



Evolution of the EUMETSAT SAF Network

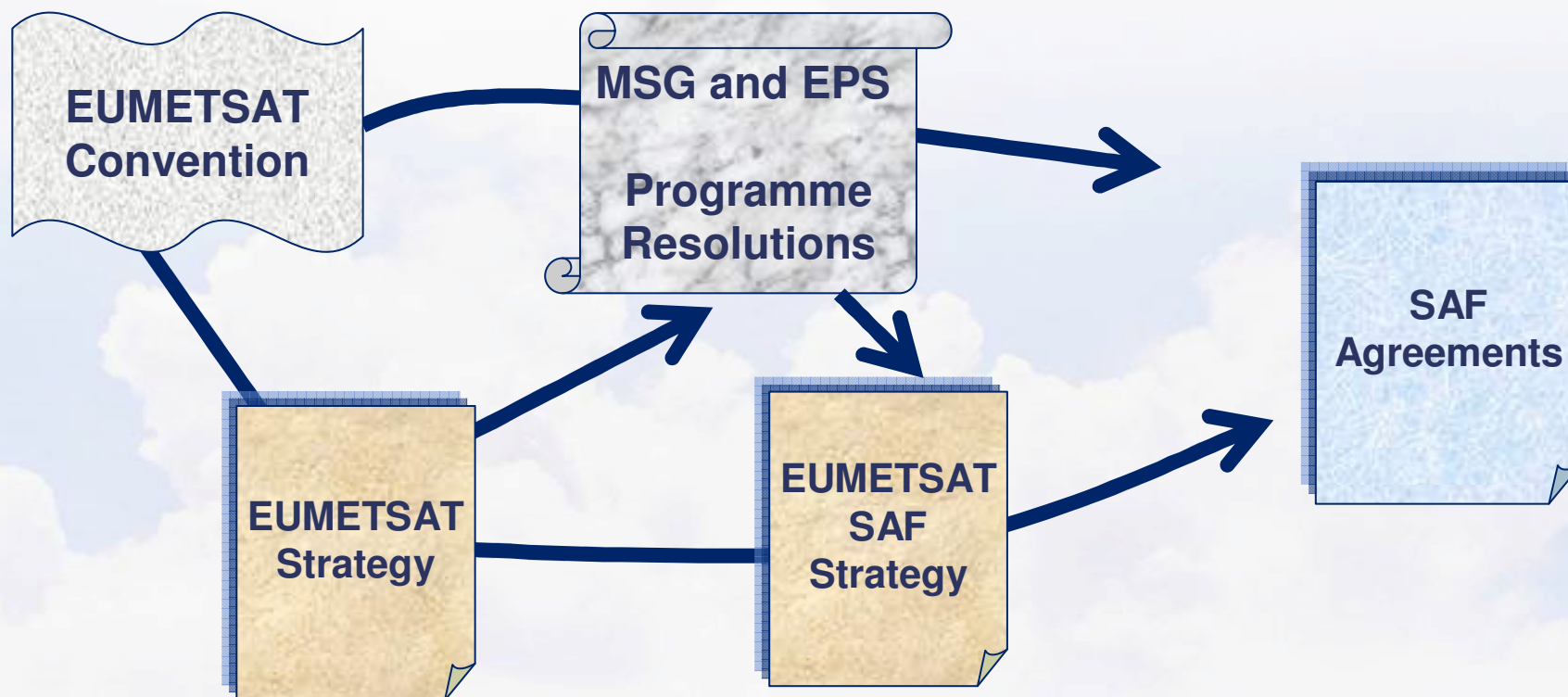
Lorenzo Sarlo



The EUMETSAT
SAF Network

- SAF Network Consolidated Role and Assets
- An Evolutionary Vision
- Relevance of the Land Surface Analysis SAF

SAF Network Consolidated Role and Assets



The SAF Concept is embedded in the EUMETSAT Strategy and its implementation into the EUMETSAT Mandatory Programmes

SAF Network Consolidated Role and Assets



1

To undertake, on a distributed basis, the necessary R&D and operational services aimed at enhancing the value and use of data for applications, which are a common need of EUMETSAT Member States and Cooperating States

