URBMOBI
A mobile measurement device for urban environmental monitoring
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URBMOBI SENSOR

The prototype version of URBMOBI includes an EKO ML-01 SI-Pyranometer, a SHT75 relative humidity sensor and an IST pt1000 temperature sensor, apart from sensor read out electronics, a GPS receiver, local data storage on a micro-SD card, a microcontroller for the acquisition process, wireless communication electronics and a power regulation circuit.

VISUALIZATION

URBMOBI is accompanied with a graphical user interface and visualization tool: MEA (Multi-sensor Evolution Analysis).

APPLICATIONS

URBMOBI data will provide climate services and environmental data for a wide range of applications:
• mapping the urban heat island effect, identifying hot spots and comfortable neighborhoods.
• predicting heat stress situations and warning vulnerable citizens.
• improving urban weather forecasts.
• developing and evaluating climate-proof urban plans and designs.

URBMOBI ON BUSES

A preliminary URBMOBI version was operated by RWTH Aachen University and the local bus company (ASEAG) in 2010 and 2011.

CONTACT

If you are interested in applying Urbmobi or need more information, please contact Peter.vandermark@tno.nl. Or visit our website: www.klimageo.rwthaachen.de/index.php?id=urbmobi

CONSORTIUM

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