



MicroStep - MIS

Your friends in every weather

30 / 1993 - 2023
YEARS

OF EXPERIENCE IN METEOROLOGY
AND ENVIRONMENTAL MONITORING

KEY BUSINESS FIELDS



**Meteorology
and Climatology**



**Marine Monitoring
Systems**



**Radiation Monitoring
Systems**



**Modeling
and Forecasting**



**Weather Radar
Systems**



**Hydrology and Flood
Forecasting**



**Aviation Weather
Systems**



**Road Weather
Information Systems**



**Crisis and Early
Warning Systems**



**Calibration
Systems**

30 YEARS OF EXPERIENCE IN WEATHER AND ENVIRONMENTAL MONITORING

4000+

...

*professional met
stations*

1200+

...

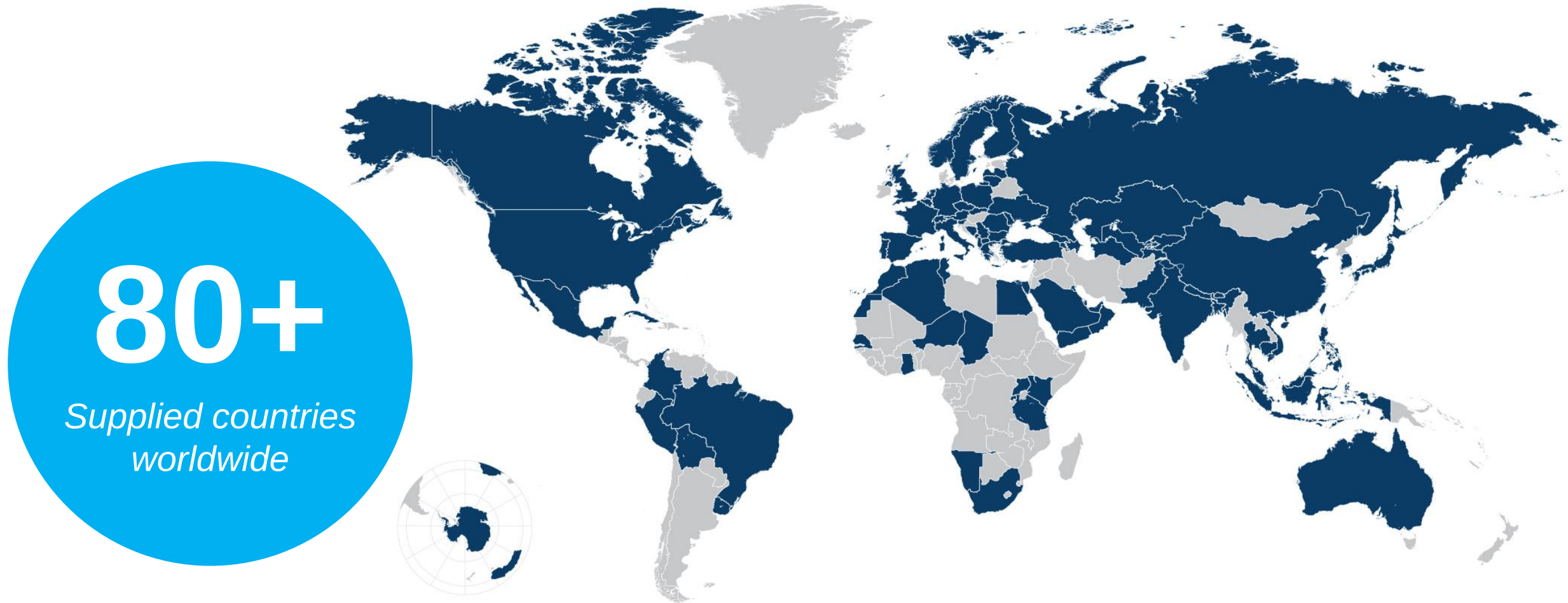
*completed
projects*

470+

...