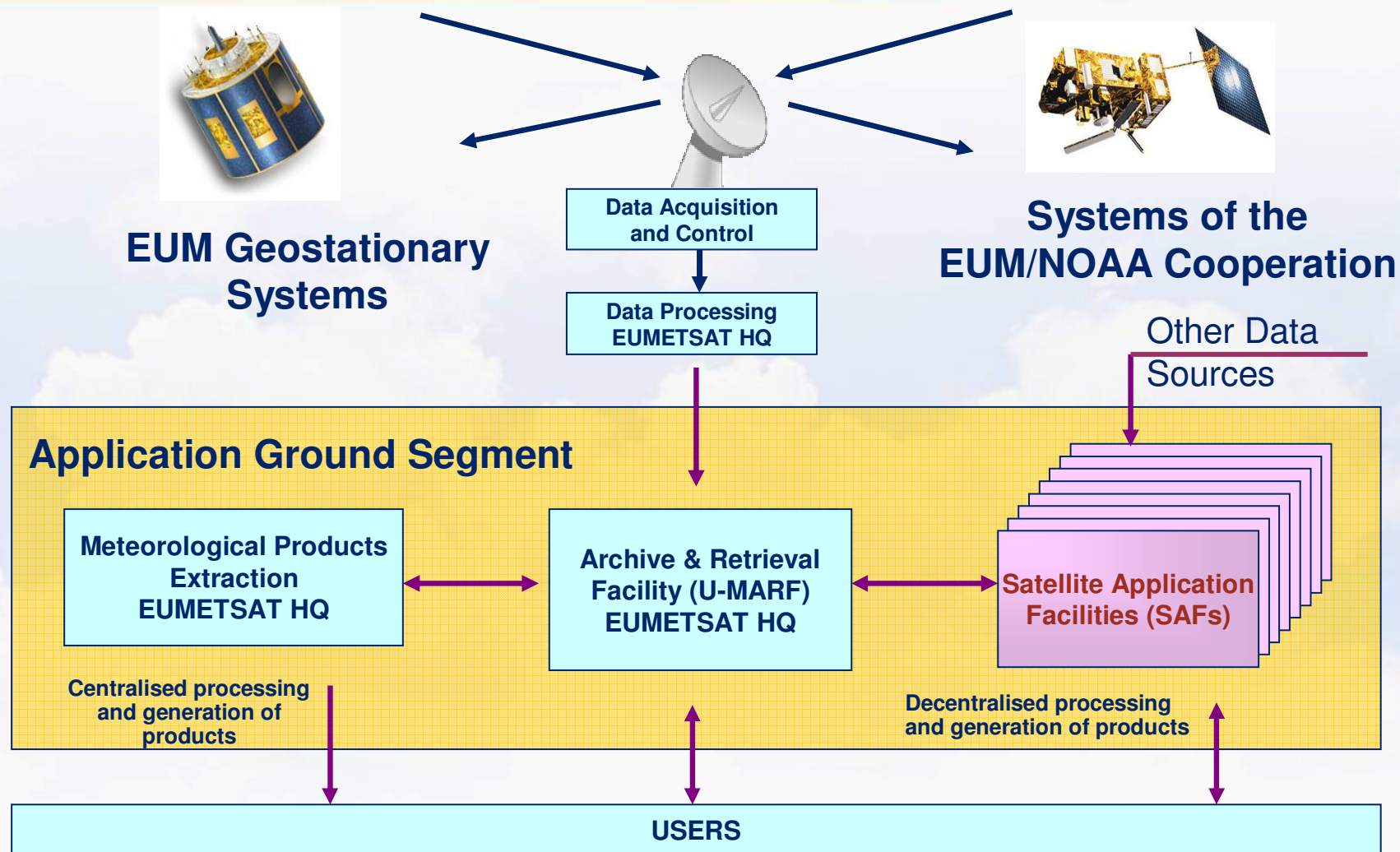
Driving Strategic Elements and SAF Role

2

Provision of operational services, ensuring a cost-effective and synergetic balance between the central and distributed services.

