



What if the structures could speak?

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Founder and CEO



Code-Compliant Infrastructure

VS

Performance-Driven Infrastructure

- We design Code – Compliant assets
- Codes: Theory with practical applications
- **Design** vs **Construction** vs **Operation**

The Biggest Blind Spot in Construction



We know exactly how much a structure **SHOULD** perform.

But do we know how it **ACTUALLY** performs?

The electric speedometer was invented by Croatian inventor Josip Belušić in **1888**. He originally called it a "velocimeter" and patented it in Vienna.





Construction = Assumptions

Today we design using

- Code and Regulation
- Design loads
- Material assumptions
- Safety factors
- Laboratory testing
- Periodic inspections

The result

- Overdesign
- Unnecessary materials
- Excessive carbon footprint
- Hidden risks
- Reactive maintenance



Design vs Construction

Theory vs Practice

How do we manage the risk un uncertainty?

Who is responsible?

Read the CONTRACT



CONSTRUCTION LOADS ARE THE LARGEST LOADS TO CONSIDER IN THE DESIGN

AND OFTEN THEY ARE NEGLECTED

CONSTRUCTION LOADS

- Fresh concrete weight
- Workers
- Equipment
- Materials / storage
- Temporary structures
- Formwork & shoring
- Construction sequence

WORKERS

≈ 1.0 – 1.5 kN
(per person)

FRESH CONCRETE

≈ 24 kN/m³

TOWER CRANE LOADS

MATERIALS & STORAGE

TEMPORARY STRUCTURES

EQUIPMENT

(e.g. concrete pump)
≈ 20 – 40 kN

FORMWORK & SHORING LOADS

CONSTRUCTION SEQUENCE



CONSTRUCTION LOADS CAN EXCEED SERVICE LOADS
AND MUST BE CAREFULLY CONSIDERED IN DESIGN AND PLANNING









The Cost of Not Knowing

Consequences

- delays
- claims
- disputes
- unnecessary inspections
- premature repairs
- asset failures
- excessive maintenance budgets

**Every infrastructure owner
pays for uncertainty.**



What If Structures Could Speak?

- Bridges reporting fatigue
- Tunnels reporting movement
- Wind turbine foundations reporting load distribution
- Metro structures reporting deformation
- Concrete reporting strength development

Not once per year.

Not once per month.

Every minute.



