



# RailData's 30<sup>th</sup> Anniversary

8 October 2025  
Porto, Portugal



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# History of RailData





# Your Guide through the History

- **Petr Červinka**, ČD Cargo
- Railwayman since 1988
- Involved in RailData since founding till now
- Former chairman of HIPPS Assembly
- Chairman of ISR Assembly



# Our Roots



- RailData evolved from previous two ambitious UIC IT projects:
- **HIPPS** – Hermes International Production Planning and control System
  - 1990–1994 team did specifications for 4 functions
  - F1.1 (theoretical trip plan) and F2,3,4 (real plan, monitor, actions)
  - F1.1 for wagon trip plan with ETI/ETA based on train timetables
- **DOCIMEL** – DOCument CIM Électronique
  - CIT defined basic principles for paperless CIM in 1985
  - UIC team completed specs for 102 messages in 1992
    - Too complex, no consensus, unrealistic at that time
  - 1993: 5 railways agreed on a central system and founded **Euraildata**
  - 1994: Specifications for **ORFEUS**, start with just 1 message

# Initial Meetings

- Initial (constitutional) meeting of RailData was on 23 March 1995 in Bern
- 175<sup>th</sup> meeting of the UIC Steering Committee (October 1995) established RailData as a Special Group of UIC
- 5<sup>th</sup> meeting in Florence on 8 November 1995 was the 1<sup>st</sup> official meeting

## Minutes\_1st\_meeting\_RD\_1995.pdf - Adobe Reader

Soubor Úpravy Zobrazení Dokument Nástroje Okna nápověda

Niederschrift  
über die  
Konstituierende Sitzung  
RAILDATA  
Bern, 23.03.1995

### Teilnehmerliste

#### Herren

Dr. Eberhard Gottschalk	DB AG
Klaus Vogel	DB AG
Armin Böhlke	DB AG
Jesper Jensen	DSB
Pavel Pinkas	CD

#### Frau

Pascale Joyet	CIT
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#### Herren

Marcello De Rossi	FS
Marcello Penco	FS
Karl-Heinz Häußler	HIPPS
Ties van Ark	NS-Cargo
Michael Johrend	ÖBB
Helmut Gawlas	ÖBB

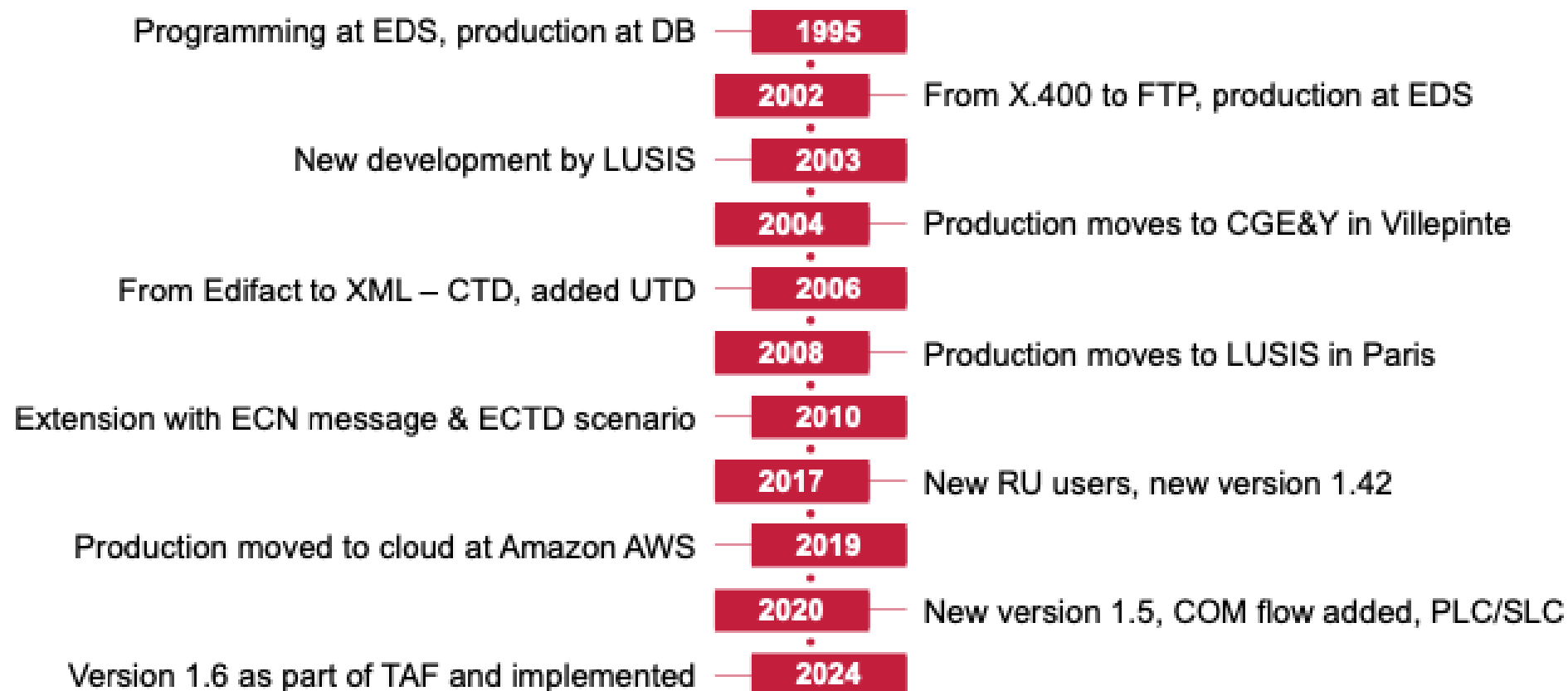
#### Frau

Rosa Martin Moreno	RENFE
Begona Romero	RENFE

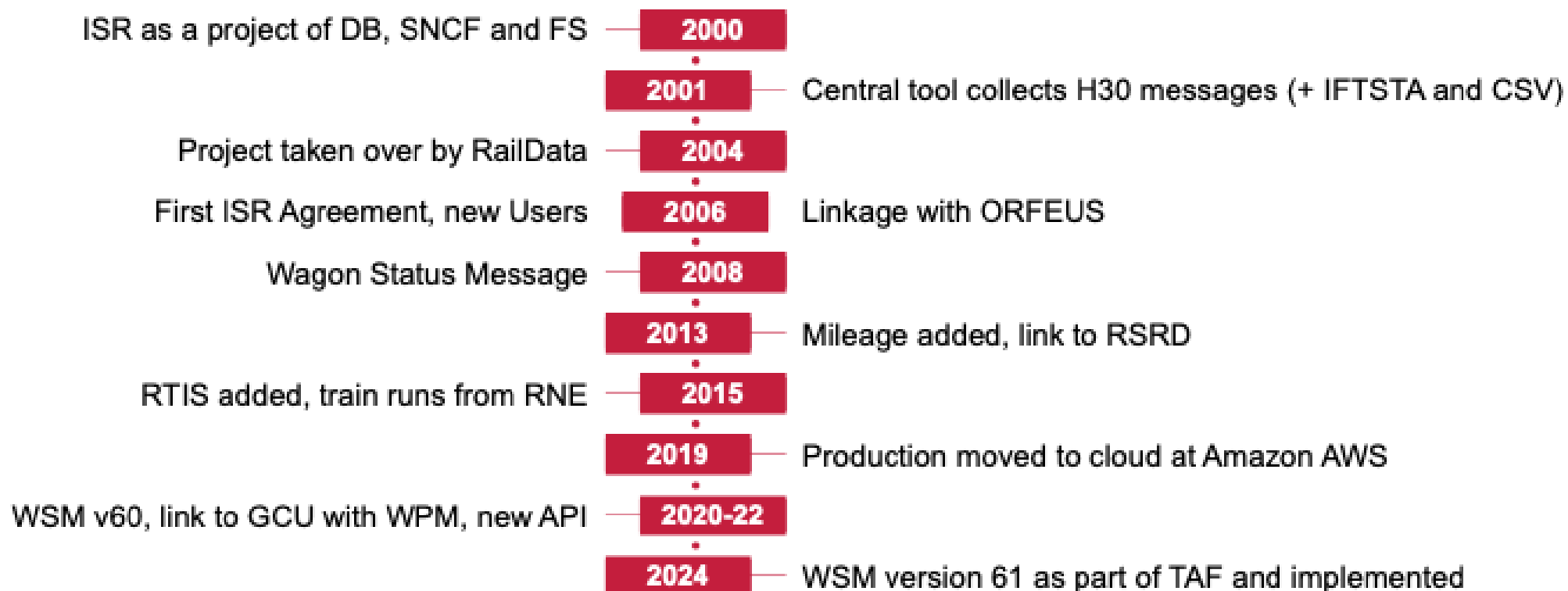
#### Herren

Antonio Hernandez	RENFE
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# ORFEUS Milestones | RailData is Growing