The SAF services are an integral part of the overall EUMETSAT operational services.

SAFs as essential component of the EUMETSAT Services and Application Ground Segment



SAFs as essential component of the EUMETSAT Services and Application Ground Segment



Building-up the SAF Network

Early involvement of Users

Incremental Development

Incremental Achievement of Operational Readiness

Continuous Improvement of Processes & Algorithms

Continuous Validation

Paradigms

Driving Elements

SAFs as distributed component of the EUMETSAT Application Ground Segment

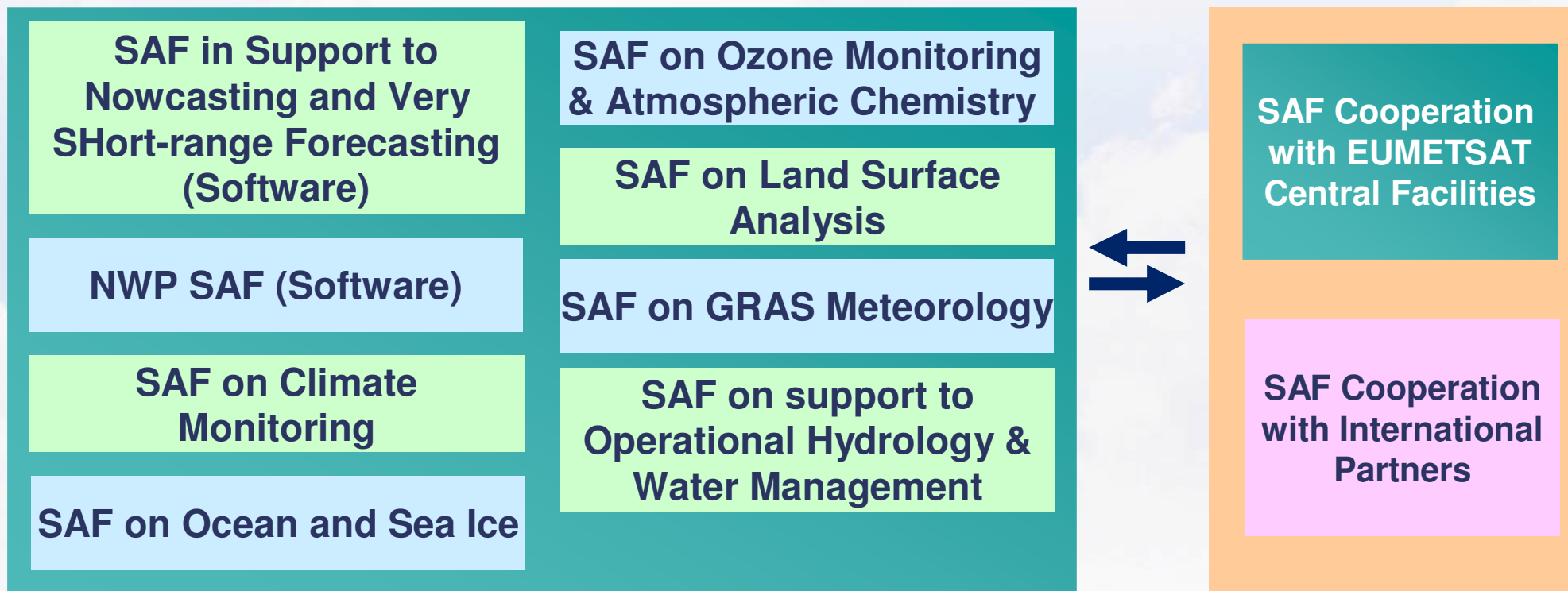
SAFs integrally part of the MSG and EPS Programmes

Priority on EUMETSAT Satellites, but openness to use of other satellite data sources

SAFs as essential component of the EUMETSAT Services and Application Ground Segment

