Prof. Ari-Matti Harri
FMI – Finnish Meteorological Institute
(Courtesy of Eumetsat)

- EUMETSAT is focused on operational weather, climate, and environmental satellite services rather than space exploration.
- Members: 30 European countries
- Each country pays annual membership fee based on GDP
- Thus budget makes EUMETSAT substantially smaller than ESA
- 2024 budget 763 M (Member countries + EU programs)
- Finland: membership paid from FMI's budget (around 7 M)

EUMETSAT today : We observe weather from LEO, GEO and inclined orbits

www.eumetsat.int

Sentinel series

Low Earth orbit

Marine and atmospheric composition missions for Copernicus.

Sentinel-3A and -3B (98.7° incl.)

Sun-synchronous orbit.

Sentinel-6 Michael Freilich and its replacement, Sentinel-6B (66° incl.)

Non-synchronous orbit.

Jason-3 (66° incl.)

Low Earth, non-synchronous orbit

Global sea surface height observations.

Metop series

Low Earth, sun-synchronous orbit

Global observations for weather forecasting and climate monitoring.

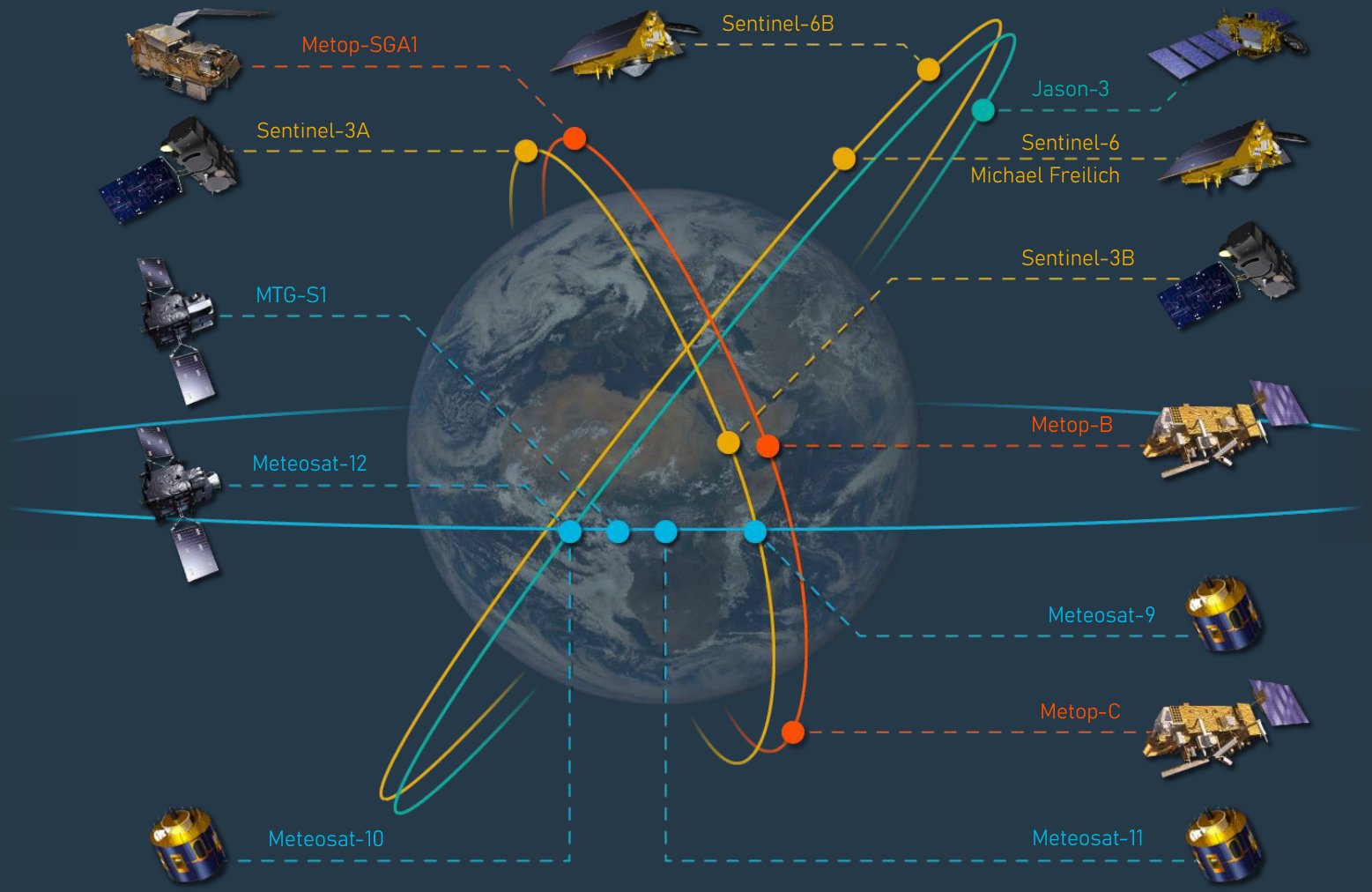
Metop First Generation

Metop-B and -C (98.7° incl.)

Metop Second Generation

Metop-SGA1 (98.7° incl.)

Carries six instruments, including Sentinel-5.



Meteosat series

Geostationary orbit

Imagery for weather forecasting and climate monitoring.

Meteosat Second Generation

Meteosat-9 (45.8° E)

Imagery over Indian Ocean (every 15 min).

Meteosat-10 (0°)

Imagery over Europe (every 5 min).

Meteosat-11 (9.5° E)

Imagery over Europe and North Africa (every 5 min).

Meteosat Third Generation

Meteosat-12 (0°)

Full-disc imagery (every 10 min).

MTG-S1 (3.4° W)

Air quality monitoring instruments, including Sentinel-4.

Recruitment at EUMETSAT

- EUMETSAT recruits on average ~50 staff vacancies per year
- Main areas of hiring are in engineering and science roles:
  - Science: Remote Sensing, User Services, Climate
  - Engineering: Data processing/big data, satellite system development and operations, infrastructure, satellite ground segment development and operations, IT/cybersecurity
- Many positions also available in areas of administration (finance, contracts/procurement, HR), international relations/communication and management support (controlling, quality assurance, programme support)

EUMETSAT R&D Call and ECMWF Special projects