# ISR Milestones | RailData is Growing



# RailData People



## Chairmen:

- Bo Sandberg (1995–1999)
- Oliver Maurel (2000–2006)
- Martin Rühl (2006–2007)
- Rainer Wilke (2007–2013)
- Francis Bedel (2013–2016)
- Maarten Kesselaers (2017–2018)
- Michael Pfitzner (2018–2019)
- Mark Verhulst (2019–2021)
- Tommy Ransmark (2021–2025)
- Mahesh Bhattar (2025–present)

## Vice-Chair:

- Pierre Monneret (1995–1996)
- Horst Gerecke (1996–1997)
- Lothar Henrich (1997–2001)
- Burkhard Schulz (2001–2002)
- Martin Rühl (2003–2006)
- Kerstin Stenberg (2006–2007)
- Juraj Velebír (2007–2008)
- Francis Bedel (2008–2013)
- Tommy Ransmark (2014–2021)
- Matthias Mächler (2021–2024)
- Mahesh Bhattar (2024–2025)
- Christophe Lemaire (2025–present)



# RailData People



## **Chairs:**

Open Railway Freight EDI System

- Jesper Jensen (1995–2000)
- Marcello Penco (2001–2007)
- Philippe Gengoux (2007–2008)
- Hannelore Ansorge (2008–2011)
- Markus Rasing (2011–2013)
- Lothar Schneemann (2013–2023)
- Matthias Mächler (2023–present)

## **Chair:**

Commercial Responsibility Database

- Christian Kühnast (2019–present)

## **HIPPS Chairs:**

- Christian Fourdrinier (1995–1998)
- Katia Saint Ruf (1998–1999)
- Petr Červinka (2001–2002)

## **Chairs:**

International Service Reliability

- Hannelore Ansorge (2005–2008)
- Luca Mariorenzi (2008–2017)
- Petr Červinka (2017–present)

# RailData People

## RailData Team (Basel and Home):

- Alexander Martinez (1995–present)
- Martin Blau (1995–2013)
- Edith Waldvogel (1995–present)
- Ralf Gutbrod (2011–present)
- Oliver Kundt (2016–present)
- Jan Roller (2023–present)

## ...and Mainly You!

- Railway Experts
- Members' Representatives
- **Together we create the RailData family!**







Mulhouse, June 2015



Madrid, May 2018





# Stockholm, June 2023





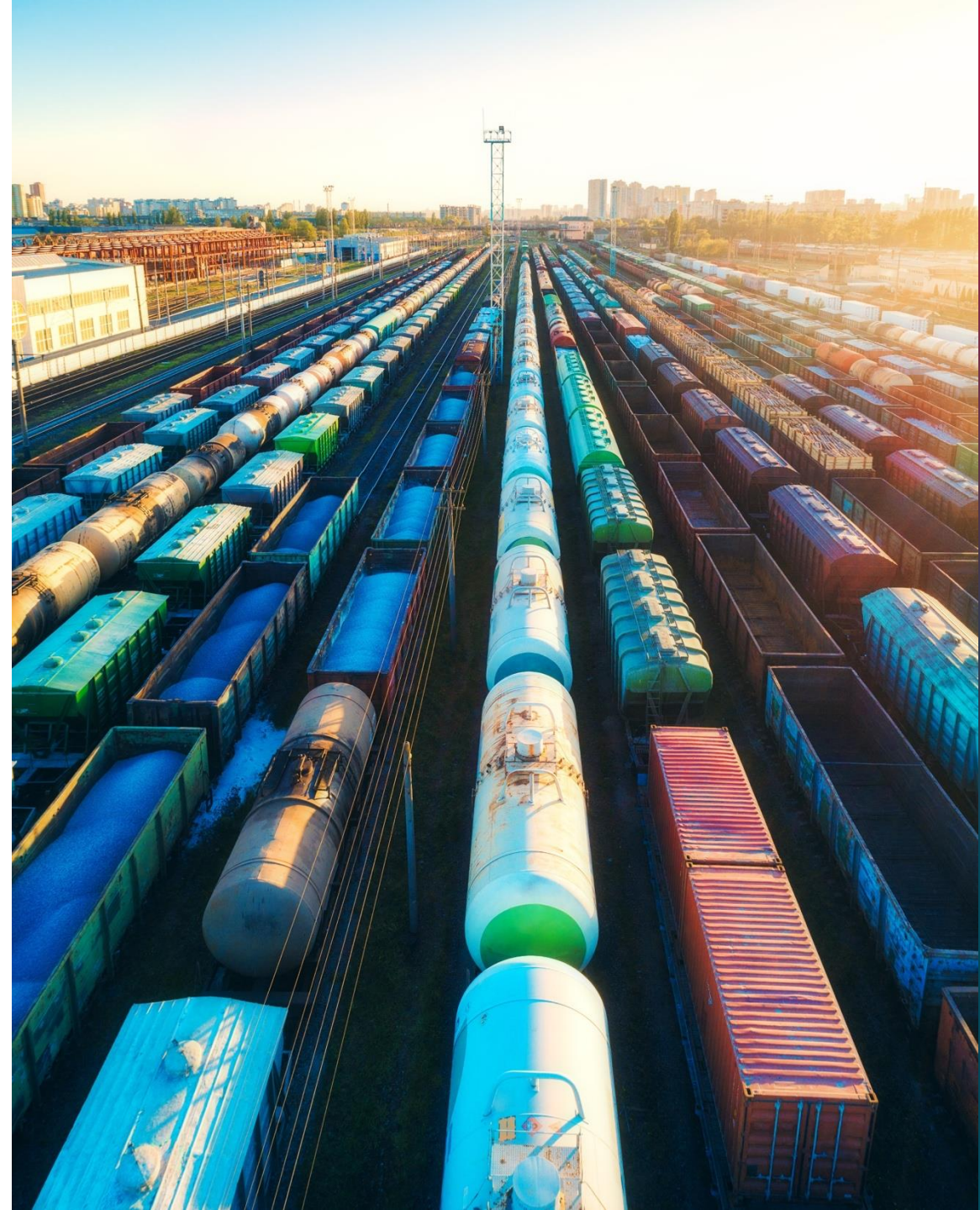
Bratislava, June 2024





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# RailData Today



# Matthias Mächler

- Working for SBB Cargo Switzerland (since 2001)
- Involved in RailData since 2017
- Chairman of ORFEUS Assembly





# Ralf Gutbrod

- Working for RailData since 2011
- Responsible for ORFEUS



# RailData is a Digital Platform for Rail Freight

- 11 major European freight railway undertakings are Members of RailData
- RailData serves ISR, ORFEUS, or CoReDa for 41 RUs in total
- RailData also provides ATTI functionality to more than 200 RUs





# Purpose and Benefits of RailData

Enable RU's win-win ...

