



World Meteorological Organization

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# WMO Satellite Data Dissemination Strategy

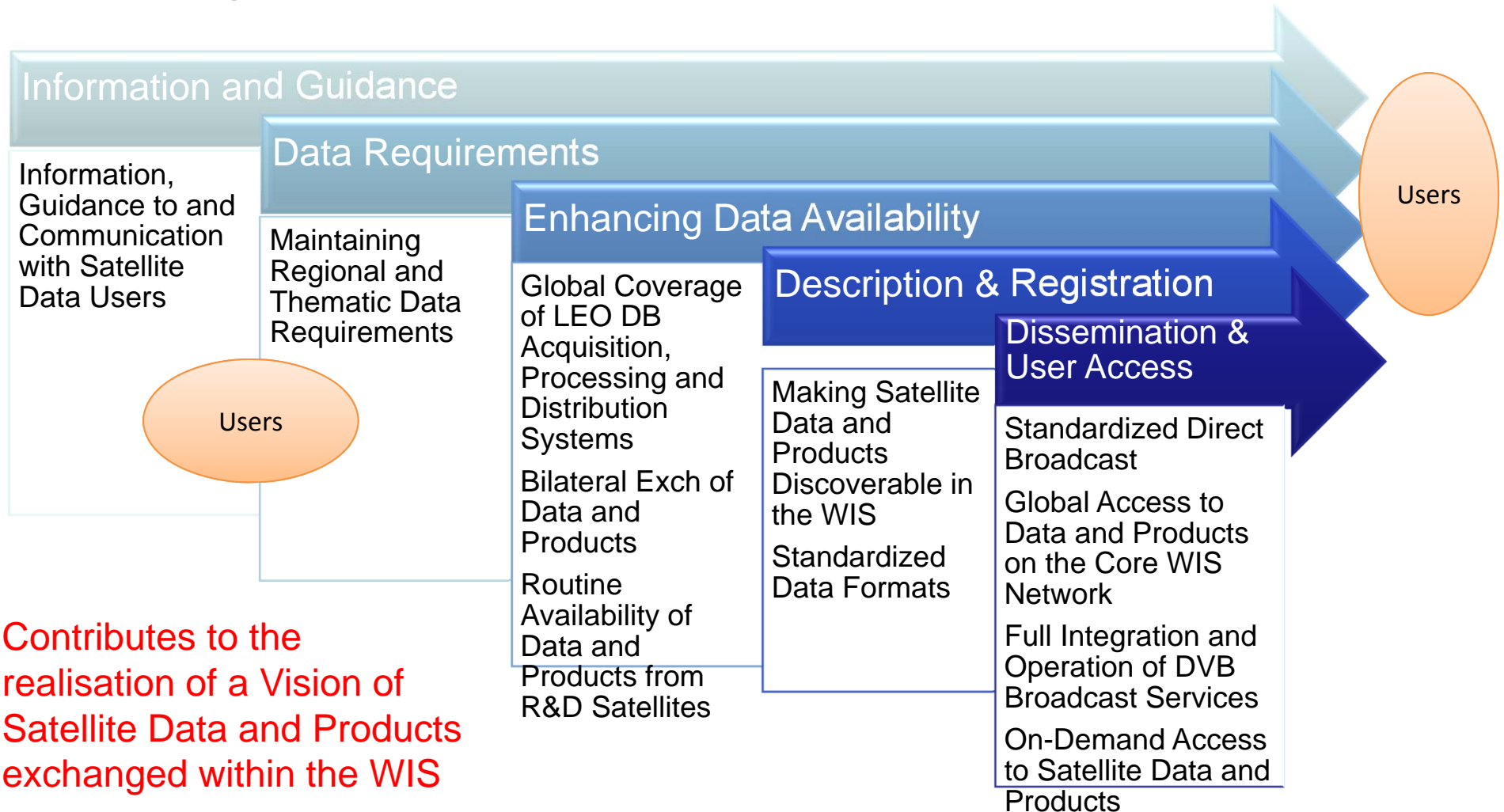
Strategy indicators

IPET-SUP-2, Agenda Item 5.1

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[www.wmo.int/sat](http://www.wmo.int/sat)

# 11 targets of WMO Satellite Data Dissemination Strategy



Contributes to the realisation of a Vision of Satellite Data and Products exchanged within the WIS



# Indicators for SDDS implementation

- Quantitative indicators are needed to
  - Demonstrate progress in the implementation
  - Show problem areas and support the identification of mitigating actions
- Indicators should
  - Represent Critical Success Indicators for SDDS
  - Cover all 5 main strategic areas of strategy
  - Be produced with reasonable amount of effort on a sustained basis



