

PolicyEngine — UK open-source tax-benefit microsimulation for policy analysis

AI in the Public Sector · Good practice · United Kingdom

Quality score: 67/100

Evidence strength: Descriptive / self-reported

Summary

PolicyEngine's open-source model simulates UK income tax, NI, Universal Credit and 50+ provisions. Since summer 2025 the No. 10 data team (10DS) uses '10ds-microsim' for experimental policy costing. HMT logs it on the gov.uk Algorithmic Transparency Record.

Key dimensions

Dimension	Score
Evidence of impact / measured public value	1/3
Transparency, fairness & accountability	3/3
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 2026-06-25

[PolicyEngine \(nonprofit\) / HM Treasury](#) — accessed 2026-06-25

[HMT Algorithmic Transparency Record \(gov.uk\)](#) — accessed 2026-06-25

[PolicyEngine at 10 Downing Street](#) — accessed 2026-06-25

[PolicyEngine UK GitHub repository](#) — accessed 2026-06-25

[Nuffield Foundation grant confirmation](#) — accessed 2026-06-25

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