Zeal for Innovation in EU Projects
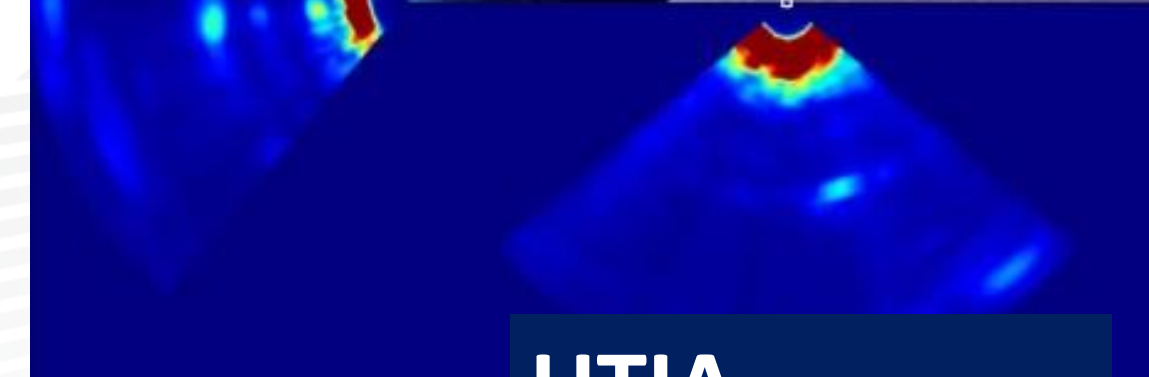
Jiří Havlík, 18. 9. 2019 IMAinfoday Praha
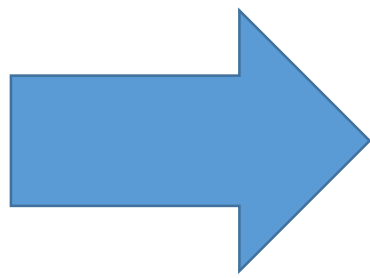
SILENSE *for* Gesture Sensing

