TRUST BY DESIGN

Stefan DISTLBERGER

vossloh
enabling green mobility

TRUST IS INVISIBLE.

UNTIL IT'S NOT.

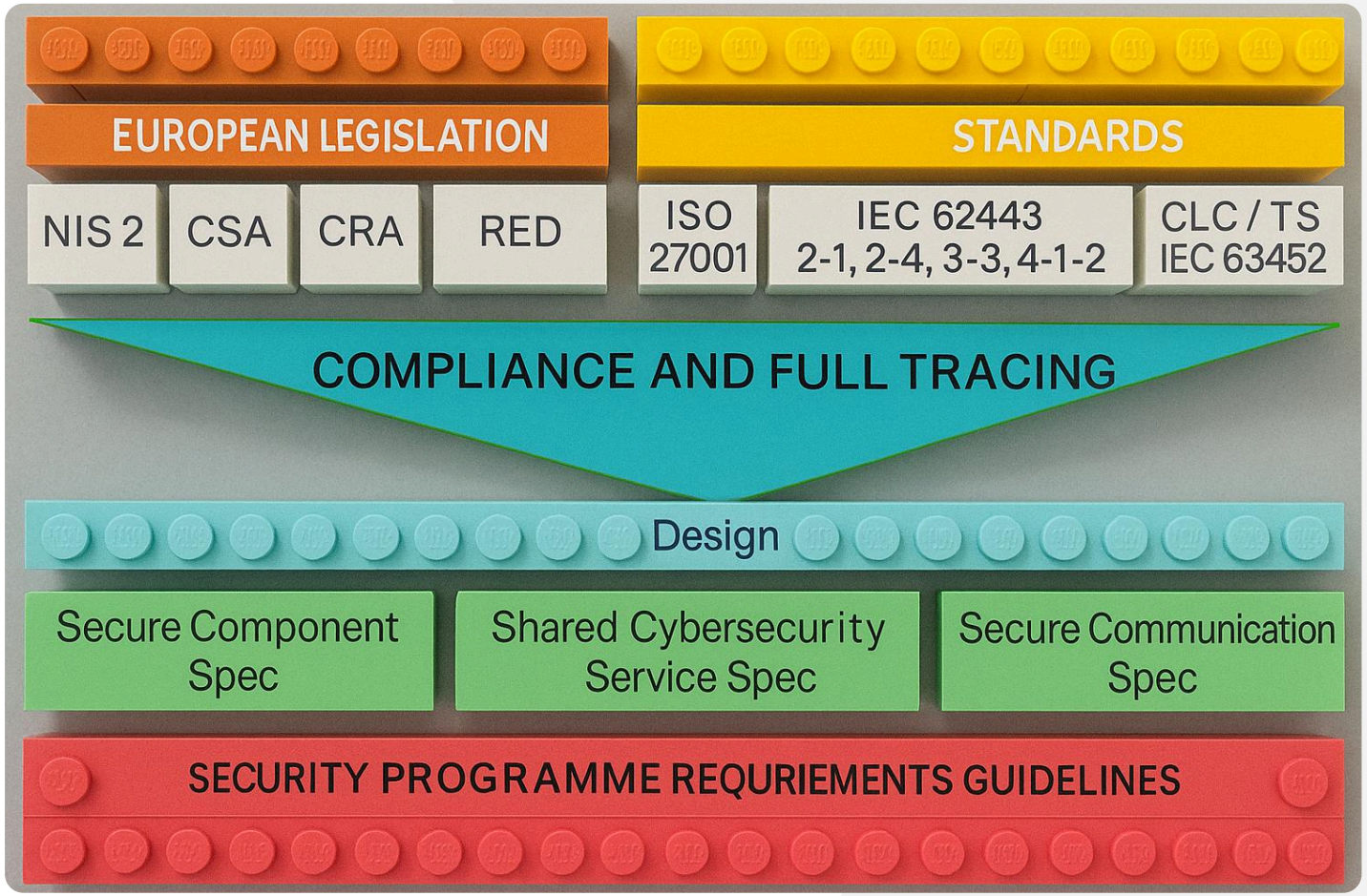
Every year, 10 billion passengers board trains without hesitation, trusting in the safety of unseen systems. This trust isn't accidental; it's the very foundation of rail transport, engineered into every component and process.

