

Success Story

Nationwide
meteorological
network of more than
1000 AWS for Turkey



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MicroStep-MIS started cooperation with Global Teknik Elektronik in 2011. Over the following years, we received several orders for the extension of the initial delivery of 250 Automatic Weather Station sets. The client and end-user of the network is Turkish State Meteorological Service (Meteoroloji Genel Müdürlüğü - MGM).

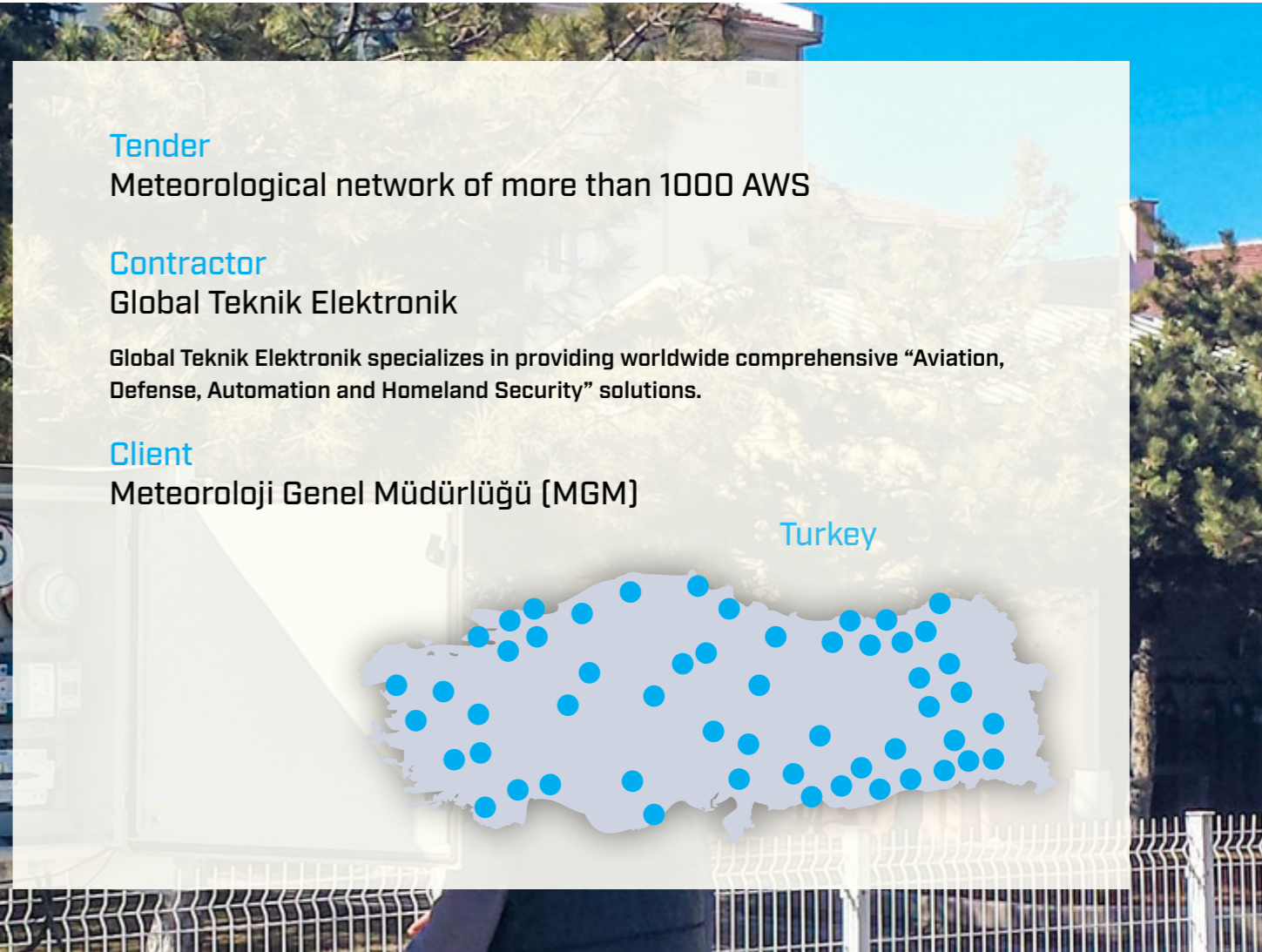
Equipment for meteorological station sets

The sets of meteorological stations are equipped with a data logger and the data they collect using cellular mobile data VPN are automatically transmitted to the central system via a GSM connection. The stations use power from solar panels and a backup battery.



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Tender

Meteorological network of more than 1000 AWS

Contractor

Global Teknik Elektronik

Global Teknik Elektronik specializes in providing worldwide comprehensive "Aviation, Defense, Automation and Homeland Security" solutions.