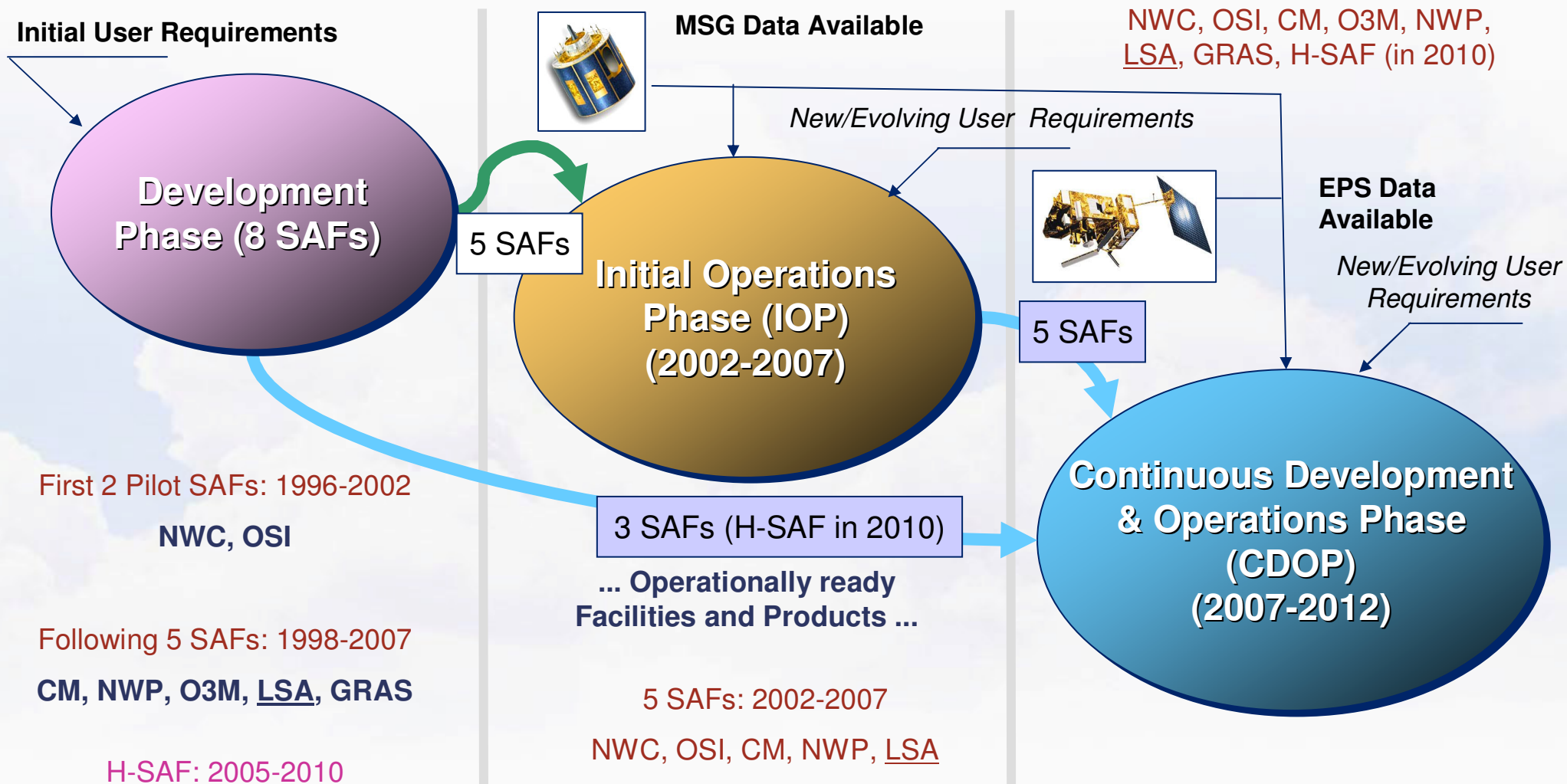


SAF Network components



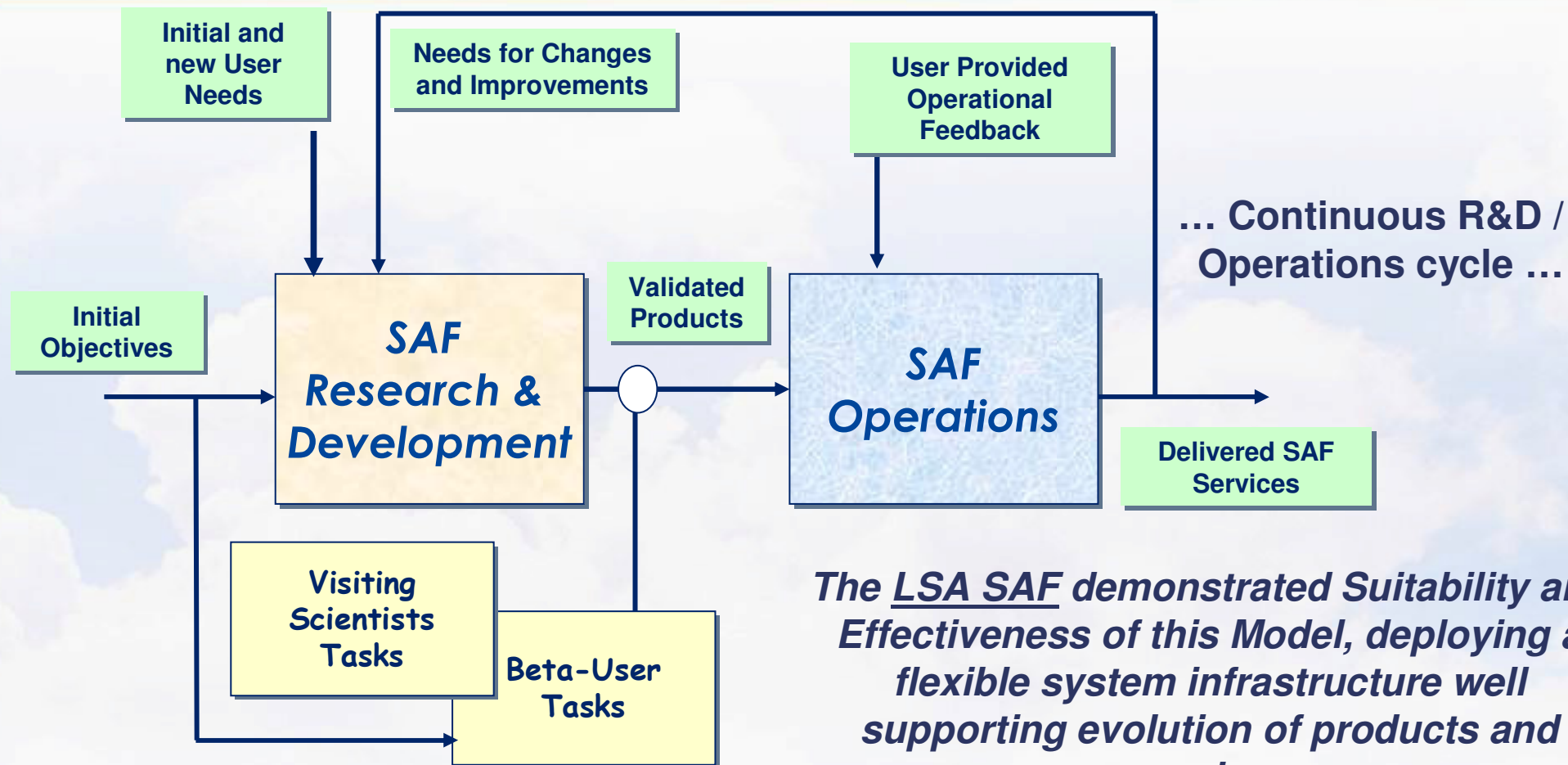
From Development to CDOP

Progress of the SAF Network





The SAF Generic Life Cycle



The LSA SAF demonstrated Suitability and Effectiveness of this Model, deploying a flexible system infrastructure well supporting evolution of products and services



