# **MTG Programme Status**





#### **MTG Overall Status**

- Satellite Critical Path
  - MTG-I
    - FCI stray light issues have been well characterised
    - Modifications made on board and in on ground algorithms
    - FCI Qualification Review ongoing
    - Satellite Intermediate Qualification Checkpoint Apr-July 2021
    - Launch now foreseen end 2022
    - Ariane 5 launch vehicle
  - MTG-S
    - Satellite CDR held in 2020, with a closeout in Q2
    - MTG-S1 launch planned for end 2023 (1 year separation may evolve as MTG-I launch preparation may take priority)
    - S4 checkpoint in March 2021
    - Likely to be Ariane 6 (maiden flight of A62 postponed to mid 22, dual configuration A64 likely to follow in 2023)
- LEOP services
  - LEOP Ground Segment Preliminary Acceptance Review performed



### MTG Status Report – Ground Segment

- Ground stations in maintenance, used for IV&V, MDAF capacity increase project kicked off
- Mission Operations Facility
  - Version V1.0 accepted, available for SVT-I1-v2 test with MTG-I1; running on MICONYS 7
  - Subsequent versions add functionality, securing launch readiness
  - V1.1 will deliver the multi domain functionality (-I1+S1...) late 2021
- IDPF-I
  - Version V3 (Upfront) delivered and will be used for testing with the SAFs
  - Version V4 comes in two deliveries in 2021 for FCI and LI
  - V4 is aimed at readiness for launch, complying with latest Data Handling ICD, timeliness and product quality
  - V4 should be robust, even if timeliness cannot be fully met
- IDPF-S
  - V1 for IRS and UVN first deliveries expected in Summer 2021
- L2PF V2.4 used for system IV&V
- L2PF Development shows clear progress with well-structured approach, although there are still several challenges on timeliness, algorithms implementation



### MTG Status Report – System IVV and Ops Prep

#### System IV&V

- IV&V of MTG-I system version V0.7 concluded in Q3 but with some key objectives not met
- Checkpoint in February 2021 to assess progress, particularly on Data Processing chain and Full System
- Space to ground chain in good shape
- M&C chain well exercised through SVTs
- Data Processing chain has FCI and LI L0 generation stable, FCI L1 stable for some hours, with some archiving in place

### Operations Preparation

 Preparations for SVT-I1-v2 test with the hybrid-PFM: March 2021 including such key aspects as maneuvers and safe mode as well as key instrument activities



### **System Management -Reviews**

- In 2021 we have two major reviews planned
- The System (and GS) CDR for the Sounder mission will take place July-Sep 2021
  - This is a delta review compared to the MTG System CDR-I, focussing on sounder specifics – for IRS and S4
- The Operational Scenarios Validation Readiness Review (OSVRR-I) for the will be held Oct-Dec 2021
  - Assesses the completion status of the AIV and Ops Prep activities
  - It gives the go ahead for the Operational Scenario Validation (OSV).



## System Management – LI Commissioning

- A compromise has been reached with ESA on commissioning for the LI.
- The instrument is contractually to be commissioned against engineering pulses.
- EUMETSAT will use ground based networks for commissioning
- ESA have agreed to take into account gross anomalies with Industry (Leonardo)
- The possibility remains to ask for additional support / investigation should longer term investigation or tuning be required

