getzner
engineering a quiet future

ENGINEERING
A QUIET FUTURE.

Focus on what we measure

A digital solution to transform a rail into a smart rail

About Us

FOUNDATION: 1969 as daughter of Getzner, Mutter & Cie.

EMPLOYEES: 490 (2020)

BUSINESS UNITS: Railway, Construction & Industry

TURNOVER: EUR 105.5 million (2020)

EXPORT RATIO: 91%

LOCATIONS: Bürs (AT), Berlin (GER), Munich (GER), Stuttgart (GER), Lyon (FR), Paris (FR), Amann (JO), Tokyo (JP), Pune (IN), Beijing (CN), Charlotte (US), Melbourne (AUS)

Business Units

RAIL

- Lower life cycle costs
- Improved track stability
- Improved passenger comfort

CONSTRUCTION

- Less airborne, structure-borne & impact noise
- Building provides a better quality of life
- Increased property values

INDUSTRY

- Reduced vibration and noise
- Less wear & maintenance costs
- Greater precision & functionality

Elastic Solutions for Railway Superstructure
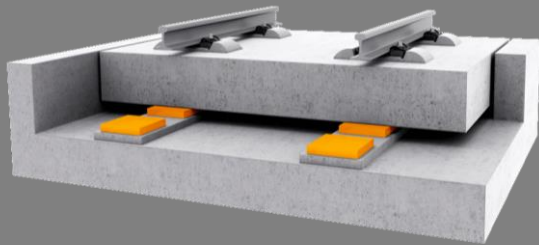

Under Ballast Mats

Under Sleeper Pads

Rail Pads

Mass-Spring Systems

Elastic insertion pads for sleeper boots

Baseplate Pads

Known Challenges

Challenges that lead to train delays, maintenance cost and increased LCC
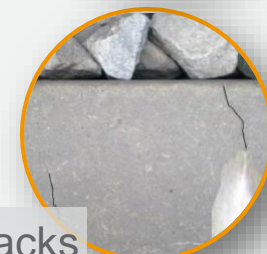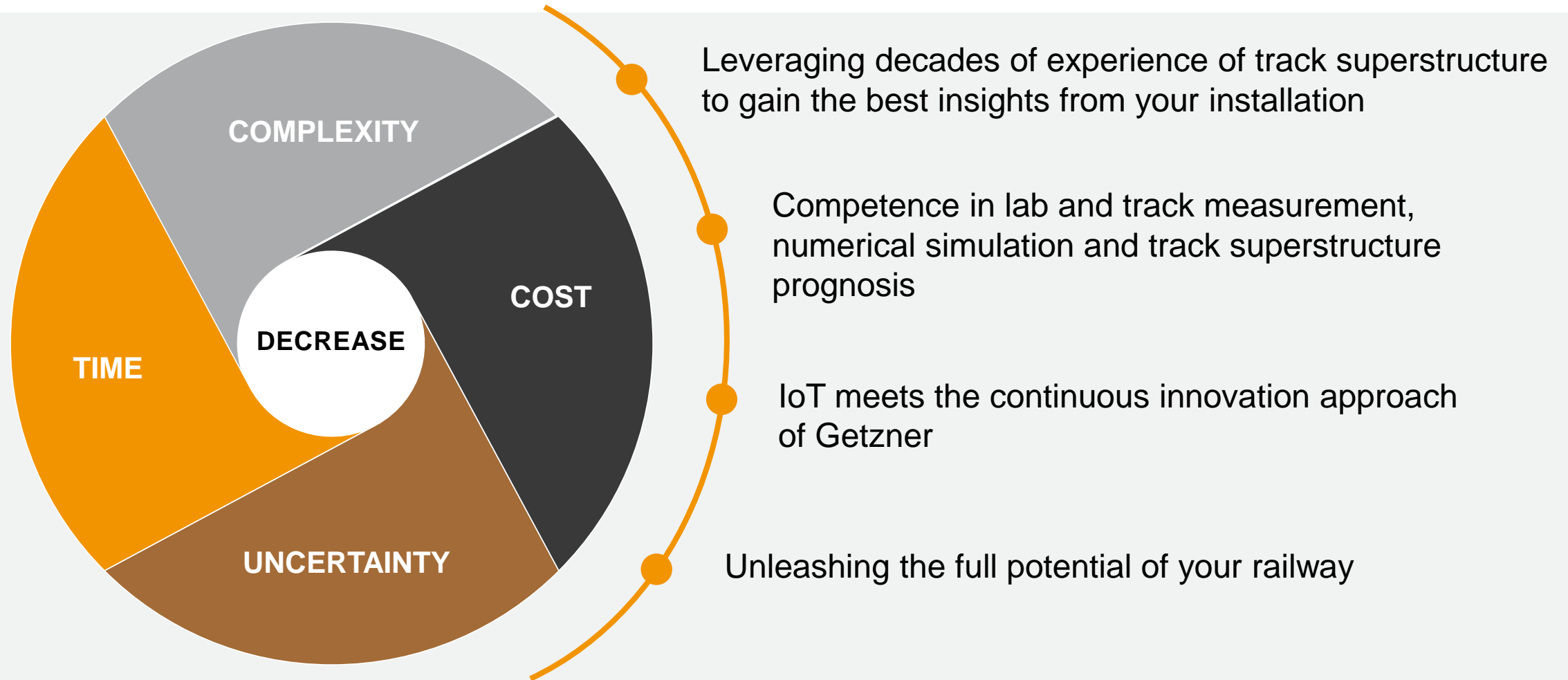

