

X-Road Analyzer — Estonia's Open-Source Anomaly Detection for Government Data-Exchange Integrity

AI in the Public Sector · Good practice · Estonia

Quality score: 73/100

Evidence strength: Descriptive / self-reported

Summary

An open-source Analyzer module, built by STACC for Estonia's Information System Authority (RIA), applies adaptive statistical models to X-Road's data-exchange logs to flag misuse and anomalies across 900+ member organisations exchanging over 40 million queries a month.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-08-29

[Estonian Information System Authority \(RIA\), built by STACC](#) — accessed 2026-08-29

[X-Road Analyzer documentation \(RIA GitHub\)](#) — accessed 2026-08-29

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