

CORRODEC®2G

Concrete is more widely used than any other man-made material and has been a construction staple for centuries. And while concrete can be a very durable material, it is not immune to deterioration.

The only way to see past the concrete is to have 'eyes' in the concrete itself.

Concrete KNOW-HOW from the inside-out

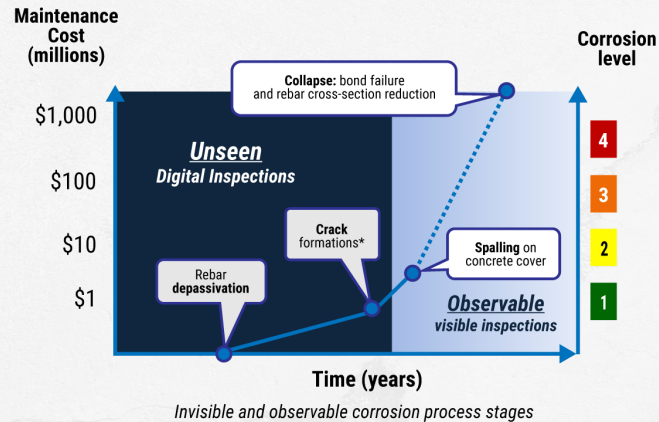


InfrastructureTek uses RFID technology, that once placed inside concrete next to the reinforcing steel, can assess its condition and transmit real-time readings for a lifetime of up to 80 years.

Our "hockey puck" size wireless sensors, which require no batteries or external wires, monitor the structure's internal health and unseen concrete structural problems before they become visible.

NB-IoT EARLY DAMAGE DETECTION

Concrete infrastructure must meet performance requirements such as strength, stability, and durability. Achieving these requirements will have a lasting effect on our mobility in the future.



However, external environmental influences such as moisture and chlorides can cause internal damage that cannot be detected from the outside of the structure at early stages.

The detection of corrosion inside the concrete structure, at an early stage, determines the costs for its maintenance and future repair.



REAL-TIME READINGS TO PREVENT FUTURE DAMAGE



SOLUTIONS

I-Tek specializes in remote structural monitoring via NB-IoT sensors offering a variety of monitoring solutions:

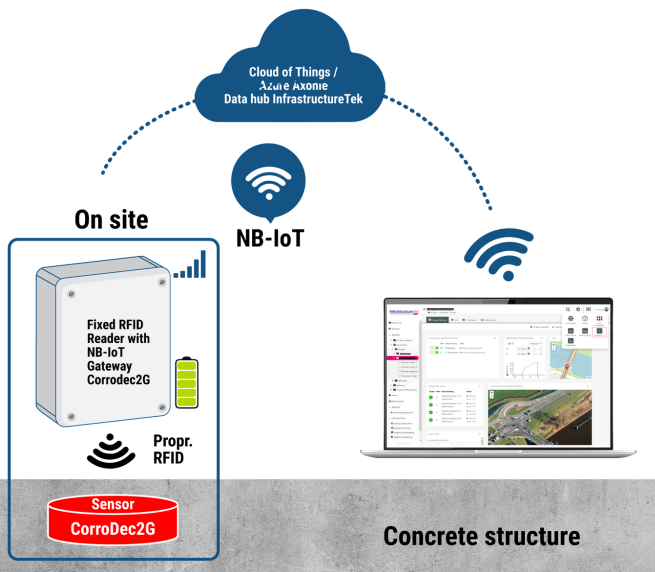
- Humidity Sensors
- Corrosion Sensors

CORRODEC®2G Sensors:

- Increased Sustainability & Durability
- Allows Effective Lifecycle Monitoring
- Affordable 24/7 Monitoring and Data Transfer
- Reduced Repair & Maintenance Costs
- Predictive Maintenance
- Reduced Physical Inspections Costs - remote monitoring
- Increased Safety
- 24/7 Monitoring using NB-IoT - enables remote monitoring.

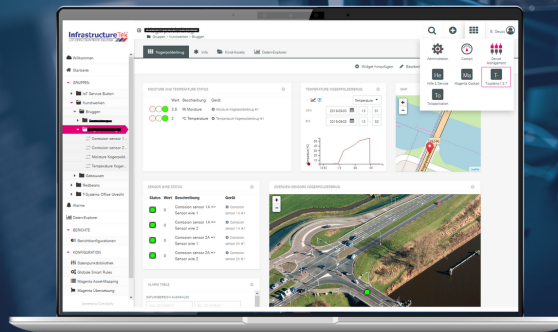
OUR TECHNOLOGY

Once the corrosion begins, it will spread when left untreated jeopardizing the safety of the structure and its tenants.



Our wireless sensors are passive and require no direct energy. It is power induced from the outside via a gateway or a handheld reader. Once the sensors are fully embedded within the concrete, it automatically transmits via our "Universal Monitoring System" to our Data Hub.

- Simple operation & evaluation
- Wireless & Powerless
- Remotely accessible
- Control over maintenance and repair costs
- Can be used in new and existing structures
- Online monitoring via a proprietary gateway using cost-efficient NB-IoT technology.



PLATFORM / VISUALIZATION

24/7 Web-based visualization of measured data with alarm capabilities

WHO WE ARE

InfrastructureTek (I-Tek) is a US-based trusted technology partner that provides structural health monitoring technologies and services for the built environment.

Our RFID technology includes innovative wireless corrosion, and humidity sensor solutions for preventive and sustainable online monitoring of structures with real-time readings for the lifetime of the structure.

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**WE STRONGLY BELIEVE IN
DEVELOPING TECHNOLOGIES FOR
SUSTAINABILITY AND RESILIENCE
FOR THE BUILT ENVIRONMENT.**

InfrastructureTek
CONSTRUCTION TECHNOLOGIES

**Monitoring Solutions for
Concrete Structures**

WWW.INFRASTRUCTURETEK.COM