

# Hollandse Brug's 146-Sensor Network — Rijkswaterstaat's Real-Time Bridge Monitoring for Predictive Maintenance

AI in the Public Sector · Good practice · Netherlands

Quality score: 60/100

Evidence strength: Descriptive / self-reported

### Summary

Rijkswaterstaat instrumented the Hollandse Brug motorway bridge with 146 strain, vibration and temperature sensors during its 2016 reinforcement, turning it into a live weigh-in-motion network used to calculate remaining service life and plan maintenance more precisely.

### Key dimensions

| Dimension                                  | Score |
|--------------------------------------------|-------|
| Evidence of impact / measured public value | 1/3   |
| Transparency, fairness & accountability    | 2/3   |
| Transferability / demonstrated replication | 2/3   |
| Scalability beyond pilot                   | 2/3   |
| Governance, capability & sustainability    | 2/3   |

Evaluated by C-NAPSE

### Data sources

[C-NAPSE web research](#) — accessed 2026-08-13

[Rijkswaterstaat \(Dutch Ministry of Infrastructure and Water Management\)](#) — accessed 2026-08-13

[Railtechniek: Hollandse Brug A6 monitoring system](#) — accessed 2026-08-13

[SAS customer story: Managing Dutch roads and waterways with intelligence](#) — accessed 2026-08-13

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