competition



cooperation

...by improving the RU's interoperability

10 years before TAF TSI

# Today's Services



Tracking & Tracing



Exchange of  
Consignment /  
Wagon Notes



Commercial Wagon  
Responsible  
Database

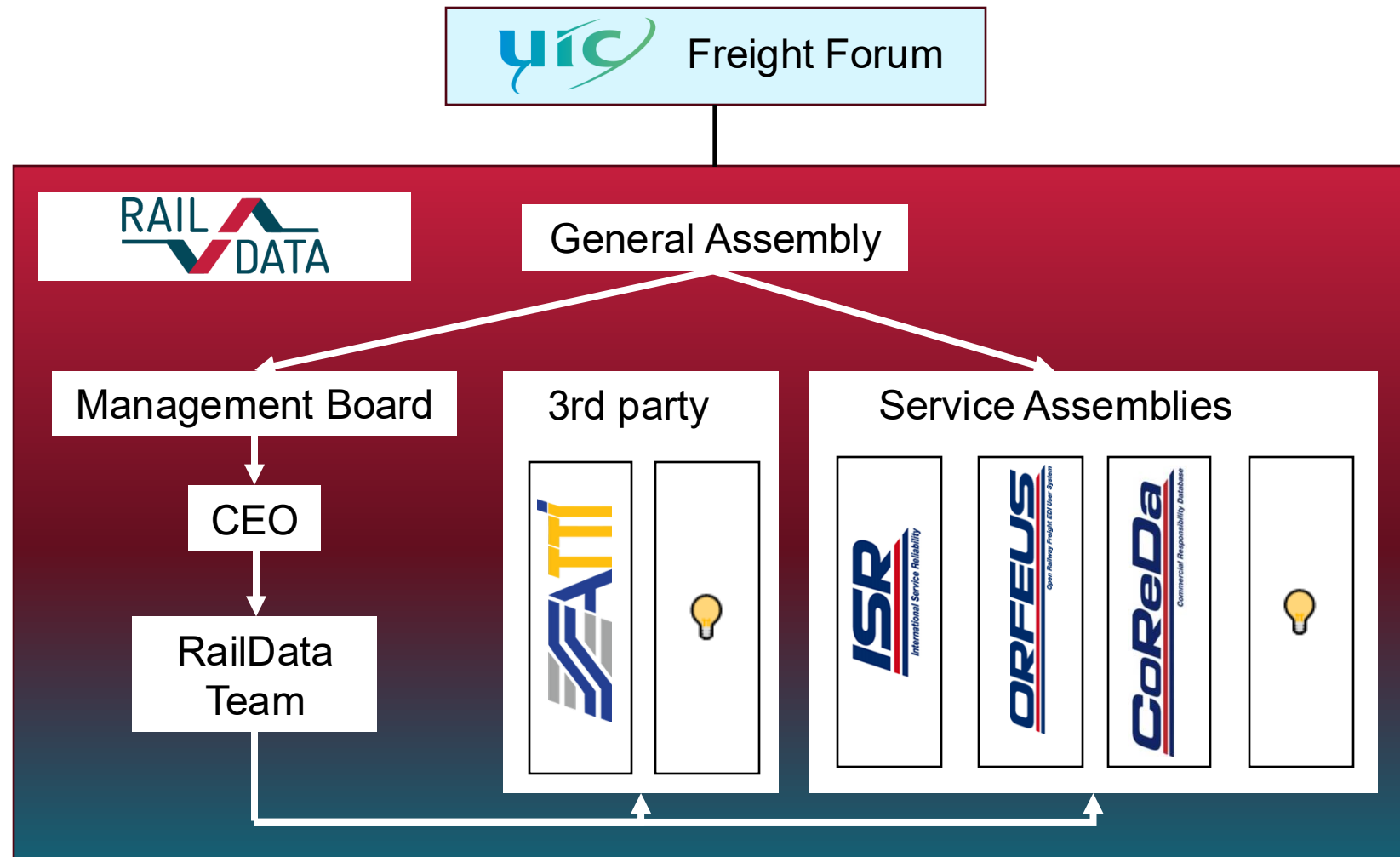


Train Transfer  
Inspection

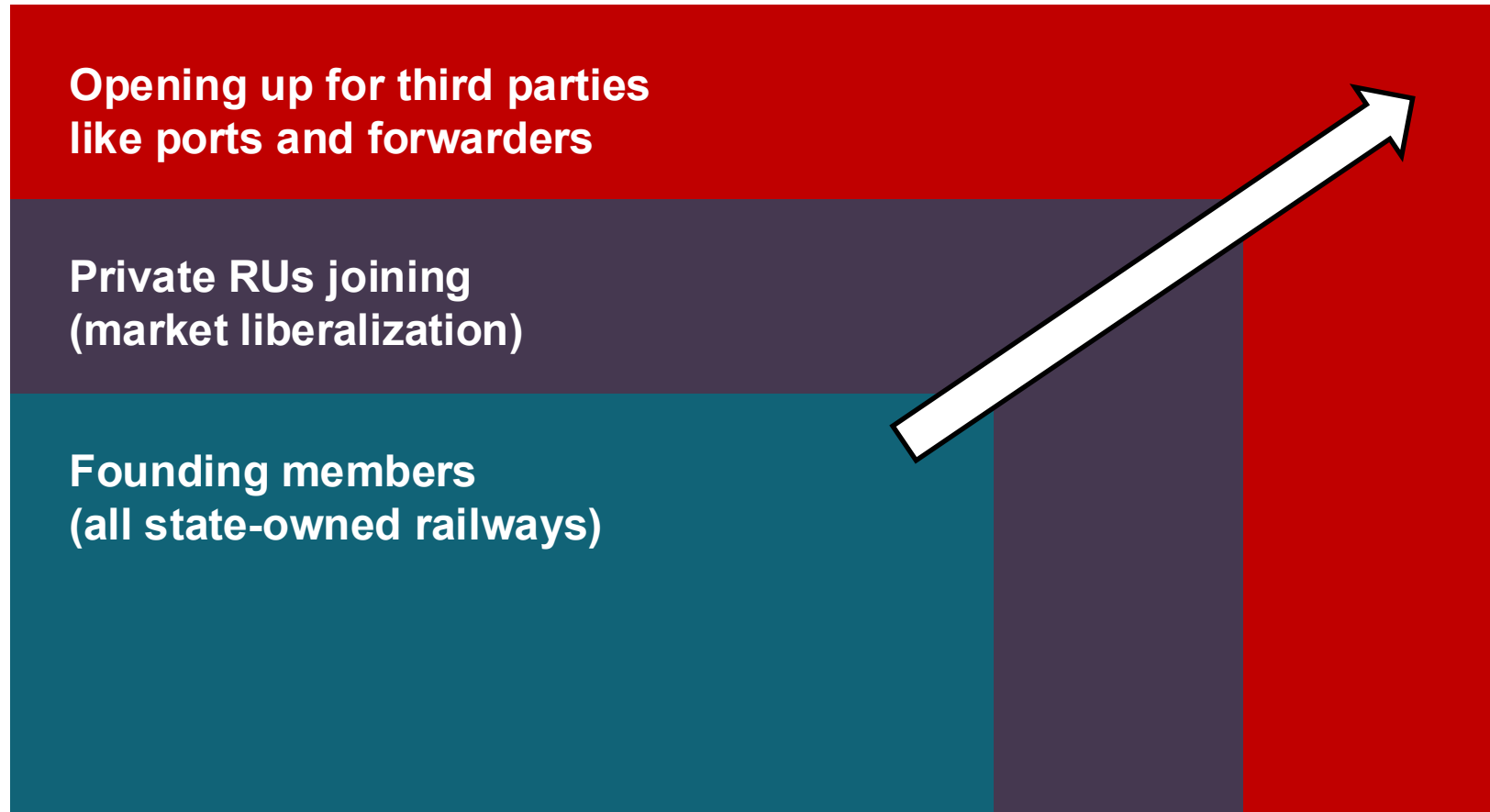
# Cooperation goes Beyond the Organization



