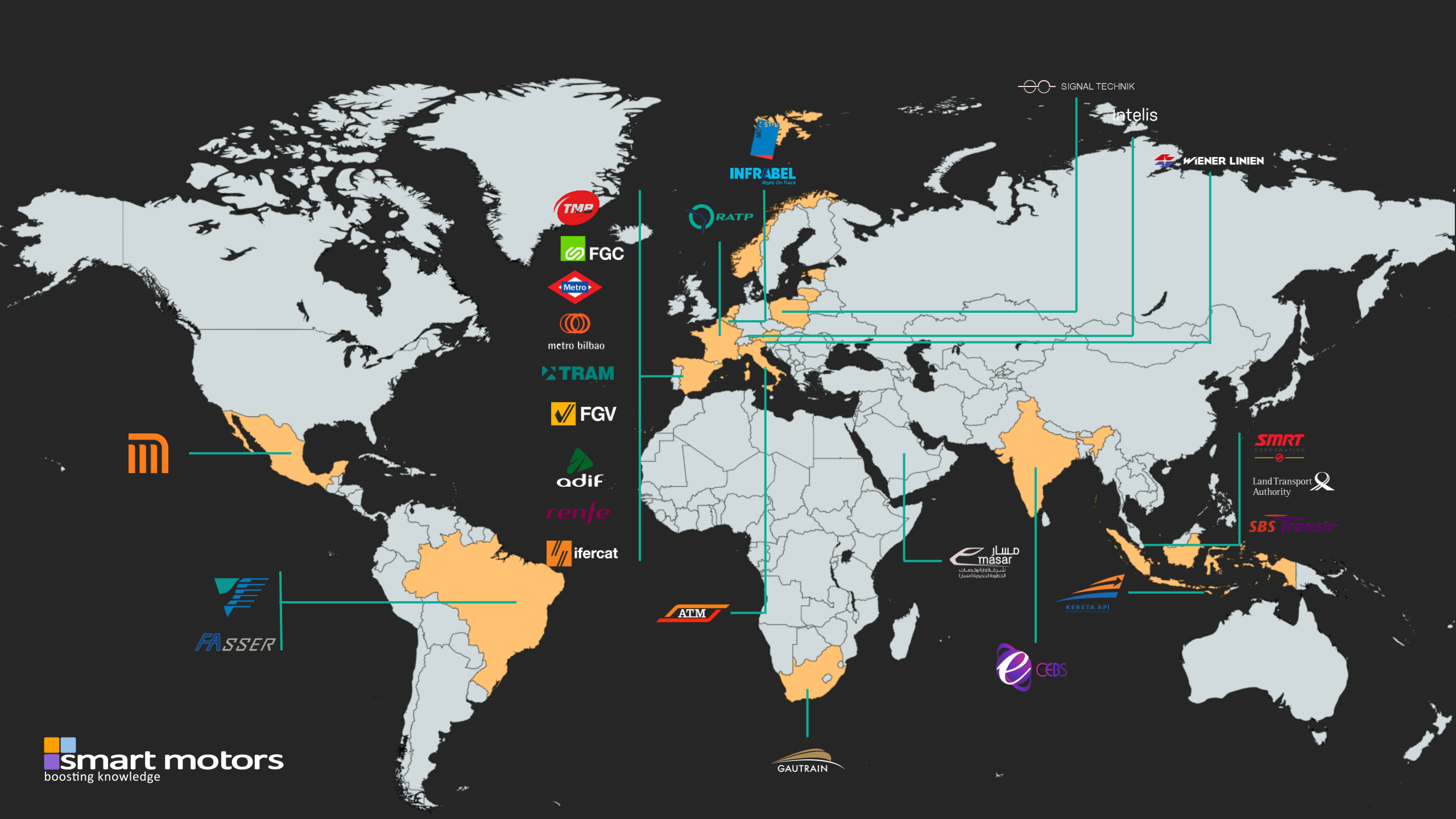
smart motors
boosting knowledge

How to turn data into real value for the railway

smart motors
boosting knowledge

+15 years experience

+ 10 years company, born as a spin-off from Barcelona Metro in 2009 as a result of the lack of **Digitalization** solutions able to fulfill the needs of the railway market