*aviation weather
systems*

OUR PROJECTS WORLDWIDE



EXAMPLE OF AVIATION REFERENCES

AWOS for Damman and Riyadh Airports

One of the first large-scale projects of the company, systems for ICAO CAT III category airports

Saudi Arabia



Low Level Windshear Alert System for Soekarno-Hatta International Airport

One of the 20 world's busiest airports by passenger traffic

Indonesia



Automated Weather Observation System for 67 airbases

Meteorological system for Indian military airports (including high stations in altitude)

India



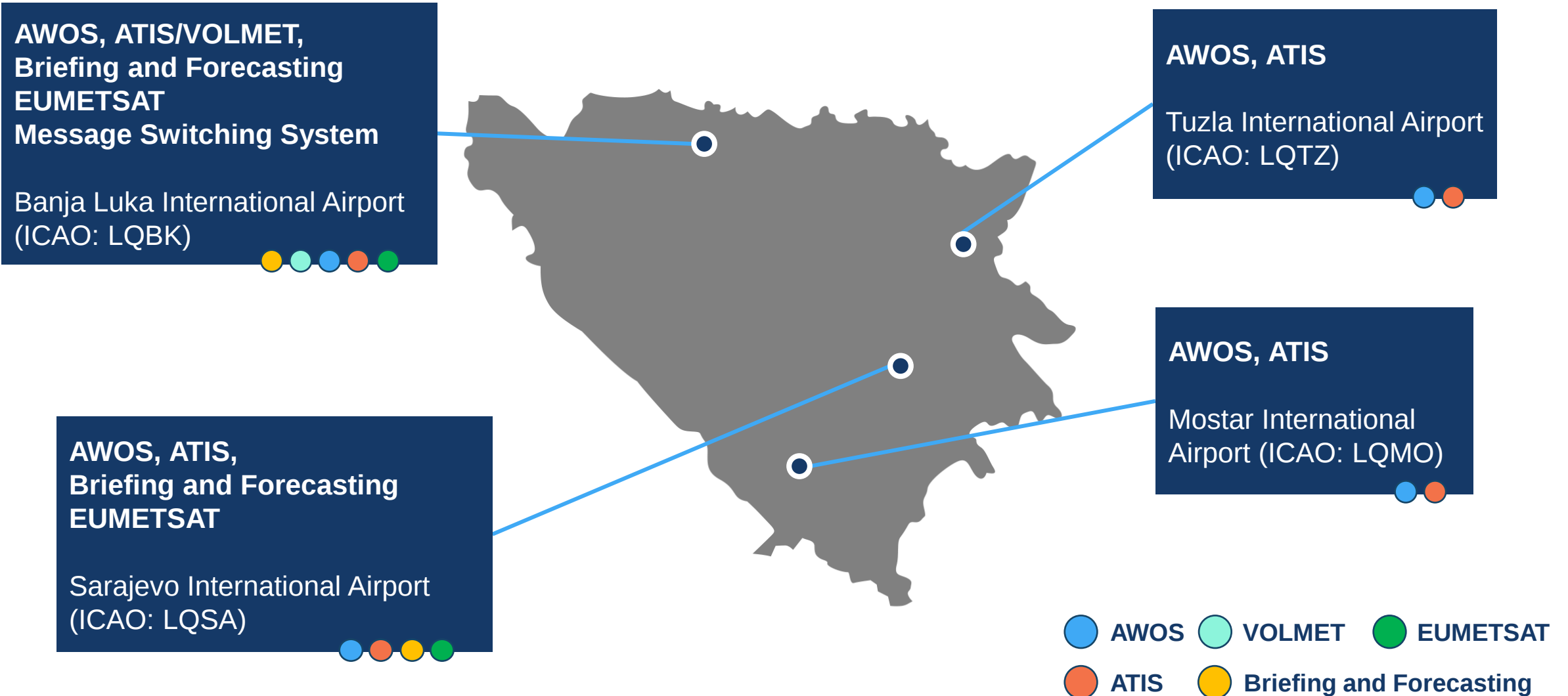
National Network of Meteorological Stations

