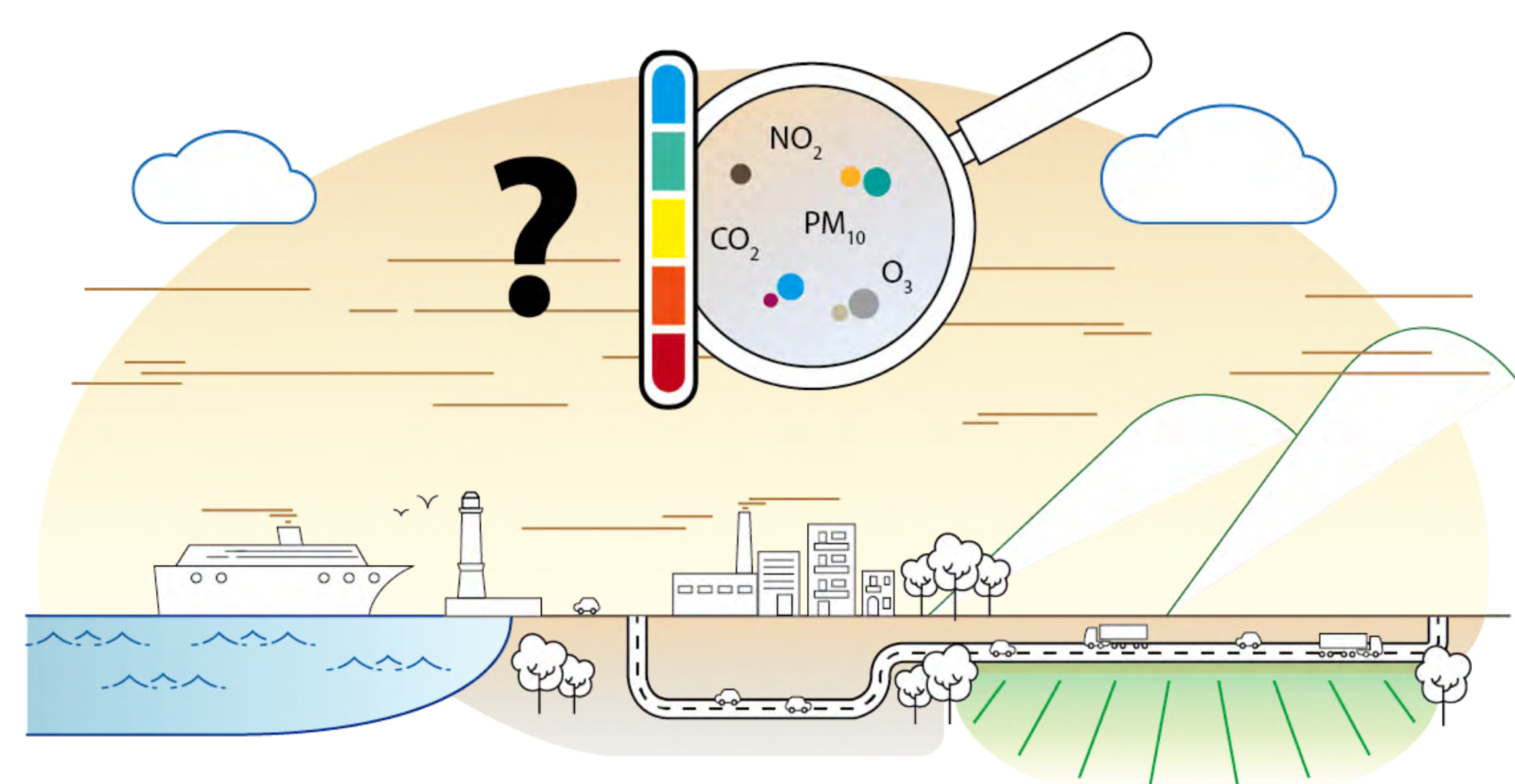


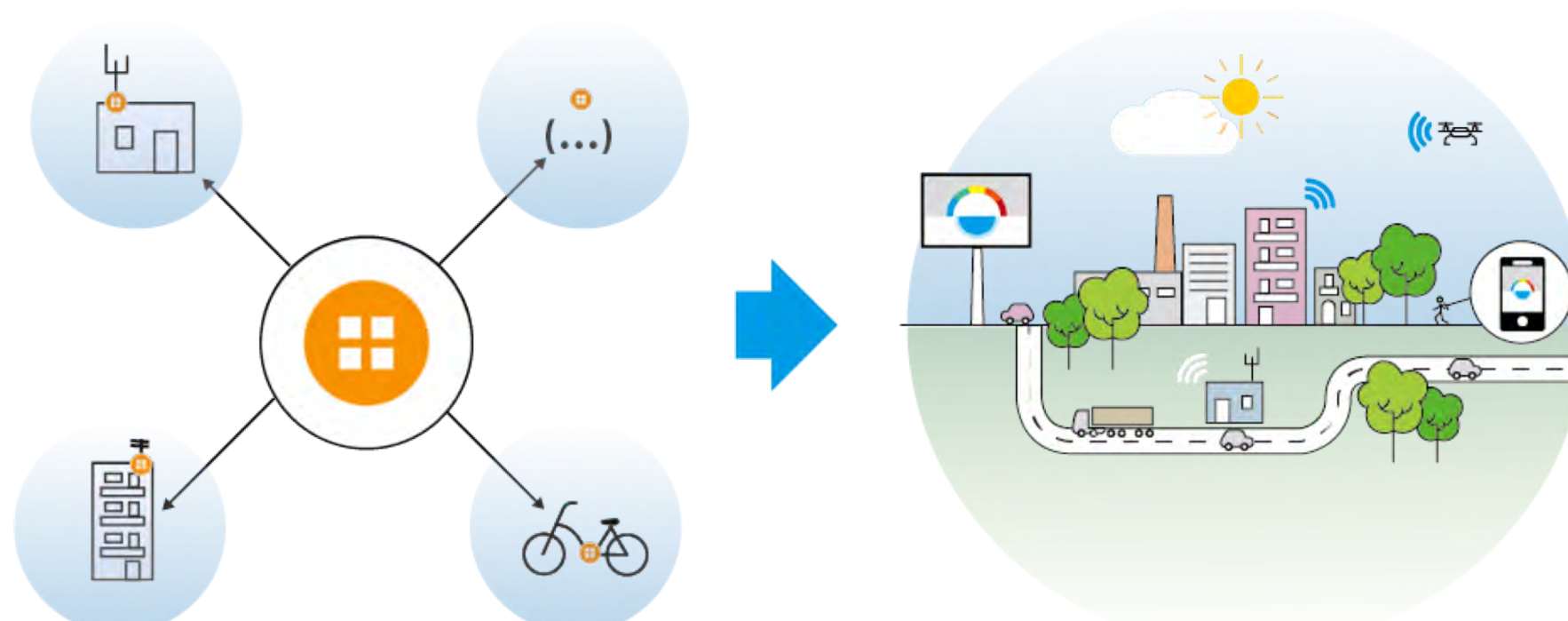
NanoSen-AQM: Development and field validation on an electronic system based on low cost, low consumption nanosensors for real-time air quality monitoring