smart motors
boosting knowledge

- +5k data sources
- +200 information systems
- 2.3 TB per day

Complexity

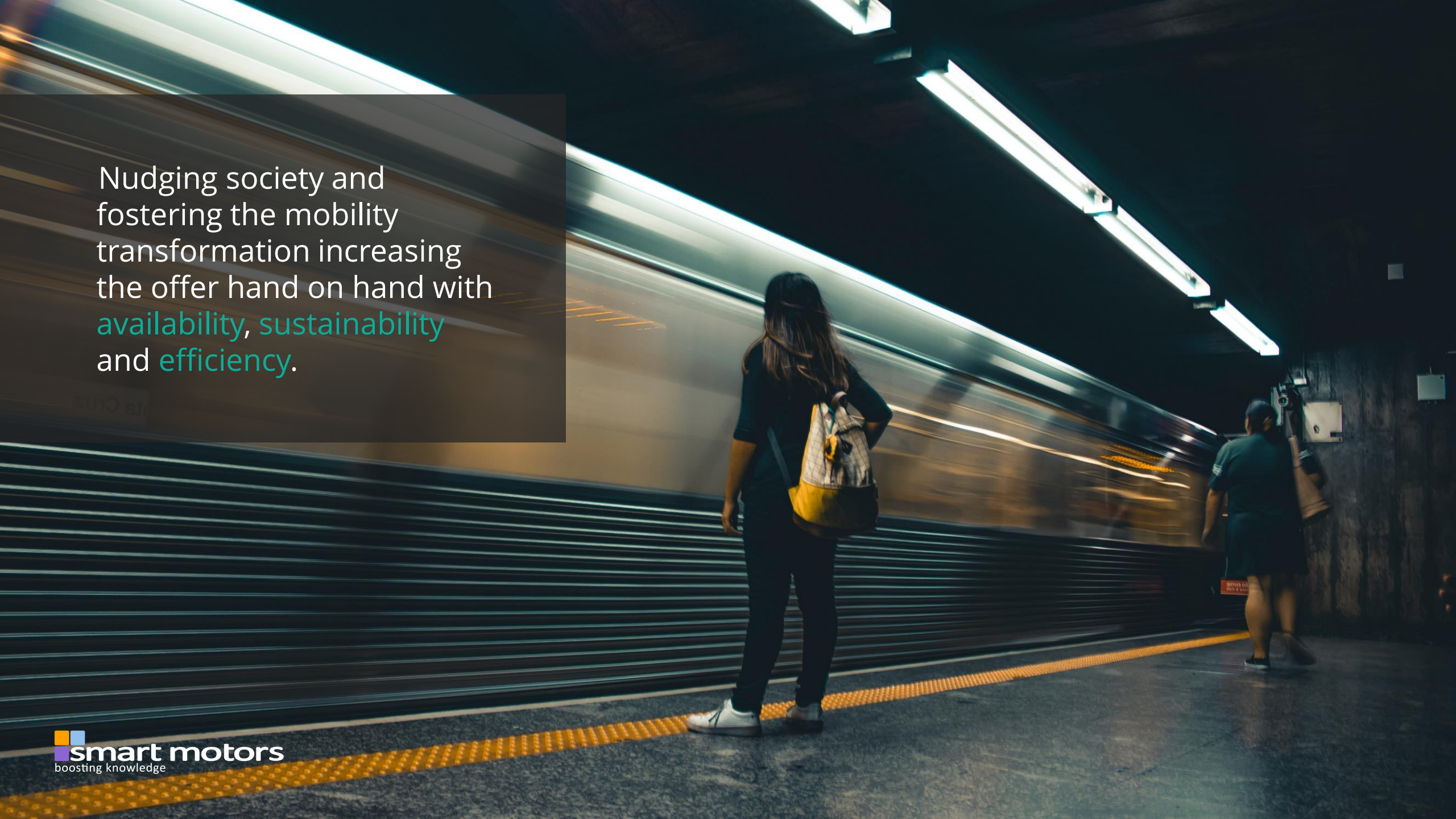
Data Governance

No monetization

No impact for the user

Integrate and simplify to scale and create value.
48.83810
2.37484
385ppm
21°C
75KWh
15 users
15 users
52 km/h
34°C
smart motors
boosting knowledge

The future of mobility where digitalization will be the backbone of competitiveness and innovation.
smart motors
boosting knowledge


Nudging society and fostering the mobility transformation increasing the offer hand on hand with availability, sustainability and efficiency.
smart motors
boosting knowledge

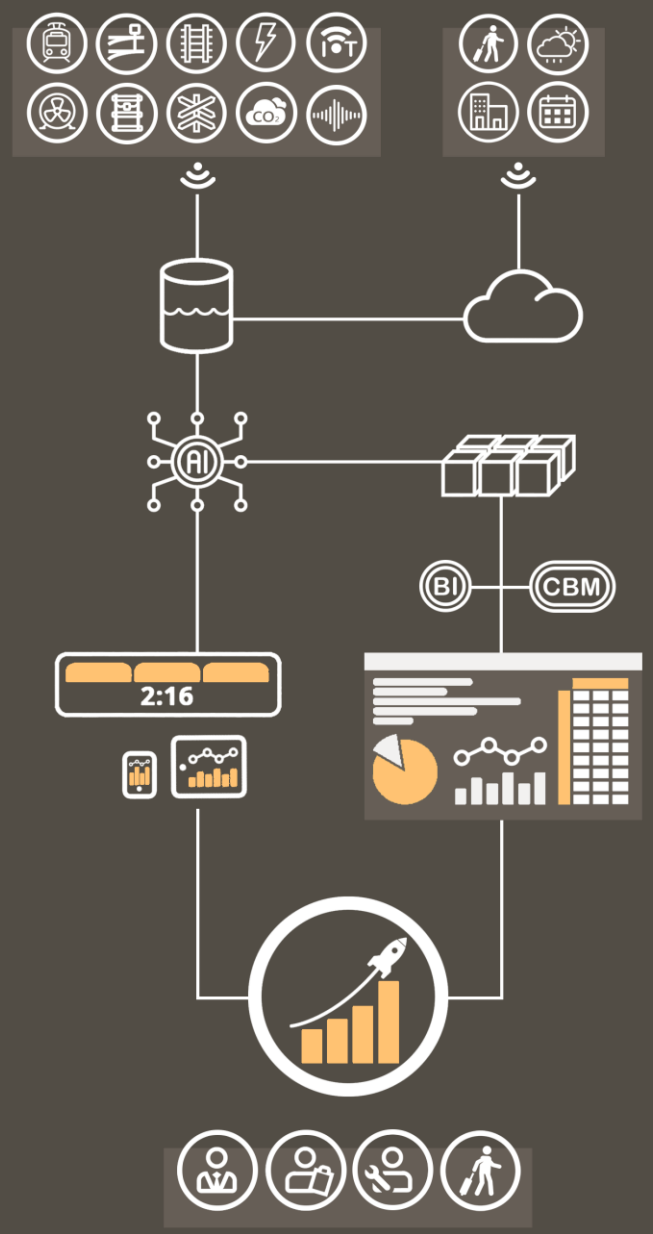
SAVANA
Boosting Knowledge

LOG
SAVANA

SAVANA

The digitalization platform the railway operators and maintainers rely on

Rational, scalable, and standard way to integrate all data initiatives.