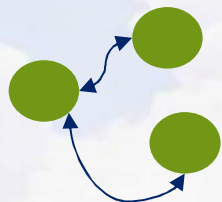
SAF Network Assets

SAF ASSETS



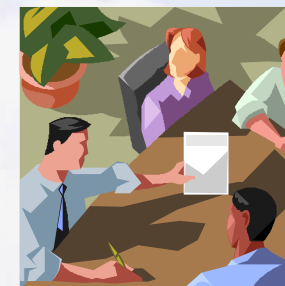
**Scientific Knowledge and
Network**

Operational Knowledge



**Deployed SAF Operational
Nodes & Infrastructures**

**Engineered and Operational
SAF Products**

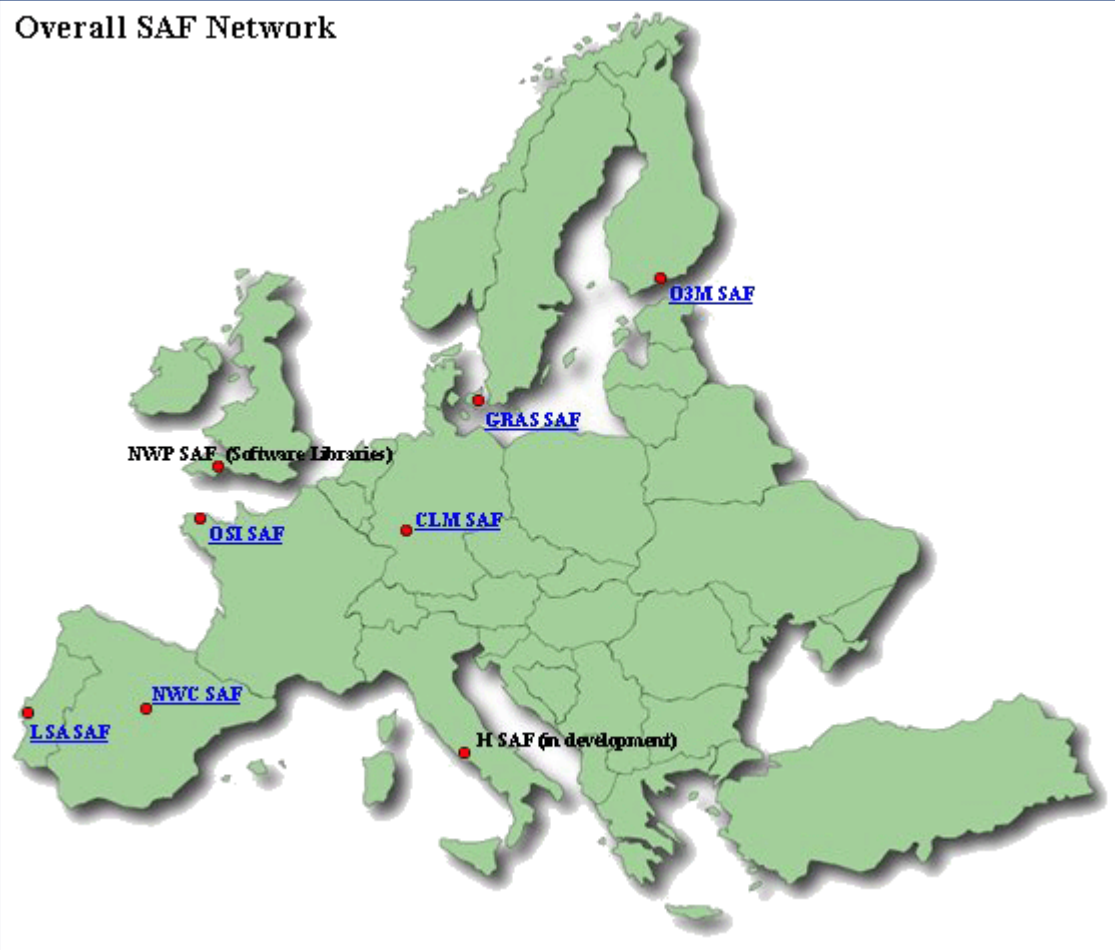