Corrugation

Wear

Hollow

Broken Clamp

Cracks

Deterioration

Benefit from Getzner's core competencies and market presence

COMPLEXITY

COST

TIME

DECREASE

UNCERTAINTY

Leveraging decades of experience of track superstructure to gain the best insights from your installation

Competence in lab and track measurement, numerical simulation and track superstructure prognosis

IoT meets the continuous innovation approach of Getzner

Unleashing the full potential of your railway

Getzner competence of the critical interface

- Ballast – sleeper interface

- Pressure map

- Ballast contact areas

- Load distribution

Make the interface visible and measurable

A sensor which observes the load distribution of the ballast-sleeper interface

Asset Management and LCC

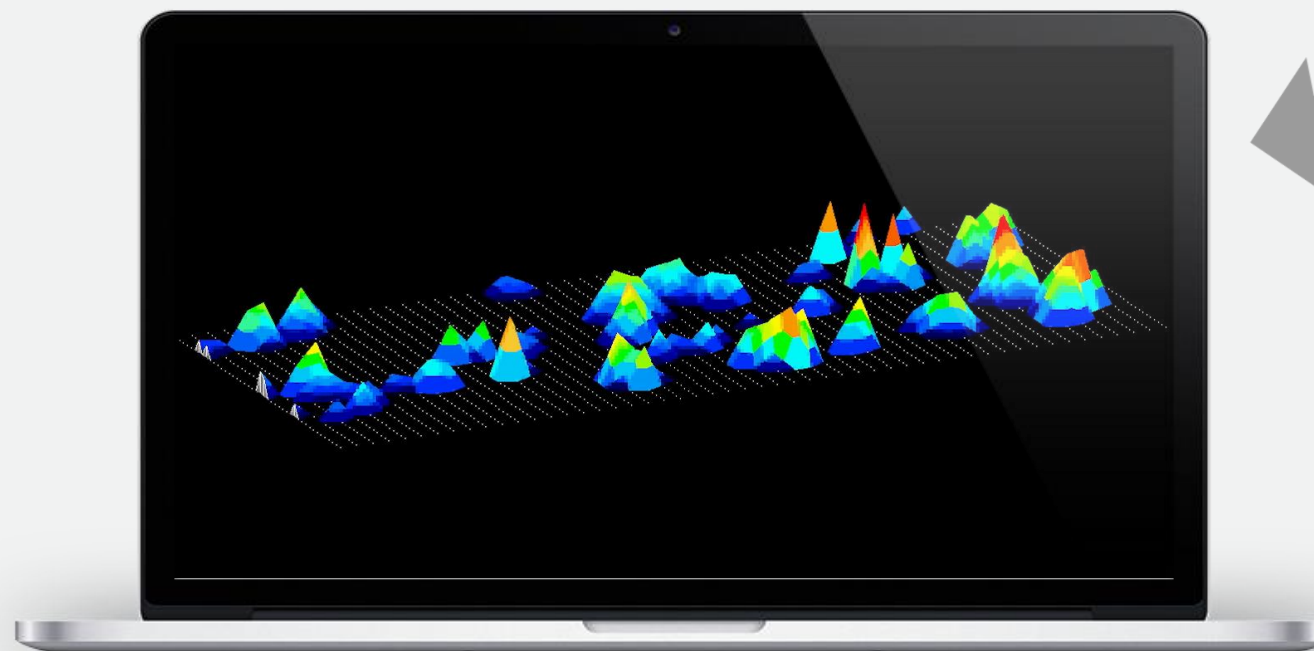Conditional based monitoring

See actual track quality

Monitoring of "hotspots"
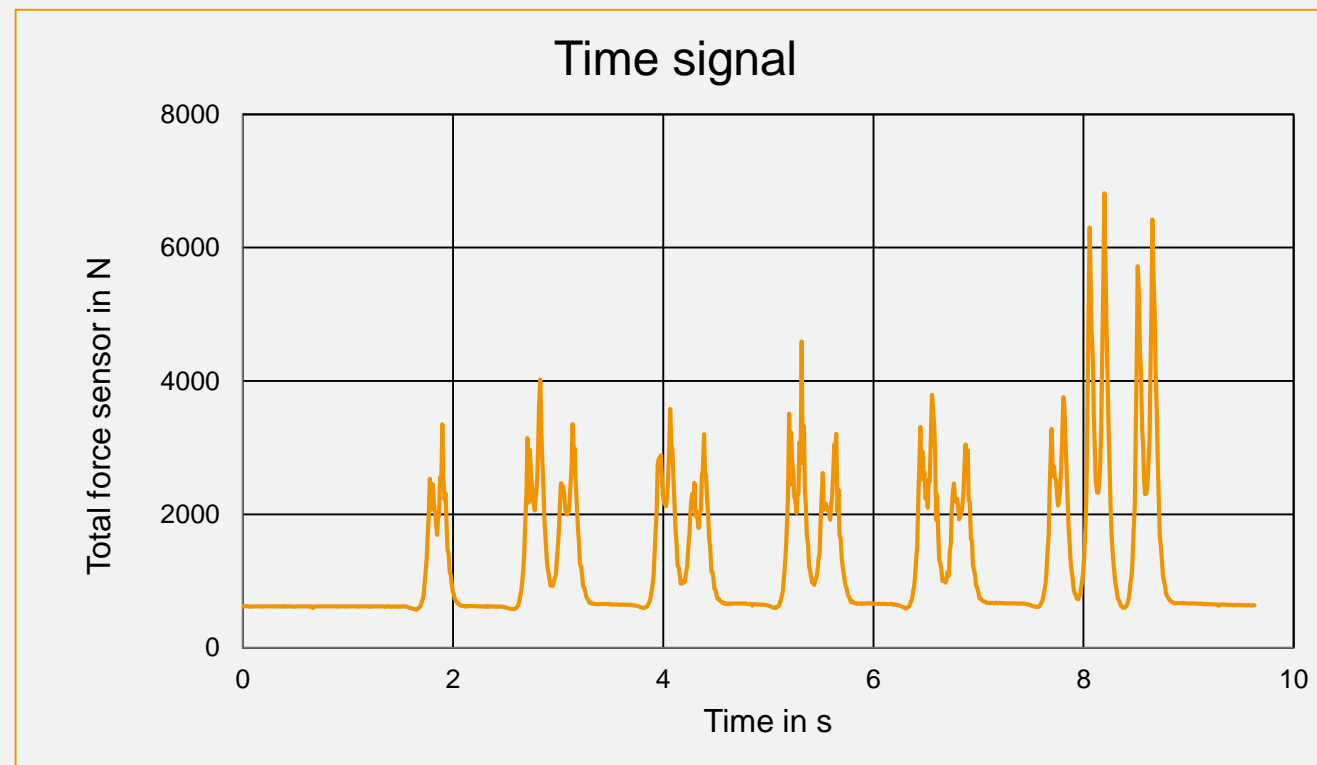- Transitions
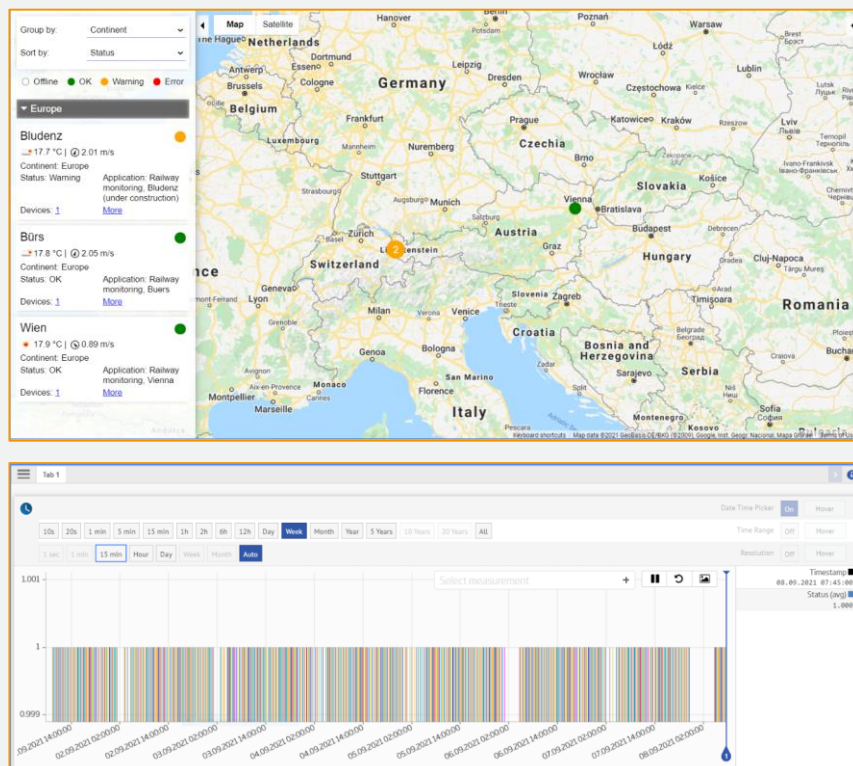- Turnout
- Narrow curves