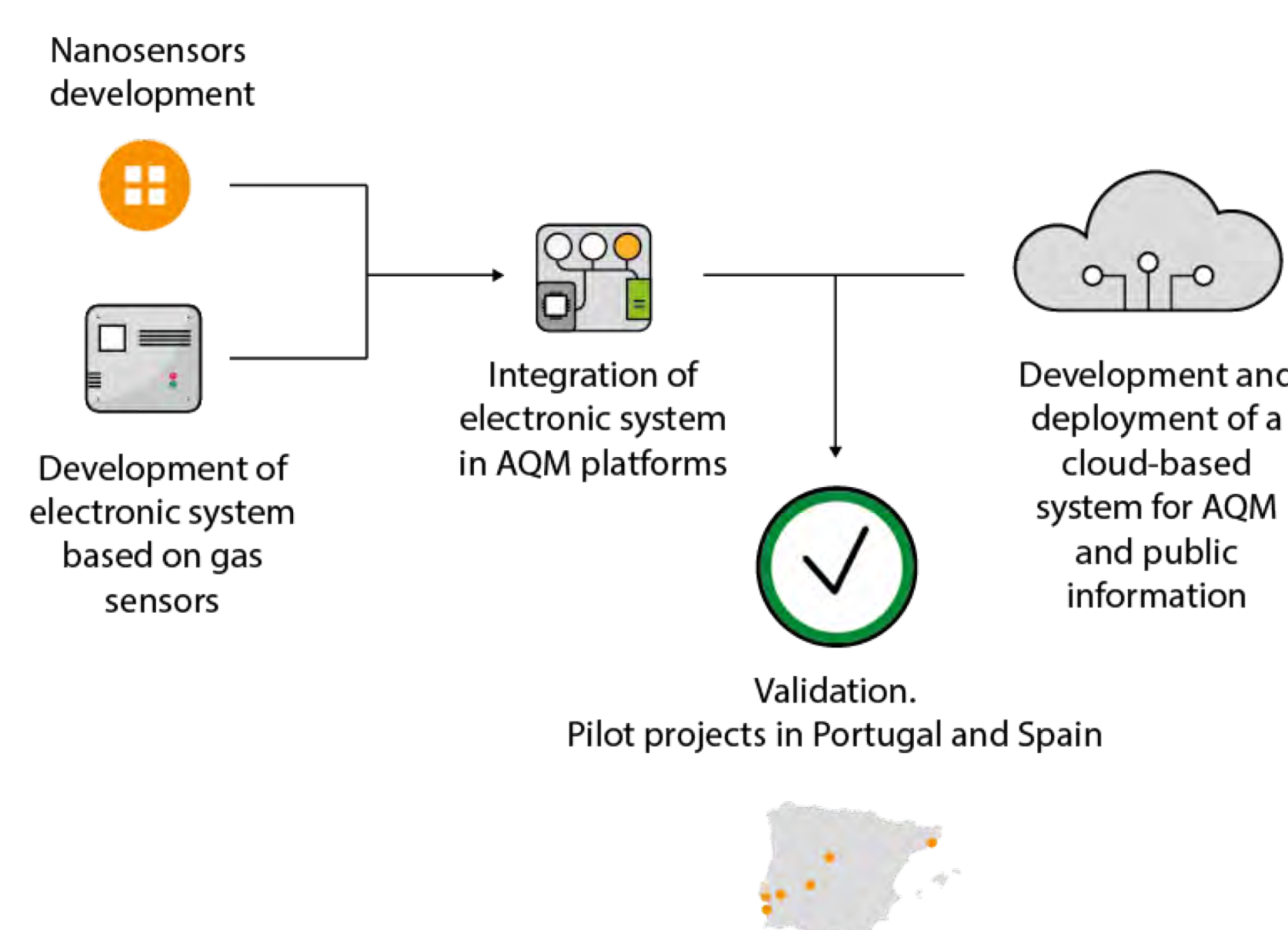
THE PROBLEM:



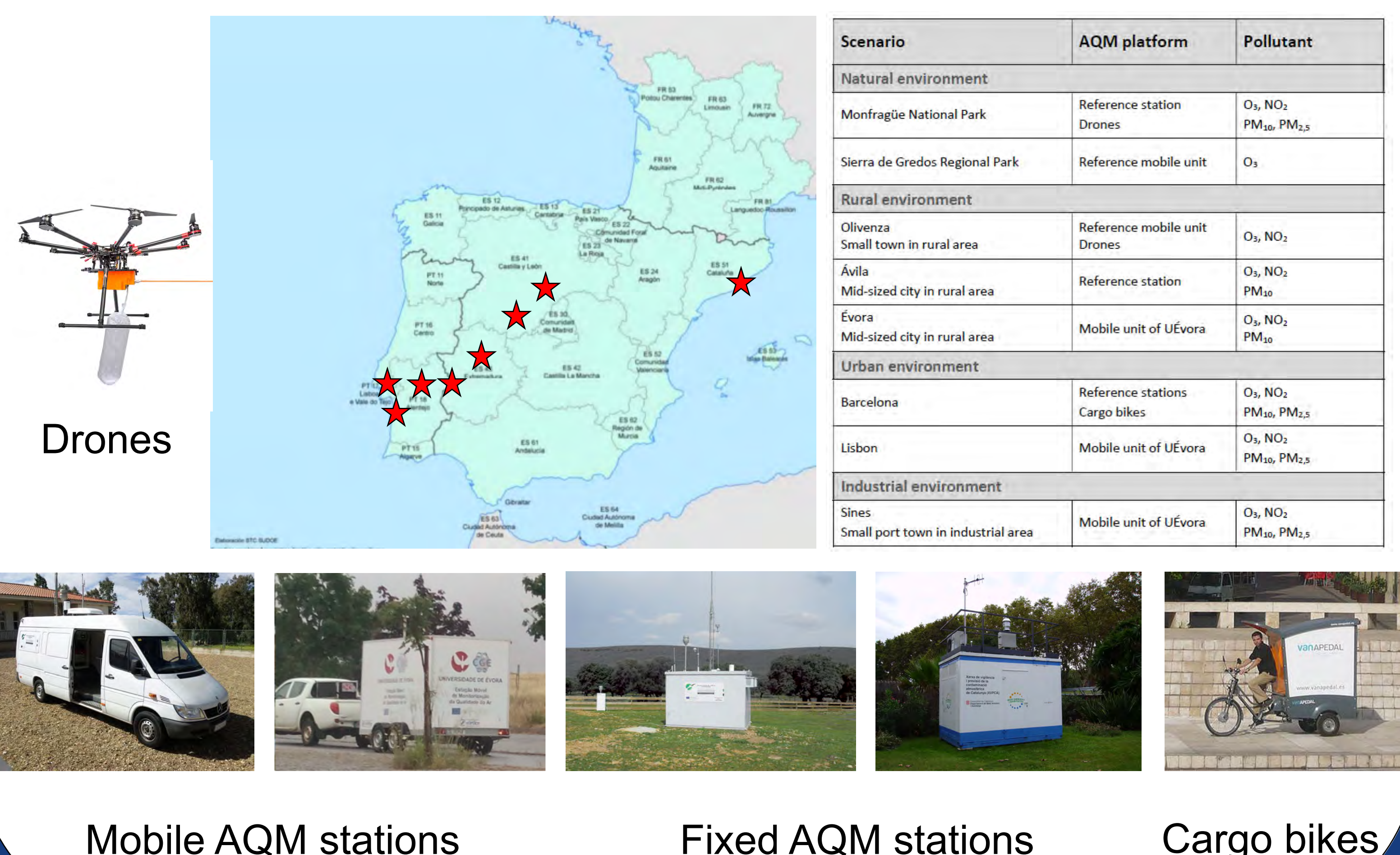
THE SOLUTION:



THE PROJECT:



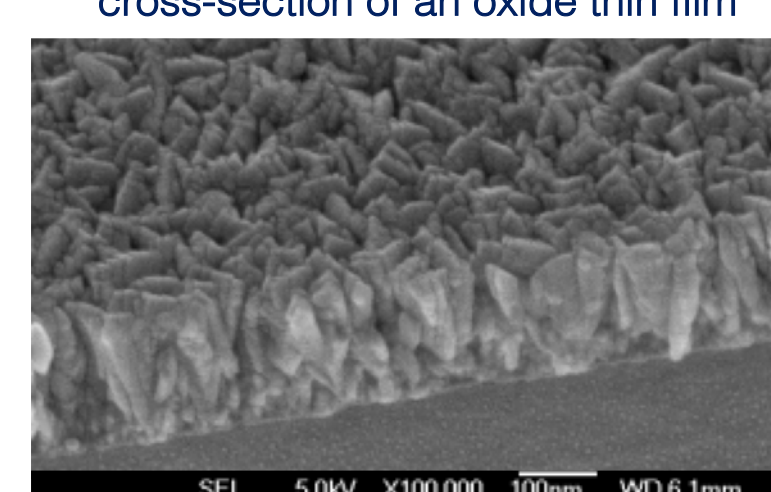
SCENARIOS:



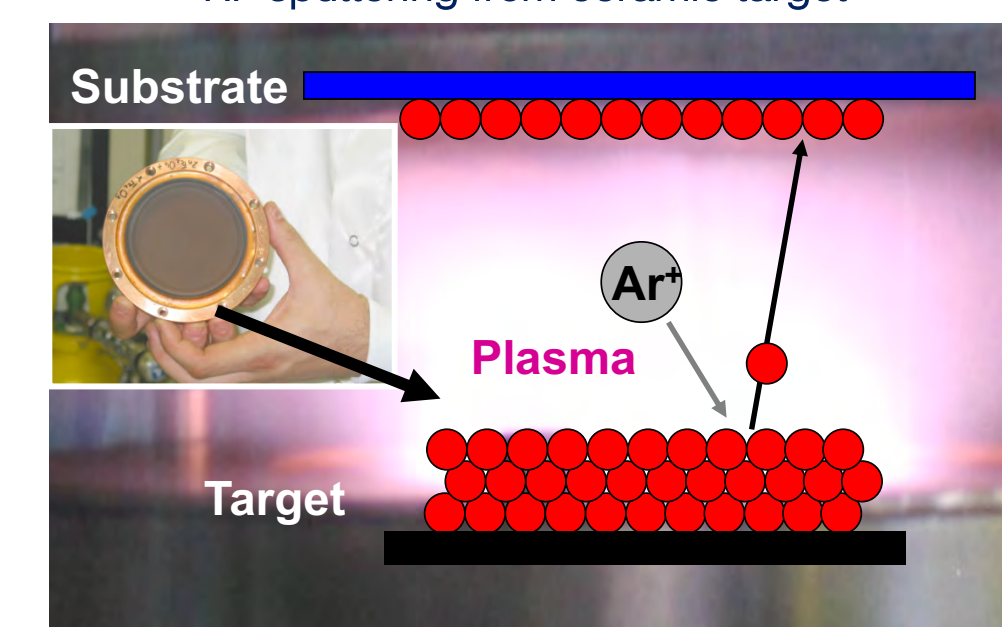
SENSORS

Sensitive films:

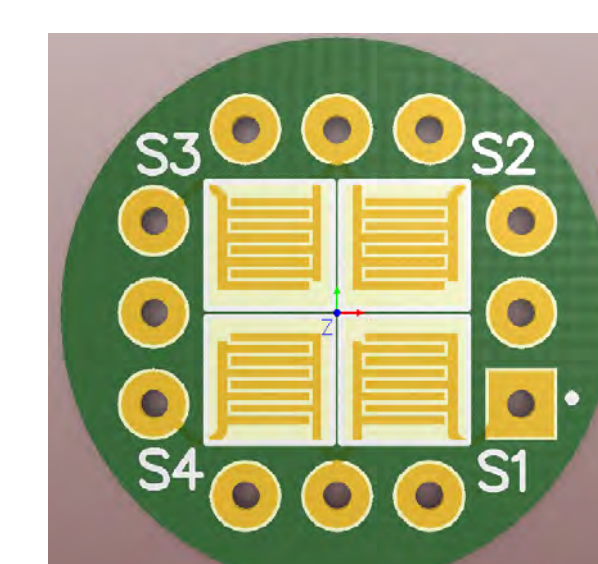
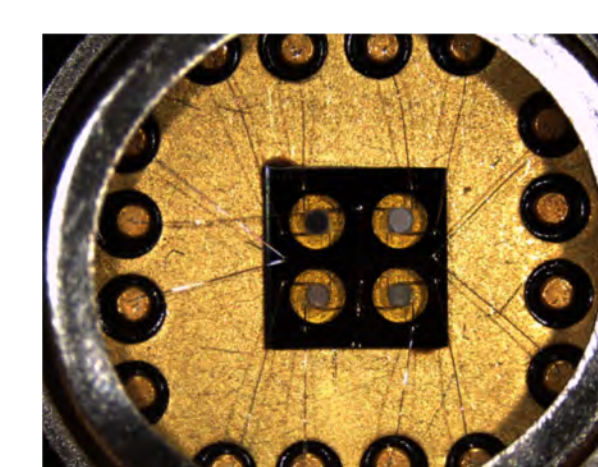
Scanning Electron Microscopy view of the cross-section of an oxide thin film



