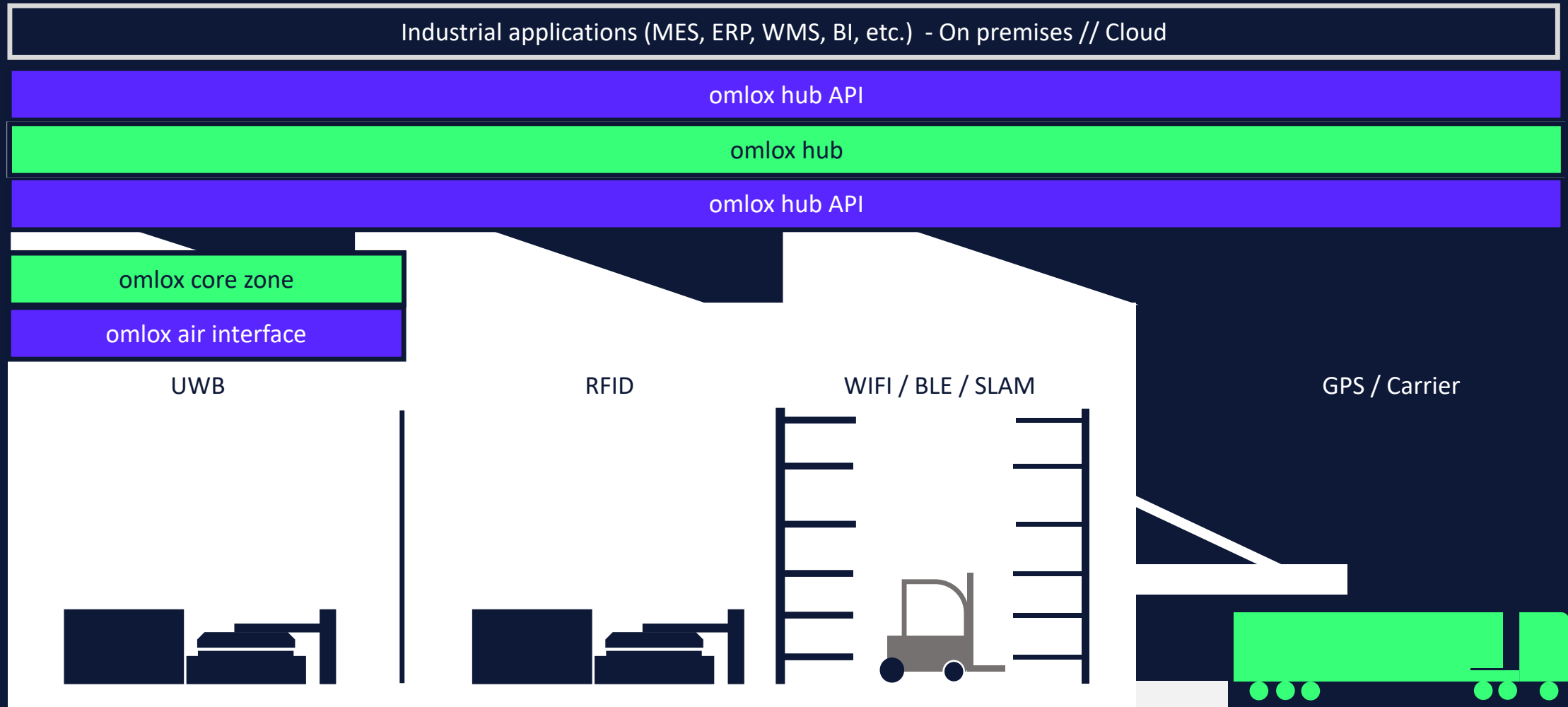 - fosters competition and drives innovation

  - facilitates data sovereignty

Location data is the key enabler for industrial use-cases

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- Asset Tracking
- Automated Actions
- Location-based Information
- Navigation
- Safety + Anti collision

!