> *How to facilitate all your entries everyday everywhere*

BUT technology
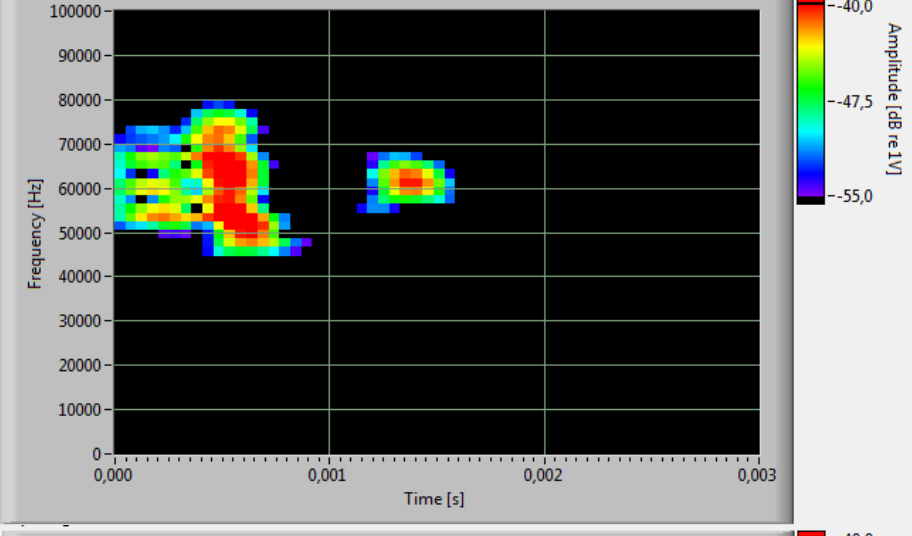