



THE SPACE-BASED GLOBAL OBSERVING SYSTEM IN 2011 (GOS-2011)

Presented by B. Bizzarri on appointment by WMO

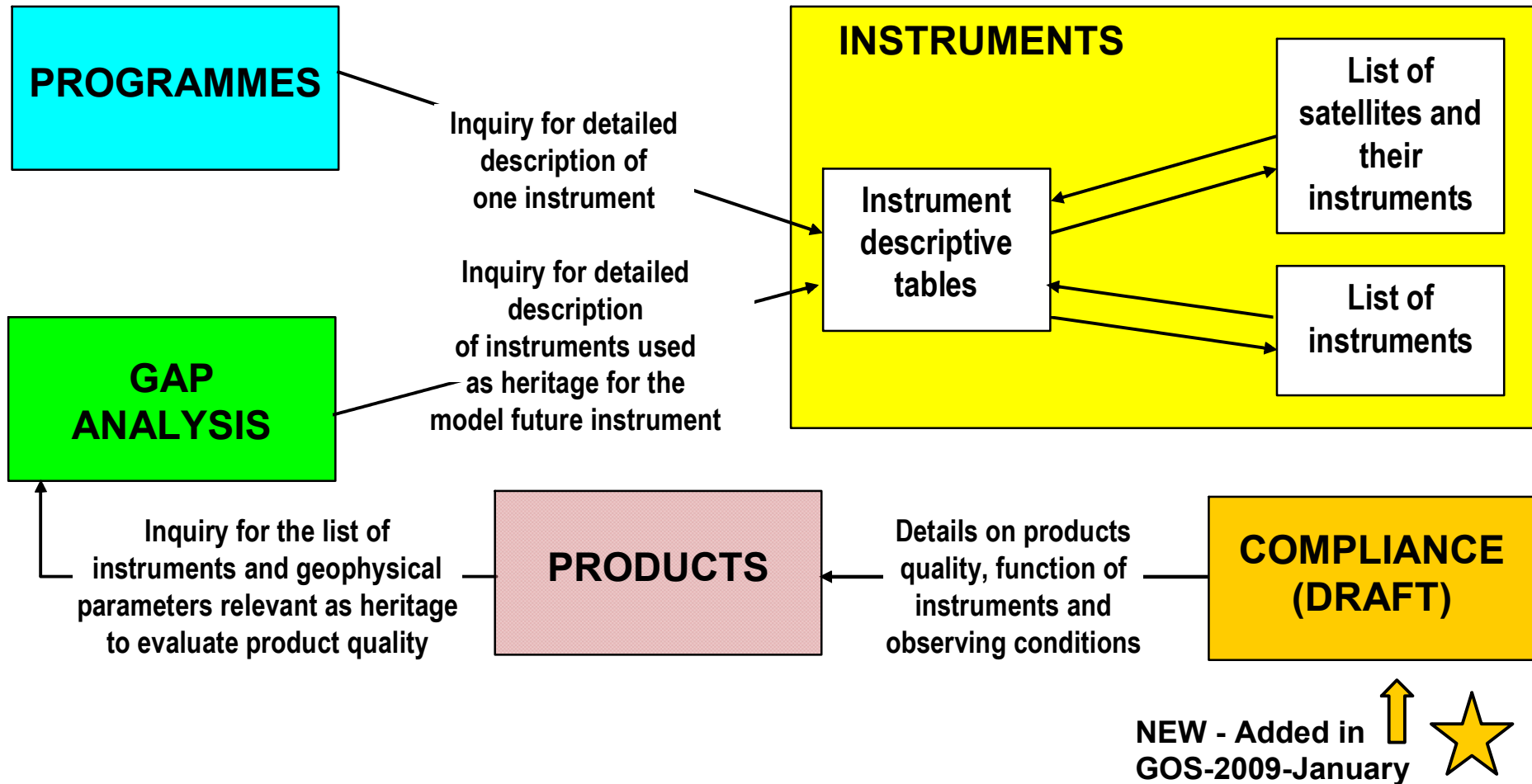
Split in 5 volumes, connected by hyperlinks:

- **Vol. 1 - Satellite Programme Description.**
- **Vol. 2 - Earth observation satellites and their instruments.**
- **Vol. 3 - Gap analysis in the space-based component of GOS.**
- **Vol. 4 - Estimated performance of products from typical satellite instruments.**
- **Vol. 5 - Compliance analysis of potential product performances with user requirements.**

Current version: GOS-2011-January;