Client

Meteoroloji Genel Müdürlüğü (MGM)

Turkey



By the end of 2015, we delivered the last package of equipment. In total, the number of stations forming a nationwide meteorological network exceeded 1000.

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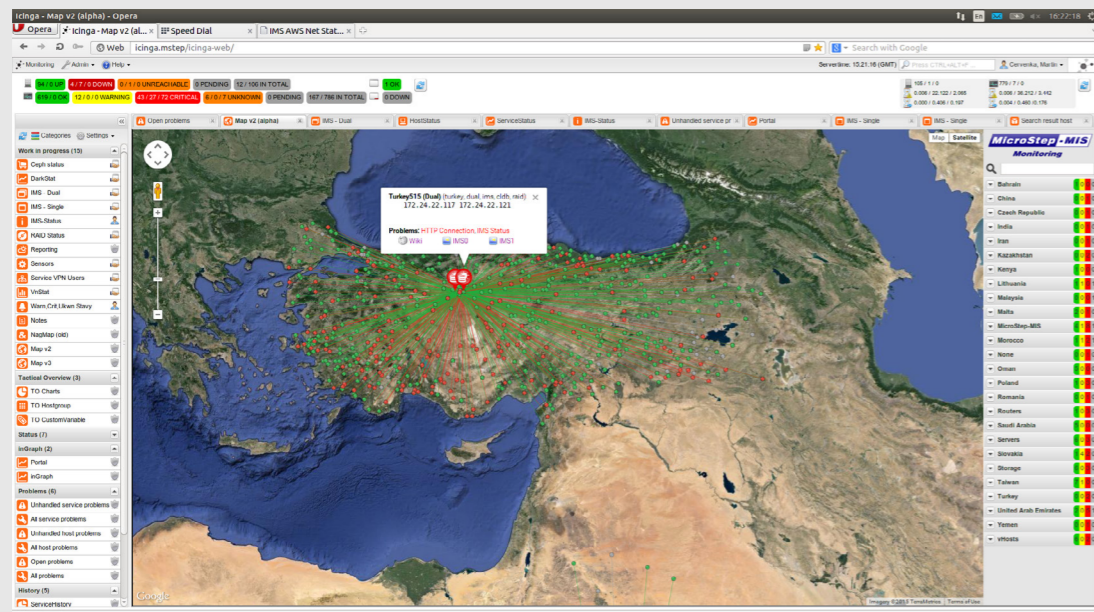
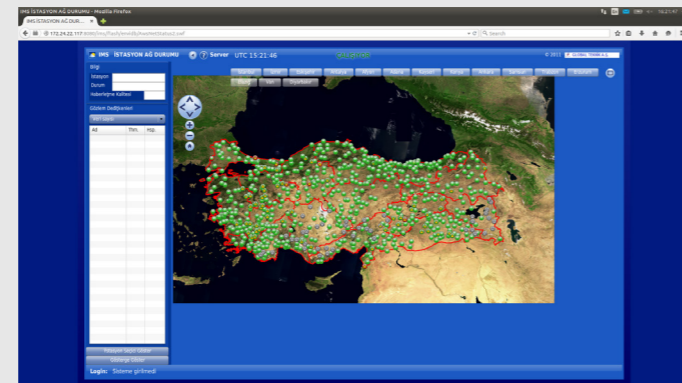
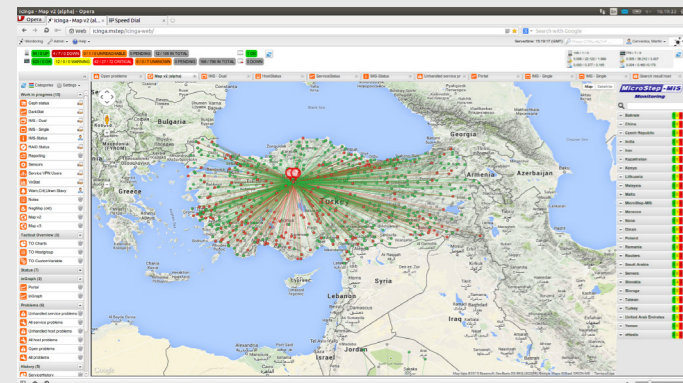
Measured parameters:

- wind speed
- wind direction
- air temperature
- relative humidity
- atmospheric pressure
- global solar radiation
- snow height
- soil temperature (in 6 depths)
- ground temperature
- soil moisture (in 3 depths)
- present weather
- snow water equivalent

Unified Collection System and Climatological Database System

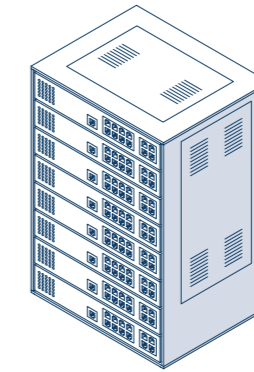
The stations are connected to a data collection center IMS4 UDCS. The data are stored and processed in an environmental and climatological database system IMS4 EnviDB. The system has different modules for manual and automatic data control, creating meteorological reports, messages (SYNOP, METAR, BUFR, etc.) warnings, climatological statistics, and sophisticated visualization of current data as well as for network status monitoring.

