

# Implementation of Sustainable Maintenance Scheme for OSCAR/Space Database

WEATHER CLIMATE WATER  
TEMPS CLIMAT EAU



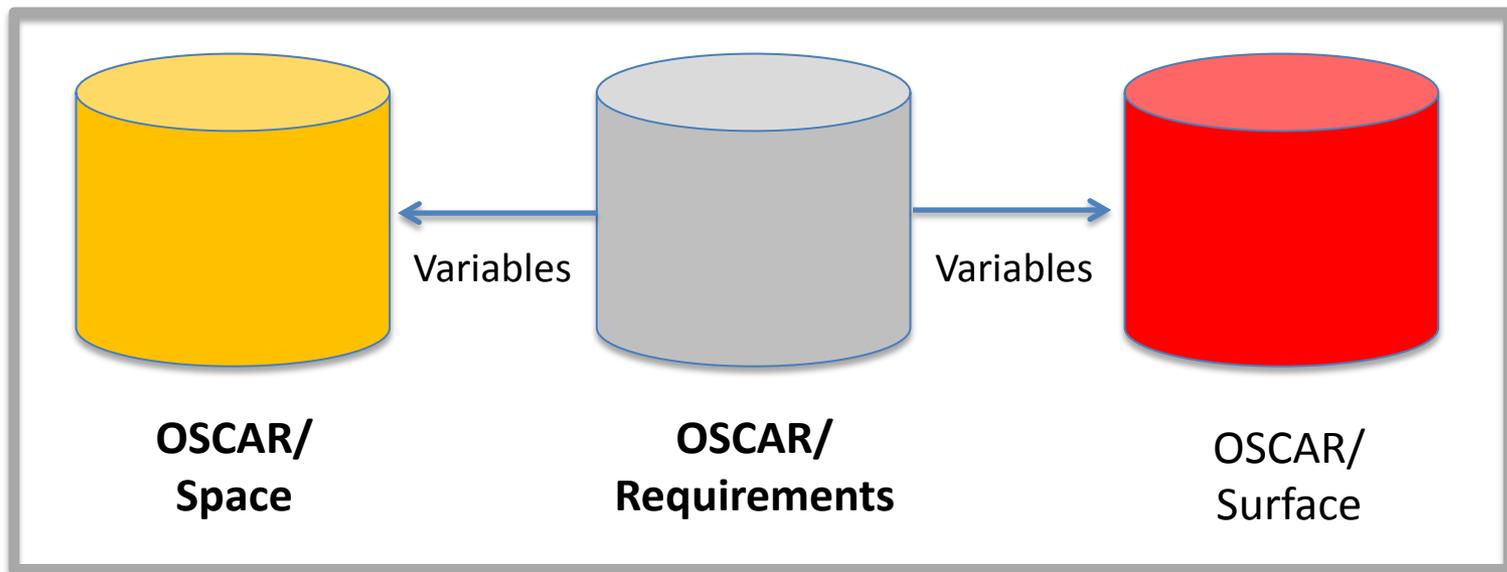
**WMO OMM**

World Meteorological Organization  
Organisation météorologique mondiale

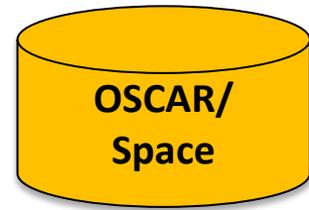
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***WMO Space Programme***

# WMO Observing System Capability Analysis and Review tool (OSCAR)

- WMO-maintained online resource with 3 components:
  - **OSCAR/Space**: satellite programmes, instruments, and the variables they can observe
  - **OSCAR/Surface**: surface-based stations/platforms under WIGOS
  - **OSCAR/Requirements**: observation requirements for 14 “application areas” and for all relevant variables