From Compliance to Performance

Old world

- Code-compliant structure

Future

- Performance-verified structure



Intelligent Infrastructure

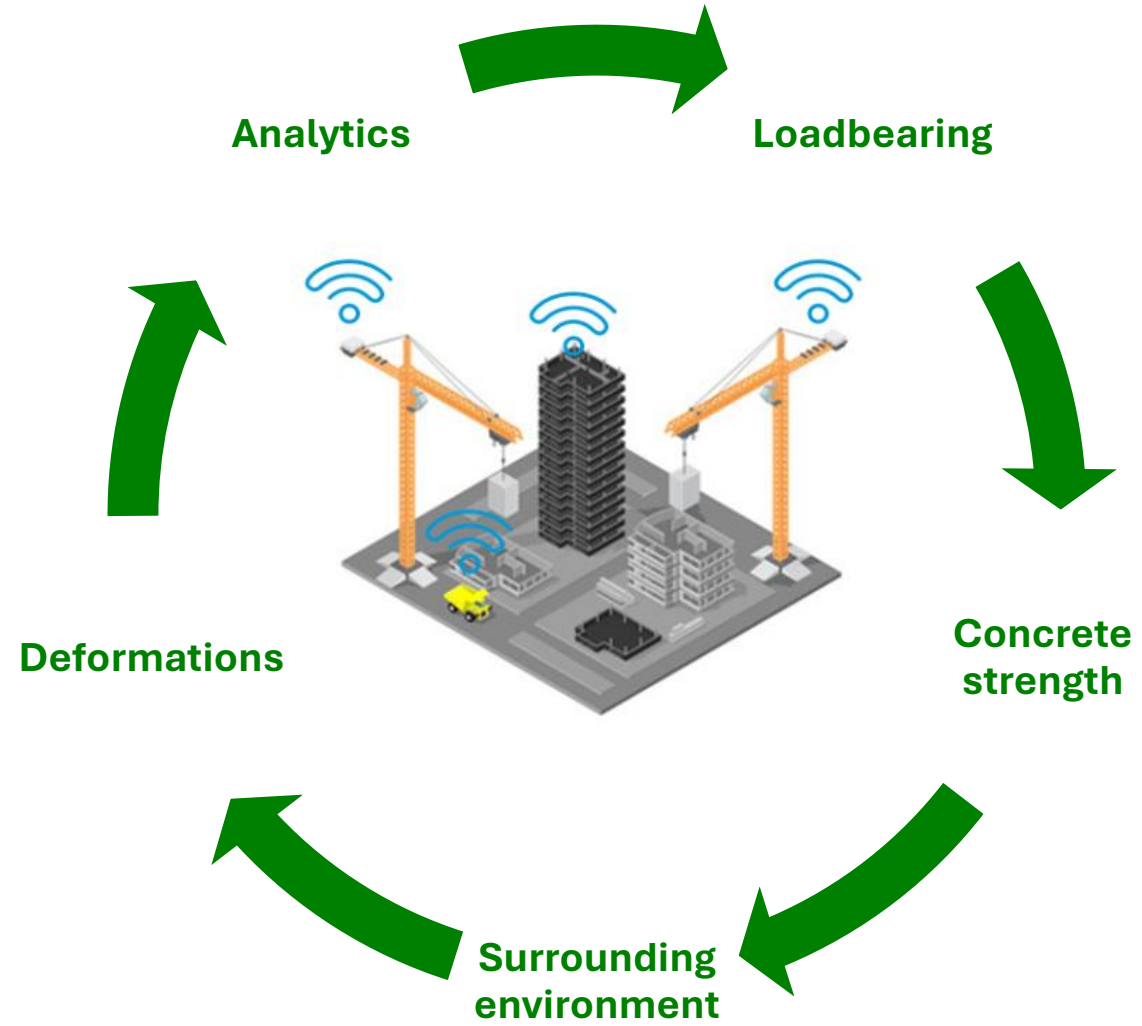


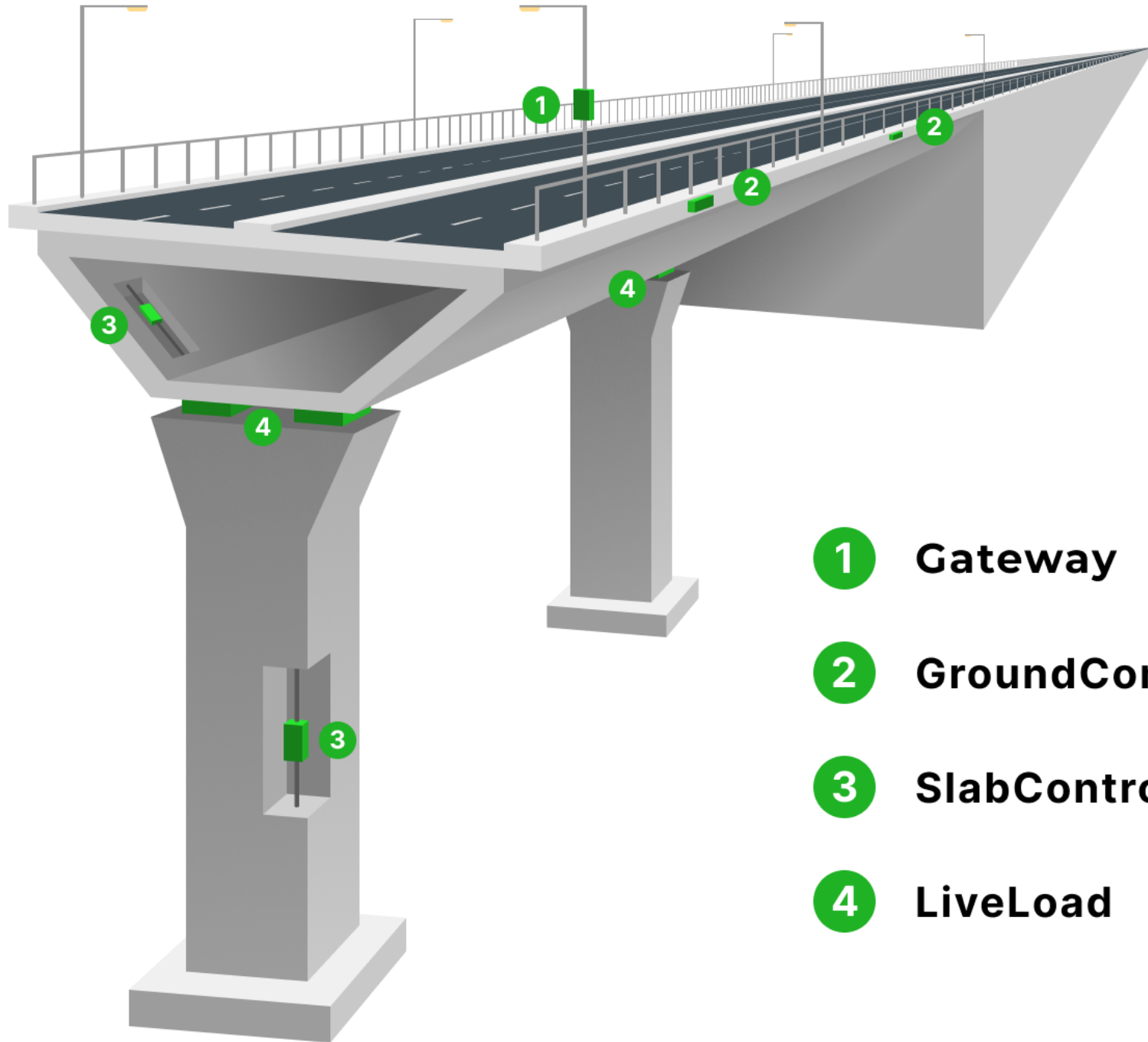
We transform concrete and infrastructure into self-reporting digital assets.