CRA
NIS2
Safety
Standards
DIGITAL
CHANGES
EVERYTHING!

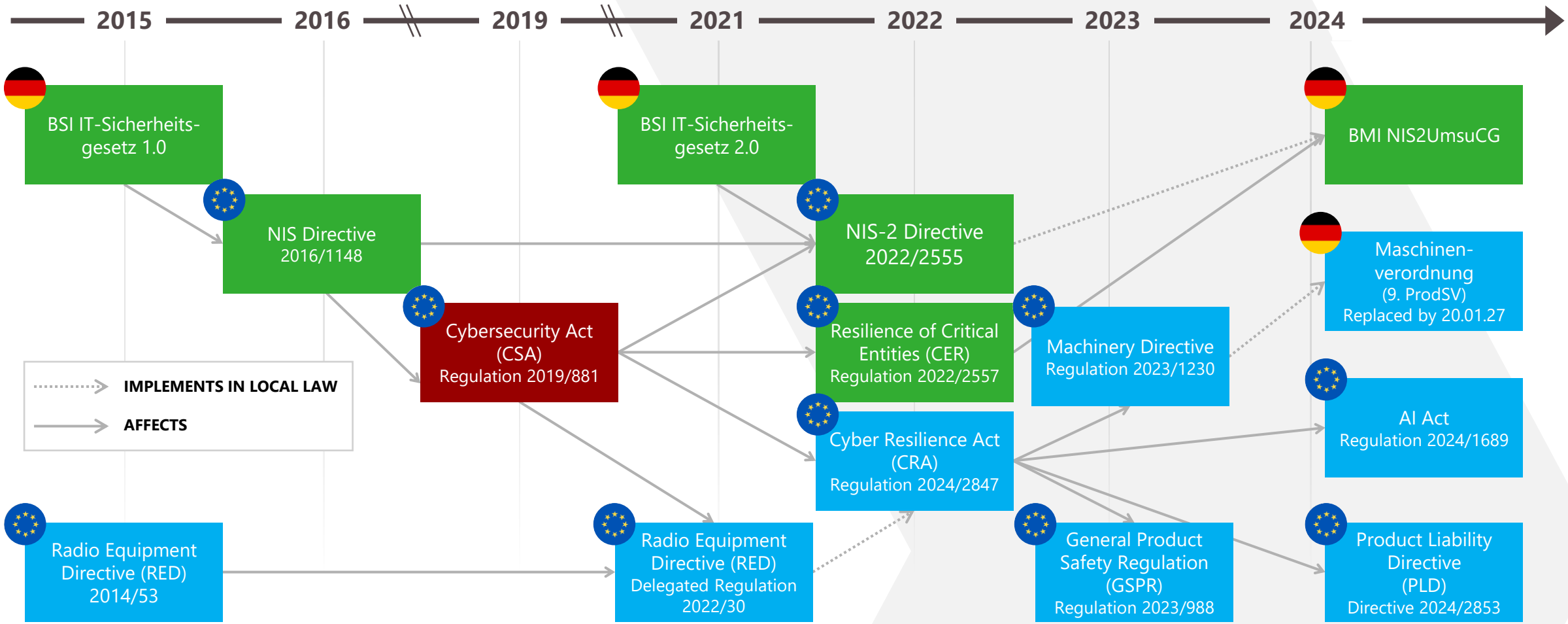
SAFETY AND SECURITY

TRAIN OPERATION IS A SYSTEM OF SYSTEMS

EUROPEAN LEGISLATION AND STANDARDS



TIMELINE FOR NIS-2 AND CRA IMPLEMENTATION



HACK THE NETWORK. HACK THE TRAIN.