Annual EUMETSAT Research & Development call closes each year on 30 June

- **Objectives on improving, development and using products in applications and using the cloud infrastructure** (more details here)
- Eligible for application for resources are Member States' public institutions, i.e., public services and academia
- Fast-track projects available anytime of the year for small projects
- The projects are expected to range from 50 to 100 vCPUs, 400-800 GB of RAM, 50-100 TB of storage and 4-8 vGPUs – **substantial resources for R&D**

ECMWF Special projects can also include EWC resources in their application, closes each year on 30 June

- The scope includes experiments or investigations of a scientific or technical nature, undertaken by one or more Member States, likely to be of interest to the general scientific community
- "Late request" possible after deadline

EUMETSAT PROJECTS (EUMITS - EUMETSAT ITT)

- EUMITS – Invitation to Tender System

  → eumits.eumetsat.int/

  → https://eumits.eumetsat.int/pub/pub_citt_list.jsf

- Includes Invitations to Tender (ITT) and Intended ITT (like ESA)
- Note: ESA develops new payloads and satellite concepts and pilot satellite missions
- EUMETSAT normally adopts what ESA has already developed (in cooperation with ESA) and arranges operational satellite-based services.
- Hence: join ESA development project teams, get to know ESA/EUM subcontractors and their network, and thus get easier access also to EUMETSAT projects.

Contracts with EUMETSAT projects

- EUMETSAT –projects' contracts similar as within ESA, with a distinctive difference: EUMETSAT does not have 'geographic return' -limit
- FMI represents Finland in the EUMETSAT decision structure – hence we may be able to help at some occasions
- Interpretation of Contractor / subcontractor agreements sometimes not straightforward
- EUMETSAT has nowadays Ombudsman, in a similar fashion as ESA

Some large contractors (sat primes)

- Airbus Defence and Space
- Thales Alenia Space
- OHB

Payloads, Instruments, Sensors, Payloads, Instruments, Sensors, Onboard computing etc

- GMV
- Leonardo
- Terma
- Beyond Gravity
- Indra
- Hensoldt
- Telespazio
- Tesat – Spacecom
- Cobham Satcom
- Sener aerospatial
- Atos
- Spire Global

Thank you
for your attention

EUMETSAT

Trusted in Space. Essential on Earth.