Network of 88 meteorological stations including the central system

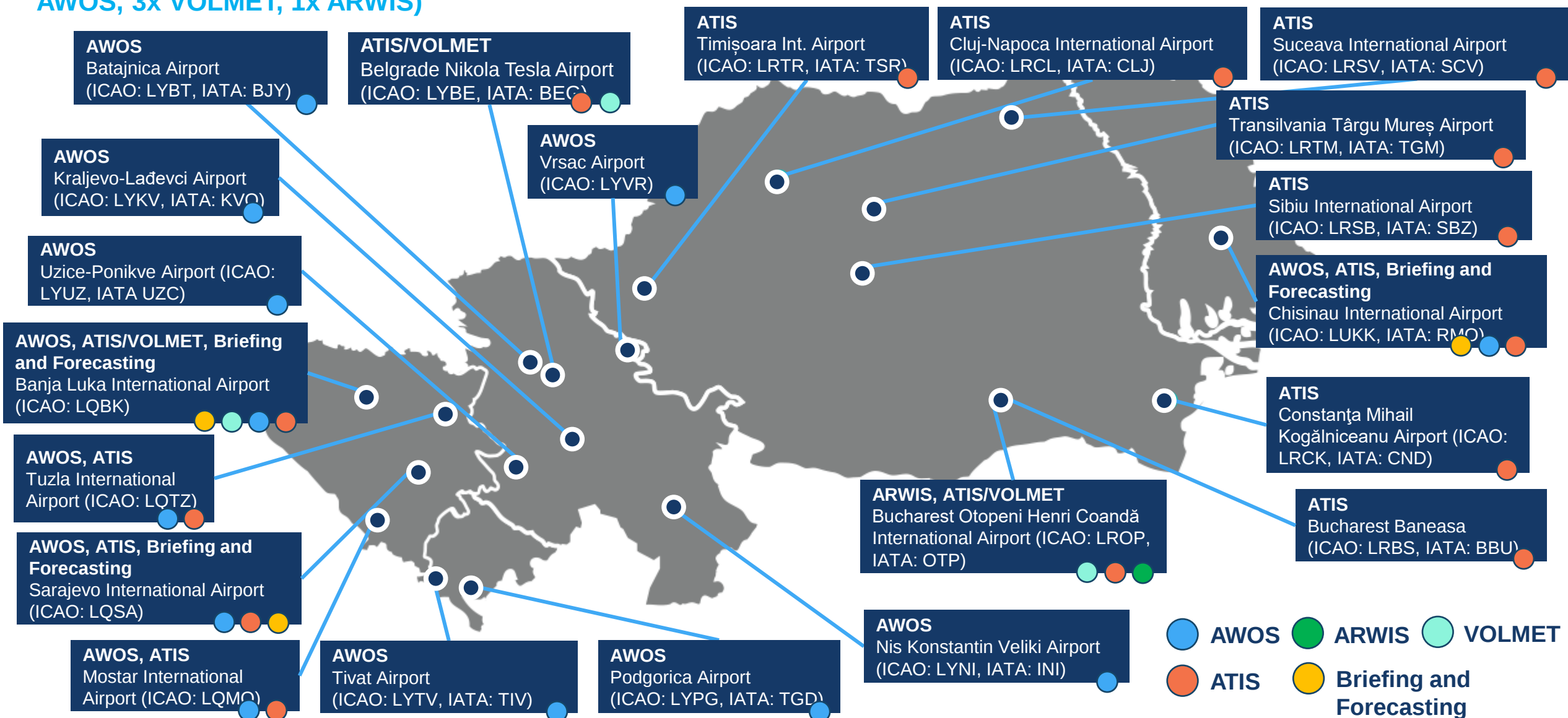
Nepal



AVIATION METEOROLOGICAL SYSTEMS FOR BHANSA



BOSNIA AND HERZEGOVINA, MOLDOVA, ROMANIA, SERBIA, MONTENEGRO (14x ATIS, 12x AWOS, 3x VOLMET, 1x ARWIS)



BULGARIA, GREECE, NORTH MACEDONIA

(4 x AWOS, 6 x RVR, A-CLDB, 7x D-ATIS AND 1x D-VOLMET)

AWOS (2005), A-CLDB Skopje
Petrovec International Airport (ICAO: LWSK, IATA: SKP)

ATIS Corfu International Airport
(ICAO: LGKR, IATA: CFU)

ATIS Athens International Airport
(ICAO: LGAV, IATA: ATH)

LGGG FIR (Flight Information
Region) **VOLMET**

RVR Keffalinia
(ICAO: LGKF, IATA: EFL)

RVR Zakynthos
(ICAO: LGZA, IATA: ZTH)

ATIS Chania International Airport
(ICAO: LGSA, IATA: CHQ)

ATIS Heraklion International Airport
(ICAO: LGIR, IATA: HER)

Bulgaria Military 2 AWOS LBPG & Krumovo

Bulgaria Military AWOS Bezmer

RVR, ATIS Thessaloniki
(ICAO: LGTS, IATA: SKG)

RVR Skyros
(ICAO: LGSY, IATA: SKU)

RVR Mytilini
(ICAO: LGMT, IATA: MJT)

RVR Samos
(ICAO: LGSM, IATA: SMI)

ATIS Kos International Airport
(ICAO: LGKO, IATA: KGS)

ATIS Rhodes International Airport
(ICAO: LGKO, IATA: KGS)

SYSTEMS YOU CAN TRUST

A close-up photograph of a person's hand plugging a multi-colored wire into a green terminal block on a printed circuit board (PCB). The background is slightly blurred, showing a piece of electronic equipment with a screen and buttons.

