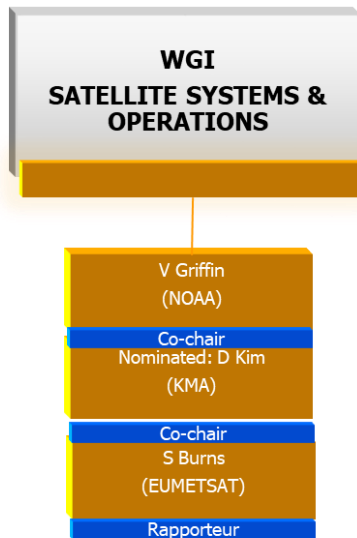


## CGMS-49 Report from WGI

CGMS-49 plenary, agenda item 4

# ROLES of CGMS WORKING GROUP I



- Global **frequency coordination**
- **Interoperability and standardisation** in view of technological evolution
- Preparation of **satellite and ground systems/operations/architecture** for future satellite generations
- Specific Task Groups set-up to look at specific areas in detail, with the aim of producing best practices, standards, future architectures and systems

## WGI Task Groups:

- Task Group on Direct Broadcast Systems
- Task Group on Space Debris and Collision Avoidance
- Task Group on the Coordination of LEO Orbits
- Task Group on Data Collection Services
- Task Group on RFI detection, monitoring and mapping

# WGI main outcomes and future work (1/4)

- **Frequency management, initial preparations for WRC23.** SFCG and WMO are, on a yearly basis defining and refining their positions for WRC-23 and provide CGMS with the latest status. relevant WRC-23 issues have been added in the HLPP.
- Practically WGI are setting up a Task Group to look mechanisms for detection and long-term monitoring of and mapping of RFI initially assessing the impact on the passive sensor measurements (for example, but not limited to, from IMT-2020/5G into the 24 GHz passive band) at satellite or instrument level, or any other means, as the knowledge base for assessing the impact on the passive sensor measurements.

# WGI main outcomes and future work (2/4)

- WGI reviewed the implementation of CGMS agency best practices in support to local and regional processing of LEO direct broadcast data covering NOAA, EUM, CMA.
- The Direct Broadcast Systems Task Group will perform a Strengths, Weaknesses, Opportunities, and Threats (SWOT) analysis on low latency access to LEO meteorological spacecraft and present the results at CGMS-50 – the aim is to give guidance to members on systems that could be used in the future, beyond the current generations of satellites

# WGI main outcomes and future work (3/4)

- On **Data Collection Systems**, the Data Collection Services Task Group is working on a new/updated IDCS standard – which is a global standard, to allow the interoperability of systems and services. The DCS subgroup proposed a simplified approach to enhance an existing standard, rather than a completely new standard, taking into account user feedback and requirements.
- The Group will also perform a SWOT analysis on the Geostationary Meteorological satellites Data Collection Services as a basis to provide CGMS with a coordinated view on a proposed future of the service and report the outcome to CGMS-50.

# WGI main outcomes and future work (4/4)

- WGI reviewed the progress in the area of the development and operations of LEO Satellite Systems with coordinated orbital phasing. The Task Group on the Coordination of LEO Orbits will perform a broad SWOT analysis for maximising the return / minimising the cost taking into account new mission and reference mission concepts and associated technologies, highlighting the potential for inter-Agency cooperation.
- WGI is discussed the need for the Task Team Space Debris and Collision Avoidance and the Group agreed on the value of creating such a group and working toward a Best Practice on Collision Avoidance

# Items for Plenary

- The HLPP was updated following review of WGI related matters. The revised HLPP will be presented to plenary for endorsement.
- Dr. Dohyeong Kim from KMA was nominated to Plenary as the Co-Chair of WGI