



European
Benchmarking
Co-operation



Sustainability

EU funded innovations in the field of waste-water

by Stelios Samios
R&D Dept

Athens Water Supply & Sewerage Company SA

Catchment monitoring

- Instead of following the WFD sampling program (analysis of a number of samples per year)
- An innovative way of monitoring by investigating the most probable pollution causes in the water bodies



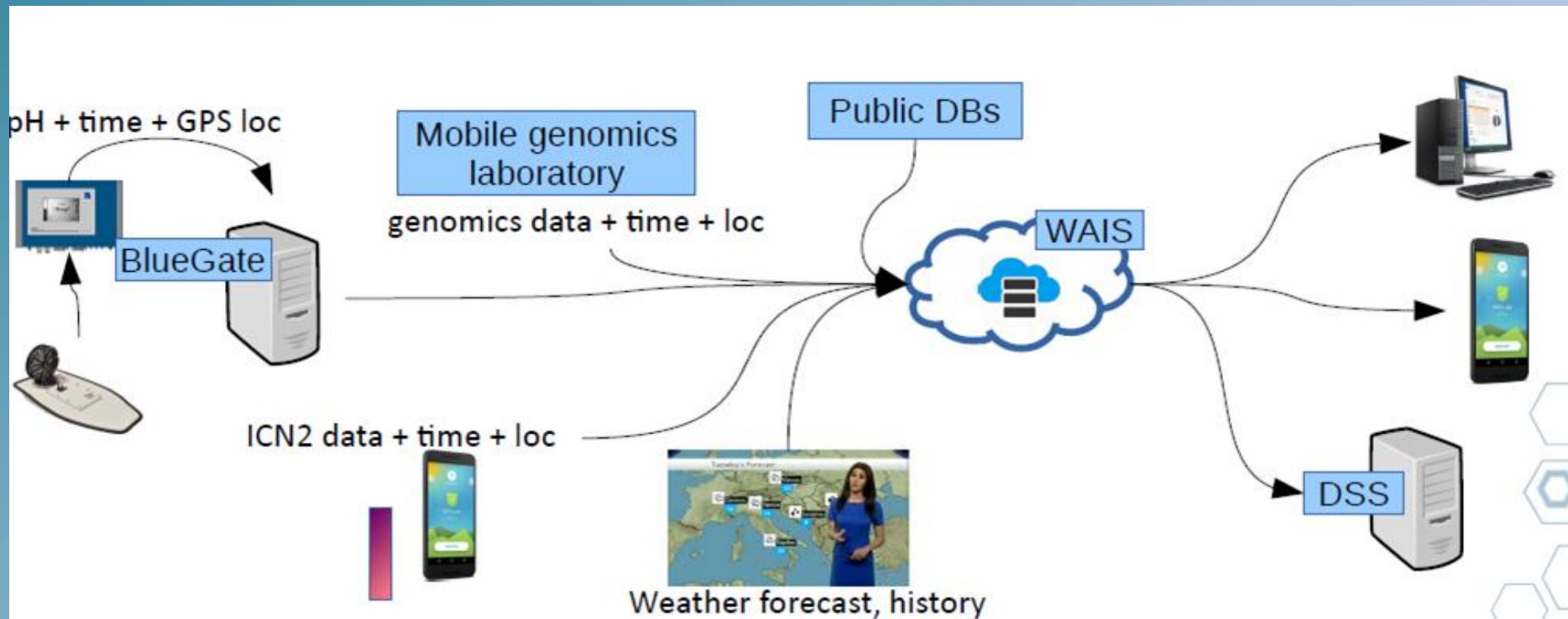
Autonomous and radio controlled boats



Sensors for monitoring of pH, conductivity, heavy metals, temperature, chlorophyll a.
Sampling mechanism for further parameters monitoring.
Remote control for reaching torrents 'estuaries



Data management



INTCATCH vs. Conventional Monitoring



- Selection of the proper sensors according to water body “needs” and employment of the suitable boat
- Data produced by monitoring by boats can be stored and visualised with GIS aid.
- “Laboratory moving to the field” leads to a direct and quick detection and determination of the pollution cause.
- Direct protection and continuous surveillance.



- Investigation of a catchment by taking samples and analysing in the lab
- Labour intensive
- Time and lab staff consuming