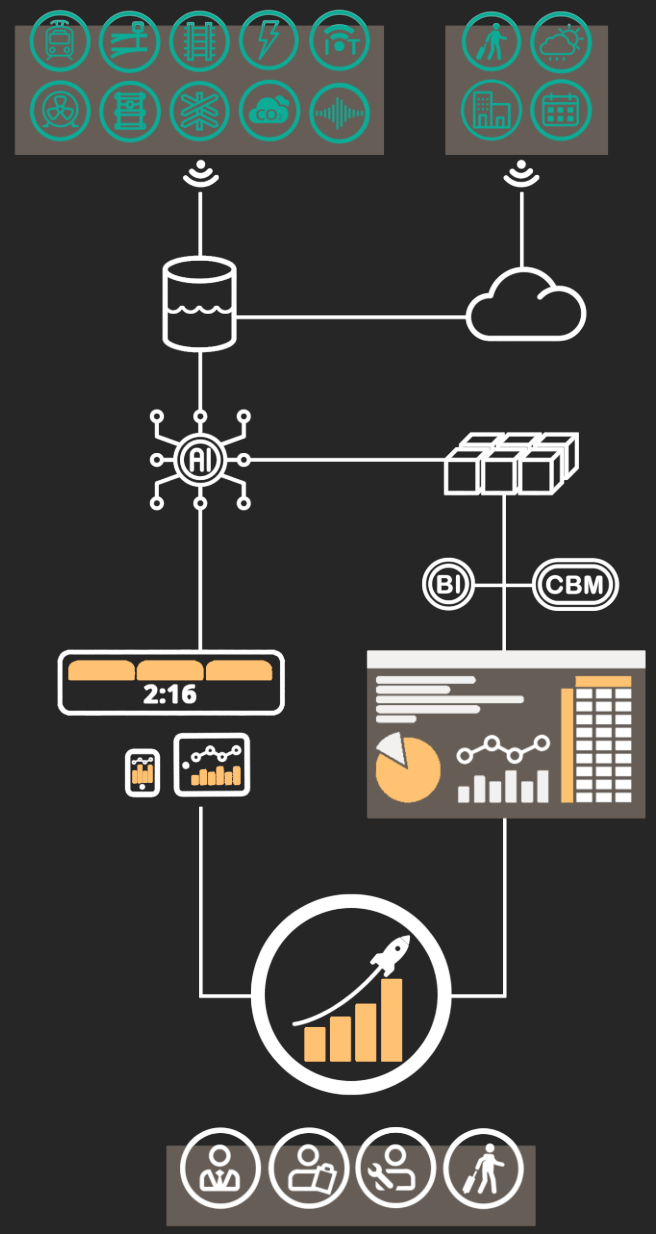
smart motors
boosting knowledge

SAVANA

1. Collect data from any source

Monitoring devices, IOT, connected assets, TCMS, CTC, information systems, ERP, external data...

...about the rolling stock, point machines, barriers, ambience, track circuits, energy, ventilation, signals, ticketing, operation, CCTV, Clients, weather forecast, axel counters, interlocks, rails, machinery, workers, elevators,, escalators, , pumps, catenary, etc.

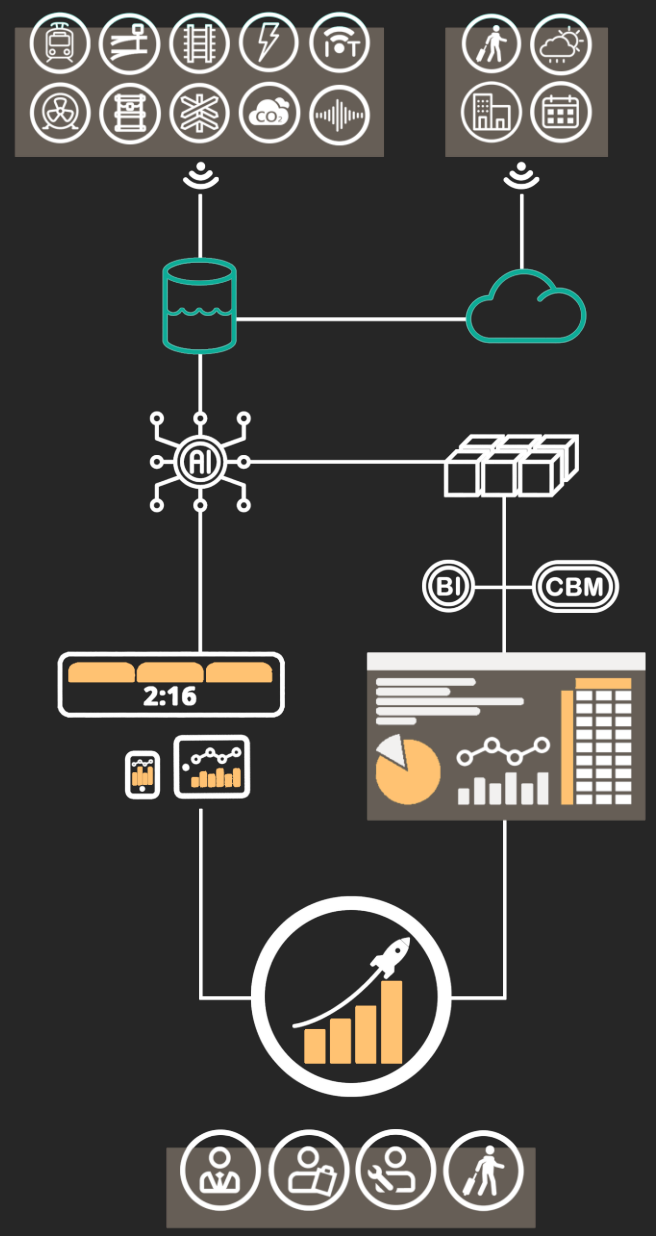


smart motors
boosting knowledge

SAVANA

1. **Collect data from any source**
2. **Merge data in one place**

Digest data on cloud or on premise, harmonize and rationalize to dump it in a reliable and structured way into SAVANAs data lake.