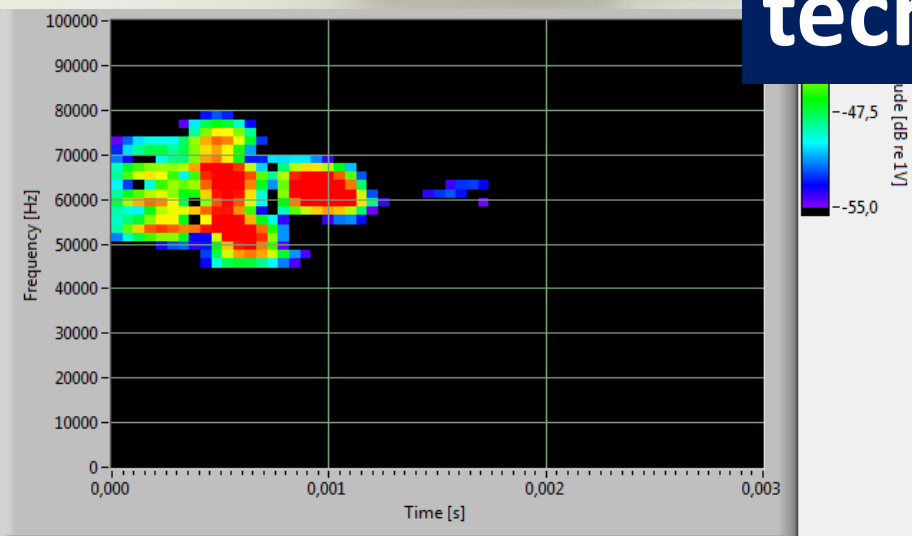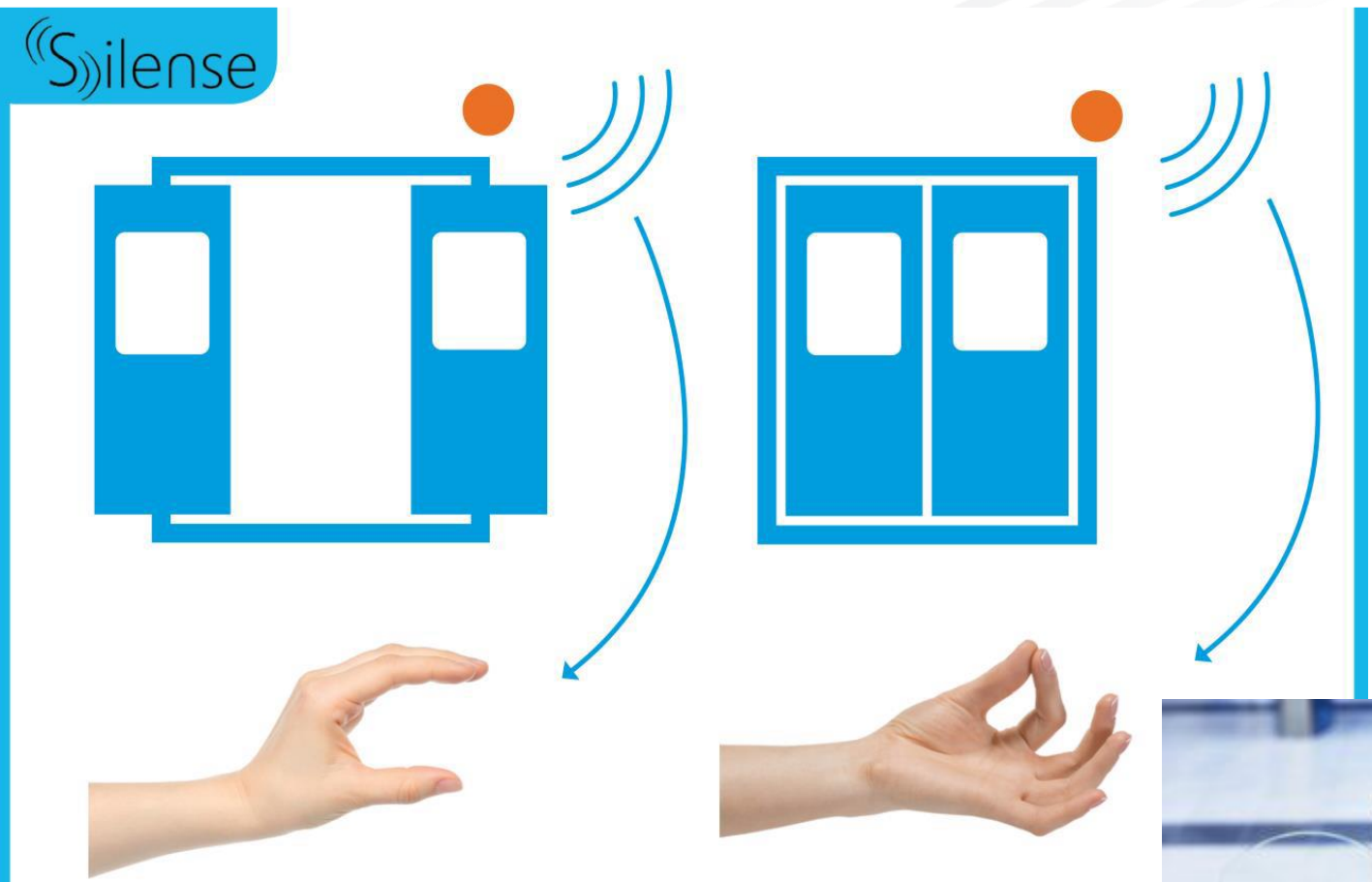
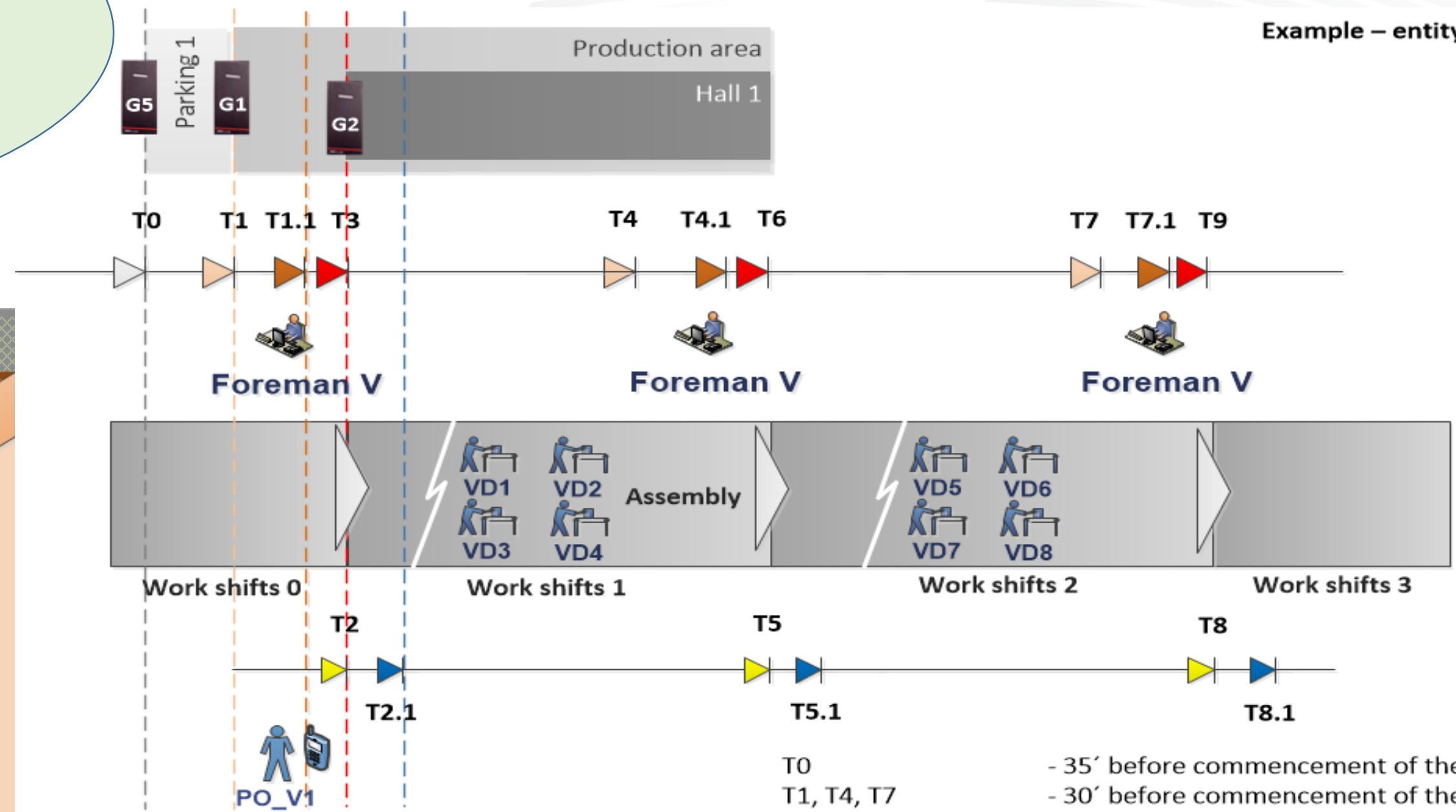**IMAporterG gesture based ACS**