MicroStep-MIS specializes in development and manufacturing of monitoring hardware and information systems, processing of acquired data, research and numerical modeling.

HARDWARE DESIGN AND MANUFACTURE

- Sensors and Monitoring Devices
- Data Loggers
- X-Band Weather Radar
- Displays
- Accessories
 - Accessories for Aviation Systems
 - Calibration Accessories
 - Communication Devices
 - Meteorological Masts and Other Mechanical Components
 - Other Accessories
- Power Supplies and Chargers



SOFTWARE DEVELOPMENT

- **EUROCAE ED-109, ED-153** software development process
- **Aviation:** AWOS, ARWIS, ATIS/VOLMET, LLWAS, Pilot Briefing, AWDSS, Airport Lightning Alert System, MetReporter, Remote Observer, RVR
- **Meteorology:** Forecasting Office / Weather Studio, Climatological Database, Modeling Suite (NWP, sandstorm, visibility), Radar and Satellite Data Processing
- **Hydrology:** Data Collection and Database System, Hydrological and Flash-flood Modeling
- **Marine:** Helideck Monitoring System, Data Collection and Database System, Marine Modeling
- **Radiation:** Data Collection and Database System, Dispersion Modeling



CALIBRATION LABORATORY

ALL-IN-ONE Calibration Systems of

- Atmospheric pressure sensors
- Temperature and relative humidity sensors
- Precipitation sensors
- Distance sensors
- Wind speed and direction sensors
- Water level sensors