# Strategy indicators: Information and Guidance

- Usage stats and user feedback for WMO information resources
  - Usage stats are collected by WMO SP for all information resources
  - Specific questions are included in the new WMO User Survey, and will allow generation of quantitative indicators on awareness and use of each online information resource



# Strategy indicators: Data Requirements

- Availability of agreed Data Requirements documents
  - For each Regional Association and for globally defined thematic areas, addressing needs of WMO Programmes
  - Regional requirements documents
    - Available for RA-III/IV and RA-I
    - RA-V is in progress, RA-VI covered by EUMETSAT process
  - GODEX-NWP maintains data requirements document for NWP, last revision Oct 2015



# Strategy indicators: Enhancing Data Availability

- Coverage of DBNet
  - Coverage statistics provided by WMO Space programme, see [Implementation Status](#)
  - Indicators will be extended to cover the emerging services and will be kept up-to-date by DBNet CG



# Strategy indicators: Dissemination and User Access:

- Standardized LEO Direct Broadcast

Satellite	L1 preprocessor	Space-to-ground interface specification
Suomi-NPP JPSS	Yes, for ATMS, CrIS and VIIRS	Yes
Metop	Yes, for AVHRR, AMSU, HIRS, IASI	Yes
FY-3	Yes, for MWTS, MWHS, MERSI	Yes, but only for in-flight satellites
Meteor	No	Yes



# Strategy indicators: Dissemination and User Access

- Availability of DVB service, compliant with Regional data requirements

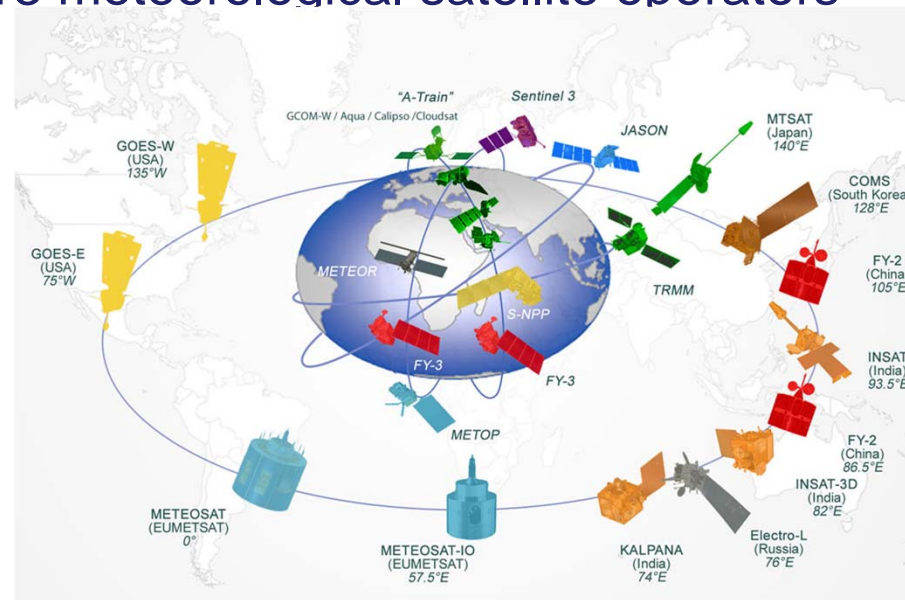
RA	DVB service	Compliance	WIS integration
I	EUMETCast-Africa	Yes, with RAIDEG requirements	Full
II	CMACast	No regional requirements exist	Full
III-IV	GEONETCast-Ame EUMETCast-Ame	Partial compliance with CGSDR reqs	Only EUMETCast-Am
V	HimawariCast	No regional requirements exist	No
VI	EUMETCast-Europe	Yes, with EUMESA	





# Strategy indicators: Dissemination and User Access

- CGMS: 13 meteorological satellite operators



- Less challenging than monitoring data provided by 191 Members
- However, no systematic global monitoring of satellite data availability and quality
- Global NWP centres perform some monitoring
- Briefings to IPET-SUP-1 by NOAA, ECMWF