UTIA technology
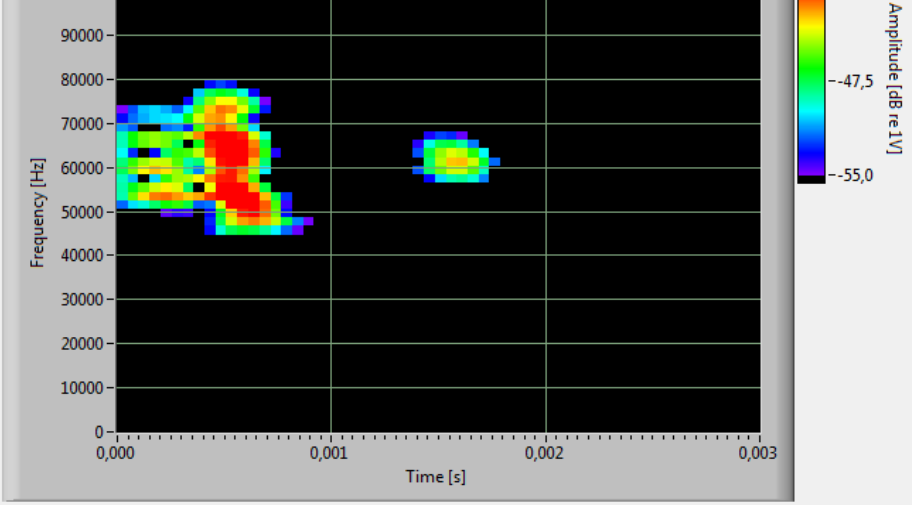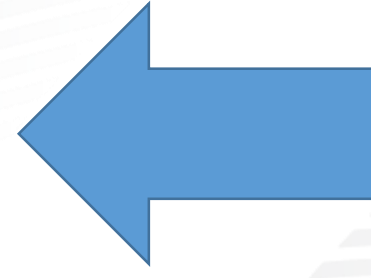
TRUST4.0 *for*
Dynamic Access Rights Management