# RailData's Structure Favors Addition of New Services

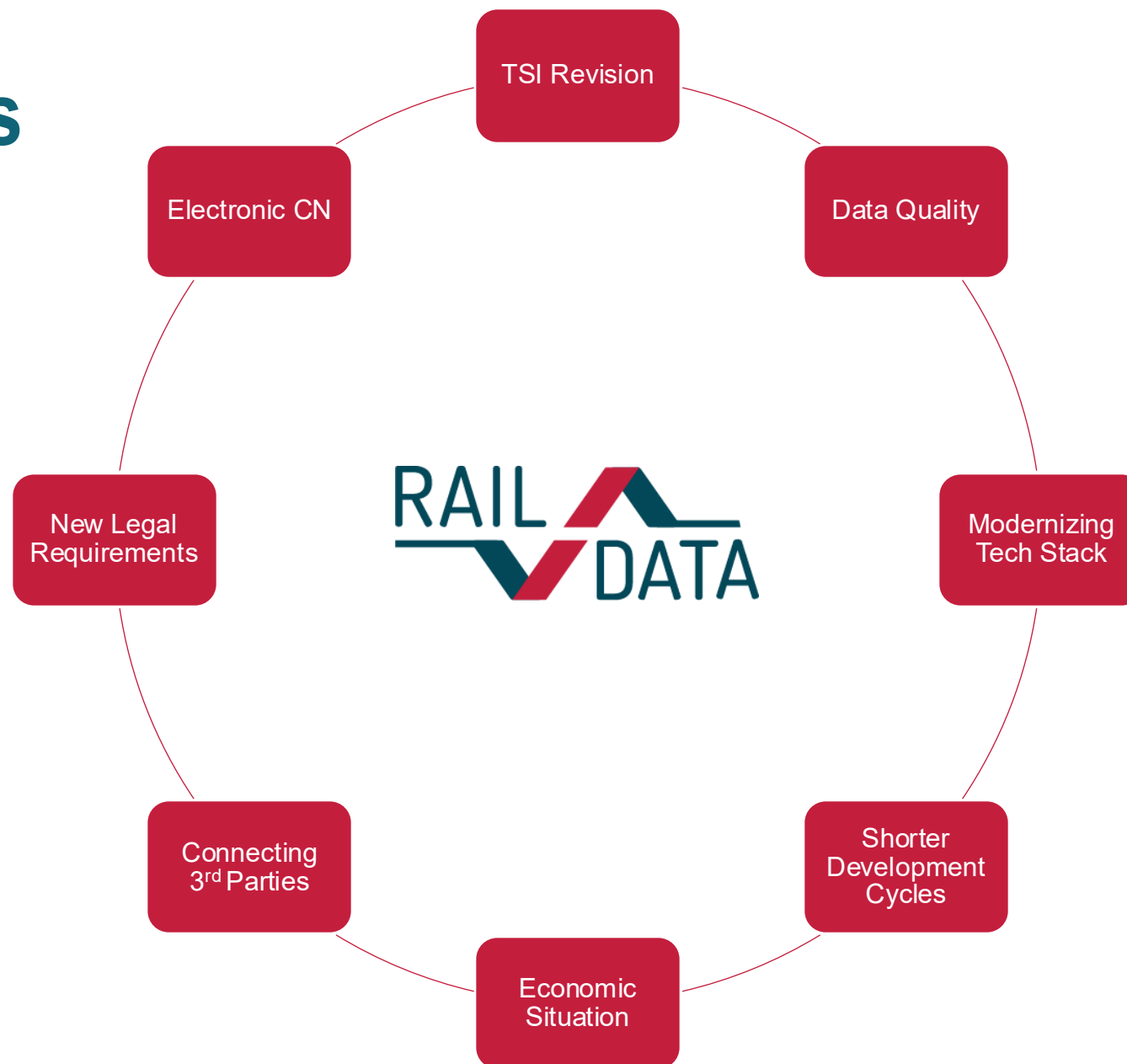


# From “State Railways Club” to Open Platform



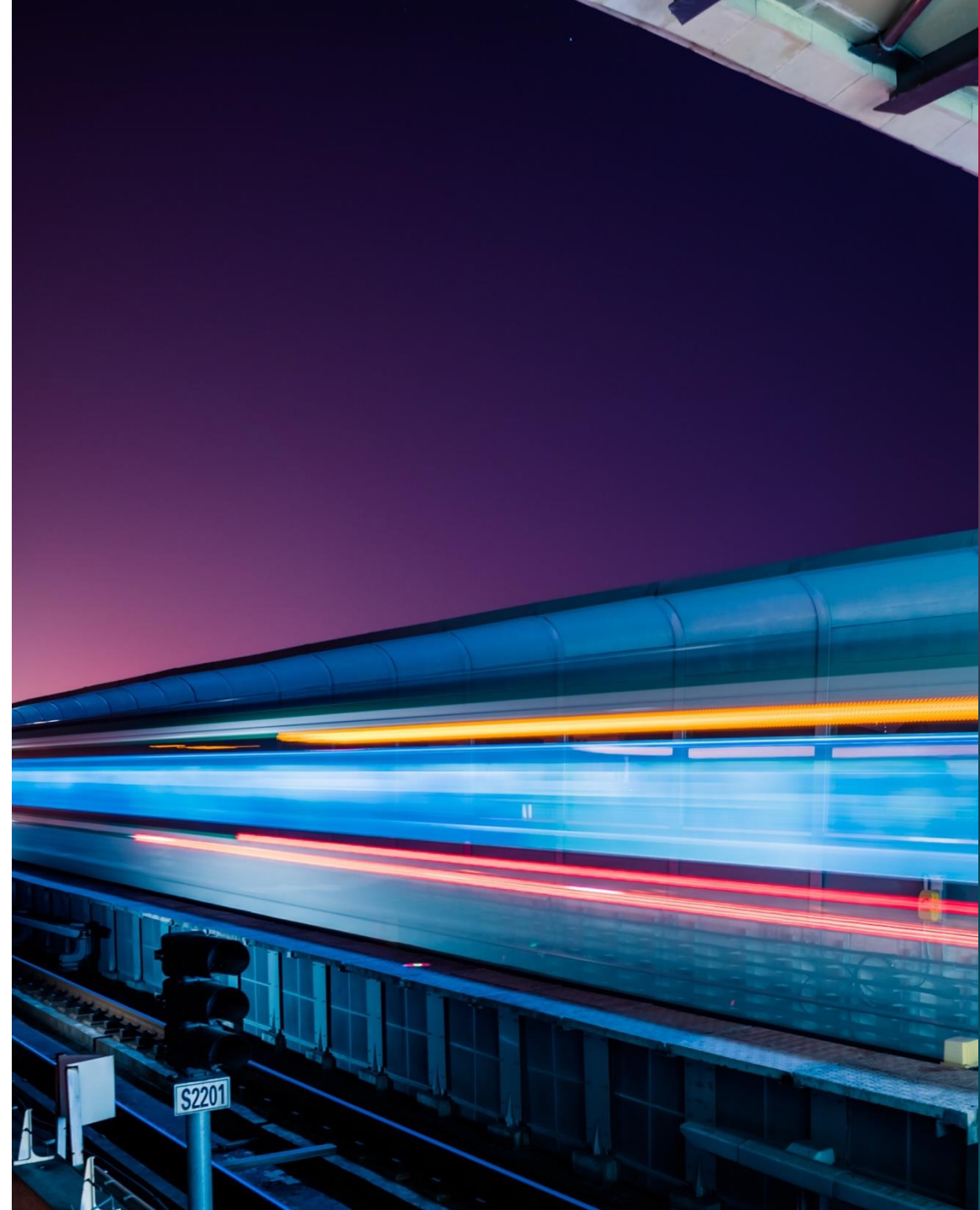


# Challenges



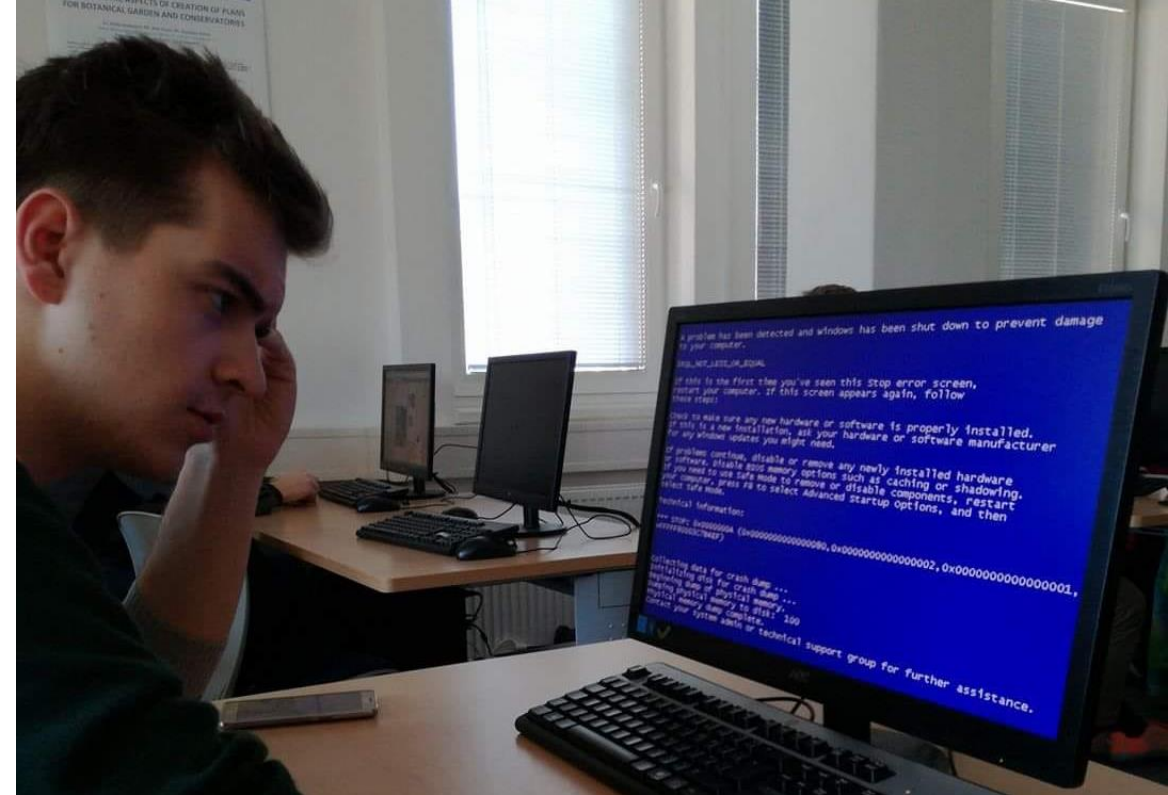
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# Future of RailData



# Jan Roller

- At RailData since 2023
- “Right-hand” of my colleagues
- GIS & Geospatial Analysis Expert and Web Development Consultant
- Focused on implementation of modern technologies at RailData
- Improving RailData’s visual identity and streamlining the workflows







# Oliver Kundt

- In the IT industry since 1988
- Specialized in Rail Freight, Telecommunications, and Insurance
- Various roles in project management, software development, BPR
- Strong expertise in DBMS, Data Warehousing, and Business Intelligence
- All-rounder at RailData
- Technical product ownership ISR, CoReDa, ATTI

# What to Achieve

- **Increase coverage** by easily connecting additional railway undertakings
- **Serve not only for railway undertakings** but also, for other actors in the rail freight industry
- **Tailor our services** according to our partners' needs
