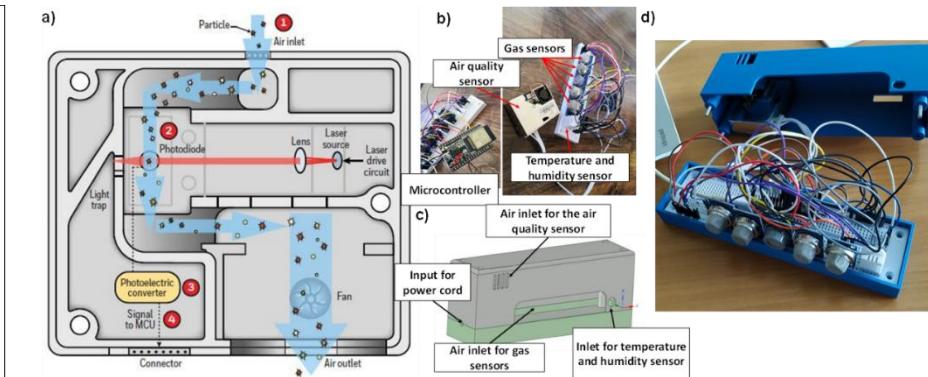
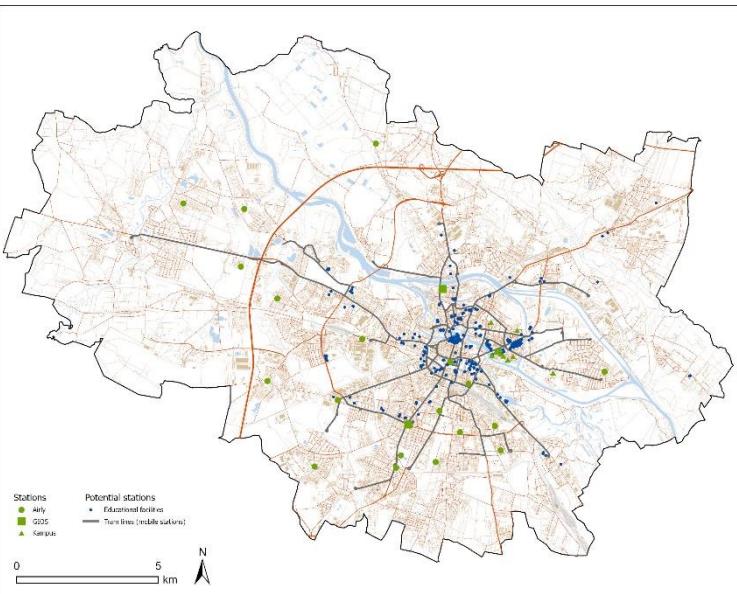


**Mapping urban ambient air pollution with a mobile sensor network**

Jan Blachowski, Paweł Stefaniak, Artur Skoczylas, Bartosz Jachnik, Sergii Anufriiev, Monika Chojwa

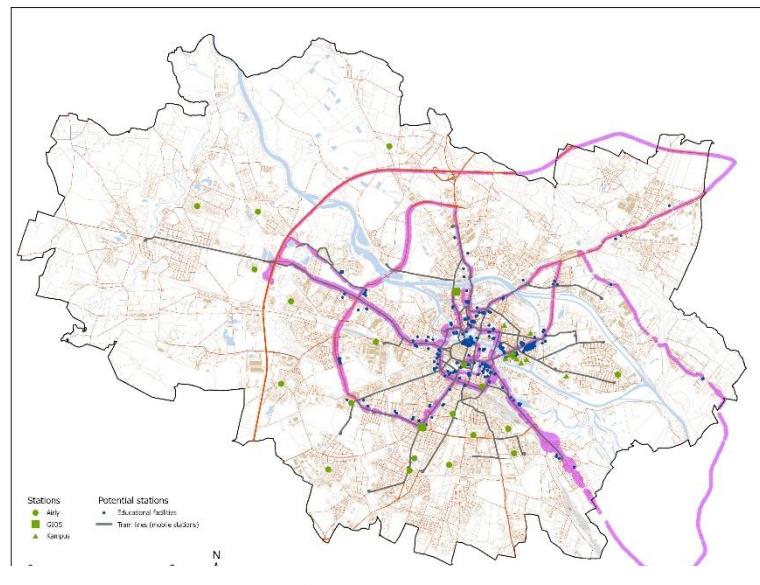
<sup>1</sup> KGHM Cuprum Research and Development Centre, <sup>2</sup> Wrocław University of Science and Technology**MOBILE SENSOR NETWORK CONCEPT AND DESIGN**

**Fig. 1. General architecture of Internet of Things for real-time smart pollution monitoring (Stefaniak et al. 2020)**

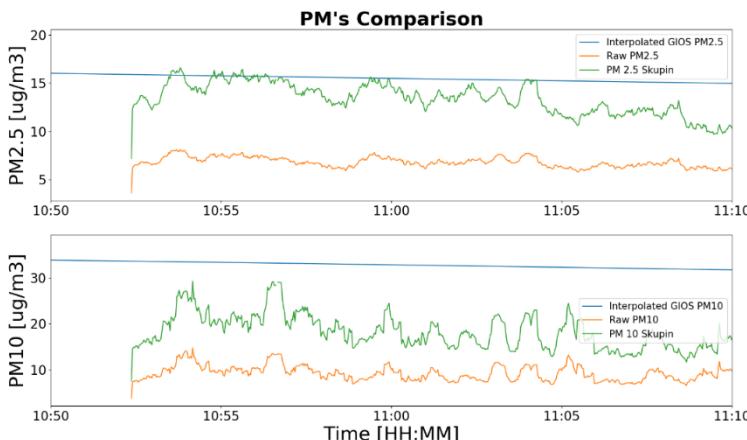


**Fig. 3. The principle of operation of the laser particulate matter sensor, b) device prototype, c) housing of the measuring unit, d) prototype unit (Stefaniak et al. 2020)**

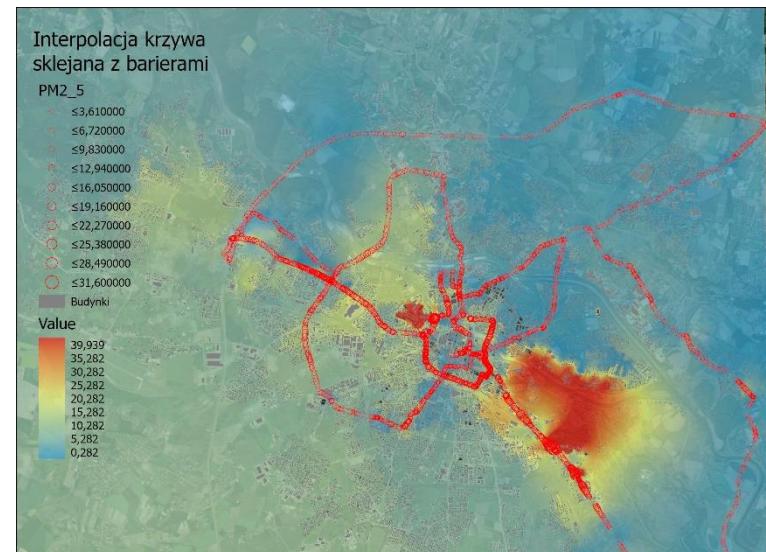
**Fig. 2. Concept of the mobile monitoring network**



**Fig. 4. Route of mobile measuring device**

**PRELIMINARY TESTS AND RESULTS**

**Fig. 5. Measurement error analysis**



**Fig. 6. Results of interpolation with barriers**