SERVICE

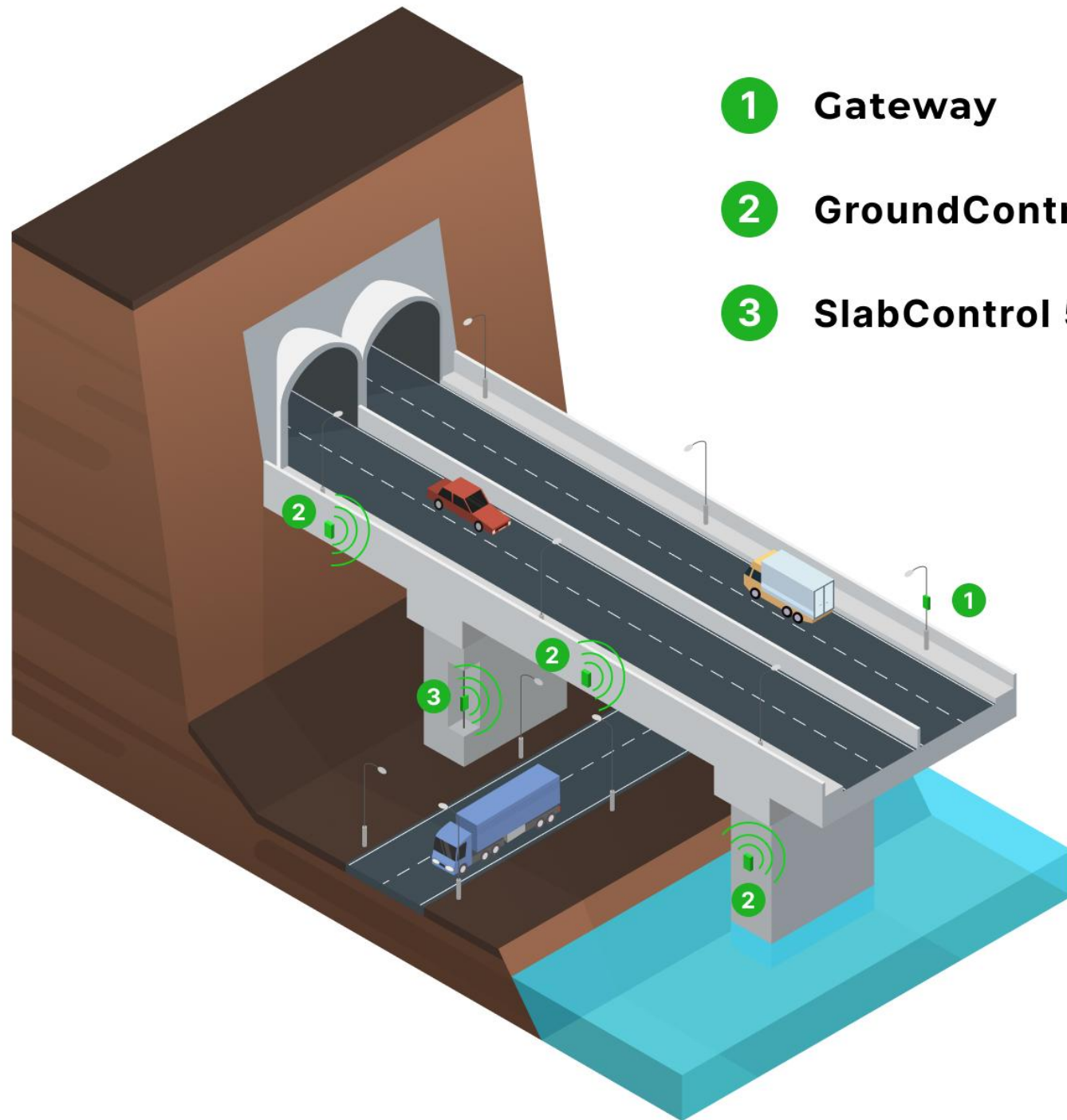


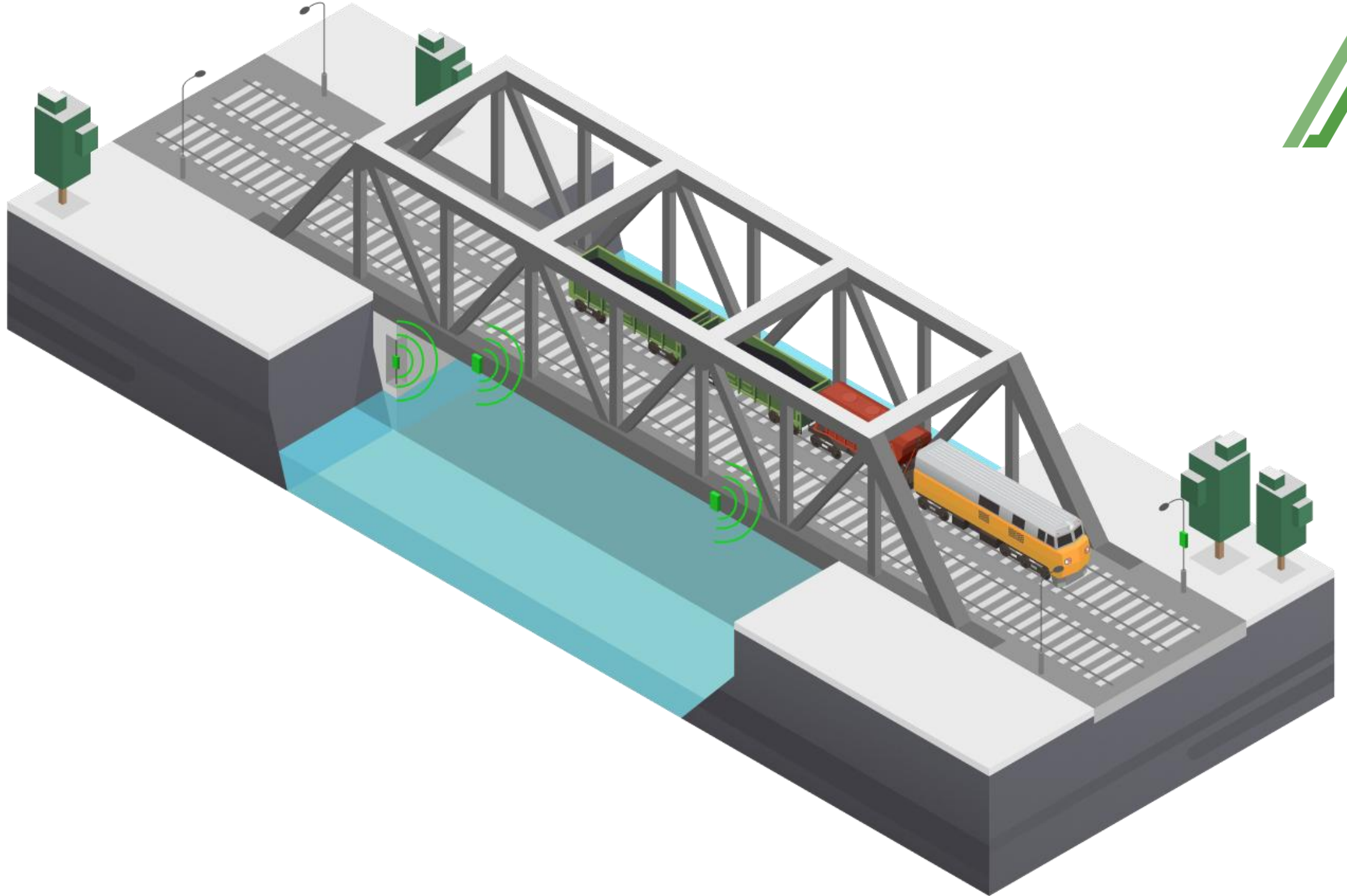


- 1 Gateway**
- 2 GroundControl**
- 3 SlabControl 5.0**
- 4 LiveLoad**

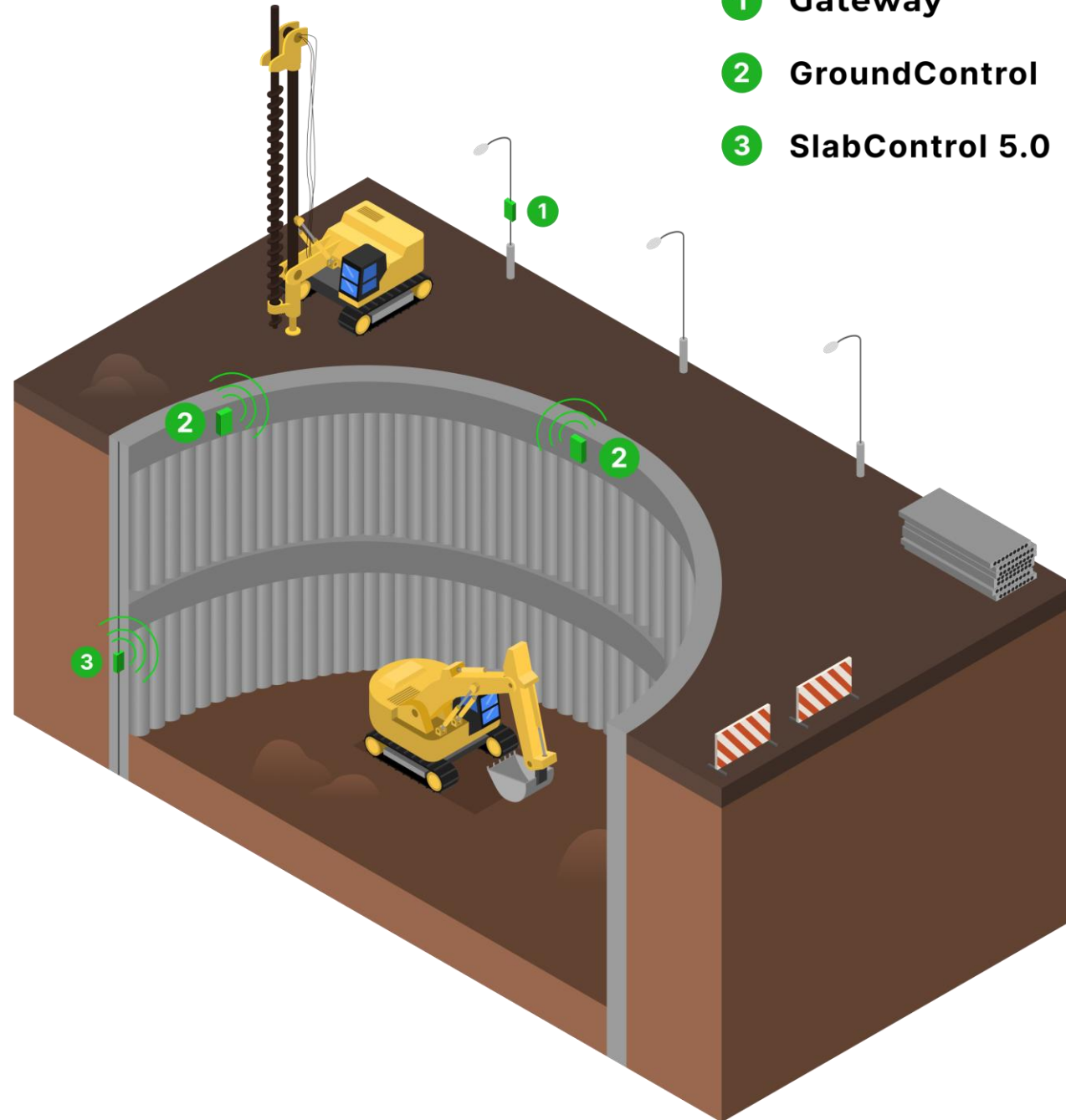