- **Accelerate developments**
- **Evolve to an integrated platform**





# New Features, Architecture and AI

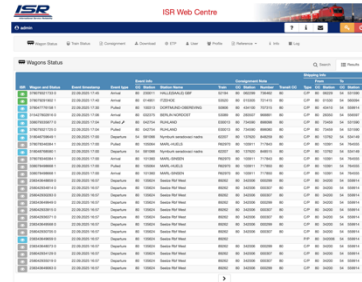


## New Features



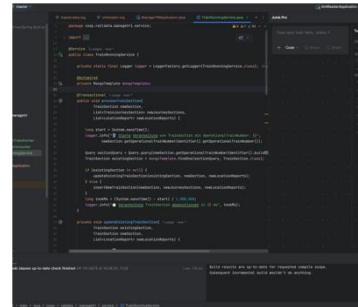
- Subscription Model
- Contract database
- PowerBI Reports
- Email to WSM

## Web Centers Redesign



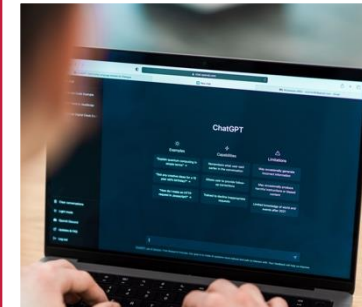
- Unified Web Center for all applications
- With a modern design

## Modernize Tech Stack



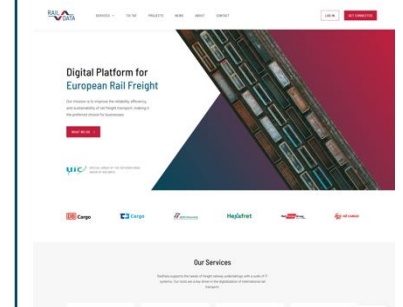
- Shift to modern technologies
- AI is utilized to support the implementation

## Support Assistant



- AI driven support assistant
- Knowledge-base of past support tickets and documentation

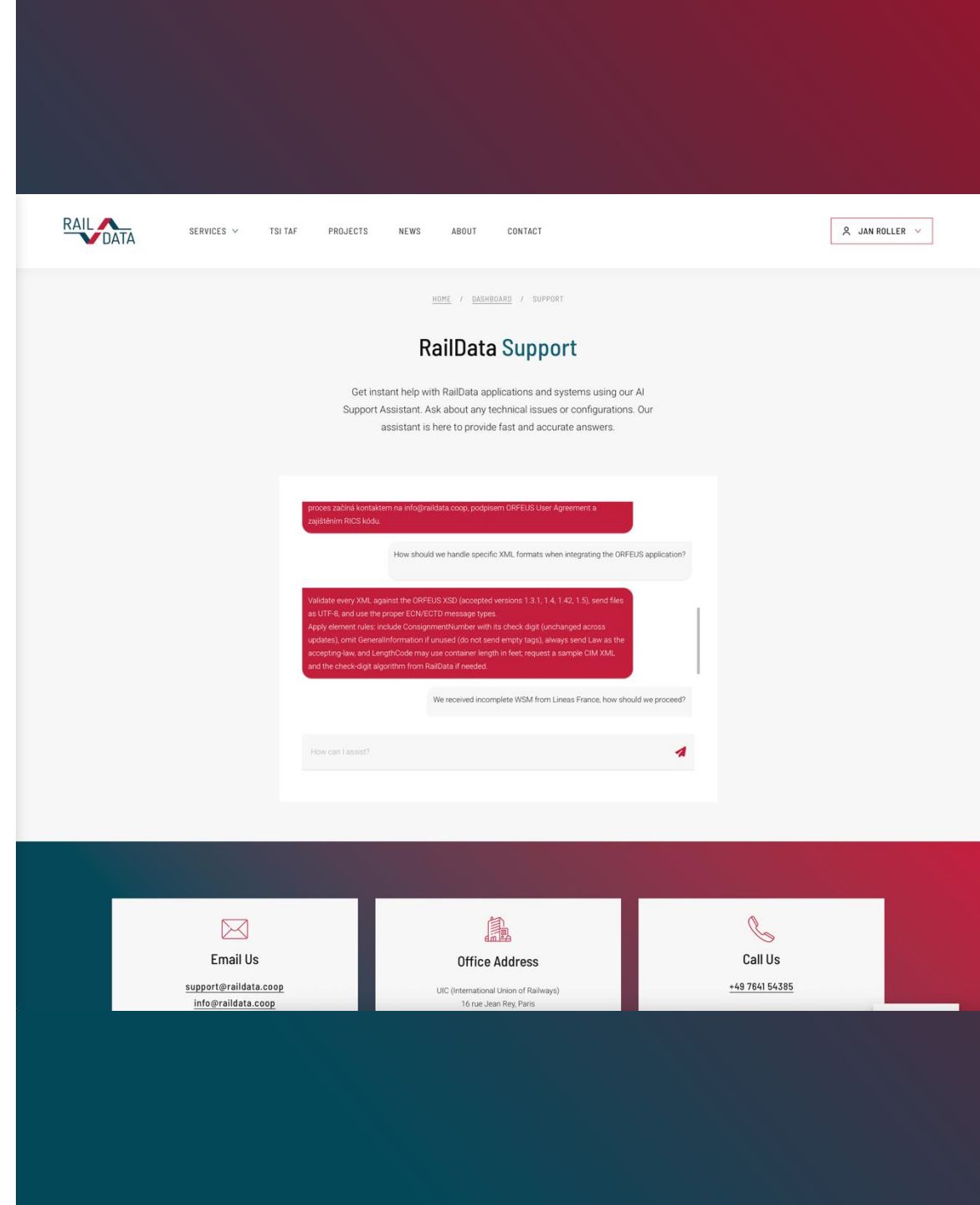
## New Website



- With a modern design
- Completely rebuilt Dashboard for users

# AI Support Assistant

- Currently in development
- Utilizes OpenAI API Platform
- Knowledge base
  - Documentation of RailData's applications and systems
  - Previous support tickets handled by the RailData team
- Replies in the user's language
- Answers questions & tries to help with support requests
- Will be accessible on the RailData website's Support page