+ **FULLY AUTOMATED** calibration
software **IMS4 CalibLab**

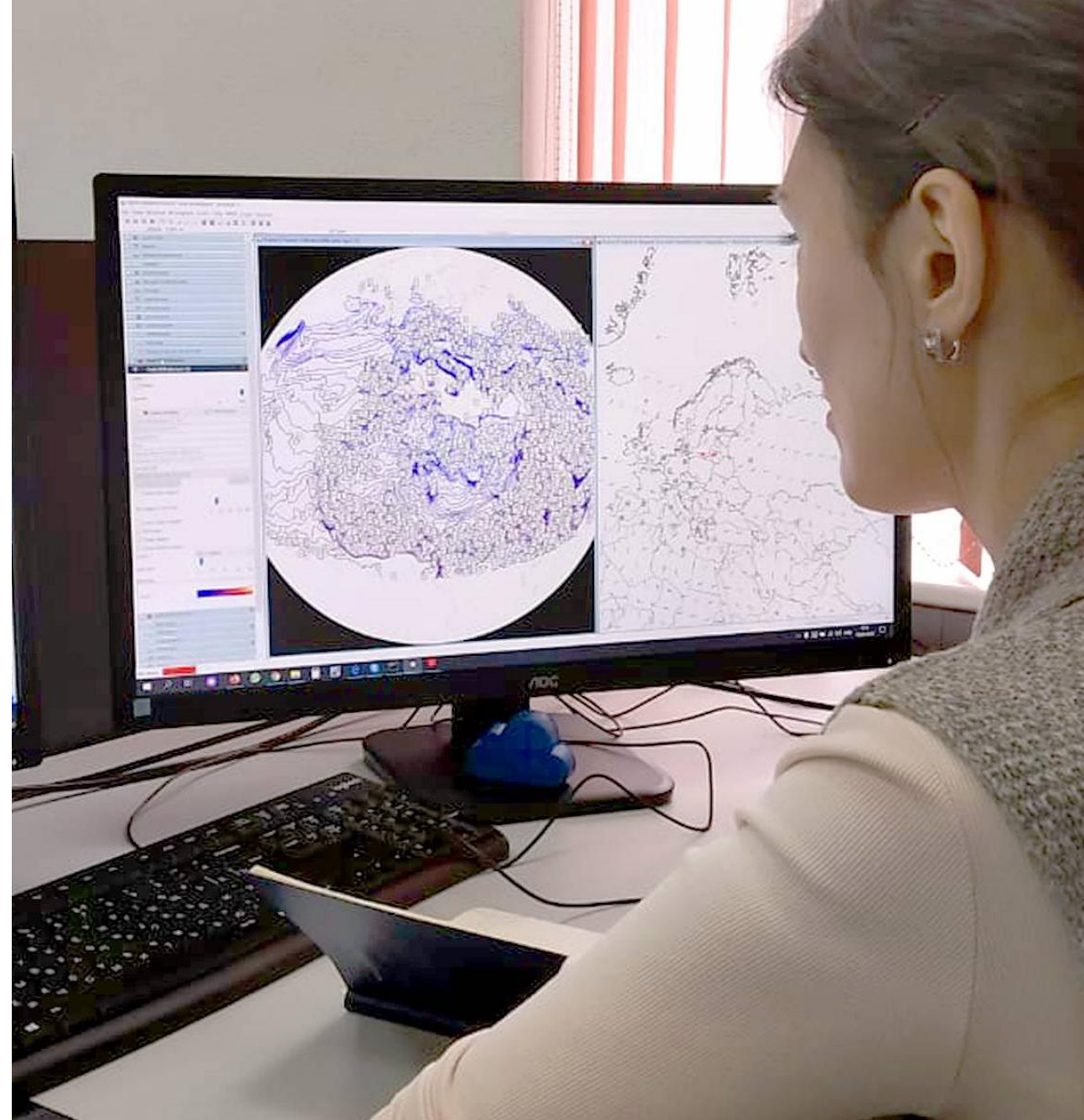


MODELING AND FORECASTING SERVICES

- MicroStep-MIS certified as **ANSP – MET**

Forecasting services:

- Operation of NWP model
- Adaptation of the regional model to the forecast area, taking into account the local features of the region
- Improving forecast quality by post-processing methods
- Modeling the transfer of pollutants and radioactive particles in the atmosphere
- Ultra-short-term weather forecast (nowcasting) for the airports
- Severe weather warnings



CERTIFICATIONS AND QUALIFICATIONS

- **ISO/IEC 9001: 2015** Quality Management System
 - **ISO/IEC 10006: 2017** Quality Management System in Projects
 - **ISO/IEC 14001: 2015** Environmental Management System
 - **ISO/IEC 27001: 2013** Information Security Management System
 - **ISO/IEC 17025: 2017** General Requirements for the competence of testing and calibration laboratories
-
- MicroStep-MIS received in **2020** a **TÜV SÜD** award in the **Exceptional Company Competition** as the first medium-sized company in Slovakia to receive the award in the field of Quality.



CERTIFICATIONS AND QUALIFICATIONS

AVIATION

- Certified by **Civil Aviation Authority (Transport Authority) of SR** on behalf of **European Aviation Safety Authority** in **2004, 2010, 2023**
- Certified by **Civil Aviation Administration of China** in **2016**
- Certified by **Rosstandart, Russian Federation** (Reg № 82820-21) in **2021**



SESAR, HORIZON 2020



Programme	Project Name / Sub-task	Call / Project ID	Duration
H2020-EU.3.4.7. SESAR Joint Undertaking	Airport Airside and Runway Throughput / Safety Support Tools for Avoiding Runway Excursions	H2020-SESAR-2019-1; ID: 874477 (PJ02-W2 AART)	2019–2023
H2020-EU.3.4.7. SESAR Joint Undertaking	PJ04 W2 Total Airport Management / Digital Smart Airports	H2020-SESAR-2019-1; ID: 874472 (PJ04-W2 TAM)	2019–2023
H2020-EU.3.4.7. SESAR Joint Undertaking	PJ04 Total Airport Management / Enhanced Collaborative Airport Performance Management	H2020-SESAR-2015-2; ID: 733121: (PJ04 TAM)	2016–2019
H2020-EU.3.4.7. SESAR Joint Undertaking	PJ05 - Remote Tower for Multiple Airports / Remotely Provided Air Traffic Service for Multiple Aerodromes	H2020-SESAR-2015-2; ID: 730195 (PJ05 Remote Tower)	2016–2019
H2020-EU.3.4.7. SESAR Joint Undertaking	4D Trajectory Management / Management and Sharing of Data Used in Trajectory (AIM, MET)	H2020-SESAR-2015-2; ID: 734161 (PJ18 4DTM)	2016–2019
H2020-EU.3.4.7. SESAR Joint Undertaking	PJ03b Airport Safety Nets / Safety Support Tools for Runway Excursions	H2020-SESAR-2015-2; ID: 734139 (PJ03b SAFE)	2016–2019

OUR SCIENTIFIC COOPERATION PARTNERS



European Space Agency
(France)