The system presents data via specialized user applications and standard reports applications consisting of WMO standard reports and various user-specified reports.



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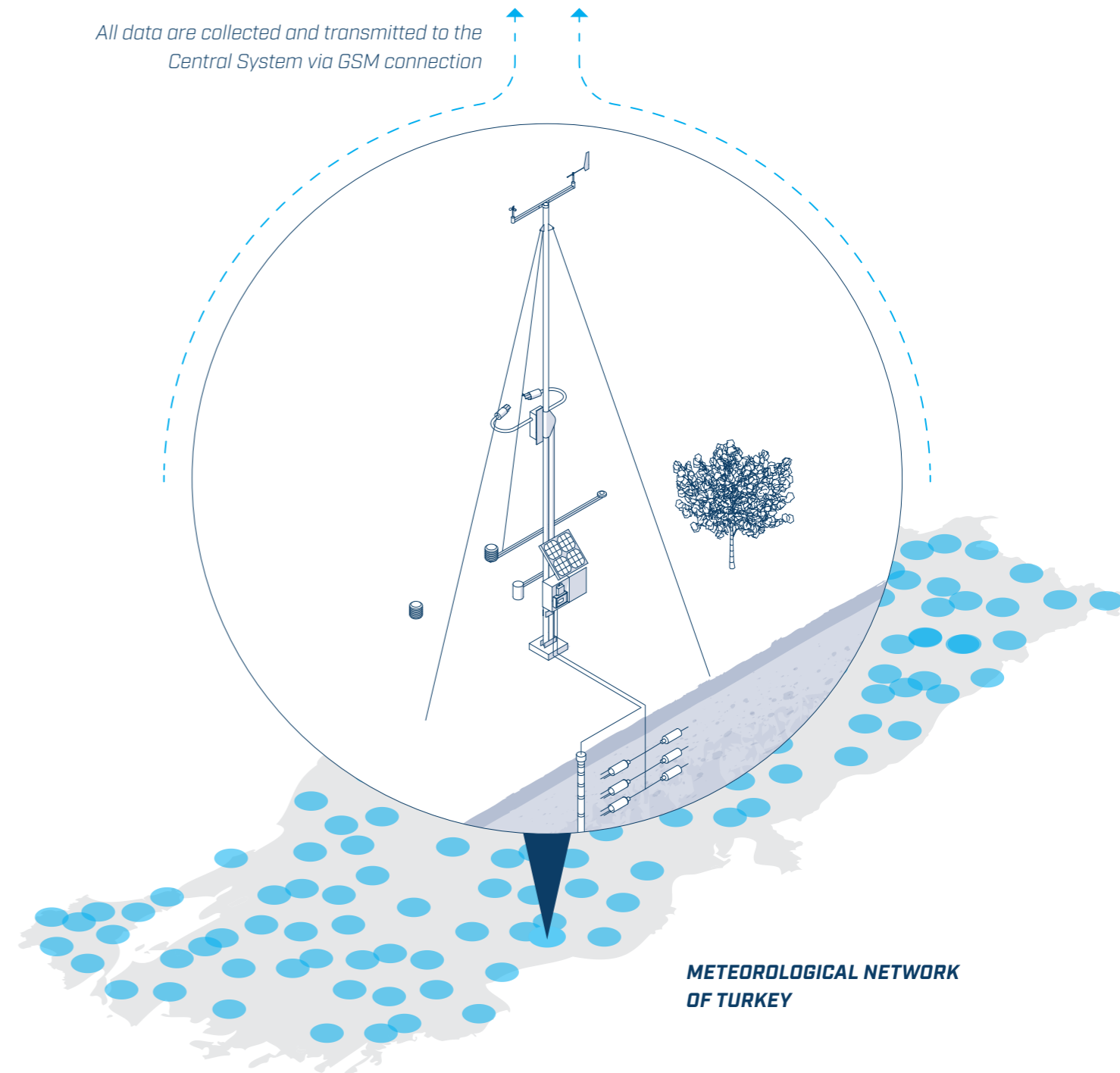
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CENTRAL SYSTEM

Unified Data Collection IMS4 UDCS
Climatological Database IMS4 EnviDB

All data are collected and transmitted to the Central System via GSM connection



METEOROLOGICAL NETWORK OF TURKEY

150+

talented and dedicated
professionals working
together

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