Cyber Attack = **Safety Attack**

In an integrated system, cybersecurity breaches directly translate to safety failures. The convergence of systems means attackers can compromise train operations through cyber means, making cybersecurity everyone's responsibility.

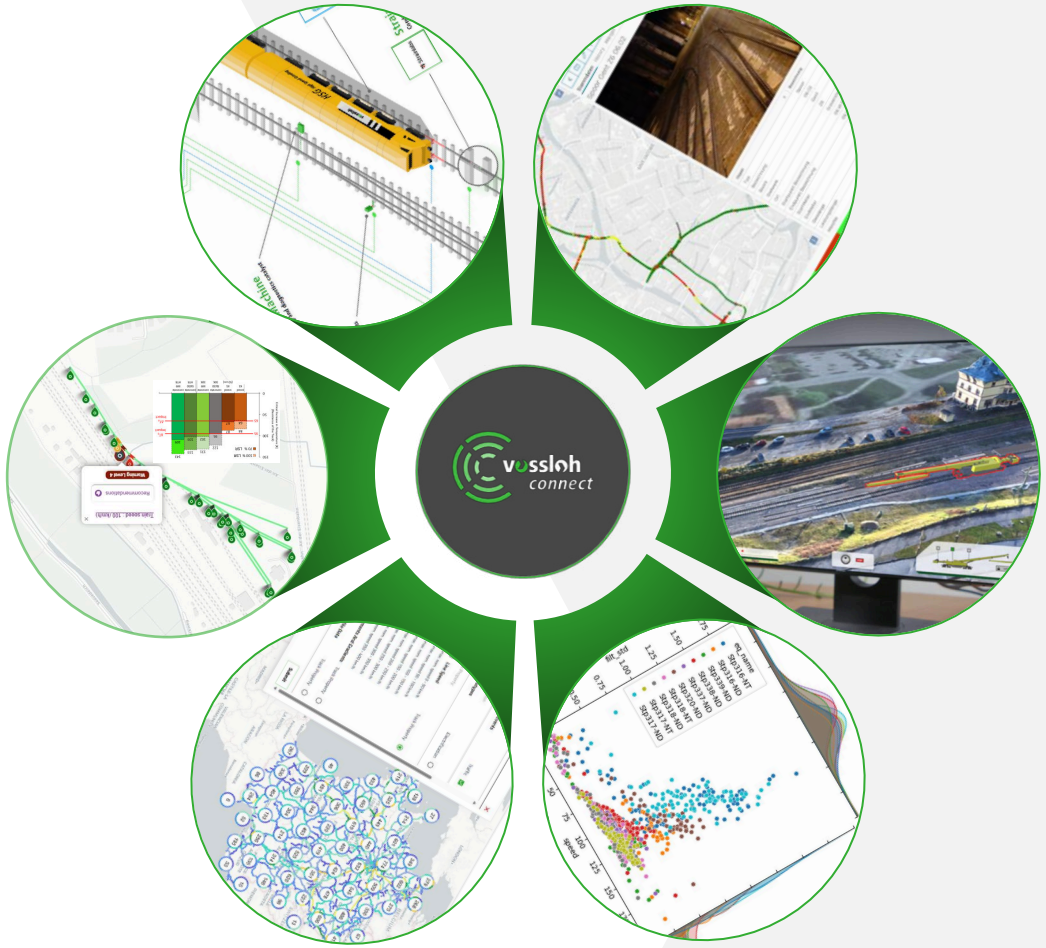
CRA + NIS2 = THE EUROPEAN SHIELD

European regulations form a comprehensive legal framework,
transforming cybersecurity from best practice into mandatory requirement.
It's a unified zone of digital protection for critical infrastructure.

CRA
Product Security

NIS2
Operational Security

WHY THIS MATTERS FOR VOSSLOH?



