SMOGGIE-PM-HEAT

Use for which sensor performance was best: OA-A - France, OA-A - Thailand, OA-M - France, OA-M - Thailand

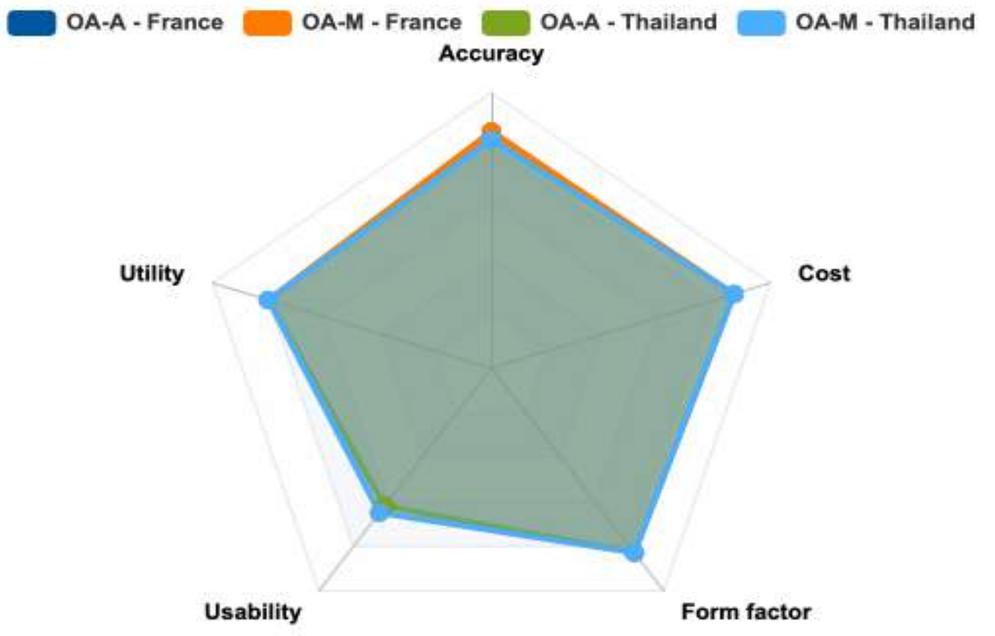
★★★★☆

Jury's opinion

The SMOGGIE-PM-HEAT is a newer version of the SMOGGIE that integrates a small heating system for high humidity enviromnents. It remains a very small and very lightweight sensor system targetting particle measurements for outdoor applications. It provided a similar accuracy performance to the basic SMOGGIE.



Evaluation



Measured pollutants

- ○ CH_2O
- ○ NO_2 (NO_x)
- ○ CO
- ○ O_3
- ○ CO_2
- ✓ PM_1
- ○ VOC
- ✓ $PM_{2.5}$
- ○ H_2S
- ✓ PM_{10}
- ○ NH_3
- ○ SO_2
- ○ NO
- ✓ Particle number (concentration)
- ○ BC
- ○ WB

Other measurements

- ✓ Temperature
- ○ Atmospheric pressure
- ✓ Humidity
- ○ Luminosity
- ○ Odours
- ○ Acoustic comfort
- ○ GPS
- ○ Anemometer