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What it looks like

Click on the screen to watch the demo

Network View and remote access

Data generation

Sleeper underside
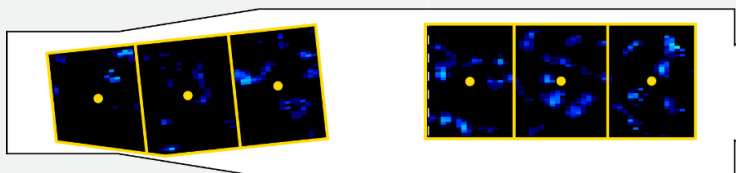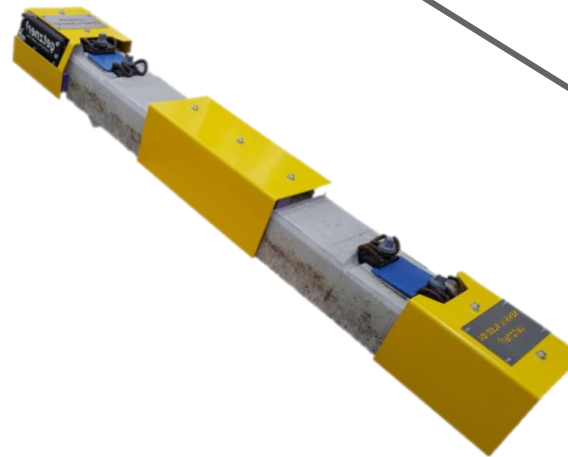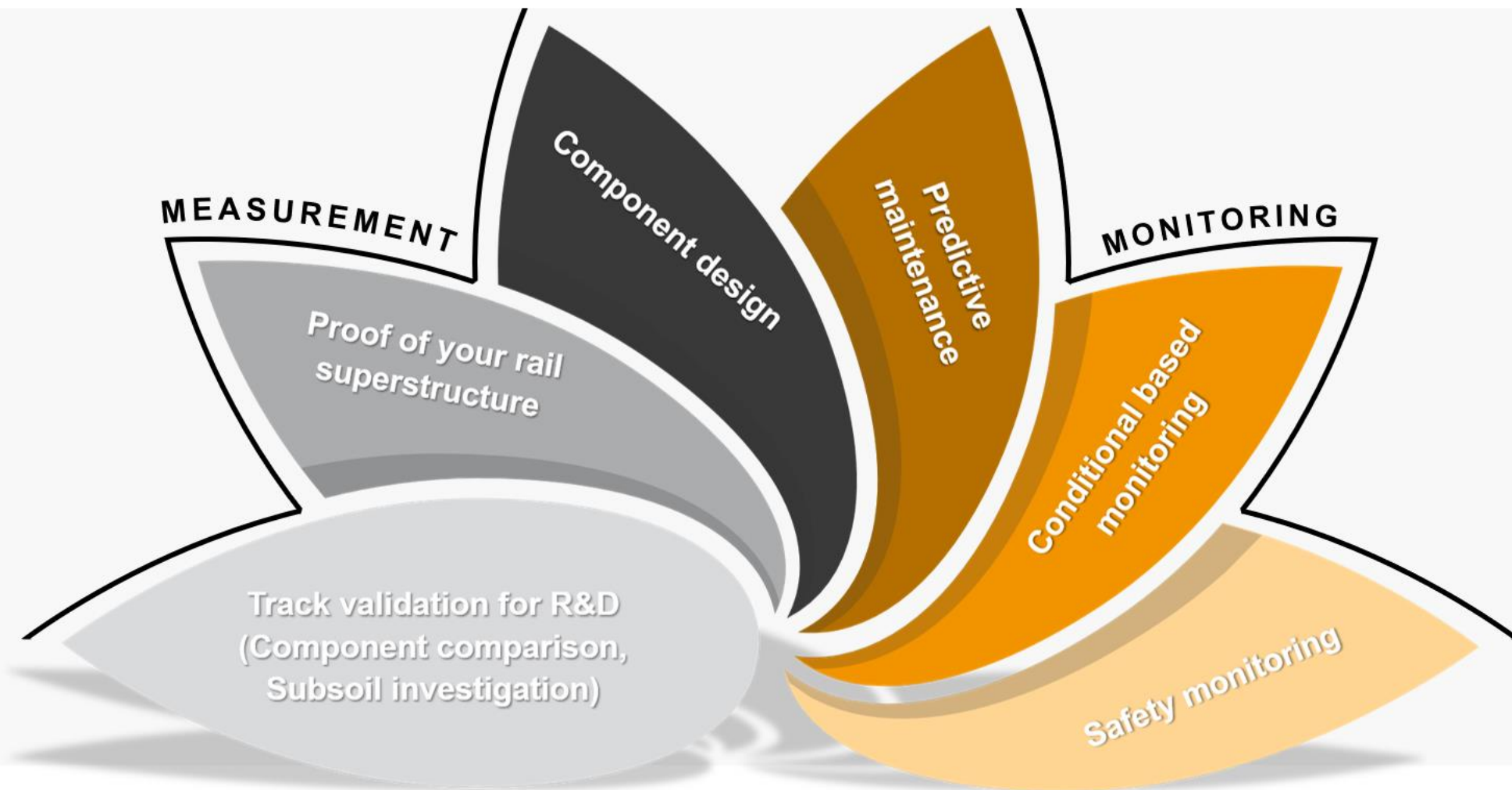
Data generation

