Automated Aerosol Monitoring Station
CimAAMS

CimAAMS is a unique, innovative, integrated, operational system for aerosol near real time monitoring dedicated to early warning networks : it combines two leading-edge technologies from remote sensing: Sun Sky photometer and Aerosol LiDAR

APPLICATIONS

Aerosol threats

- Sand and dust storms
- Volcanic ashes
- Biomass burning (forest fires)
- Urban and industrial pollution
- Sea-salt aerosols

And the rising climatic variability and the impact on:

- Health
- Air and road safety
- Economic activities

The climate change is now challenging our world. There is a growing concern for human and environmental protection

Governemental agencies in charge of managing aerosols threats, generated by natural and anthropic events, need ground based real time monitoring solutions to complement satellite in situ measurements

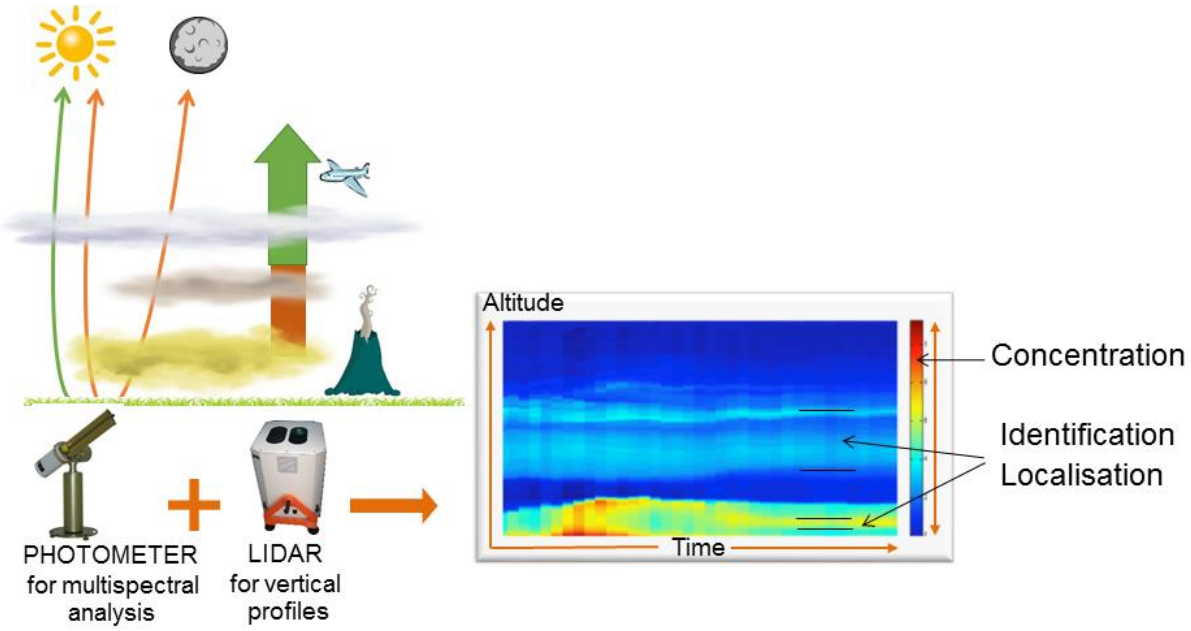
OPERATION

CimAAMS is the first integrated and operational solution in compliance with WMO recommendations that combines two complementary remote sensing instruments for aerosol monitoring dedicated to early warning networks

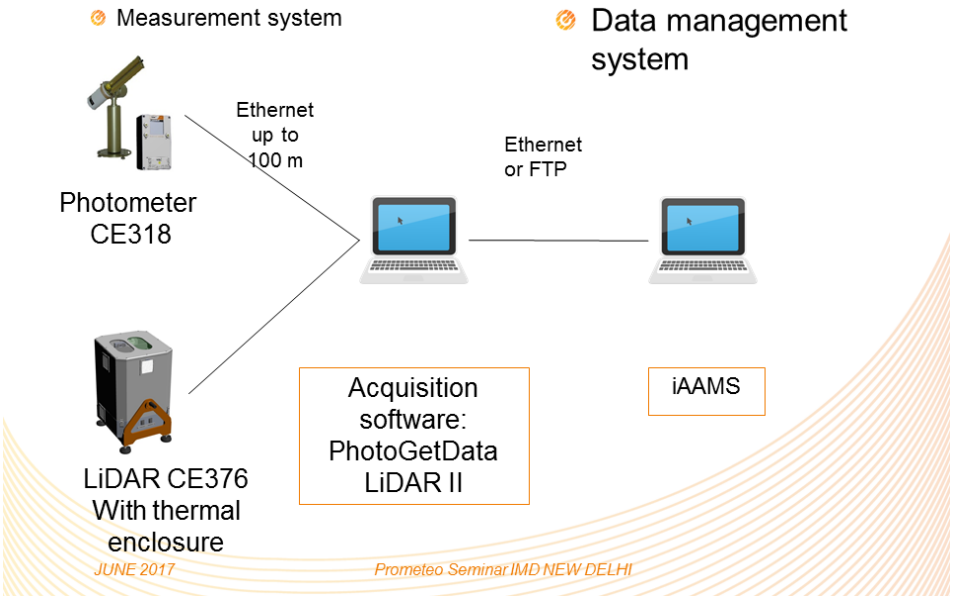
- 1 Aerosol eye safe LiDAR (15 instruments in operation around the world)
- 1 Sun Sky Lunar photometer (operational worldwide known instrument of reference)

How it works?

Cimel's CimAAMS is able to automatically locate, quantify and identify aerosols, layer by layer day and night



Operation Architecture Diagram



USER'S BENEFITS

Efficient	Operational	Cost saving
• High altitude detection profiles • Automatic detection of multiple boundary layers • Low layer detection • Automatic calibration • High metrological stability	• Robust and climate resistant • Light and portable • Eye safe (no radar) • 1 PC with real time processing and display	• Unattented continuous operation • Full outdoor installation • Very low spare part cost • No systematic maintenance