- *How to ensure a dynamic manufacturing in Industry4.0?*
- *How to ensure all kind of resources are in-place & on-time?*

Example – entity VD

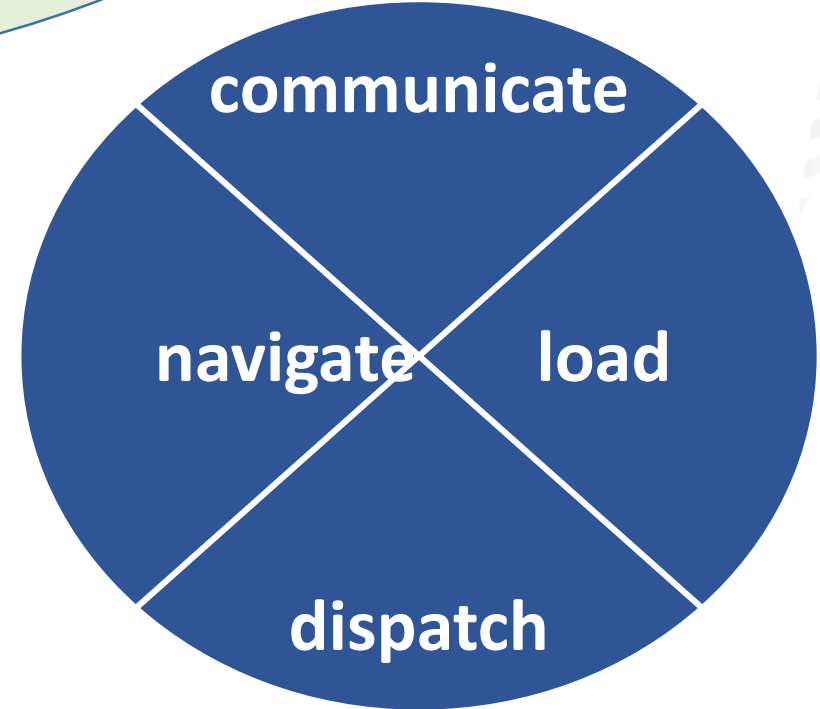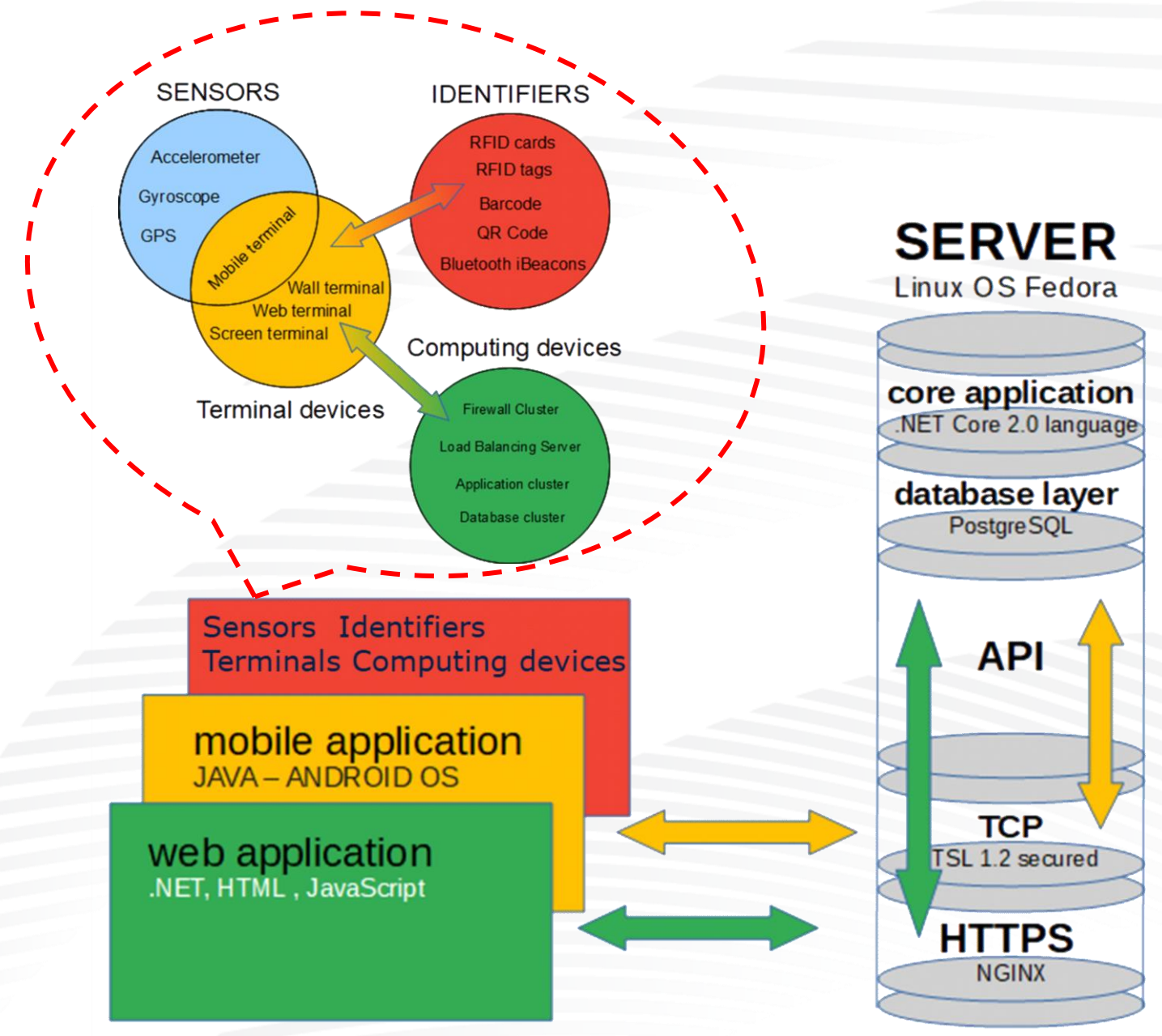T0 — 35´ before commencement of the shift
T1, T4, T7 — 30´ before commencement of the shift
T1.1, T4.1, T7.1 — 10´ before commencement of the shift
T3, T6, T9 — Strat of shift
T2, T5, T8 — End of shift
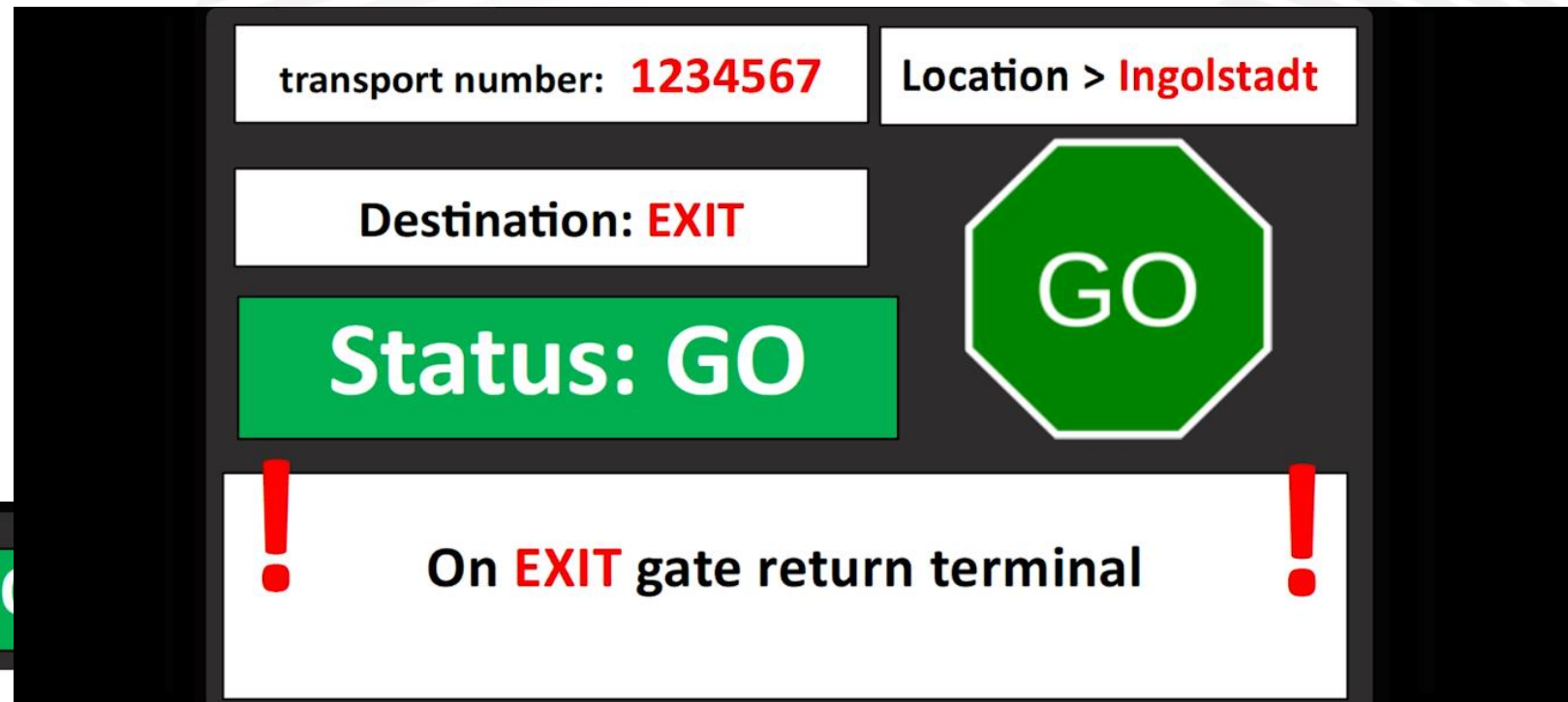T2.1, T5.1, T8.1 — 30´ after the end of the shift

