

Europe's 3rd generation of weather satellites

When fully deployed in 2026, the three satellites will provide 50 times more data than the current Meteosat second generation, allowing meteorologists to improve the accuracy of forecasts

METEOSAT THIRD GENERATION (MTG)

Three satellites in geostationary orbit,
36,000km above equator

Cost: €4.3bn

IMAGING SATELLITE 1

Flexible Combined Imager:

Scans full earth disc every
10 minutes in high resolution

Lightning imager:

Four cameras
record real-time
electrical discharges
for first time, improving
short-range storm
forecast

IMAGING SATELLITE 2

Second imaging
satellite provides
images of Europe
every 2.5 minutes

SOUNDING SATELLITE

Uses infrared to provide three-
dimensional profiles of atmosphere
over Europe, taking temperature and
humidity readings every 30 minutes