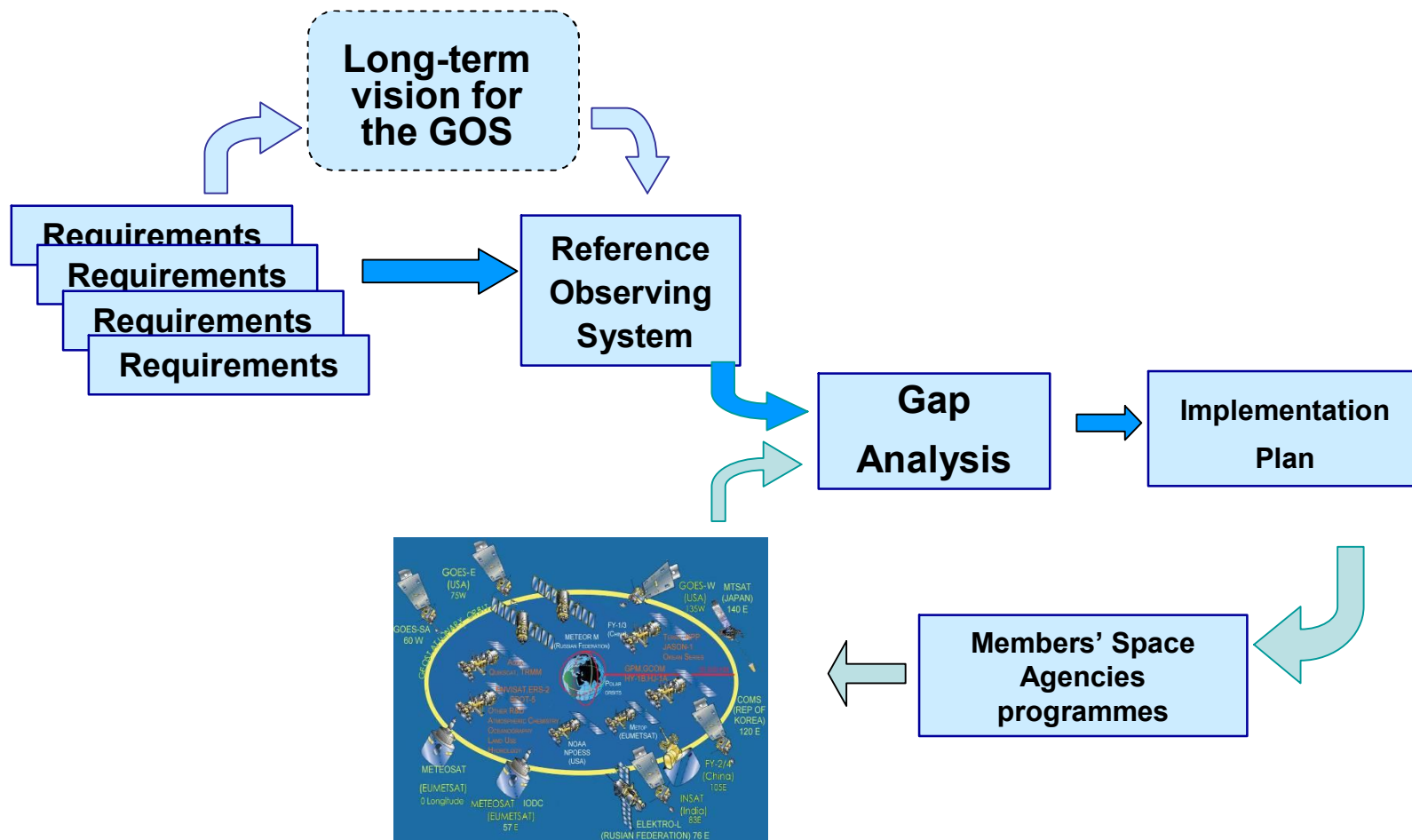
Next versions: GOS-2011-June; GOS-2011-October.

HYPERLINKS BETWEEN THE FIVE VOLUMES OF THE GOS DOSSIER



Recommendation CGMS-36.02

WMO to continue to keep the Dossier on the Space-based Global Observing System under review by the relevant groups of experts of WMO Members (e.g. the CBS/OPAG-**IOS *Expert Teams on Satellite Systems*** and on Satellite Utilization and Products).