# Proof of Concept for the New Tech Stack

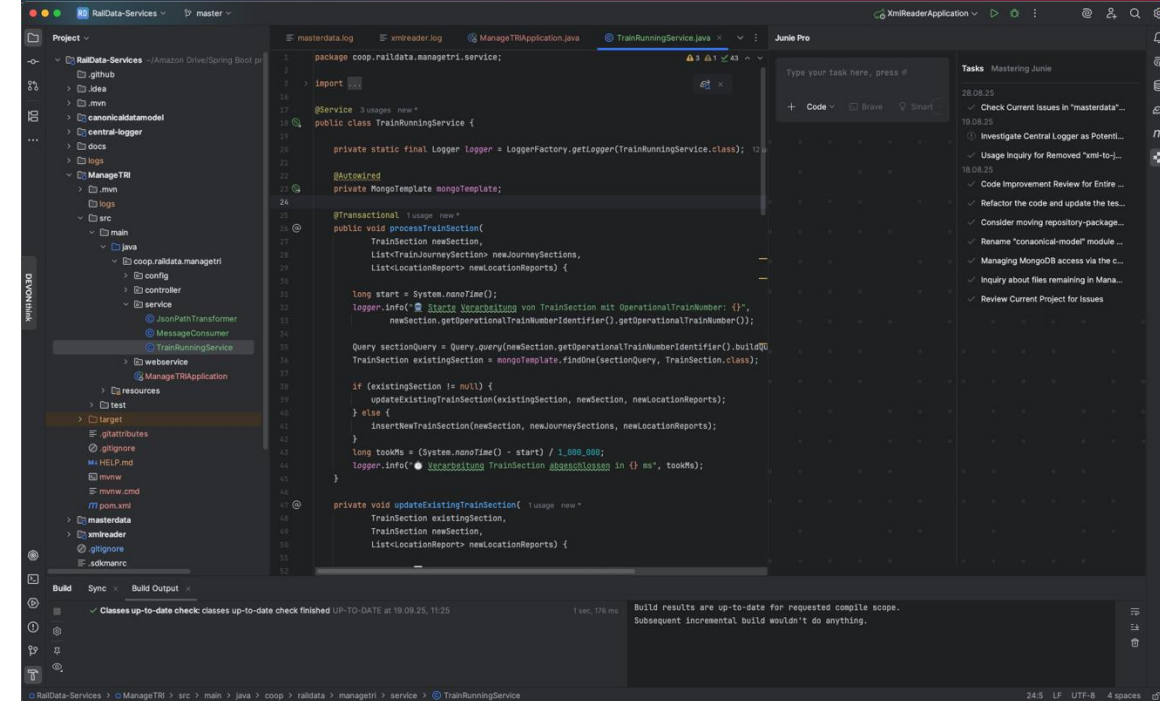


(TAF) stakeholders



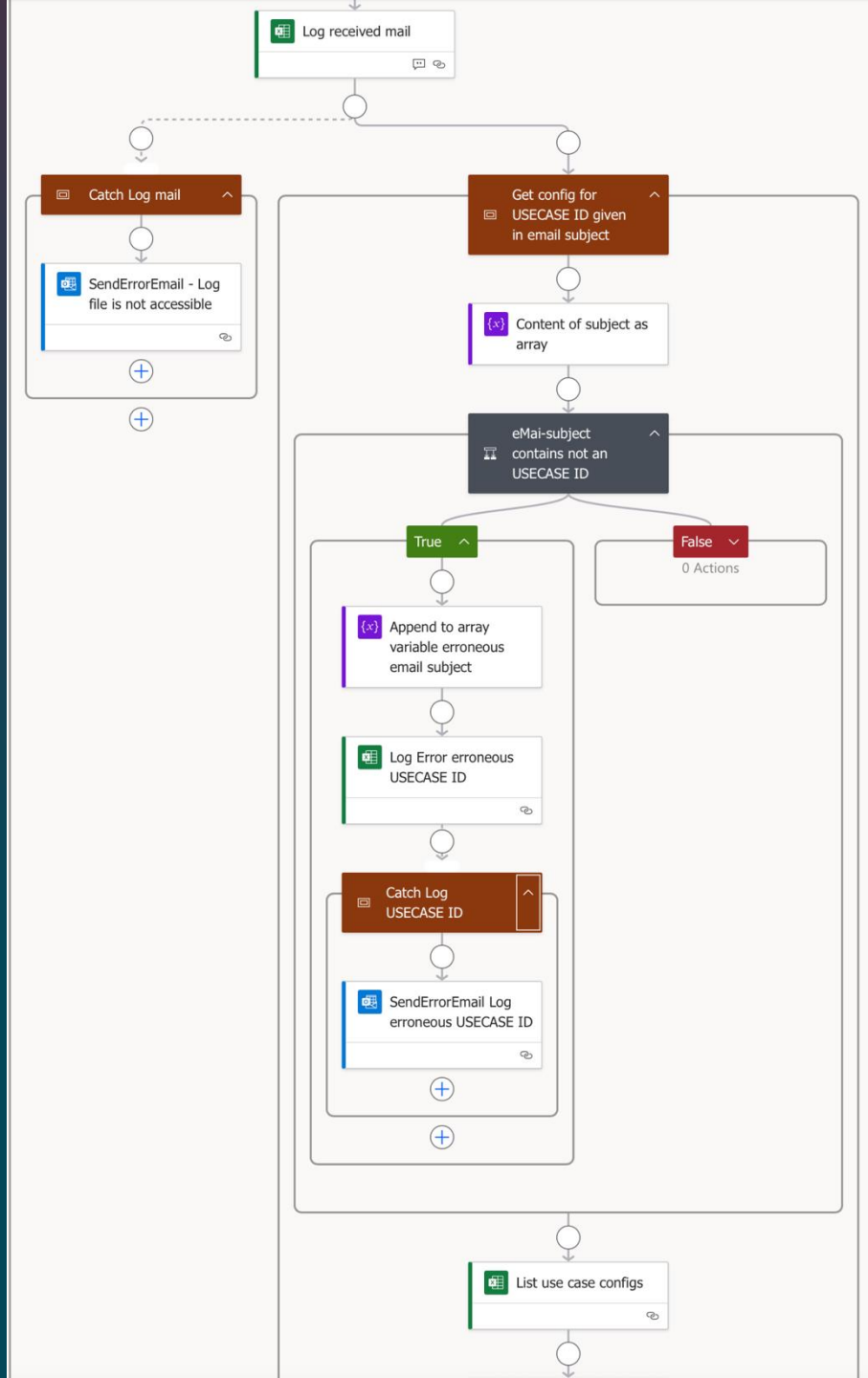
(TAF) message exchange

Proprietary message exchange



# Email to WSM

- **Aim:** Get WSM mainly for initial (“Pulled”) and terminating (“Delivered”) wagon events from first- and last mile partners
- **Solution:**
  - Special use cases are preconfigured per partner
  - Partner simply sends Email with use case number and wagon list and loading status
  - Based on predefined use case and current wagon lists, a RailData Power Automate flow creates related WSM61 and sends them via the API to ISR
- Pilot will run with DB Cargo; other partners are welcome!





# Mahesh Bhatter

➤ Chairman, RailData



SUNO

bhatter

Home

Create

Studio

Library

Search

Radio

Hooks

Explore

Notifications

30 Credits

Go Pro

Unlock new features, more song credits, better models, and more!

Upgrade

Earn Credits

October 13, 2025

What's new?

