

REAL-TIME INTELLIGENCE FOR CRITICAL INFRASTRUCTURE

IRMOS LiveOS turns raw sensor data into **easy-to-read structural condition and traffic loads**, enabling data-powered predictive maintenance.

PROBLEM

Half the world's bridges have outlived their design life and degrade faster than they can be repaired. Maintenance still relies on periodic visual inspections, which are subjective, slow and often inconclusive.

SOLUTION

IRMOS LiveOS measures real traffic loads and structural response continuously and turns them into condition scores, anomaly alerts and remaining useful life: a live, ranked portfolio, so budget goes to the assets that need it.

www.irmos-cloud.com/platform

IRMOS

LIVE OS

WHAT LIVEOS DOES

Is the bridge safe today?

Continuous structural condition monitoring across your entire portfolio. Every asset is scored 24/7, so you instantly know where to prioritize.

Is heavy traffic growing?

The bridge becomes a weighing scale. Track real-world axle loads, vehicle classes and cumulative tonnage without lane closures.

What is the true remaining life?

Stop relying on simulations only. We calculate accumulated fatigue and track damage propagation from real measured traffic to predict reliable lifespans.

NO DATA YET?

- IRMOS Sensory Kit: Acceleration, inclination, displacement, strain and temperature in one device.
- Full coverage takes fewer devices and non-invasive installation.
- End-to-end: sensors, installation, maintenance and dashboard from one vendor.

ALREADY INSTRUMENTED?

- Fully compatible with existing measuring systems: LiveOS ingests the sensors and data you already have.

TRUSTED BY



Schweizerische Eidgenossenschaft
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