On going developments with the Dossier

Migration to a Database to facilitate updating

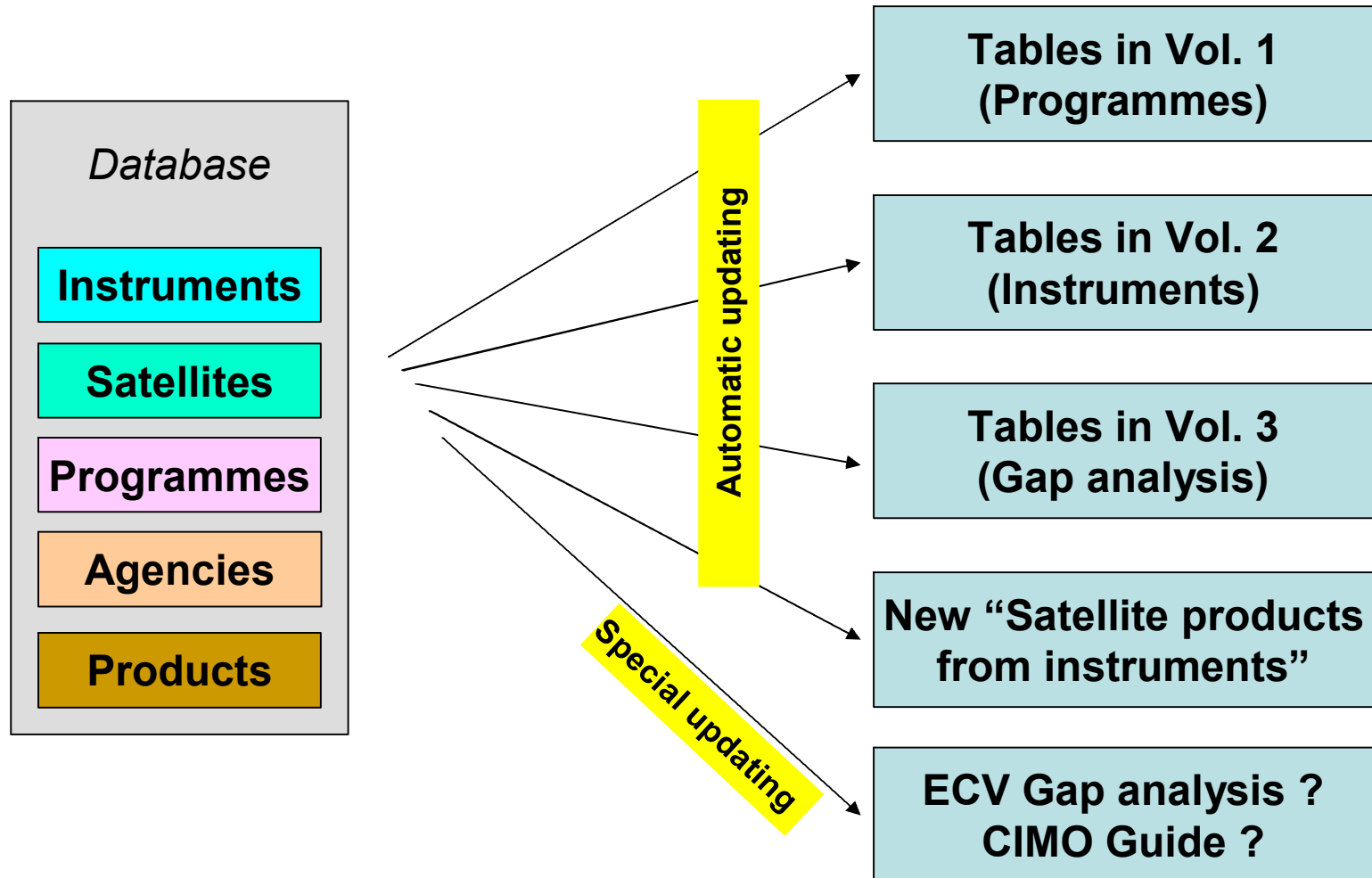
Use of the Dossier to support to:

- the ECV Gap analysis (see ET-SAT-6 item 6.4)
- the updated CIMO Guide (see ET-SAT-6 item 8.1)
- a proposed new document “Satellite products from instruments”.

Planned change of structure of Vol. 1 (Satellite programmes).

Migration to a Database to facilitate updating

Inclusive of historical information since 1° April 1960 (TIROS-1)



Satellite products from instruments (contribution to CEOS EO Handbook)

		PRODUCTS (currently 112)		
		Product n-1	Product n	Product n+1
INSTRUMENTS (currently 330)	Instrument m+1			
	Instrument m		Qualifications on: 1) instrument maturity 2) operational limitations 3) relevance of the instrument for the geophysical variable 4) processing maturity	
	Instrument m-1			

Planned change of structure of Vol. 1 (Satellite programmes)

The current structure of Vol. 1 (Programmes) is:

- by programmes, limited to operational meteorology (from GEO and LEO);
- by space agency for all other programmes.

In the CIMO Guide (see ET-SAT-6 item 8.1) a new structure has been used, designed by application areas:

- Operational meteorological satellites: Satellite constellation in geostationary orbits, Satellite constellation in sunsynchronous orbits.
- Specialized atmospheric missions: for Precipitation, Radio occultation, Atmospheric radiation, Atmospheric chemistry, Atmospheric dynamics.
- Missions to ocean and ice: for Ocean topography, Ocean colour, Sea surface wind, Sea surface salinity, Waves.
- Land observation missions: Main operational or near operational missions, Disaster Monitoring Constellation, All-weather high resolution monitoring (by SAR).
- Missions to Solid Earth: Space geodesy, Earth's interior.
- Missions to Space Weather: Solar activity monitoring, Observation of the magnetosphere, Observation of the ionosphere, Space environment observation from operational meteorological satellites.

This new structure, that helps appreciating linkages within application areas, will possibly be implemented with GOS-2011-October, to be presented at CGMS-39.

Conclusion

ET-SAT Members are invited to:

- note the availability of the January 2011 update of the Dossier;
- note the ongoing developments, and provide comments as appropriate;
- continue providing the WMO Secretariat with systematic updates of their programmes for inclusion in the Dossier.

It is reminded that the latest version of the GOS Dossier is available from:

<ftp://ftp.wmo.int/Documents/PublicWeb/sat/DossierGOS>