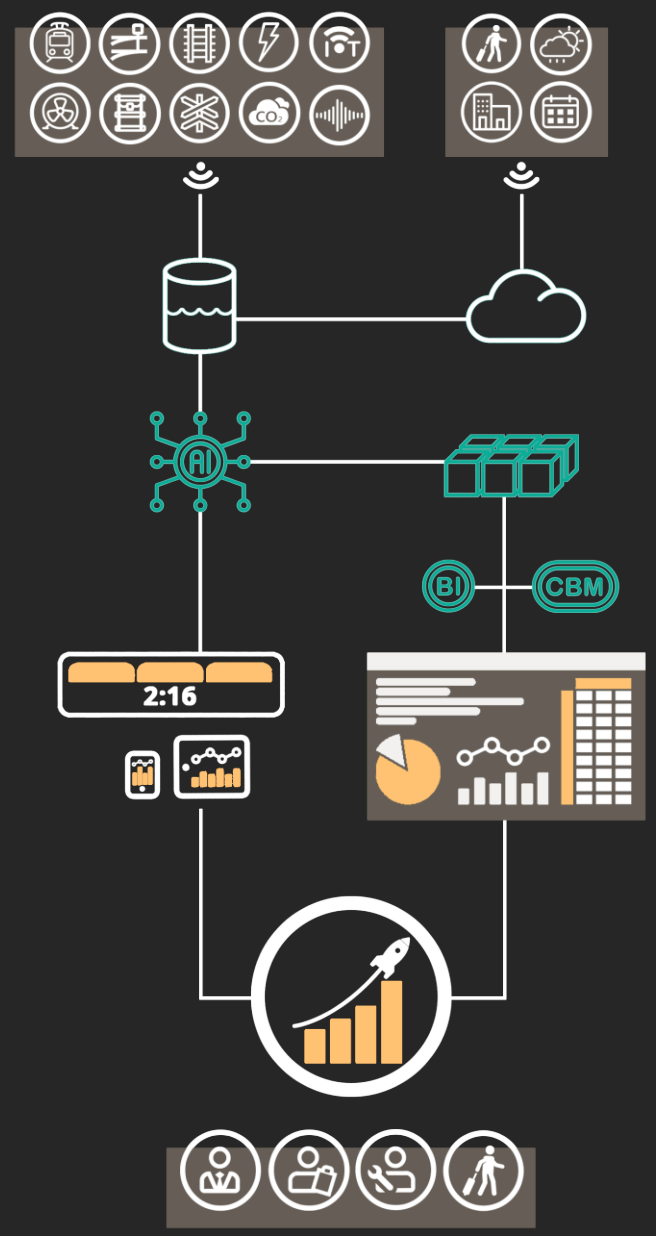


smart motors
boosting knowledge

SAVANA

1. **Collect data from any source**
2. **Merge data in one place**
3. **Analyze and automatize**

Artificial Intelligence for real time consumption and to feed the SAVANA toolbox, Condition Based Maintenance, Business Intelligence, ERP, etc.

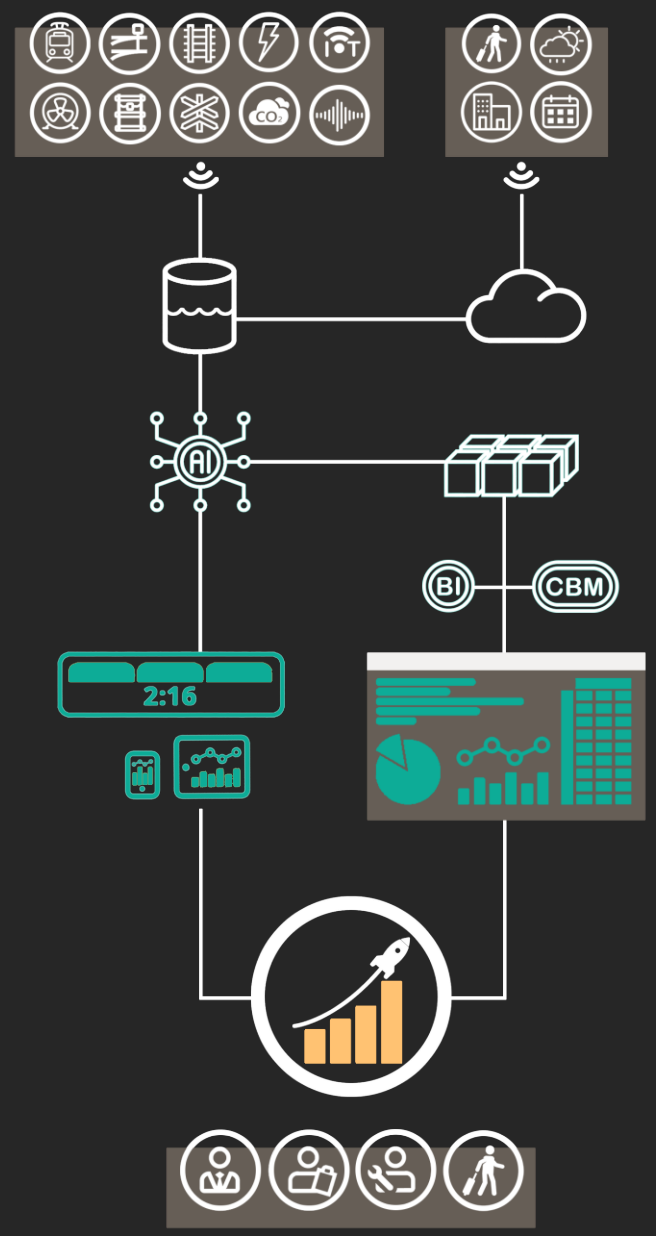


smart motors
boosting knowledge

SAVANA

1. **Collect data from any source**
2. **Merge data in one place**
3. **Analyze and automatize**
4. **Visualize tools and data**

Real time and data interfaces for passenger information systems, corporate APPs, fully customizable per user.