Load distribution

Sleeper pressure in N/mm² vs Distance to the centre of the sleeper in mm
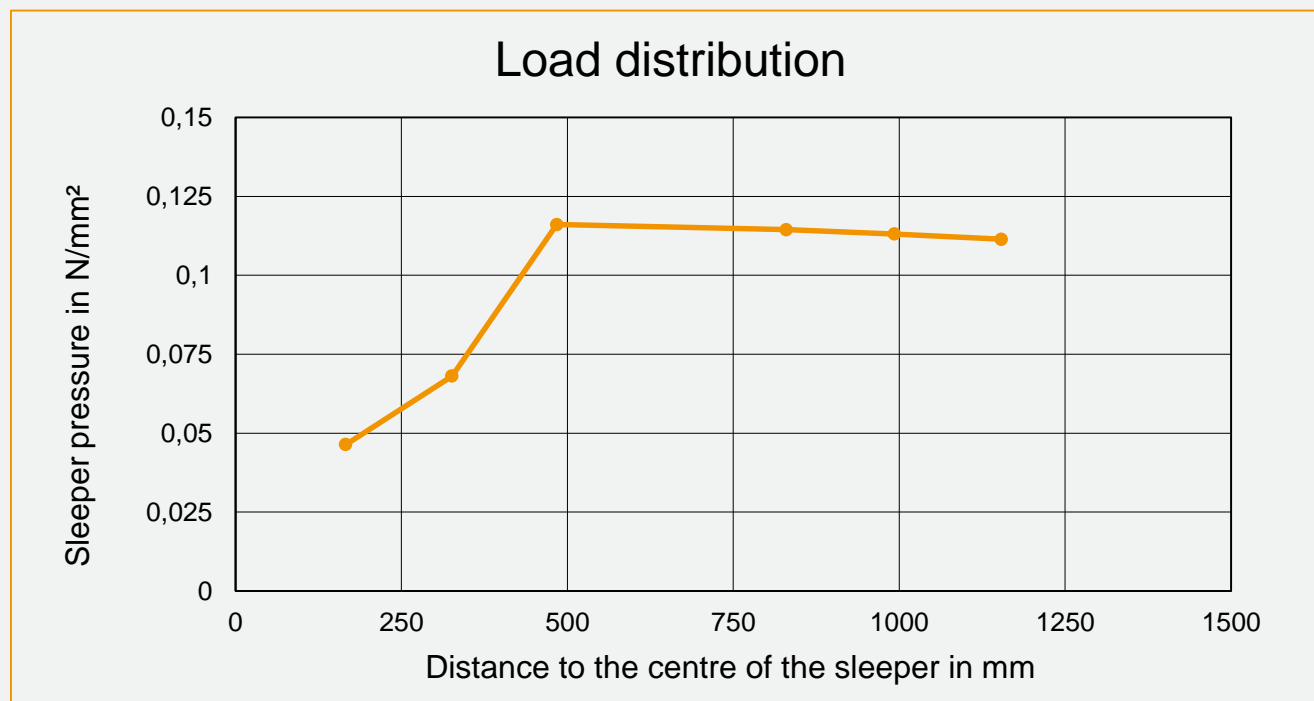
Deployment

Application areas

Thank you