DFROG — De Nederlandsche Bank's Machine-Learning-Tested Nowcasting Model for GDP Growth

AI in the Public Sector · Good practice · Netherlands

Quality score: 87/100

Evidence strength: Quasi-experimental

Summary

DNB's DFROG nowcasting model has tracked Dutch GDP growth in real time since 2024, publishing monthly estimates; a decade-long evaluation found it beat professional Consensus Economics forecasters' backcasts by a 46% RMSFE margin and a standard dynamic-factor benchmark by up to 1

Key dimensions

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

Evaluated by C-NAPSE

Data sources

C-NAPSE web research — accessed 2026-07-19

De Nederlandsche Bank (DNB) — accessed 2026-07-19

DNB Working Paper 819: DFROG — A nowcasting model for GDP growth — accessed 2026-07-19

DNB Working Paper 754: Nowcasting GDP using machine learning methods — accessed 2026-07-19

Financial Investigator: DNB new model to forecast short-term economic growth — accessed 2026-07-19

DNB: DFROG nowcasting model (live page) — accessed 2026-07-19

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