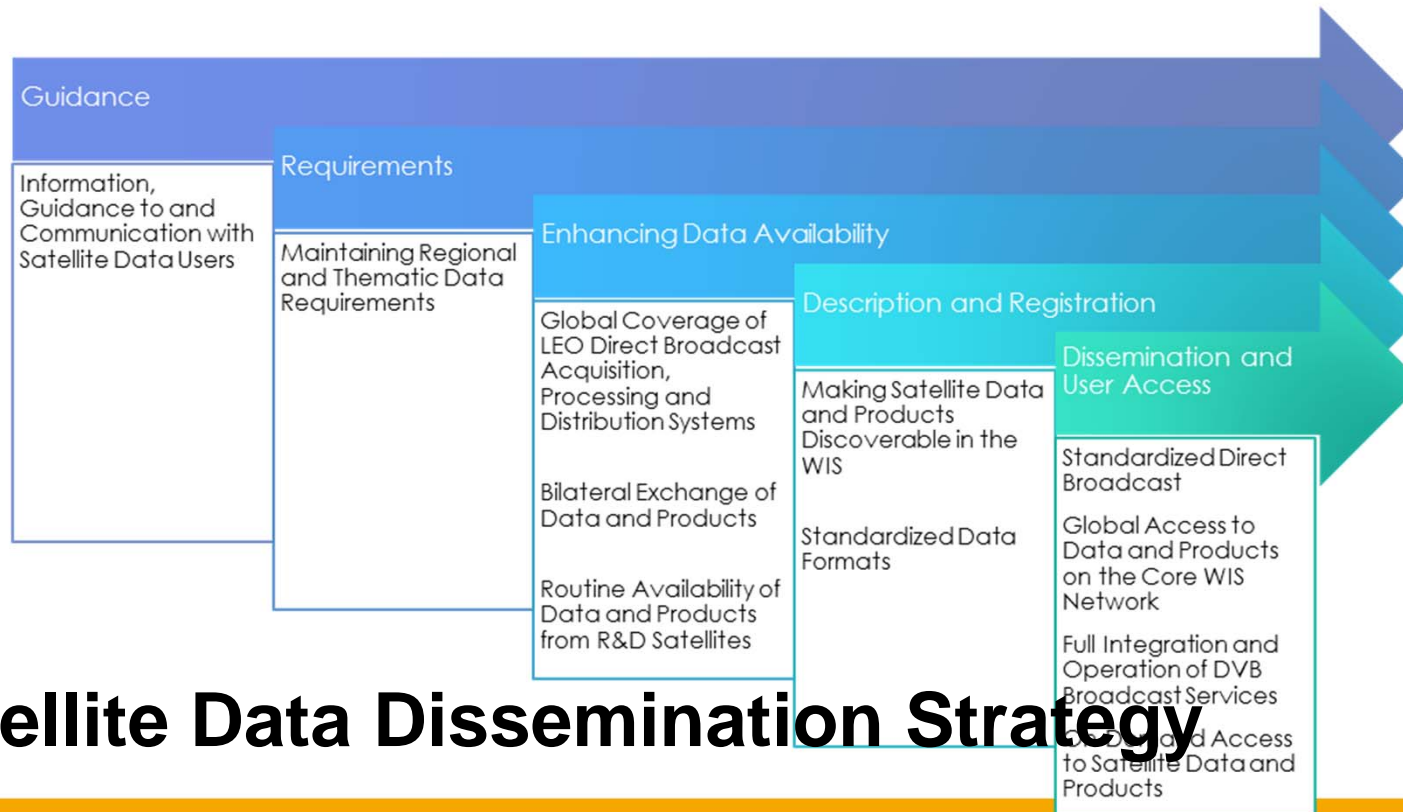
## Critical Success Indicators for WIS Implementation have been agreed by CBS

- ***Before any member organisation or WMO programme can begin to utilise WIS they need access to:***
  - *An operational catalogue for registering and discovering WMO data, products and services accessible to WMO Programmes and Members;*
  - *A well defined metadata standard for registering and discovering WMO data, products and services;*
  - *Existing GTS data and products to be registered in the catalogue;*
  - *Availability of metadata entry and search tools usable by Members so they can enter their own data, products and services;*
  - *Sufficient information returned from the catalogue discovery to be able to retrieve or access a service to retrieve the data, products and services registered in the catalogue.*
- ***However we do not have the tools to demonstrate this for satellite data and products!***