3
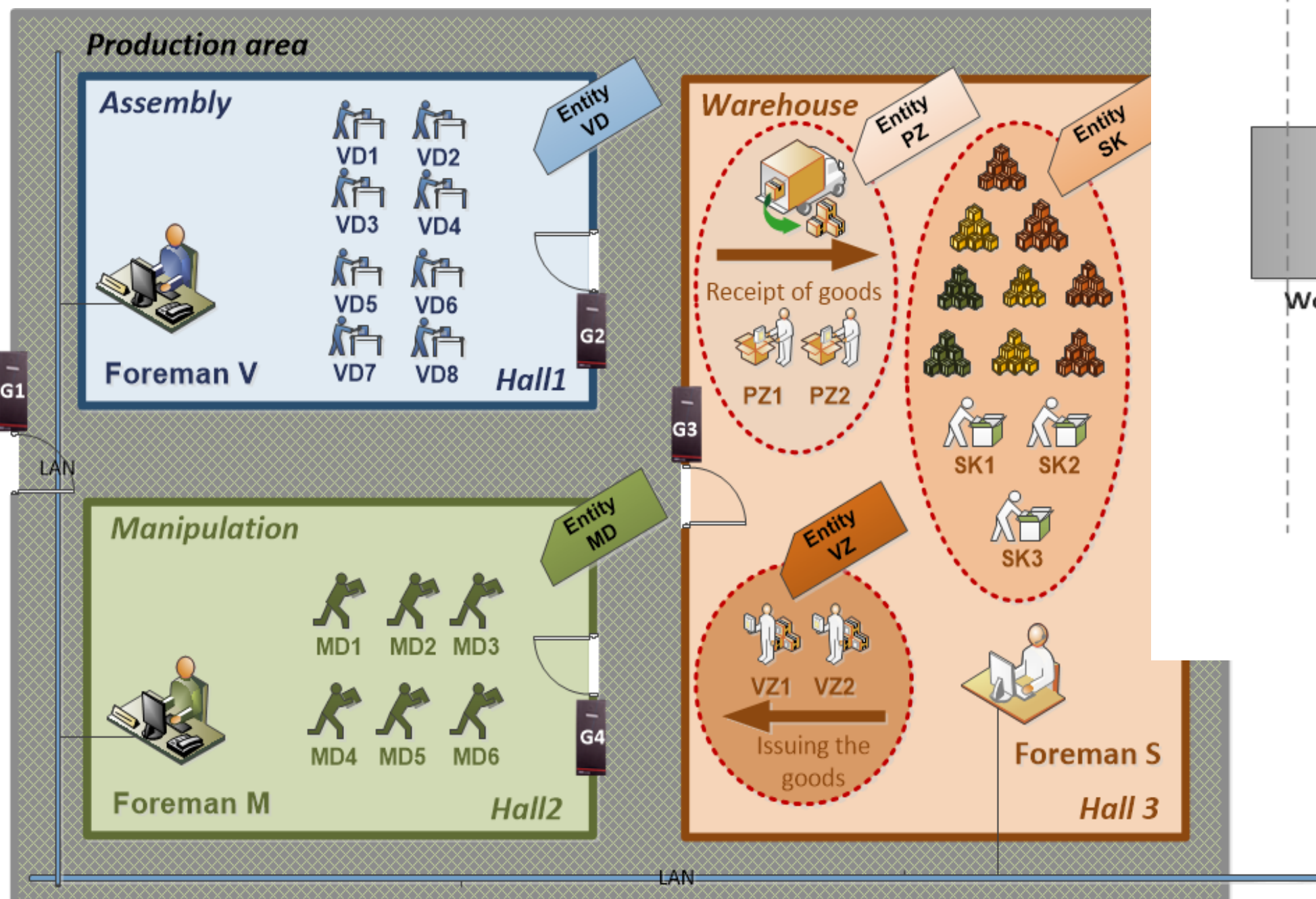
PRODUCTIVE4.0 *for*
Making Traffic Smart

How to orchestrate a smooth transportation between production line and expedition warehouse?

SERVER
Linux OS Fedora

core application
.NET Core 2.0 language

database layer
PostgreSQL

Sensors Identifiers
Terminals Computing devices

mobile application
JAVA – ANDROID OS

web application
.NET, HTML, JavaScript

API

TCP
TSL 1.2 secured

HTTPS
NGINX

communicate

navigate   load

dispatch

transport number: 1234567
Location > EXP1
Destination: Ingolstadt
Status: STOP
STOP
You are 5.
Waiting estimation: 30min

Thanks to the GPS, the system detects the driver's arrival in the car park.

