

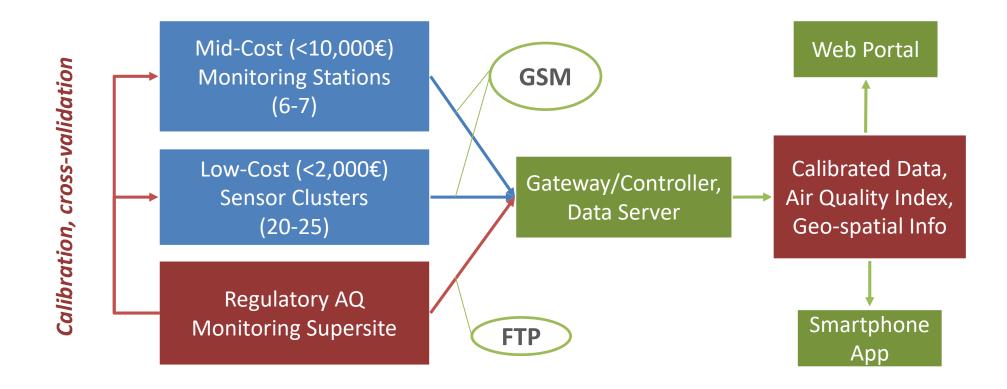
Evangelos Gerasopoulos (PI), National Observatory of Athens (NOA), Greece

INTEGRATED AQ MONITORING NETWORK (LOW-COST/MID-COST/SUPERSITE)





Creating an AQ monitoring network in Athens













Targeted Pollutants

Mid-Cost: PM_{2.5}, PM₁₀, O₃, NO₂, CO, *BC*

Low-Cost: PM_{2.5}, PM₁₀, O₃, NO₂

Methods

Gases: Electrochemical

PM: Optical

BC: Light-Absorption (micro-aethalometer)

QA/QC

Field Calibration: Supersite and mobile

monitoring unit

Issues for consideration

- Optimal site selection
- Sensor accuracy/precision
 - Cross-sensitivity of gases
 - Effects of RH, T
 - Calibration methodology
- Reporting interval/frequency
- Sensor lifetimes/Upkeep costs
- Air Quality Index

Status

-Selection of sensors/sensor boards/communication modules - Network configuration

-First tests planned for early 2018 - Network becomes operational by end 2018











Implementation





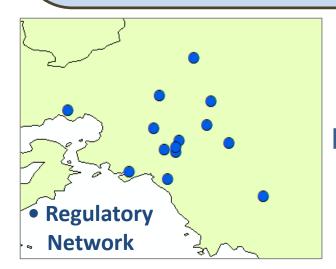




- Co-funding of the mid/low cost networks
- and the integrated IoT platform



Additional Support: Regional Authority of Attica



Densification

Increased Representation