ASSET MANAGEMENT

- BIM – Level 3
- CMMS
- GIS
- Etc.

WAYSIDE & ONBOARD IoT

- / Control
- / Inspect
- / Monitor

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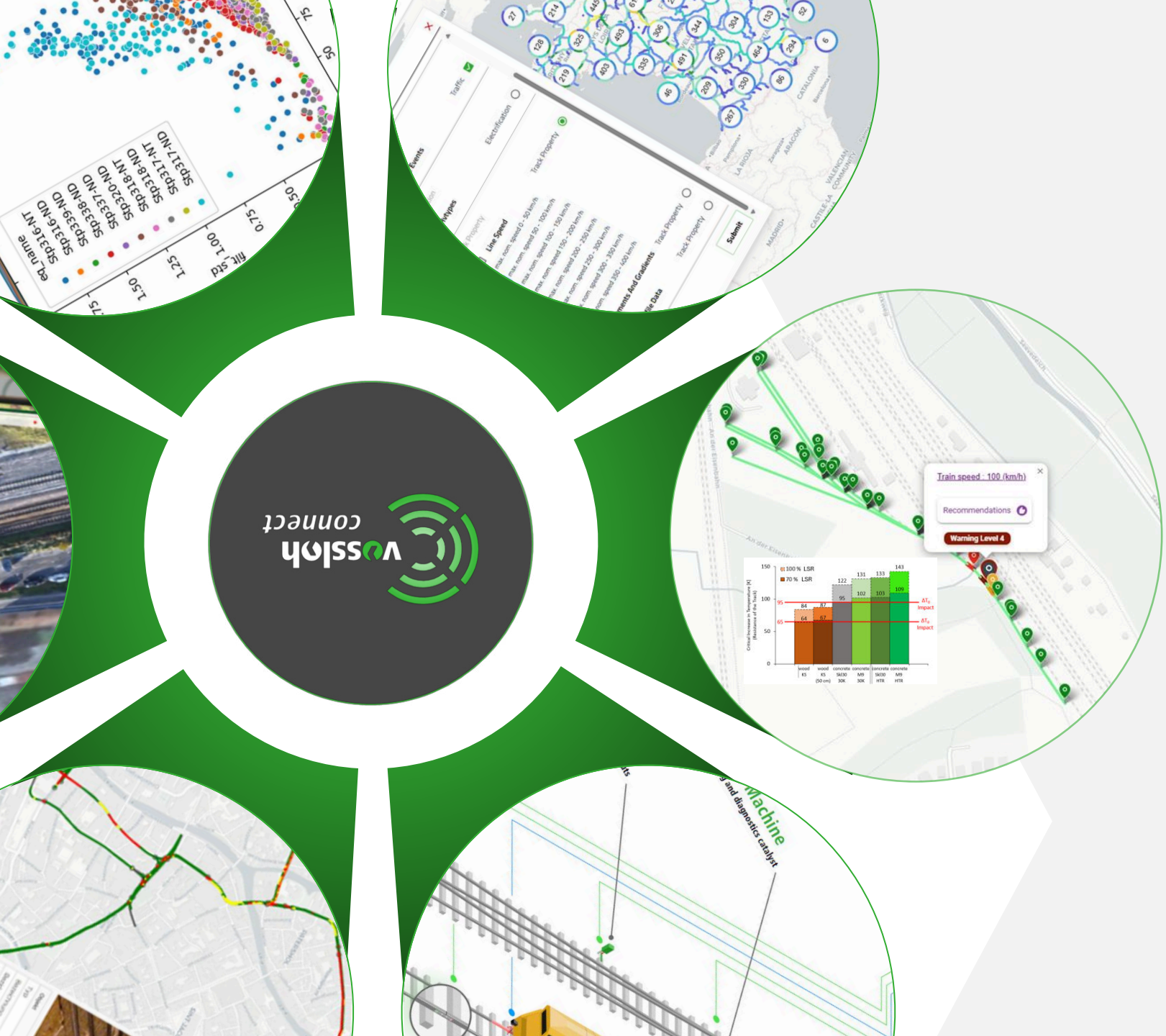
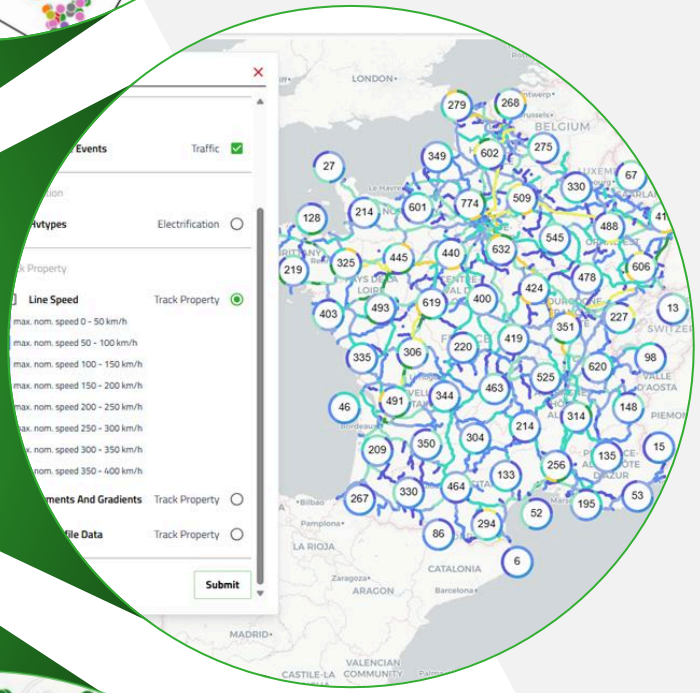
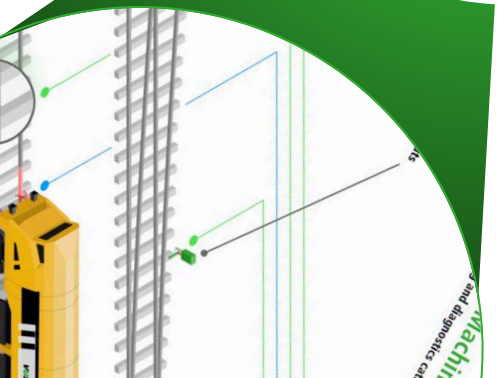
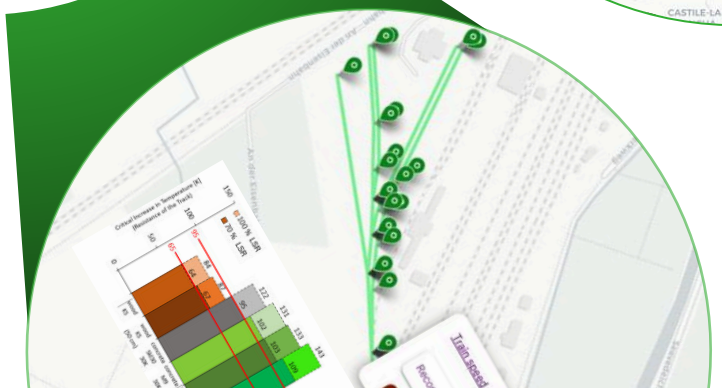