Destination > Parking   **STATUS: GO**

Parking

The driver's terminal gives the dispatching and the expedition warehouse an overview

transport number: **1234567**   Location > Ingolstadt
Destination: EXIT
Status: GO   GO
! On **EXIT** gate return terminal !

the driver's terminal screen is automatically switched by the system according to the set scenario to the next step.
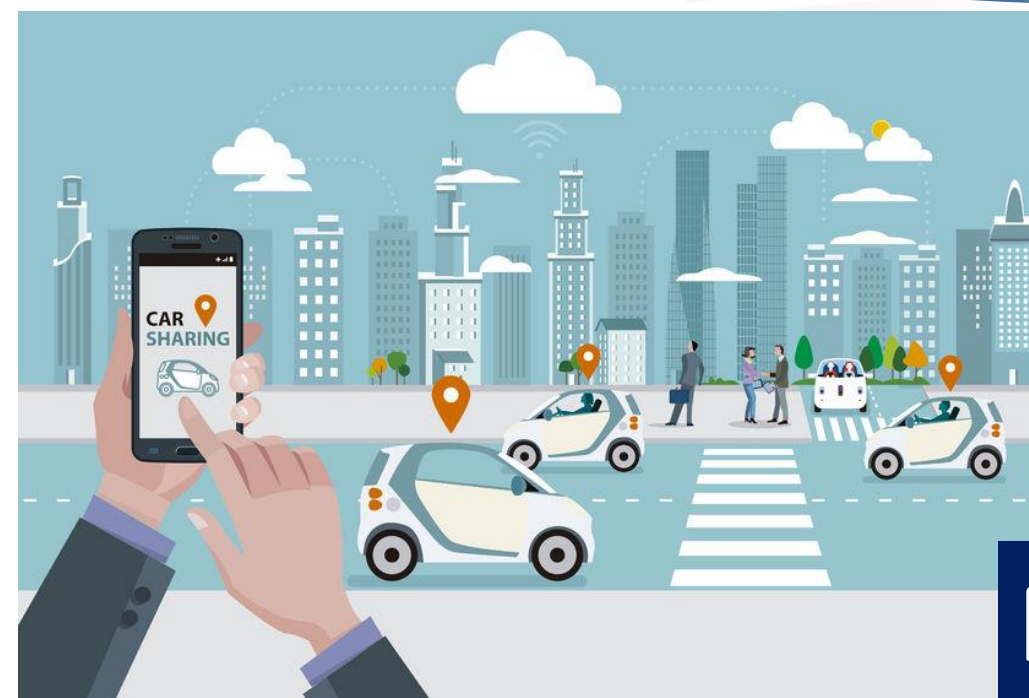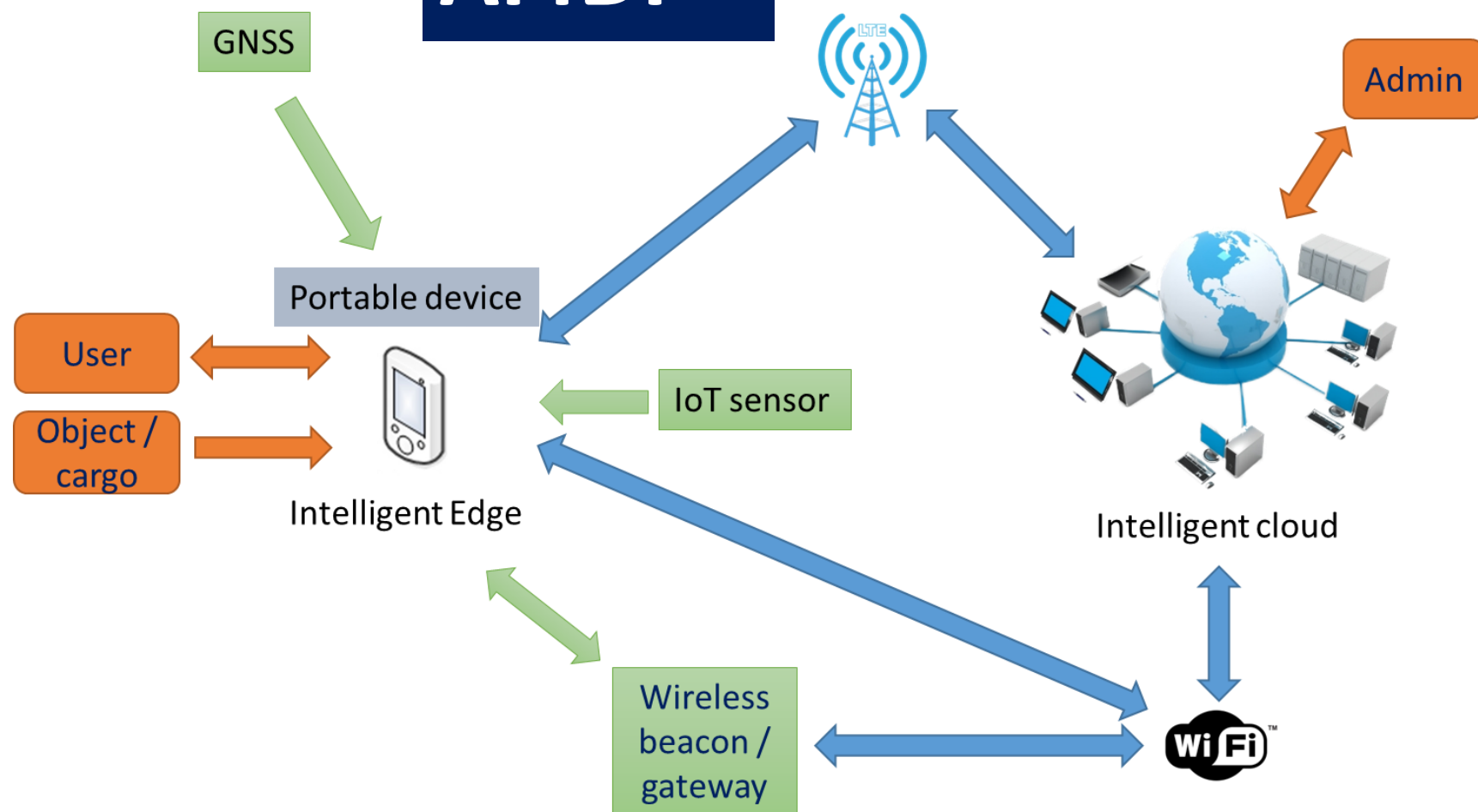
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4