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SafePit System

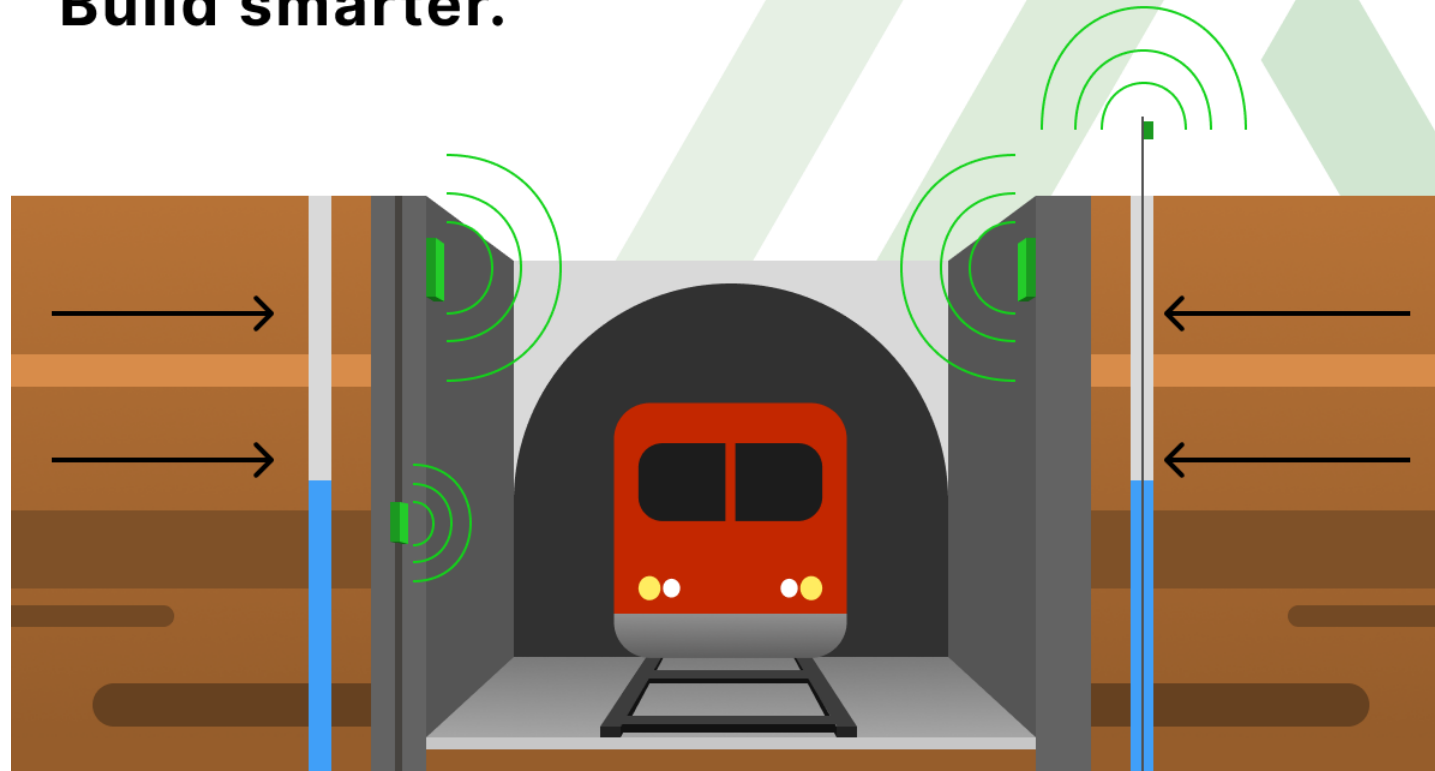
FlowSense

SlabControl 5.0

GroundControl

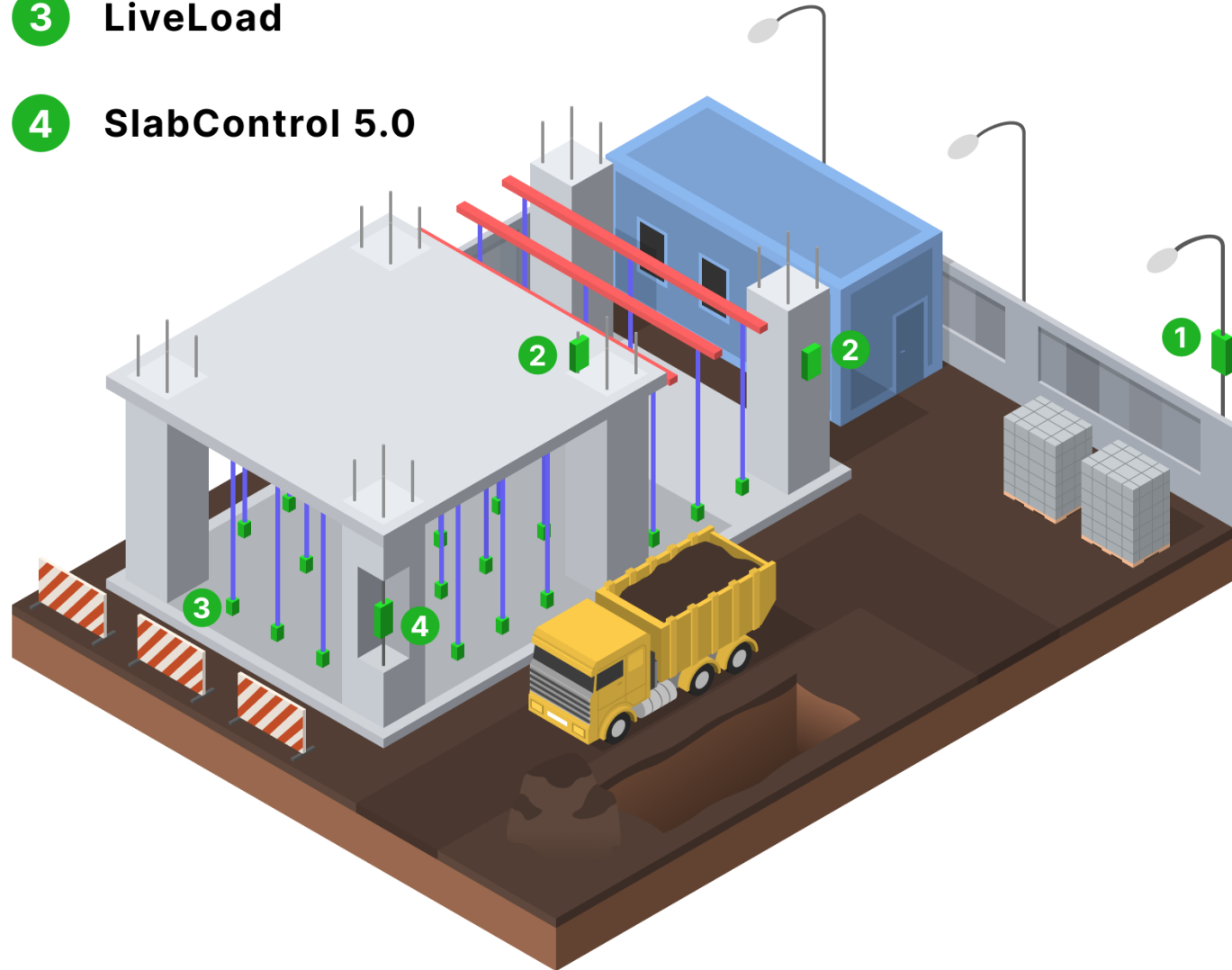
QuakeControl

**Build deeper.
Build safer.
Build smarter.**





- 1 Gateway
- 2 TempSense 3+
- 3 LiveLoad
- 4 SlabControl 5.0







Key takeaways

WHAT IS THE COST OF NOT TAKING THE ACTION?

- Risk, Overdesign, Assumptions = reality
- Difference between Theory and Practice
- Code Compliance + Structural Performance
- The GAP is real
- Its accessible and affordable

COME AND SIGN UP FOR A DEMO