

S-DoT — Seoul's Citywide IoT Micro-Climate Sensor Network

City Innovation Library · Good practice · South Korea

Quality score: 57/100

Evidence strength: Observational / pre–post

Summary

Seoul deployed S-DoT, a network of 1,100 IoT sensors measuring 17 variables every 2 minutes since 2019; a 2020-21 analysis found downtown areas 2.3°C warmer than mountain zones, prompting heat-safety guidance, with data opened to citizens via Smart Seoul Map from August 2021.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-08-15

[Seoul Metropolitan Government](#) — accessed 2026-08-15

[Seoul Metropolitan Government — Analysis of City Data 'S-DoT' Collected by 1,100 Sensors in Seoul](#) — accessed 2026-08-15

[MDPI Sensors — Quality Management System for an IoT Meteorological Sensor Network: Application to S-DoT](#) — accessed 2026-08-15

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