More from Suno

30

SimpleCustom

v3.5

Song Description

rail freight data exchange and digitalisation problems, modern hit

+ Audio

+ Lyrics

Instrumental

Inspiration

+ rest

+ punk

+ resonant

+ indie rock

Create

<

My Workspace

Search

Filters (3)

Newest

Freight Lines and Firewalls

modern pop, industrial textures, electronic beats, male vocals

1:00

Upgrade for full song

Tracks and Codes

modern pop, industrial textures, electronic beats, male vocals

1:00

Upgrade for full song

Tracks of Tomorrow

electronic beats, modern pop, layered synths with a driving rhythm and a pulsating bassline

2:32

Tracks of Tomorrow

electronic beats, modern pop, layered synths with a driving rhythm and a pulsating bassline

2:32

4 songs

Reset filters

electronic beats, modern pop, layered synths with a driving rhythm and a pulsating bassline

[Verse]

Iron snakes on rusted rails  
Carrying secrets in coded tales  
Steel whispers lost in the haze  
Data stuck in the stone age maze

[Prechorus]

Click click goes the server's fight  
Signals drowning in the night

[Chorus]

Tracks of tomorrow stuck in the past  
Digital dreams that just don't last  
We're chasing ghosts on an endless line  
Exchanging nothing in a data mine

[Verse 2]

Freight cars hum with a lonely tune  
Algorithms trapped under the moon  
Rust and wires  
A broken bond  
Where's the future we leaned upon

[Chorus]

Tracks of tomorrow stuck in the past  
Digital dreams that just don't last  
We're chasing ghosts on an endless line  
Exchanging nothing in a data mine

[Bridge]

Pixels freeze where they should run  
A race unfinished yet just begun  
Railways scream but no one hears  
Lost connections  
Tangled gears

Publish

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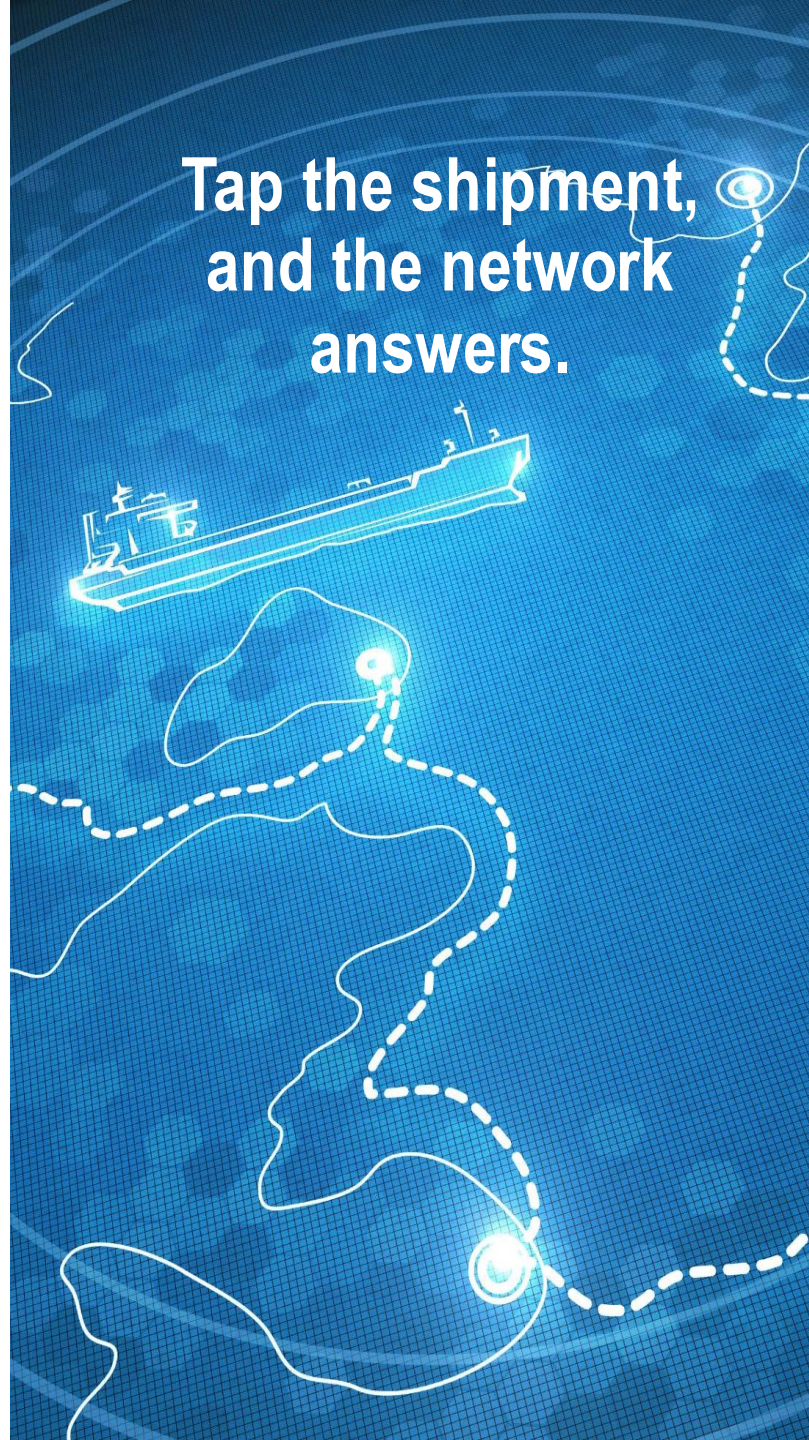




## Freight: From Days to Seconds

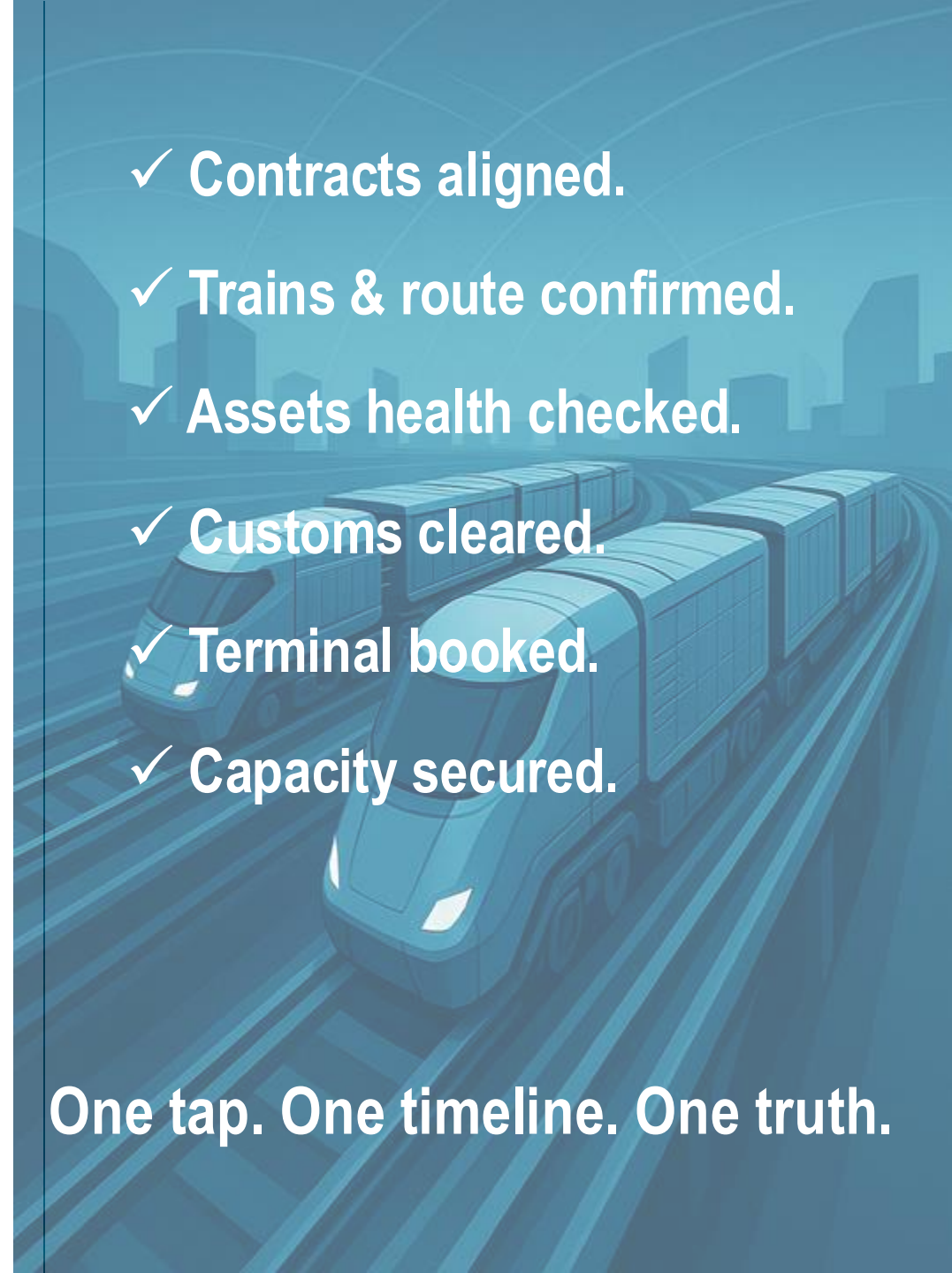


Tap the shipment,  
and the network  
answers.