Cooperation Experience



SAF Network Assets

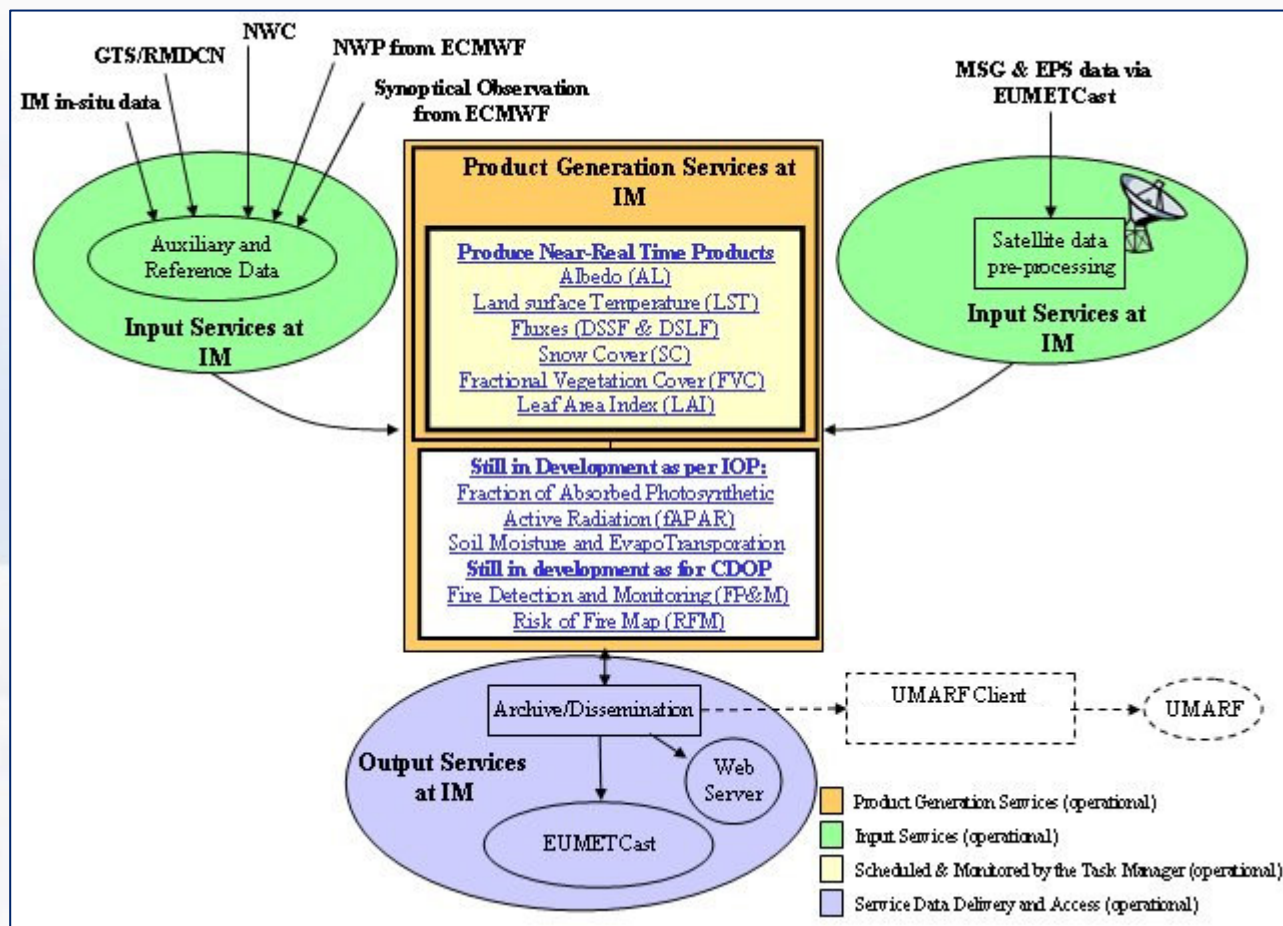
Overall SAF Network



Deployed SAF Operational Nodes and Infrastructures



SAF Network Assets



LSA SAF Operational Infrastructure

An Evolutionary Vision



MSG & EPS (IJTS) Data

**SAF Network
CDOP #1
[2007-2012]**

Funded (EPS Programme)