Are We Ready *for* Building AI?

How the AI & Edge Computing helps to Human-Machine interaction and change detection within production and logistics?

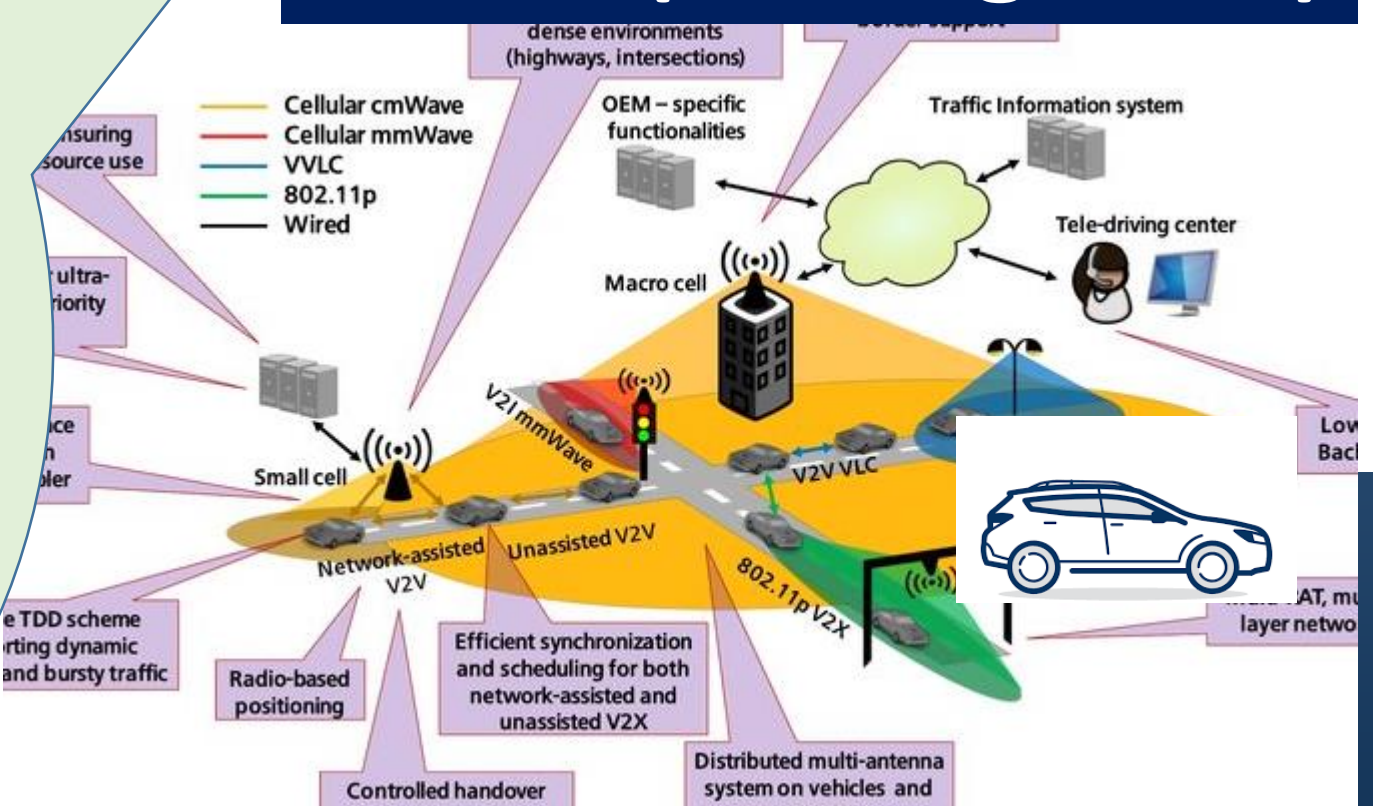How the AI helps to ensure fail-operational functions for a vehicle sharing platform?

NewControl

How the AI algorithms help to optimize V2I services within an autonomous vehicle sharing platform?

AI4DI

BRAIN (coming soon)

ima