TRACKSTABILITY

- Predict thermal track stability risk
- Quantify lateral/longitudinal resistance
- Guide prescriptive maintenance actions







TRACKSCAPE

- Combine any Source
- Manage critical conditions
- Visualize any Data source on linear and point assets

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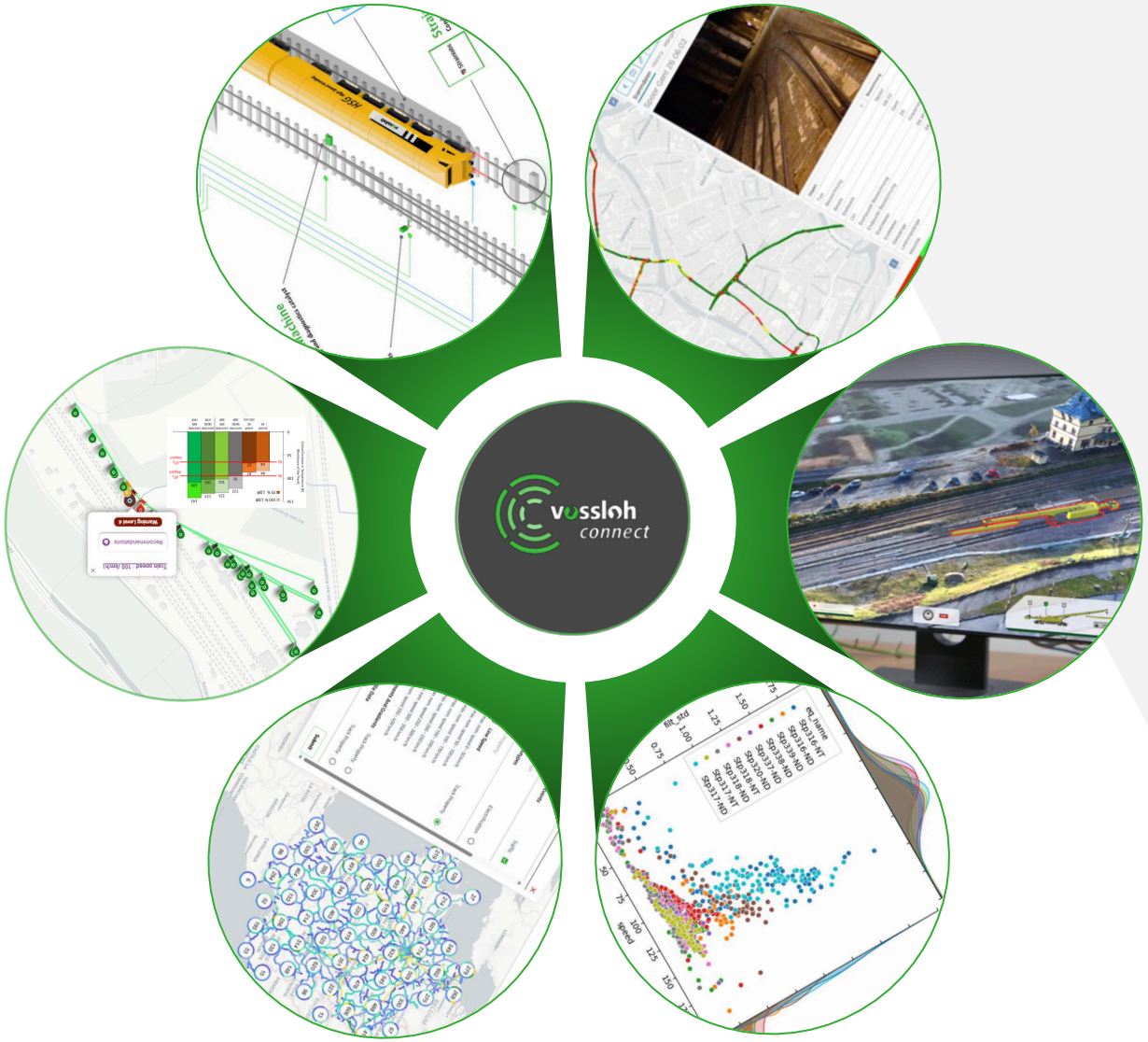

TRUST BY DESIGN. FROM DAY ONE.

It is not a feature to be added or a checklist to be completed. It is the foundational approach that begins every product development, every project, and every daily decision. It is our commitment to ensuring every journey remains safe, secure, and worthy of passenger confidence.