# Enhancement in OSCAR/Space



## 1. Factual information on satellites and instruments (*“capabilities”*)

- 81 agencies
- 673 satellites
- 949 instruments

## 2. Assessment of instruments, and gap analyses (*“analysis and review”*)

- Mapping instruments to measured variables
- “Gap analysis” by measured variable, or by type of mission
- The built-in Expert system will infer the prioritized results



# Maintenance and Support: Outlook

**Two main tasks for OSCAR/Space:**

**(1) Updating facts**

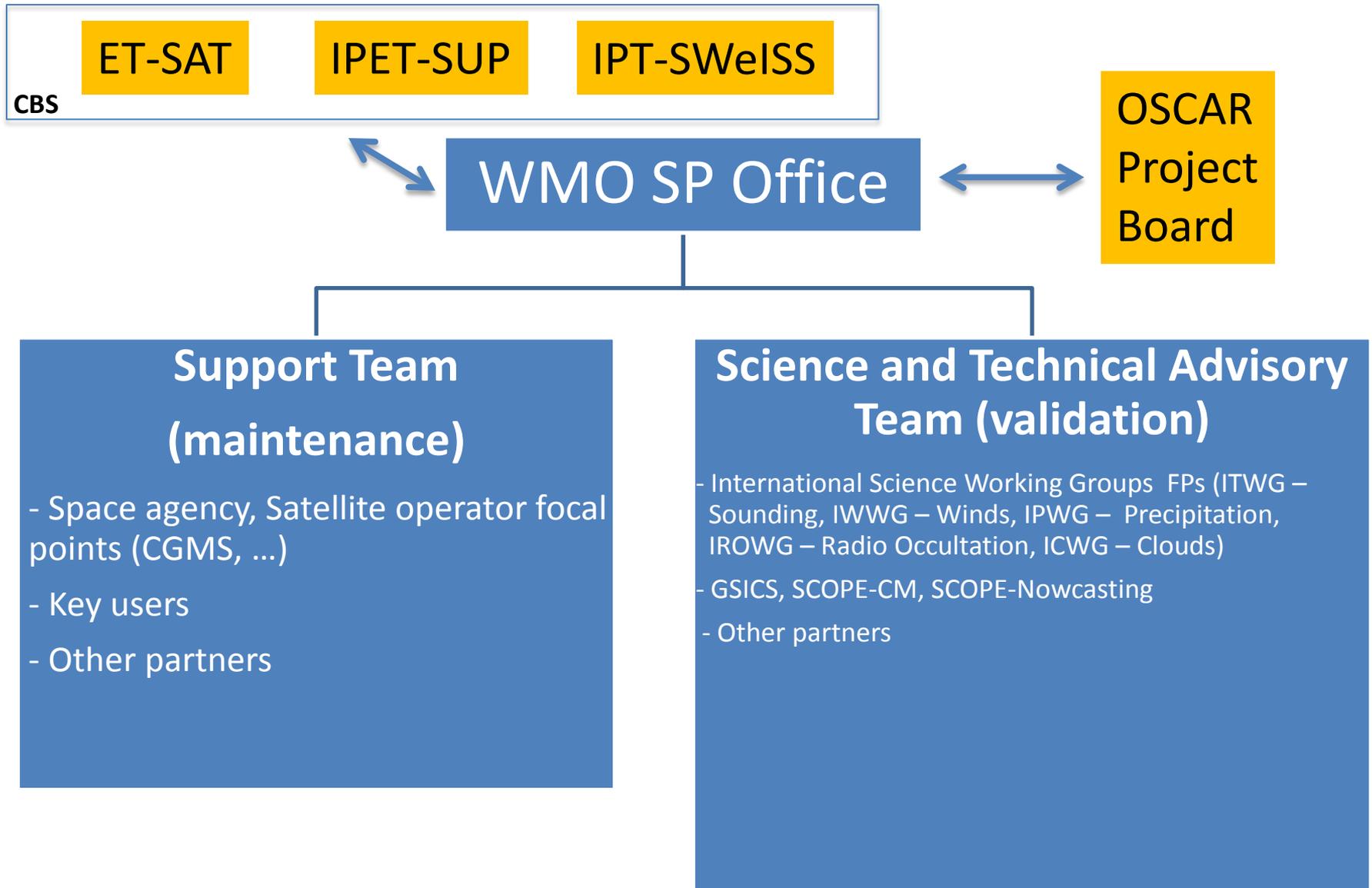
**(2) Keep under review assessments, functions, rules, interfaces**

