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T 3.4 INNOVATIVE OBSERVATIONAL PLATFORMS



D 3.4 Innovative Observational Platforms

Deliverable structure planned in collaboration with city of Gothenburg

- What would be the most helpful information for a city who wants to use innovative platform technology?
 - Focus on low-cost sensors (most interesting as monitoring budgets are limited)
 - Practical, simple advices for best approach
 - How to determine what data can be used for



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A synthesis of technical information and use guidelines for sensors, physical platforms such as UAVs, testing of equipment, calibration and evaluation processes.

- An overview of possibilities and limitations for application of low-cost sensor technology in innovative observational platforms (in-situ, mobile and UAVs).
- Description of ongoing initiatives within SMURBS with components used in table
- Experiences and recommendations from the development of a flexible, low cost observational platform for urban environmental monitoring using Internet-of-Things (IoT) technology.



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SMURBS initiatives included in D3.4

- SAQ2: Athens LMS AQ network
- SAQ4: AQ impacts of city planning
- SAQ11: Leipzig Street mapping of air quality using BC backpacks
- SAQ14: LoV-IoT Air and Water monitoring with Internet of Things
- SAQ19: Aether – Patras
- SDIS2: 2D/3D mapping of urban infrastructure using UAVs



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Updates for final version

- Include latest scientific work in sensor evaluation
- Unify project descriptions (contributions from SMURBS initiatives currently vary in detail)
- Update/extend/clarify/improve the section on experiences and recommendations – input greatly appreciated!