- ✓ Contracts aligned.
- ✓ Trains & route confirmed.
- ✓ Assets health checked.
- ✓ Customs cleared.
- ✓ Terminal booked.
- ✓ Capacity secured.

One tap. One timeline. One truth.





# Core system components

## Digital twins and standardized telemetry

broadcasting location, condition, and constraints for wagons and terminals.

## Minimal common data model and semantic layers

carrying cargo intent, handling rules, and legal metadata with the shipment.

## Federated identity and permissioned exchange

where data owners grant time-bound access via verifiable credentials and auditable consent logs.

## Automated market and orchestration

primitives for time-bound capacity trading, slot auctions, and smart-contracted SLAs.

## Edge intelligence and predictive

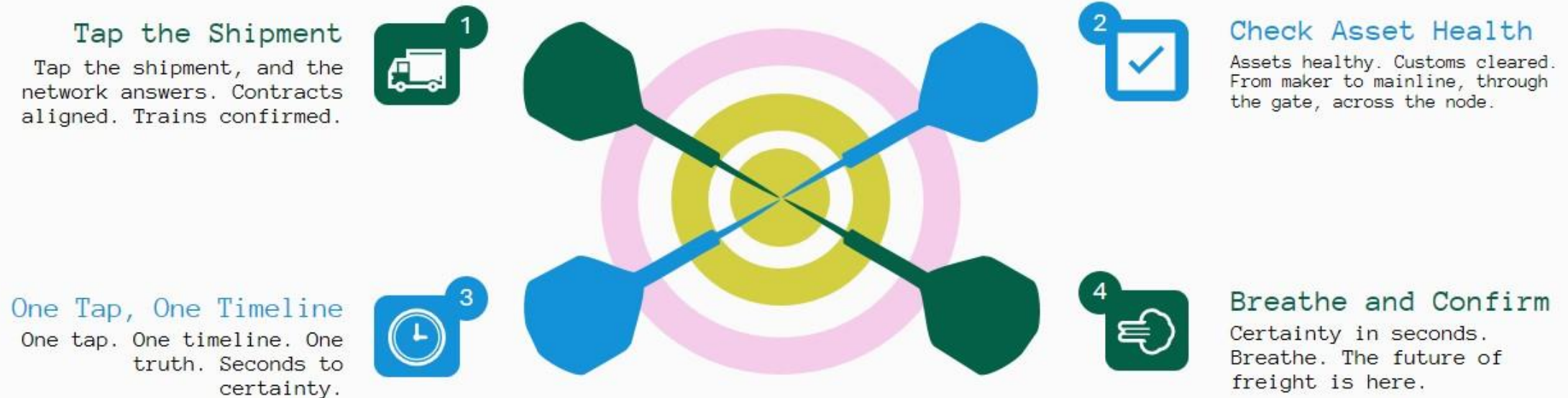
maintenance that schedules parts swaps and crew reassignments before delays cascade.



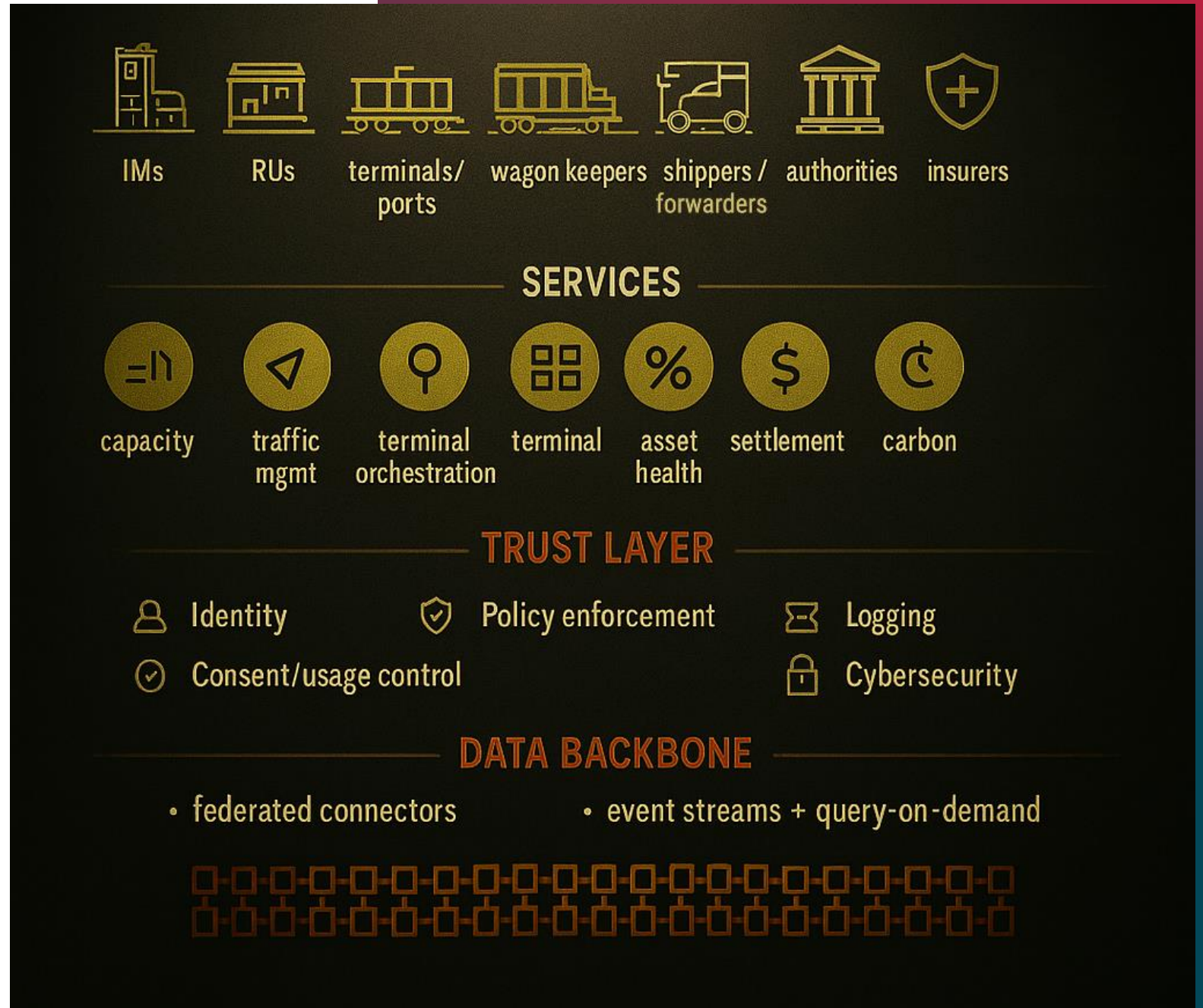


# Freight: From Days to Seconds

Decisions in freight used to take days. Now, certainty happens in seconds.



THE FUTURE IS HERE!





# Thank You!

RailData's 30<sup>th</sup> Anniversary

8 October 2025

Porto, Portugal