Fragmented technology and vendor landscape

General concept of omlox

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| Industrial applications (MES, ERP, WMS, BI, etc.) - On premises // Cloud |

| omlox hub API |

| omlox hub |

| omlox hub API |

| omlox core zone |

| omlox air interface |

UWB

RFID

WIFI / BLE / SLAM

GPS / Carrier

System architecture overview
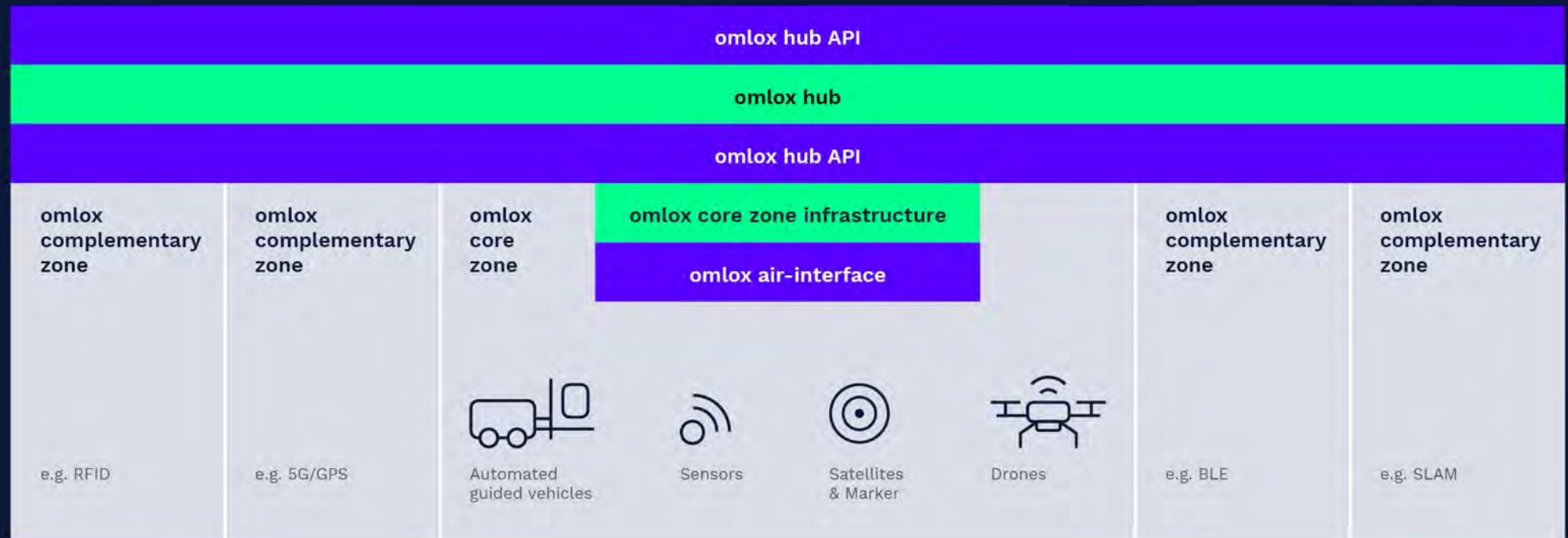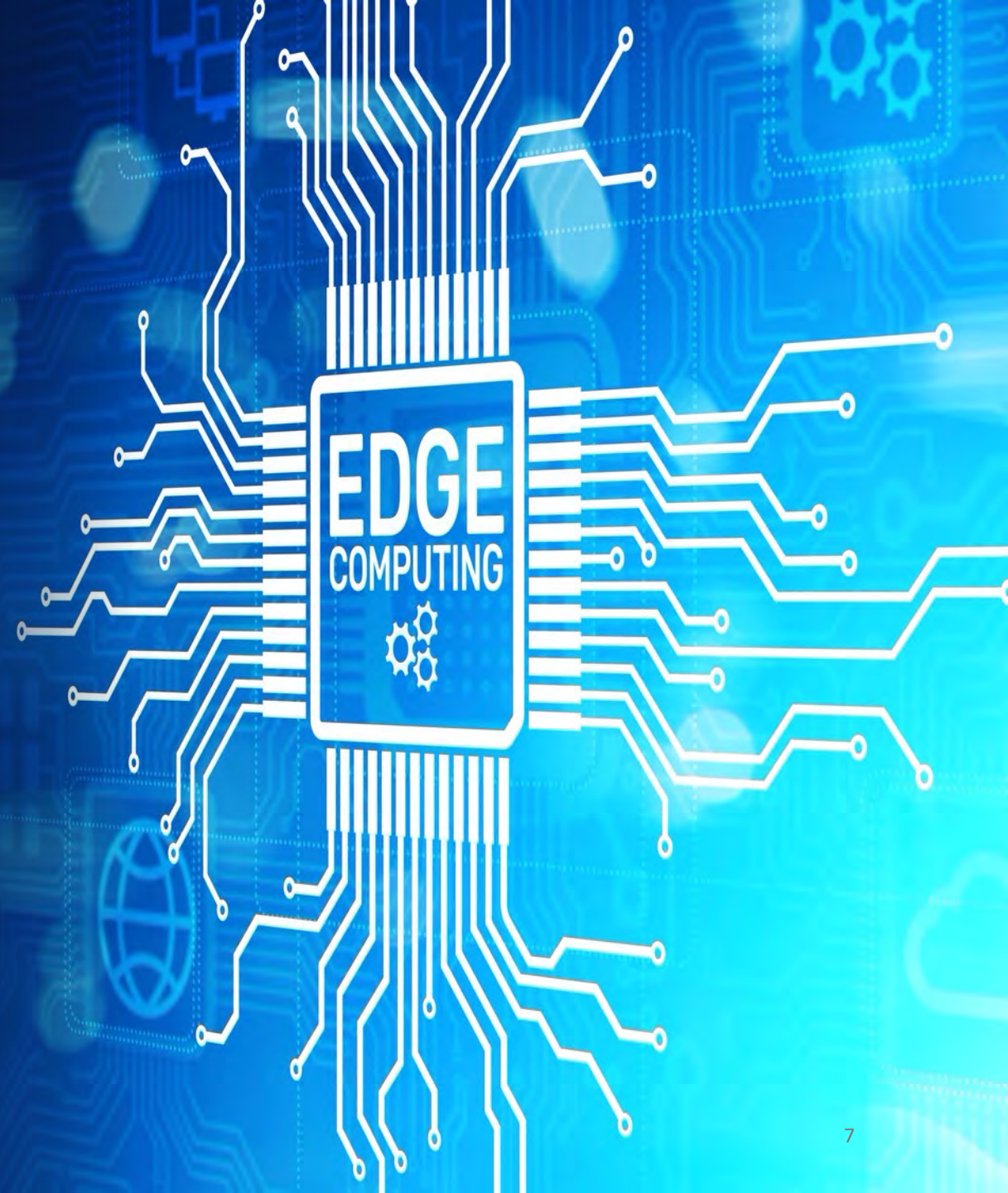
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- One API