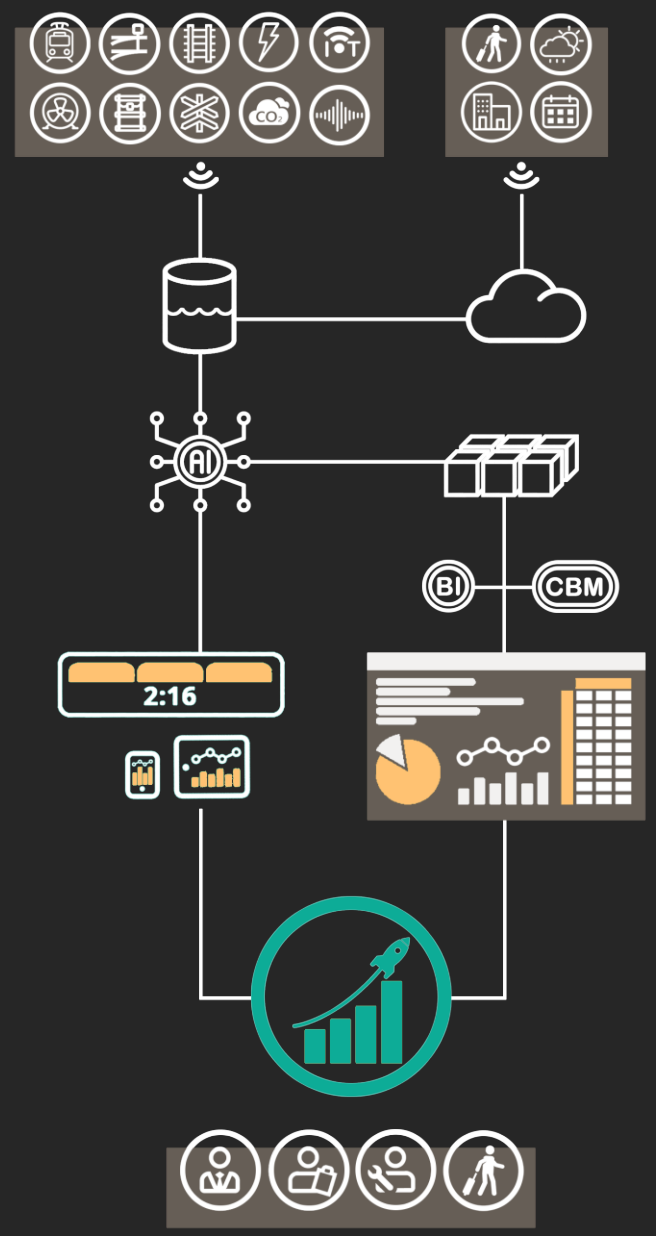
smart motors
boosting knowledge

SAVANA

1. **Collect data from any source**
2. **Merge data in one place**
3. **Analyze and automatize**
4. **Visualize tools and data**
5. **Boost the results of the company**

In three axis:

- Operation improvement
- Availability and Reliability
- User experience

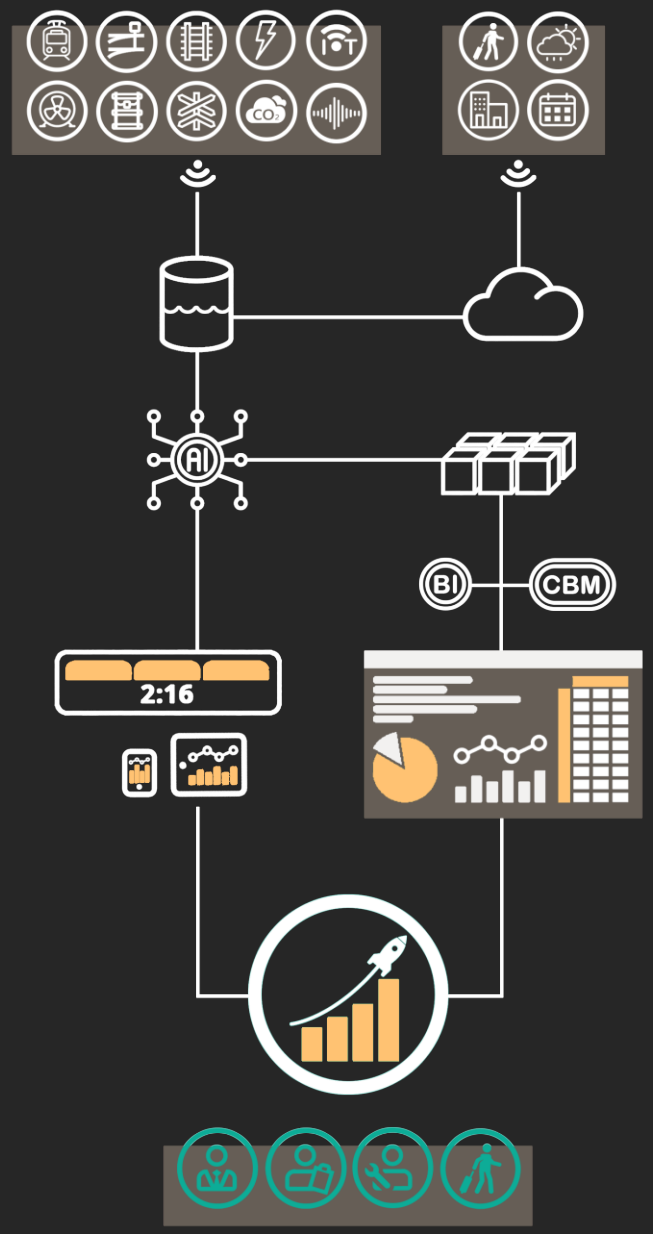


smart motors
boosting knowledge

SAVANA

1. **Collect data from any source**
2. **Merge data in one place**
3. **Analyze and automatize**
4. **Visualize tools and data**
5. **Boost the results of the company**
6. **Put it into the hands of all stakeholders**

From the operators, managers, maintainers and the clients, to improve the day by day of all the organization and nudge the digital culture.

