

# Low-power location determination & mobility profiling using IoT

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- Main objectives
  - 1) to investigate use of low-power, local and wide-area, location determination & mobility profiling;
  - 2) to investigate use of Machine Learning to improve accuracy of above
- Several application domains, e.g., determining locations of where Air Quality is monitored, profiling user activities through location & mobility sensing
- **Challenges:** lack of mature low-power telecoms infrastructure, ML requires a high computation cost, no global location determination & maps for indoors, etc.

