

Sensor.Community — Stuttgart's €30 DIY Kit That Grew Into the World's Largest Citizen Air-Quality Network

City Innovation Library · Good practice · Germany

Quality score: 71/100

Evidence strength: Strong

Summary

Since 2015, OK Lab Stuttgart's open-source, ~€30 particulate-matter sensor kit has been rebuilt by volunteers into tens of thousands of live stations across dozens of countries — though independent lab tests find its accuracy solid for PM2.5 but weaker for coarser PM10 particles.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-08

[OK Lab Stuttgart / Open Knowledge Foundation Germany](#) — accessed 2026-09-08

[Sensor.Community](#) — accessed 2026-09-08

[Ensia / U Minnesota — DIY pollution sensors feature](#) — accessed 2026-09-08

[AQICN network aggregator — live station count](#) — accessed 2026-09-08

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