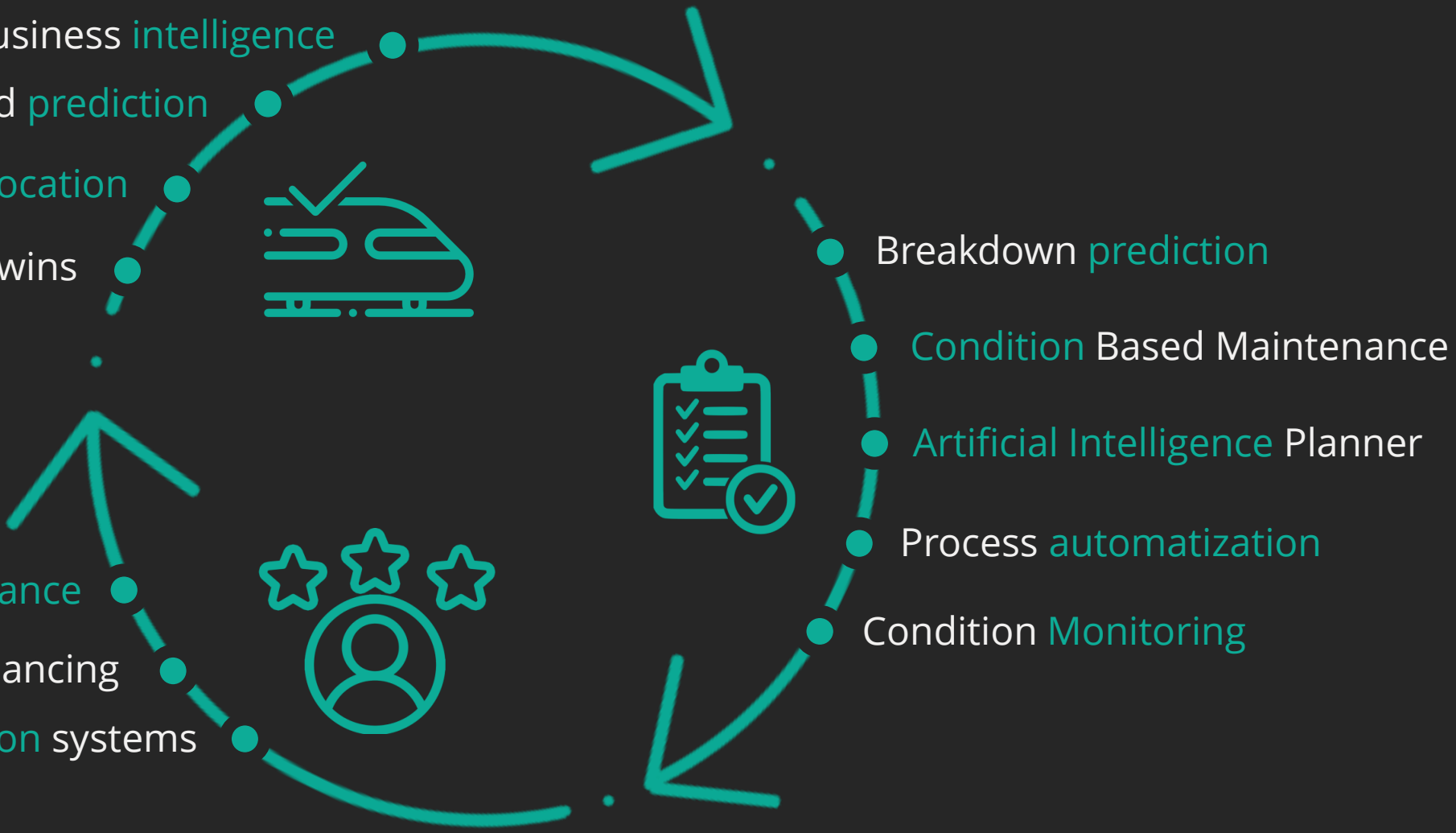


smart motors
boosting knowledge

Boost the results of the company

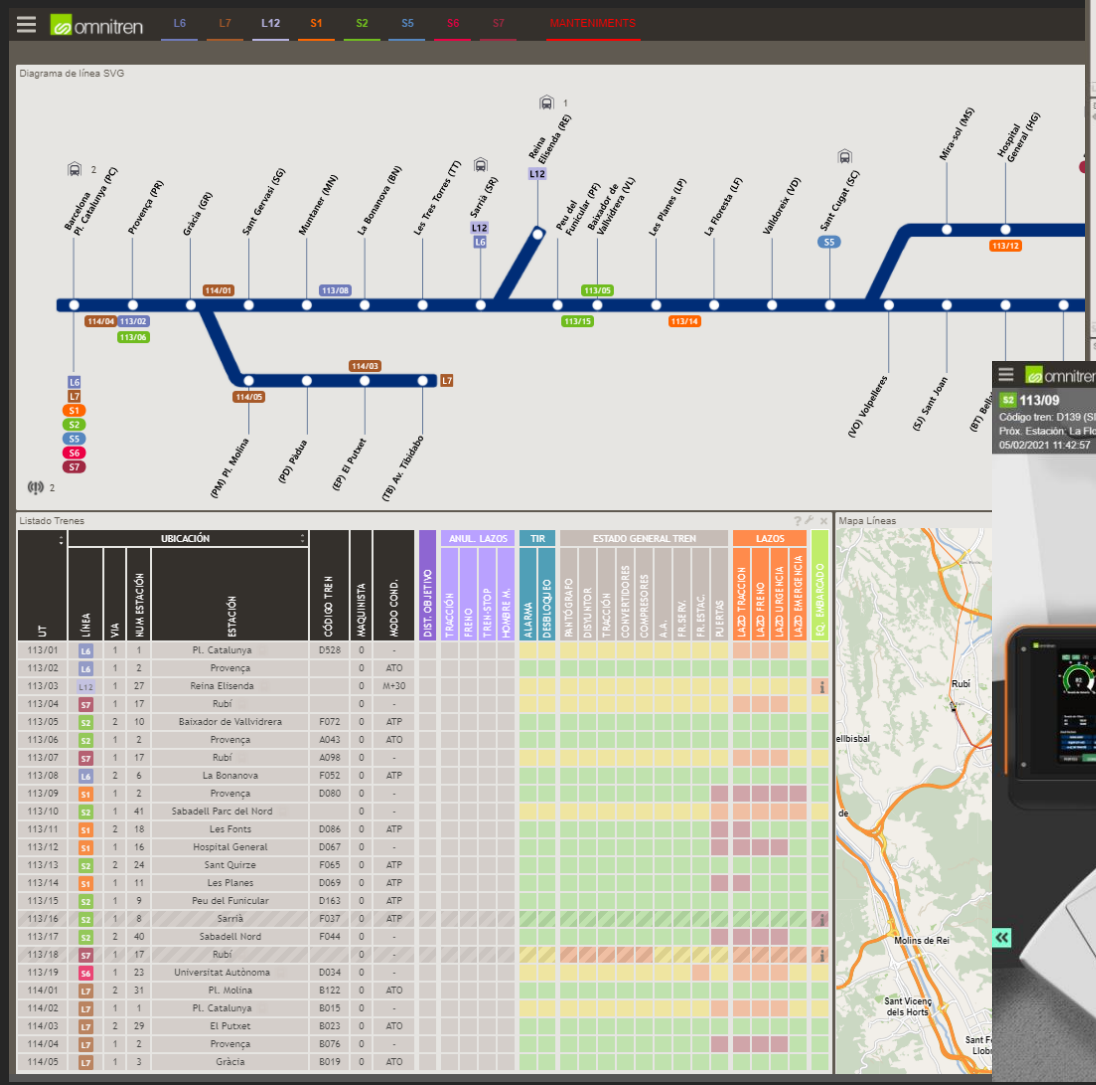
1. Operation improvement
2. Availability and reliability
3. Customer experience