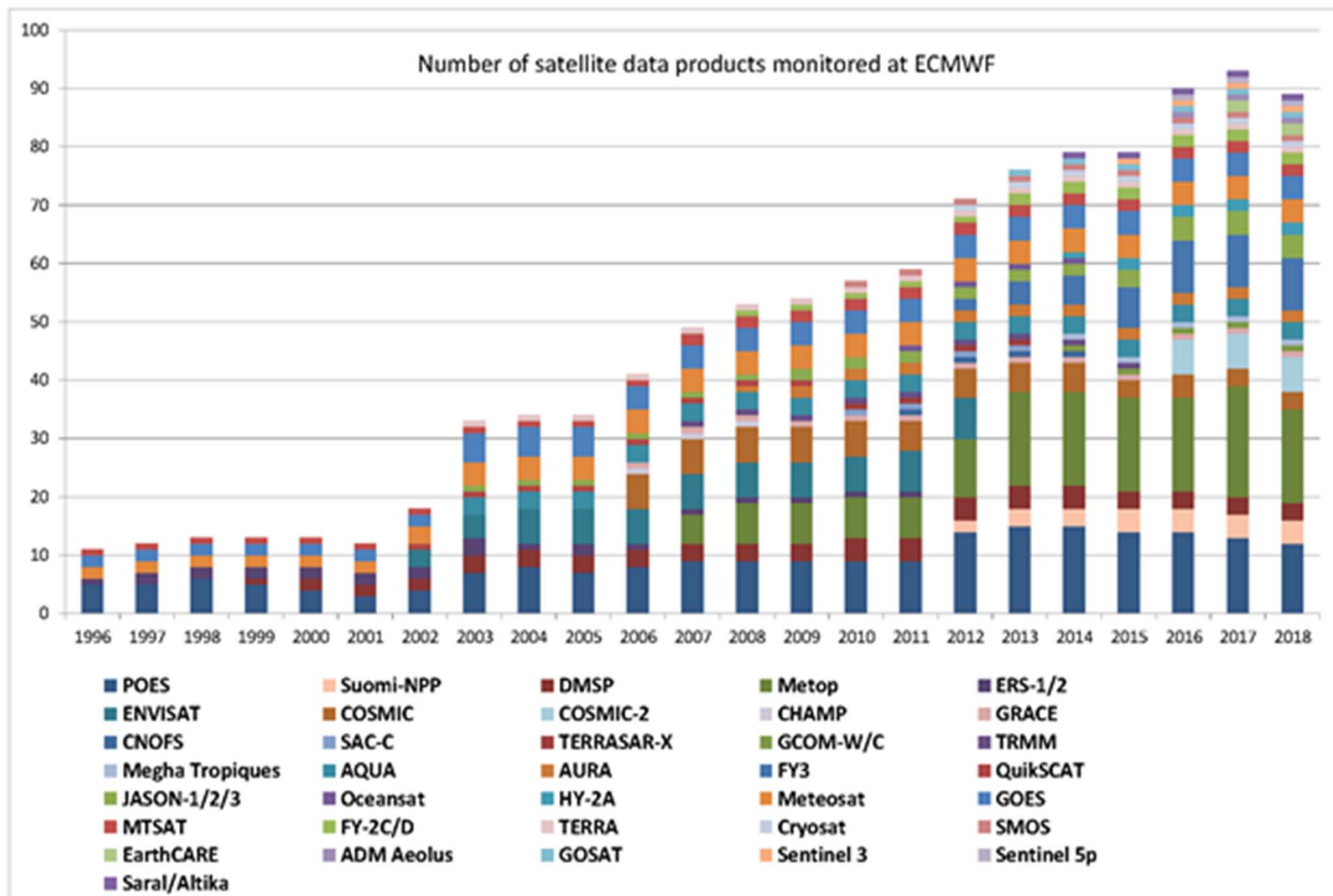
# Satellite Data Exchange and Availability

- Some satellite data exchanged over GTS
- Many other routes (e.g., EUMETCast, Direct broadcast)
- Standards under development to eventually enable WIS monitoring
- But this will take years



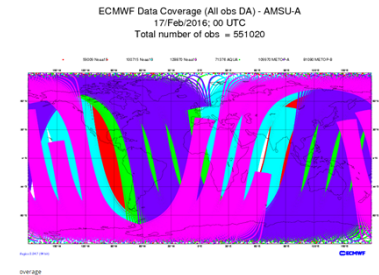
## Satellite Data Dissemination Strategy





# Could global NWP monitoring results be used to regularly inform WMO and its community?

- Synthesis of ECMWF monitoring reports, e.g.:
  - monthly
  - one-page high-level summary
  - summary report for each satellite instrument (% availability, quality indicator, ...)
- Based on data checking messages from ECMWF met operations centre (12-hourly)
- Audience: WMO Members, satellite data users, international science working groups (sounding, precipitation, radio occultation, winds, clouds), ...



# Strategy indicators: Dissemination and User Access

- End-to-end indicators on satellite data availability with WMO members
  - Specific questions included in new WMO User Survey will allow the derivation of quantitative indicators regarding end user availability of satellite data and products



# SDDS Strategy Indicators

- WMO SP will continue the development of strategy indicators, and report progress to IPET-SUP





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Thank you for your attention

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