

Sentilo — Barcelona Province's Open-Source Sensor Platform Scaling to 300+ Municipalities

City Innovation Library · Good practice · Spain

Quality score: 76/100

Evidence strength: Descriptive / self-reported

Summary

Barcelona's open-source Sentilo sensor platform, launched in 2012, now underpins the Diputació de Barcelona's 'Smart Region' — over 300 municipalities sharing 10,350+ sensors for air quality, noise, mobility and water, after a 6-town pilot proved the shared-infrastructure model.

Key dimensions

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

Evaluated by C-NAPSE

Data sources

[C-NAPSE web research](#) — accessed 2026-09-11

[Diputació de Barcelona / Barcelona City Council \(Institut Municipal d'Informàtica\)](#) — accessed 2026-09-11

[Sentilo.io — Smart Region of Barcelona Reaches Over 300 Municipalities](#) — accessed 2026-09-11

[Sentilo.io — Barcelona Region Sentilo Platform Reaches 10,350 Sensors](#) — accessed 2026-09-11

[Diputació de Barcelona — press release](#) — accessed 2026-09-11

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