smart motors
boosting knowledge

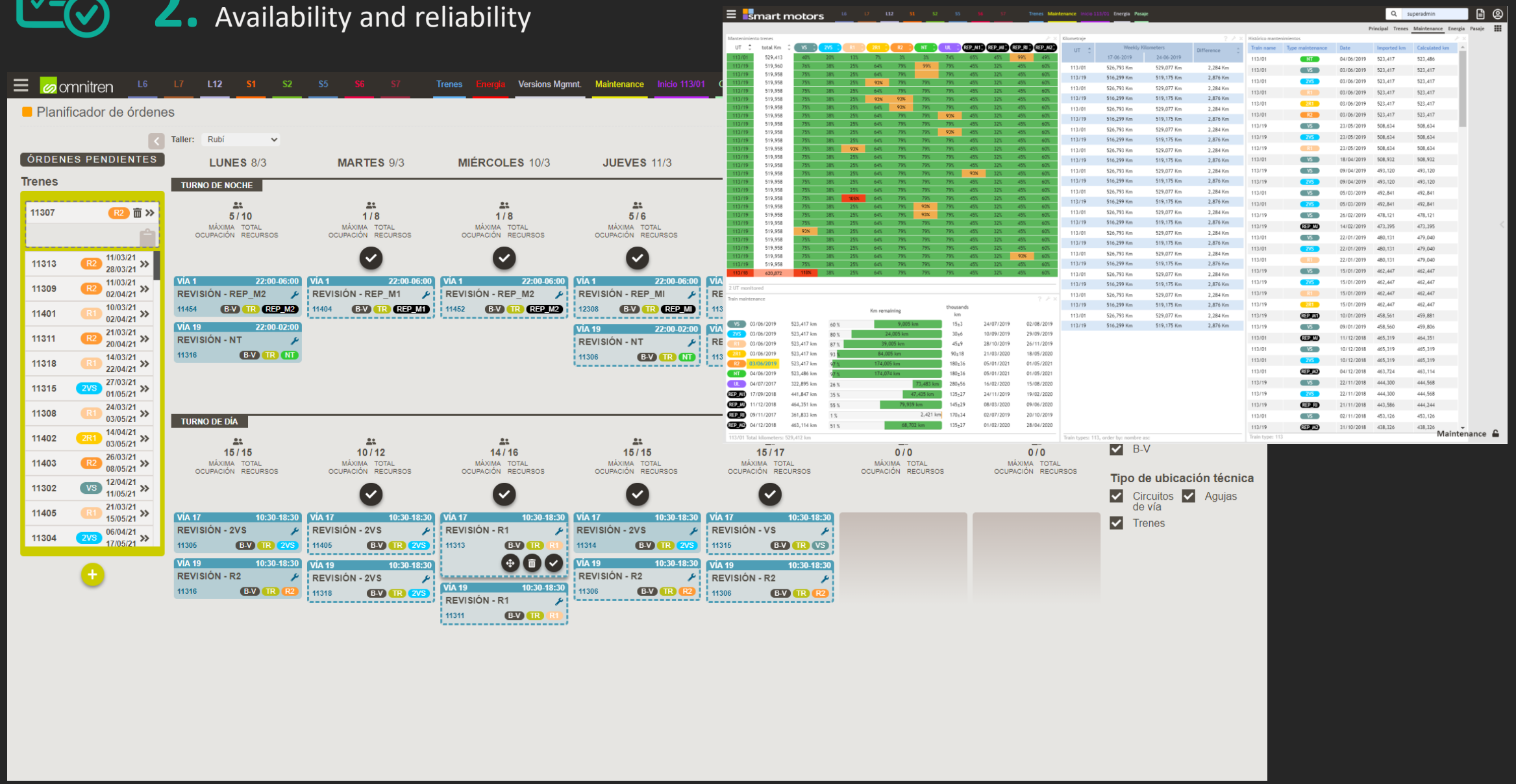


smart motors
boosting knowledge

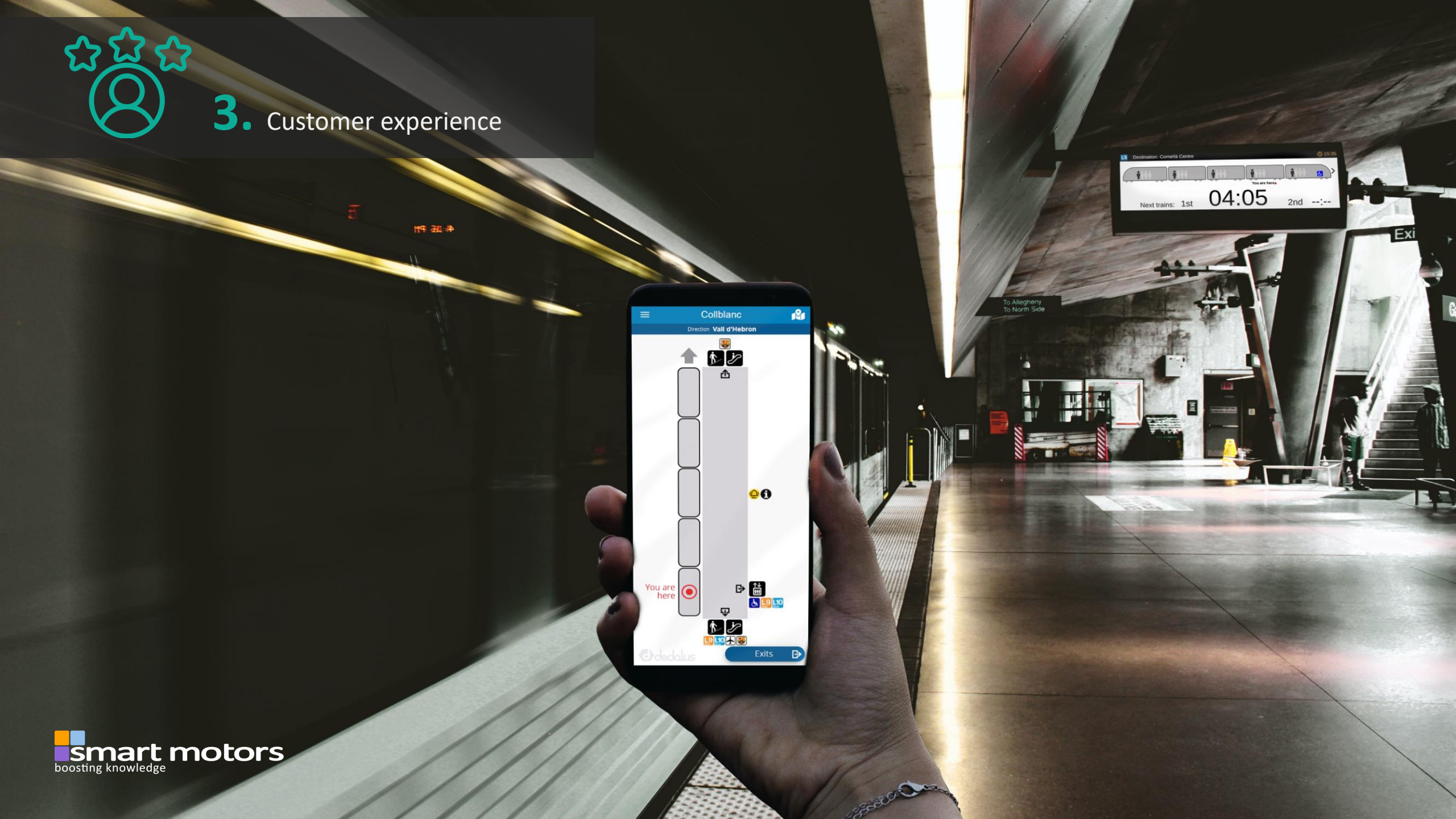
1. Operation improvement



2. Availability and reliability



3. Customer experience



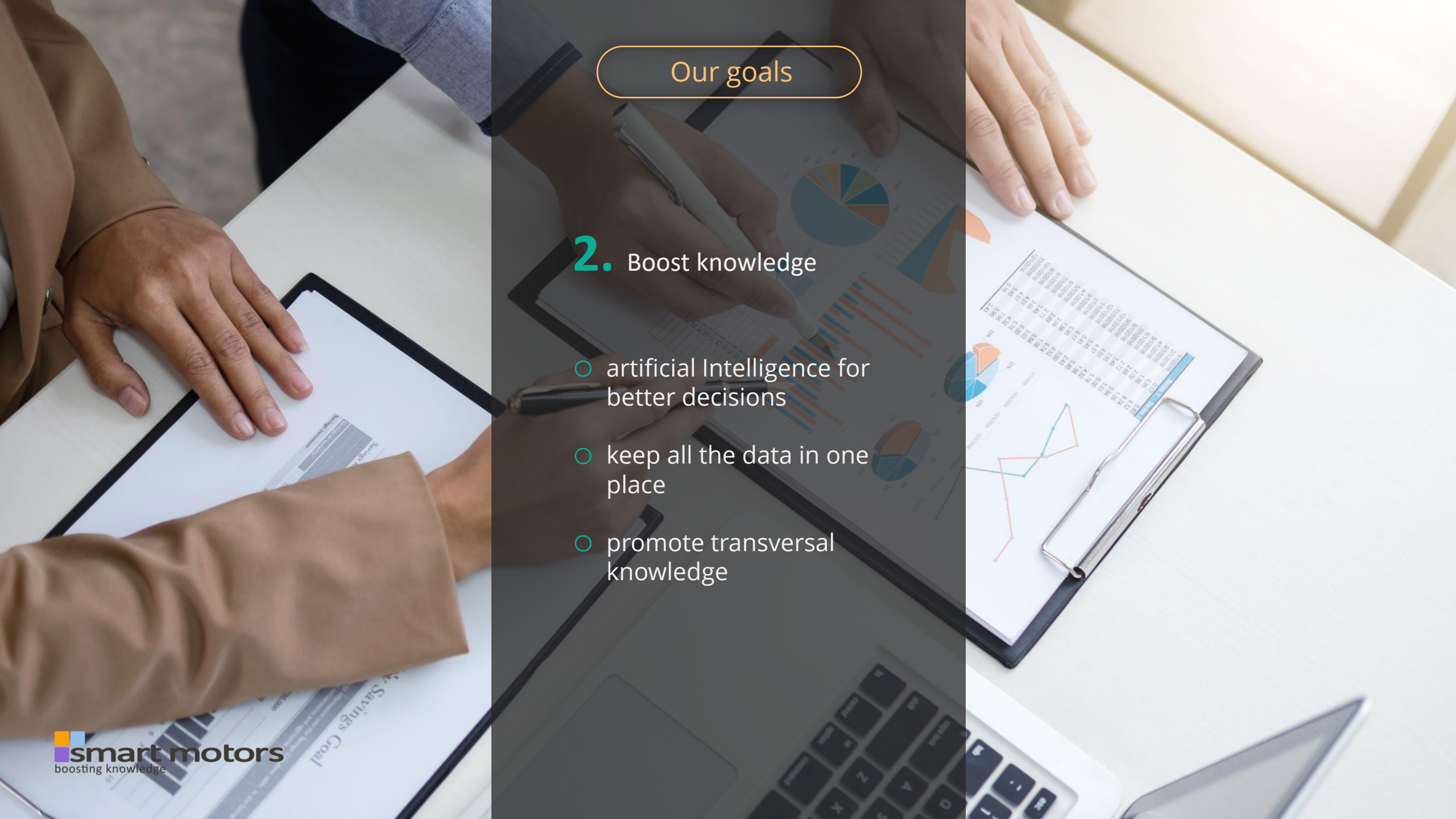
smart motors
boosting knowledge

Our goals

1. Be the digital partner

- streamline digitalization
- foster digital mindset
- channel efforts

smart motors
boosting knowledge



Our goals

2. Boost knowledge

- artificial Intelligence for better decisions
- keep all the data in one place
- promote transversal knowledge

smart motors
boosting knowledge

Our goals

3. Improve public transport networks

- use big data to streamline the offer
- channel information to the customer
- empower maintenance teams

smart motors
boosting knowledge

SAVANA

Join us on our mission and vision!

Our vision is to help the world be more sustainable besides improving people's live

We want to become the digital partner and accompany the transport operators in their digitalization transition and beyond.

smart motors
boosting knowledge
www.smartmotors.org