ESA Team & Contacts

- Paul BLYTHE  Programme Manager  (Estec x 3666)
- Francesca de la FELD  Contracts Officer  (Estec x 5195)

Other Key Personnel:
- Donny AMINOU  Payload Manager
- Emanuele NERI  System & Operations Manager
- Claudio GALEAZZI  Engineering & AIV Manager
- Dirk LAUWERS  Project Controller
- Hermann NORREN BROCK  PA Manager

- Sergio ROTA  EUMETSAT MTG Programme Manager
- Bill SEYMOUR  Head of EUMETSAT Contracts Division
The overall MTG Programme is undertaken in the frame of a cooperation agreement between ESA and EUMETSAT

- The **ESA MTG Programme** relates to;
  - the design, development and procurement of the MTG **Space segment** (plus associated ground support equipments) upto and including Level 1 Prototype Processors
  - a single procurement for all 6 satellites (4x MTG-I, 2x MTG-S), (recurrent satellites funded by EUMETSAT).

- The **EUMETSAT MTG Programme** includes;
  - the design, development and procurement of the MTG **System and Ground Infrastructure** required for:
    - Space segment monitoring, command and control
    - Meteorological data reception, data processing and dissemination to users
    - Routine operations of the MTG system for 20 years
Evolution of Geostationary meteorological programmes:

- **1977**: MOP
  - 1 observation mission: MVIRI: 3 channels
  - Spinning satellite

- **2002**: MSG
  - 2 observation missions:
    - SEVIRI: 12 channels
    - GERB
    - Spinning satellite

- **2017**: MTG
  - 5 observation missions
  - 2 satellite types
    - MTG-I (Imager)
    - MTG-S (IR Sounder)
  - Common 3-axis stabilised platform
Composition of MTG Missions

- **MTG Imaging Satellite (MTG-I)**
  - **Flexible Combined Imager (FCI);** fulfilling two missions
    - *Full disk High Spectral Imagery (FDHSI);*
      16 channels, 1-2km spatial sampling, full disc & 10 minute repeat cycle
    - *High Resolution Fast Imaging (HRFI);*
      4 channels, 0.5-1.0km spatial sampling, local area coverage & 2.5 – 5 minute repeat
  - **Lightning Imager (LI);**
    - detection of lightning events with spatial resolution of approx. 10km
  - **Other Payloads;**
    - Search & Rescue, Data Collection Service and Radiation Monitoring Unit

- **MTG Sounding Satellite (MTG-S)**
  - **Infrared Sounding Instrument (IRS)**
    - *High resolution spectral and spatial sampling in LWIR and MWIR*
      Wave number range; 680 – 2250cm⁻¹, channel interval ;0.625cm⁻¹, Spatial sample; 4km, Local area repeat cycle; 15mins
  - **Sentinel 4 (UVN) imaging instrument;** to support the ESA GMES programme
Typical MTG Satellite Deployment

MTG-I-1
MTG-I-2
MTG-I-3
MTG-I-4
MSG-4

20 years of Operational Service – Imaging Missions

MTG-S-1 with S4
MTG-S-2 with S4

15.5 years of Operational Service – Sounding Missions

2016 2018 2020 2022 2024 2026 2028 2030 2032 2034 2036 2038
Status of ESA Programme

Historical

- Phase A & Phase B1 completed in July 2009
- Competition and selection of Core Team for Phase B2, C/D and recurrent satellites held 2009-2010
- Core Team comprising TAS as Prime supported by OHB and Kayser Threde selected
- Formal Kick-Off of Phase B2 on November 18th 2010
- Core Team represents approx 40% of total Space Segment contract

  => 60% remains for Best Practice competition

Future

- Phase B2 scheduled to complete end 2011 with PDR
- **During Phase B2 > 80% of Best Practice Procurements** *(subcontractor selection must be completed)*
- Over 80 ITT actions expected covering more than 120 items
- Phase C/D; 2012 – 2017 (MTG-I)/ - 2018 (MTG-S)
Spanish Contribution to MTG Programme

• The Spanish Contribution to the ESA MTG Programme is 11.81%, which is equivalent to a target industrial return in the Space Segment (development programme only) of >100MEuros

• Selected contractors for ESA development programme will also benefit from contracts for recurrent satellites)

=> SIGNIFICANT SCOPE FOR SPANISH INDUSTRIAL ACTIVITIES

• The Spanish contribution to the EUMETSAT Programme is approximately 7.6% (but EUMETSAT procurements not subject to formal GEO return constraints)
Points to Note in Industrial Presentations

• Much information is provided in the upcoming industrial presentations but please note the following;
  – The final breakdown, content and timing of ITTs may be subject to change
  – Some evolution of issuing company may occur
  – As a general rule ITTs will NOT contain target prices
  – As GEO return distribution develops it may be necessary to introduce a level of Geographical constraints into the ITTs
BEST PRACTICE PROCUREMENT

THE PROCESS