

Virtual Singapore — National 3D Digital Twin for Urban Planning

City Innovation Library · Good practice · Singapore

Quality score: 57/100

Evidence strength: Descriptive / self-reported

Summary

Singapore's national 3D digital twin, built with Dassault Systèmes from 2014–2022 using 50+ terabytes of geospatial data, lets planners simulate flood risk, AV routes and solar potential — though most cited benefits remain simulated, not independently measured.

Key dimensions

Dimension	Score
Evidence of impact / measured results	1/3
Transferability / demonstrated replication	1/3
Scalability	2/3
Sustainability / continuity	2/3
Innovation	3/3
Inclusiveness / equity	1/3
Multi-stakeholder collaboration	2/3

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-22

[Singapore Land Authority / National Research Foundation / GovTech](#) — accessed 2026-09-22

[OECD Observatory of Public Sector Innovation](#) — accessed 2026-09-22

[Wikipedia — Virtual Singapore](#) — accessed 2026-09-22

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