  - For all location technologies | vendors

  - Geo-referenced, harmonized location data

  - Location-based services - fencing | collisions | motions

- Supports real-time-scenarios

- Lightweight middleware
  Runs on edge-devices ⇔ in far-edge setups ⇔ in the cloud

- Easy integration via state of the Art APIs
  REST | WebSocket | MQTT upcoming release

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Facilitates intralogistics and supply chain transparency
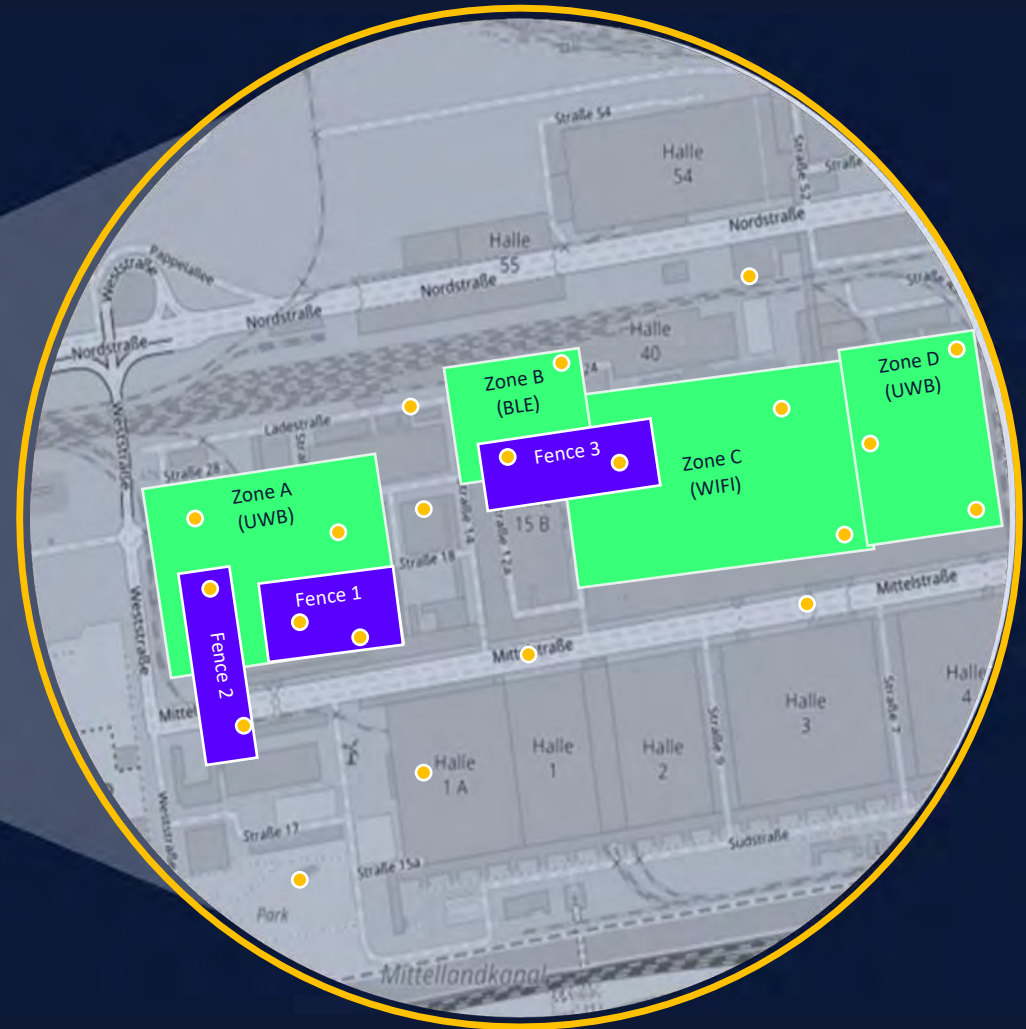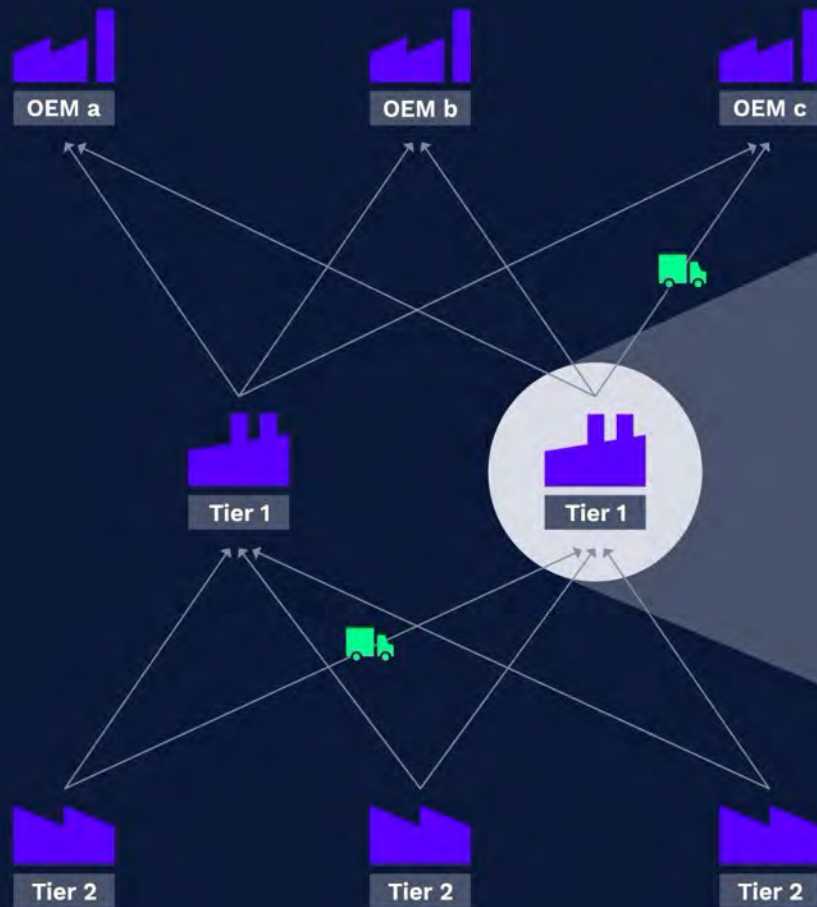
In a nutshell

Provides:

Unified access to location data

Support for all use-cases in industry and logistics

Enables:

Location data sovereignty

Interoperable Smart factories and transparent supply chains

Is:

