

Data driven asset management of Highways and Bridges

Innovative solutions for sustainable infrastructure management



Highway Infra



Bridge Infra



Goals



More data driven
decisions



Lifetime extension of
highways and bridges



Structural health monitoring
to ensure safe operations

1 Sensors and data



Innovative Fiber Optics
sensors in asphalt



Innovative RFID
sensors in asphalt



Bridge
Weigh In Motion



Asphalt layer
temperature profiles



Easy Weigh In Motion
Geophones

2 Modelling and prioritisation



Bridge portfolio
prioritization model



Lifetime prediction based on
bearing capacity



Lifetime prediction based on
surface characteristics

3 Smart decisions and dashboards



Multi-year planning dashboard
for highway and bridge portfolios



calendar



predictive
maintenance



prioritisation