Wageningen University and Research
(Netherlands)



Delft University of Technology
(Netherlands)

AIRBUS

Airbus
(France)



Dassault Aviation
(France)



Comenius University,
Faculty of Mathematics,
Physics and Informatics
(Slovakia)



German
Aerospace Center
(Germany)

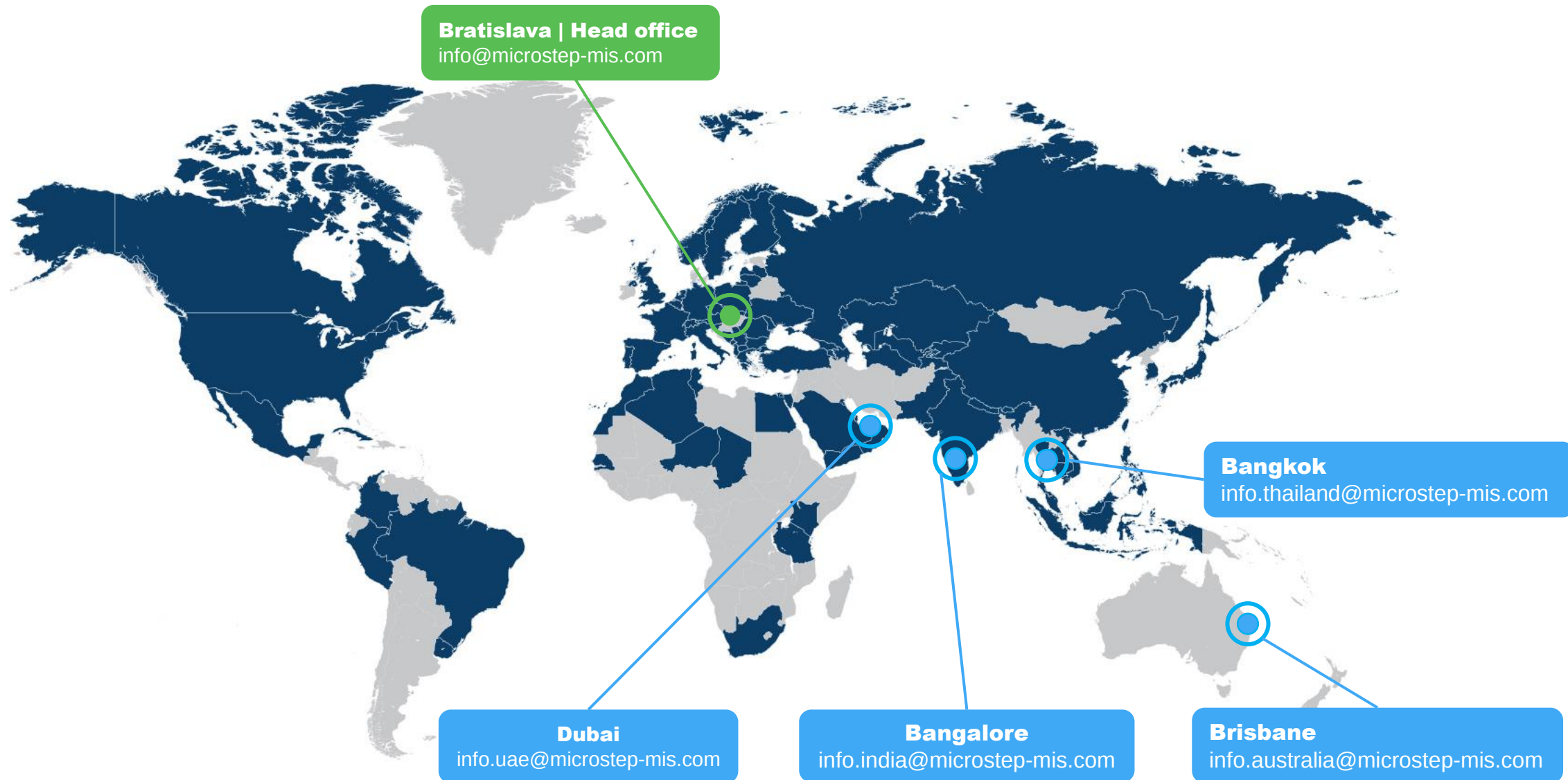


European Organisation
for Civil Aviation
Equipment
(France)



HydroMeteorological
and Environmental
Industry
(Switzerland)

CONTACT US | OFFICES WORLDWIDE



CONTACT US | HEAD OFFICE



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