Deposition of oxide thin films by RF sputtering from ceramic target

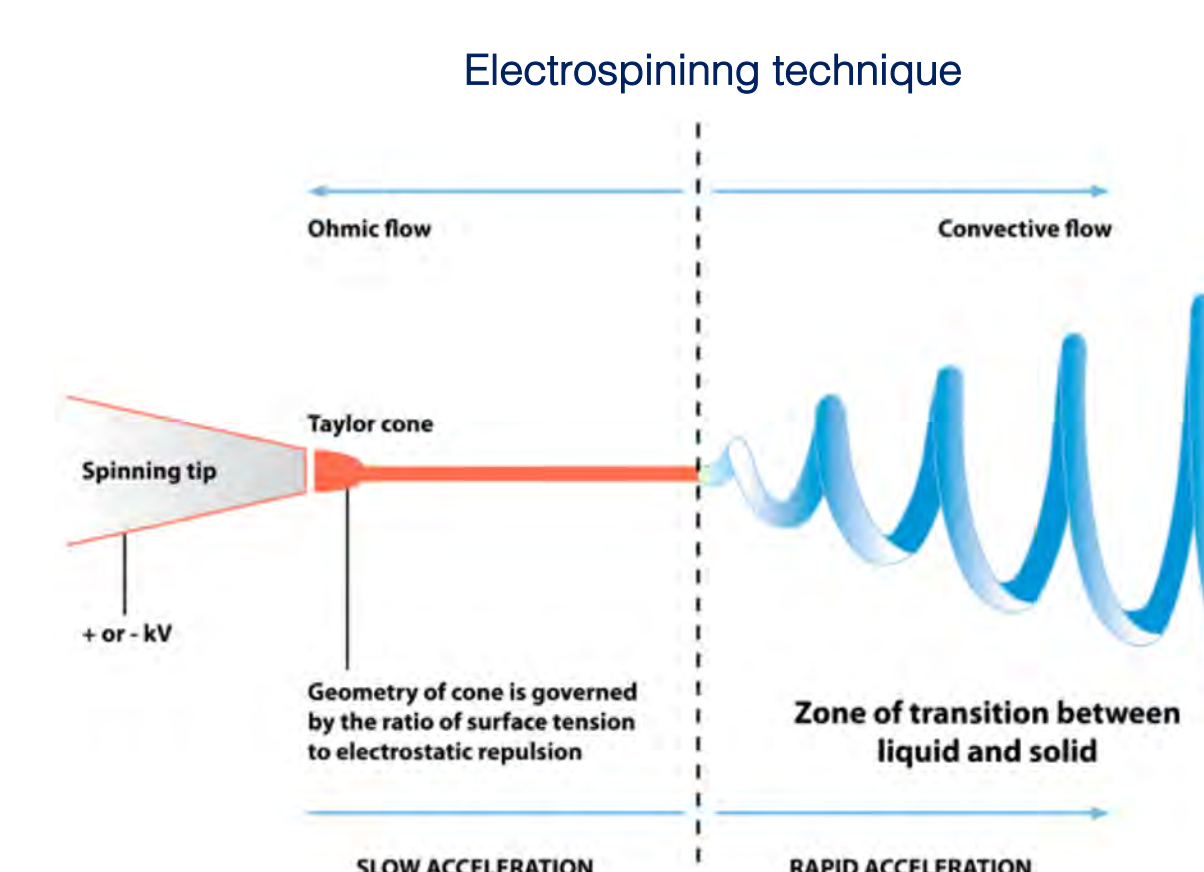
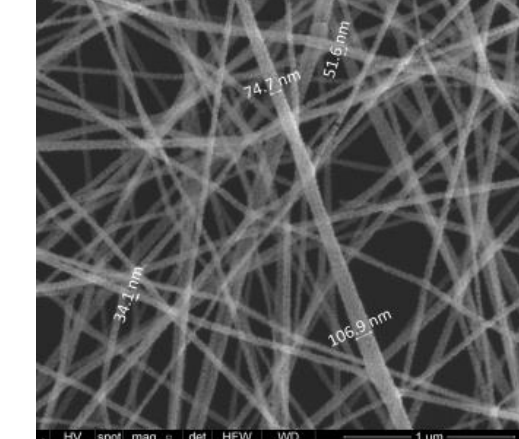


Substrates:



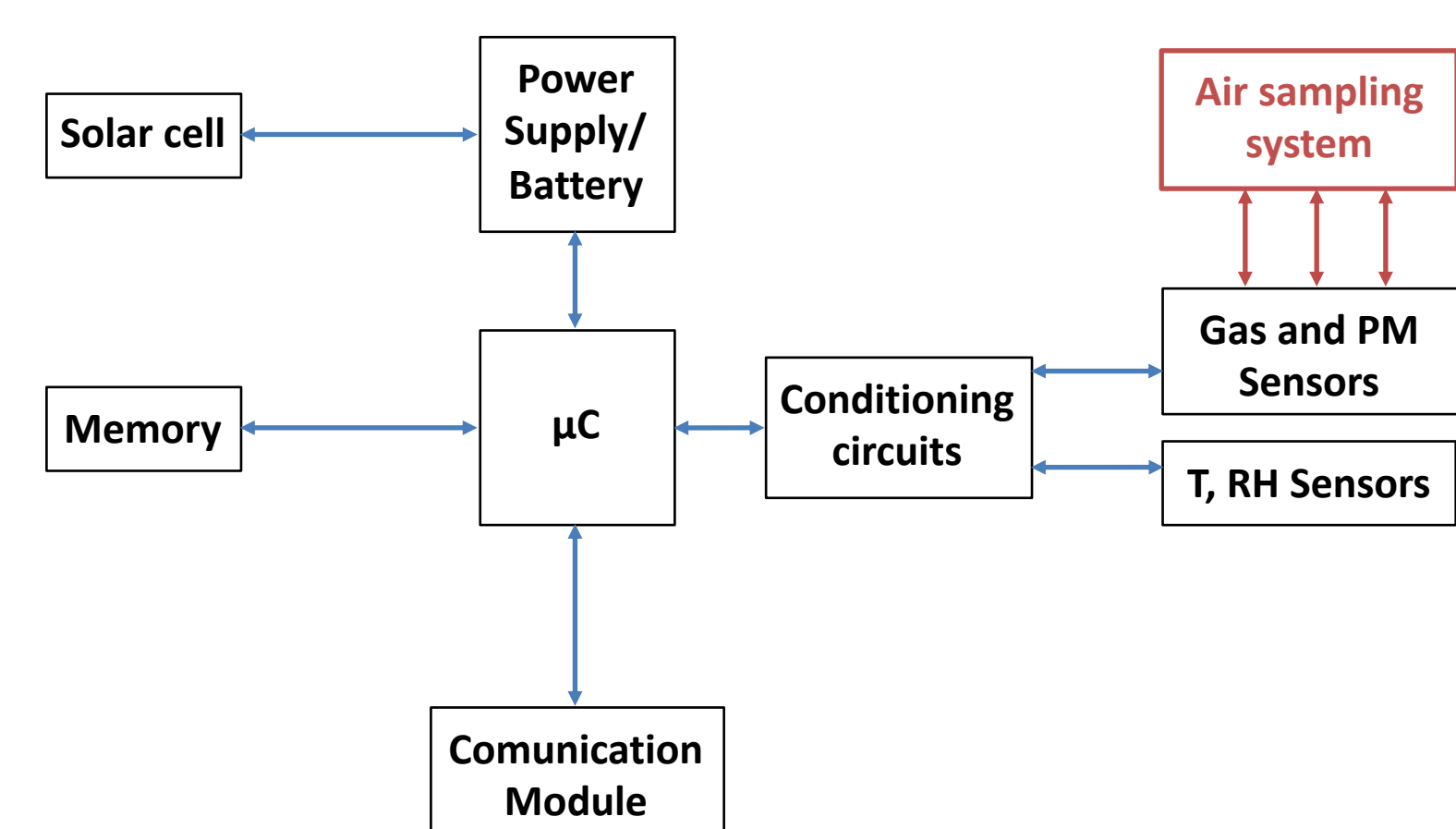
Electrospinning technique

SnO₂ + Au NP Nanofibers



ELECTRONIC SYSTEMS:

Block diagram:



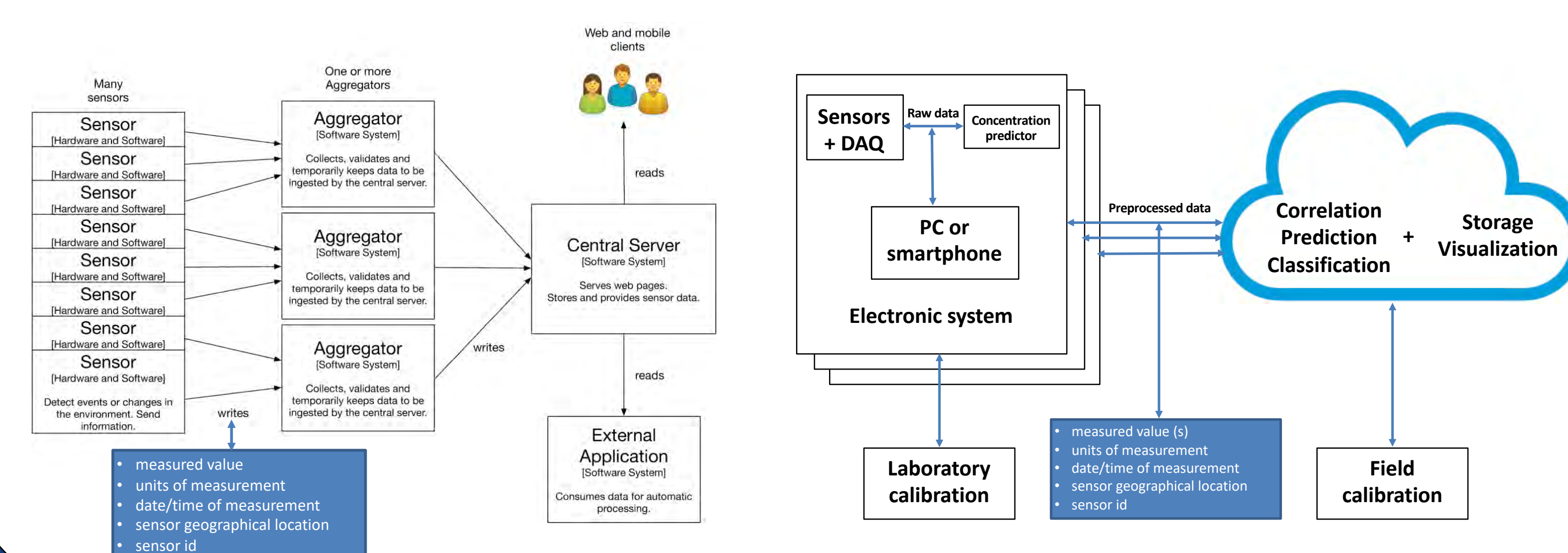
Commercial systems:



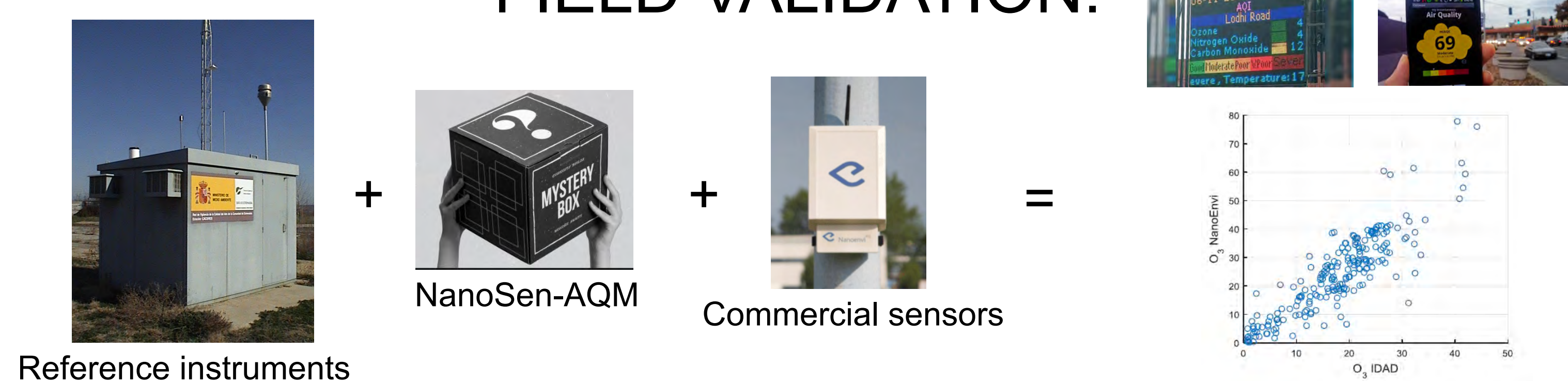
Sensors used:



CLOUD SYSTEM & DATA PROCESSING:



FIELD VALIDATION:



Acknowledgements:

Authors want to thank European Union for supporting Nanosen-AQM project (SOE2/P1/E0569)