Open Ecosystem

Hosted by Profibus International - PI

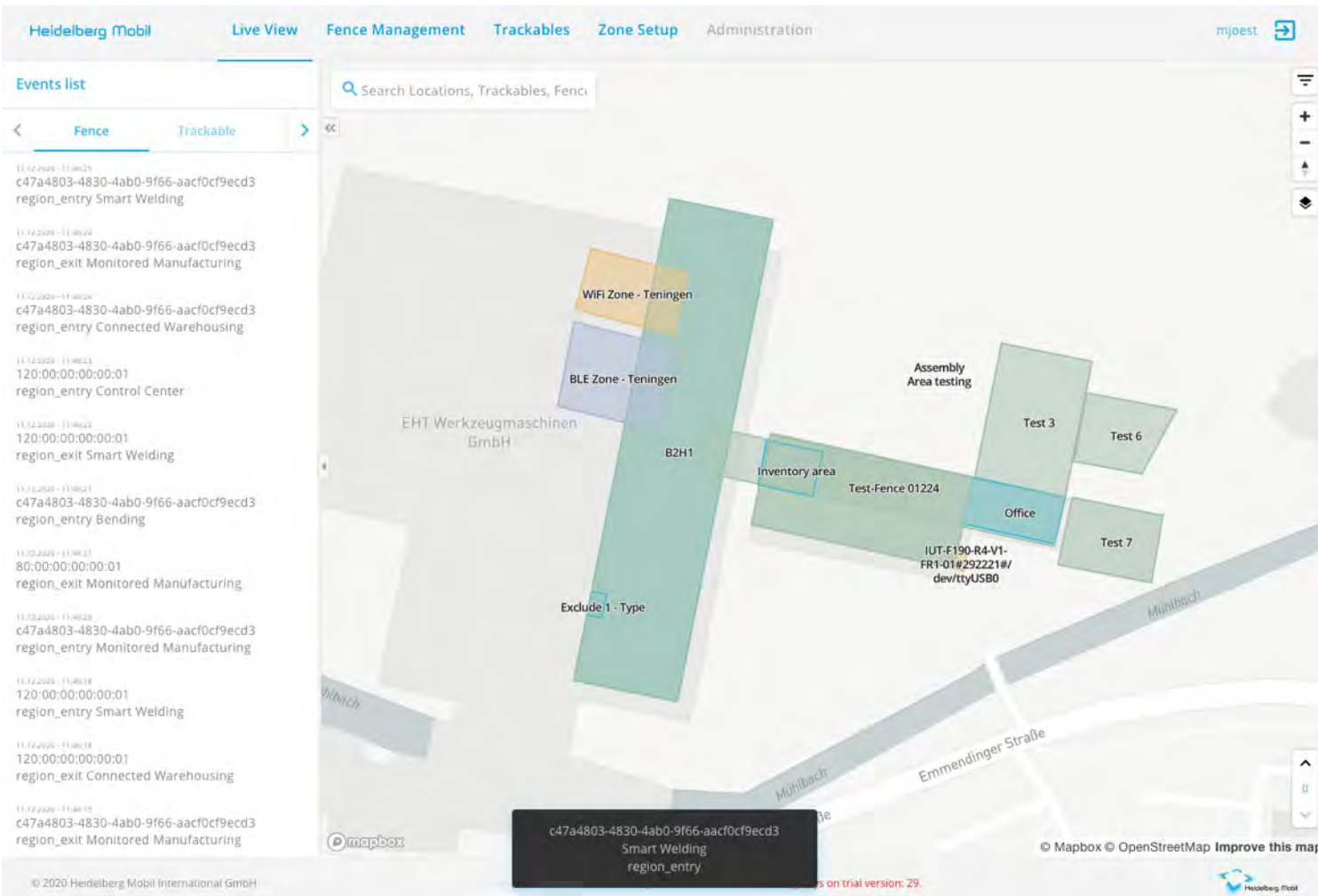**Defines:**

Lightweight locating middleware

Open Ultra-Wideband System

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- API - for Geo-Referencing | Reverse Geo-Referencing
- API - for Trackables, Fencing, Motion, Collisions
- Realtime Support
- Lightweight and Portable
- Easy Integration
- Cloud, Far-Edge, Edge Setups
- Various connectors to WIFI, RFID and UWB Vendors

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Reference implementation

Benefits of the Deep Hub

Business

- Fast ROI - agile | lightweight
- Innovation | New revenue streams
- Low TCO - retrofit | modular
- One Technology - multiple use-cases
- Flexible, value-based licensing

Technical

- Seamless outdoor-indoor use-cases
- Support for any positioning provider
- Edge | Cloud | Mobile | Desktop
- Realtime ready | UWB support
- Indoor by Design | Best in Class UX

Risk and Compliance

- Open locating standard compliant
- Interoperable - No vendor lock in
- Future proof - partner ecosystem
- Scalable delivery | via solution Providers
- Data ownership and privacy

Heidelberg Mobil

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