



Validation and data availability

All units had issues with **data spikes**

Only 2 out of 5 units had >90% data

PM_{2.5} comparison with automatic reference

mean bias: $-1.0 \mu\text{g}/\text{m}^3$ $R^2 : 0.84$

PM₁₀ and PM_{coarse} performance

Very poor: only PM_{2.5} sensor, uses basic algorithm to report PM₁₀/coarse fraction

PM_{2.5} between-sensor uncertainty

$2.6 \mu\text{g}/\text{m}^3$ or **22%**

Effect of relative humidity (PM_{2.5})

sensor/ref x **1.7** (from 50% to 90% RH)

EU expanded uncertainty vs gravimetric ref. (PM_{2.5})

38% without calibration

15% after local calibration