Data storage location: USA

Entreprise/Company

Magnasci SRL

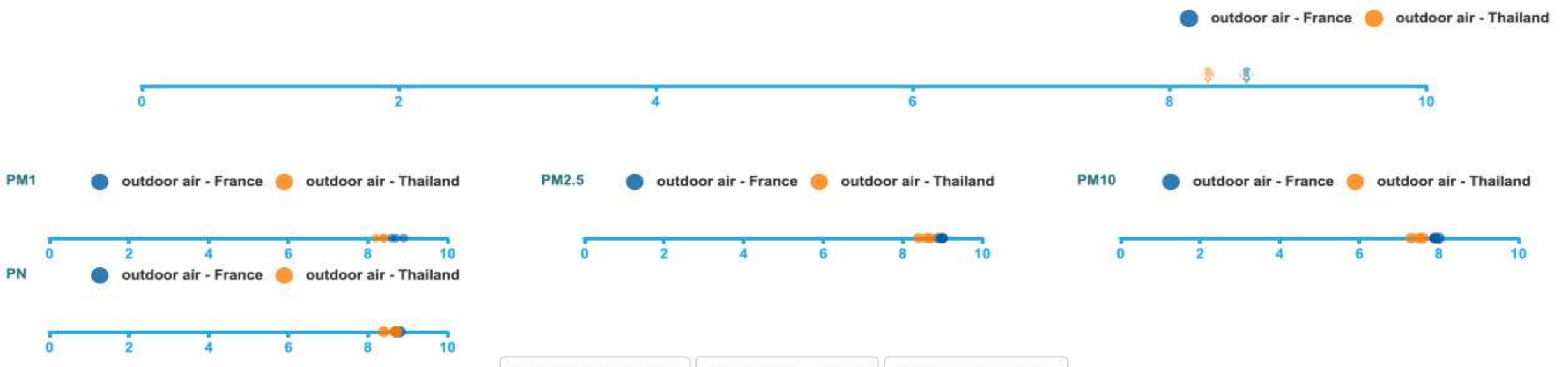
2015

Cocorului 23,
Dumbravita 307160, Romania

www.uradmonitor.com
URADMonitor
@uRADMonitor

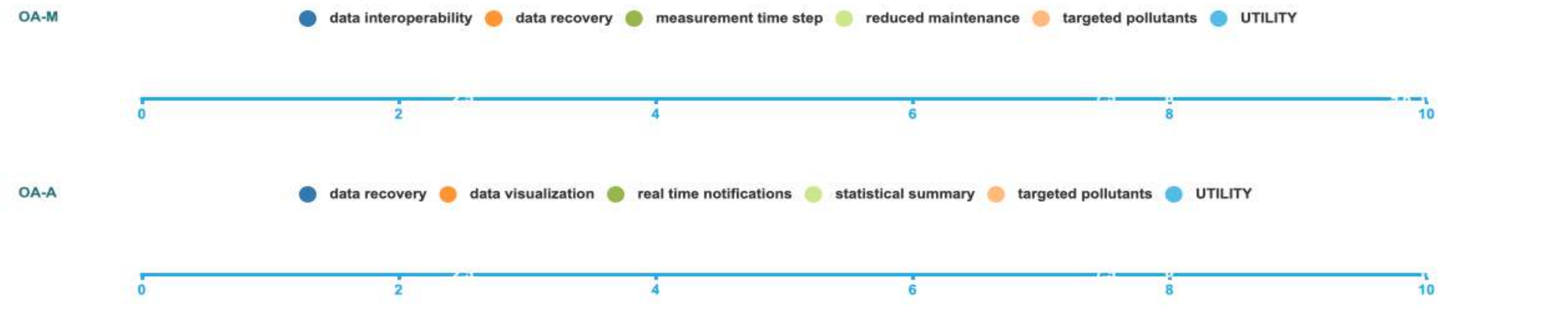
Detailed report

 # ACCURACY on 3 microsensors based on the SET method (Fishbain et al. 2017)

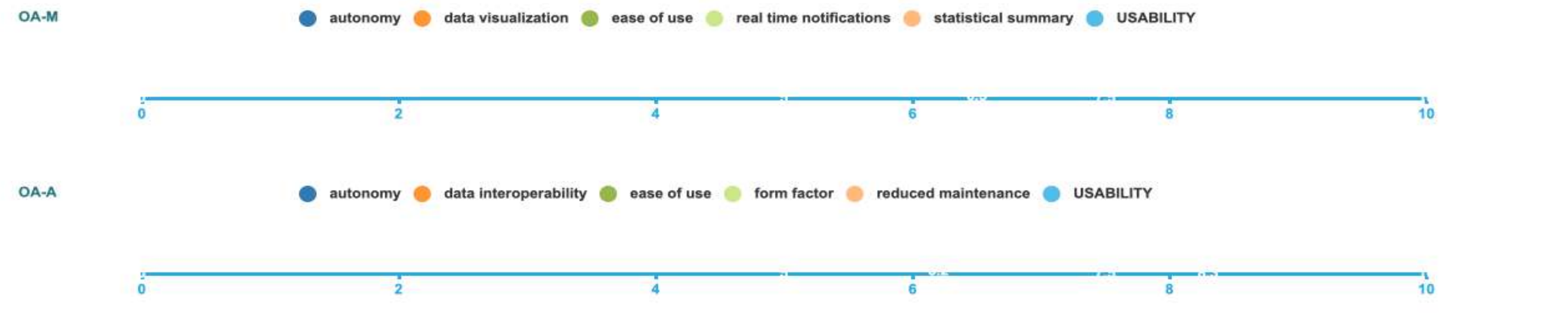


Time series graphs | Subcriteria details | Additional metrics

 # UTILITY the capacity of a sensor system to provide the essential functionalities for accomplishing the application objectives



 # USABILITY the ability of the candidate solution to provide the conditions for its users to perform the tasks safely, effectively, and efficiently while enjoying the experience



 # FORM FACTOR relates to how much of a physical burden the device represents for operations like transportation or installation



 # COST investment and running costs over 3 years