Under supervision of WMO CBS expert teams, e.g. ET-SAT, IPET-SUP, IPT-SWElSS, and consistent with overall OSCAR development (with OSCAR/Surface and OSCAR/Requirement)

**WMO Space Programme office plans to establish:**

- OSCAR/Space Support Team (for task 1)**
- OSCAR/Space Science and Technical Advisory Team (task 2)**

# Maintenance and Support Concept for OSCAR/Space v2.0



# Terms of Reference for the OSCAR/Space Support Team

- The O/SST is composed of nominated experts from CGMS operators and observers from other satellite operators. Representatives nominated by ET-SAT and IPET-SUP (e.g. from NMS) can also be members of this group.
- The ideal candidates would come from the relevant user service and information sections of these agencies.
- The tasks of the members include:
- To regularly (half-yearly) confirm that the factual satellite and instrument information contained in OSCAR/Space concerning their own satellites and instruments is up to date.
- On the occasion of newly launched satellites, to provide the initial program and mission information to WMO Space Programme office, making use of the WMO provided templates.
- On the occasion of satellite/instrument anomalies to report updated information to the WMO Space program OSCAR administrator as soon as possible.
- To elect a chair person from the O/SST who is helping the WMO Space Programme office to timely resolve administrative enhancement and correction activities for the OSCAR/Space database.



# Terms of Reference for the OSCAR/Space Science and Administration Team

- The O/SSAT will be mainly composed by nominated members of the CGMS science groups (ITWG, IWWG, IPWG, IROWG, ICWG) and other relevant scientific satellite groups (GSICS, Scope-CM, Scope-Nowcasting). The members will be nominated by the relevant science groups and endorsed by CGMS.
- The tasks of the members include:
- To help the WMO Space Programme office to review the scientific content of the OSCAR/Space expert system by analysing the underlying rules for missions and instruments.
- To elect a chair person from the O/SSAT who is helping the WMO Space Programme office to define and organise the review process for the OSCAR/Space expert system.
- To analyse the results of the review process and to consolidate the outcome of the review.
- To approve the enhancement of the OSCCAR/Space science content. This is done through the chair person in conjunction with the WMO Space Programme office.
- Assist in the definition and organisation of workshops for discussing issues of enhancement of OSCAR/Space functionalities and content.



# Concluding Remarks

- OSCAR/Space is a reference community resource on satellite programmes, instruments, and the variables they can observe
- New version 2.0 is now available
- Encompassing satellites for Earth Observation, i.e. weather, climate, hydrology and ocean
- Space weather part under development
- Transparent gap analyses and assessments (rules to be kept under review)
- WMO needs user feedback, for further improvements
- **Implementation of sustainable maintenance scheme:**  
**WMO will need community engagement for supporting and advising on OSCAR/Space**
- Establishment of the maintenance and support structure underway



# OSCAR/Space Users' Workshop

in EUMETSAT Met Sat Conference in Rome

14-17pm, Wednesday, 4 October 2017

- To invite 'success story' in the usage of OSCAR/Space on business including research work
- To invite participants from a wide variety of users in the Workshop



# References

- OSCAR/Surface: <http://oscar.wmo.int/surface>
- OSCAR/Requirements: <https://www.wmo-sat.info/oscar/observingrequirements>
- WMO Space Programme: <http://www.wmo.int/sat>
- [WMO Vision for the Global Observing System in 2025](#)