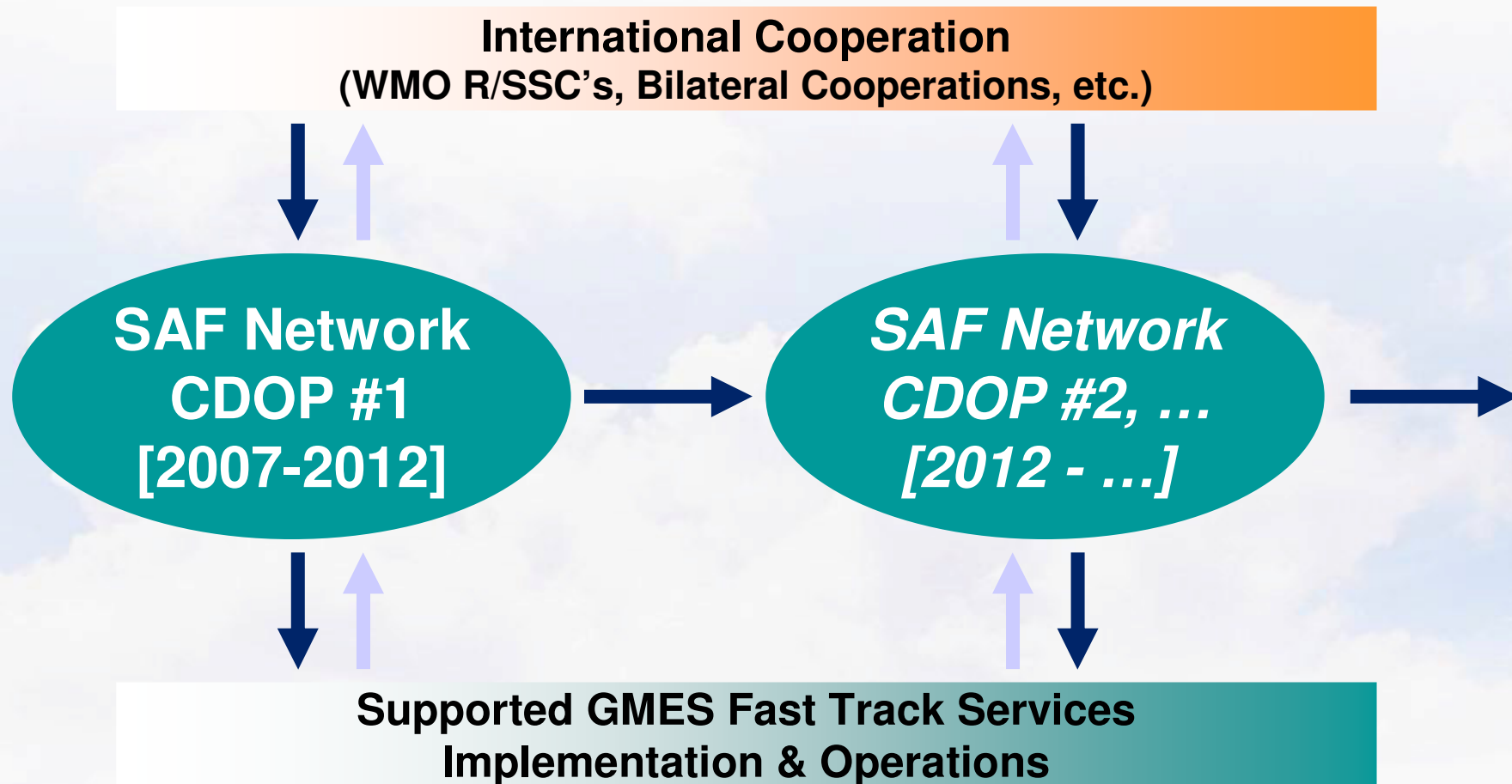
MSG, EPS, then

**MTG and Post-EPS
(JPS) Data**

**SAF Network
CDOP #2, ...
[2012 - ...]**

As part of EUMETSAT
Mandatory Programmes
(starting with MTG)

An Evolutionary Vision



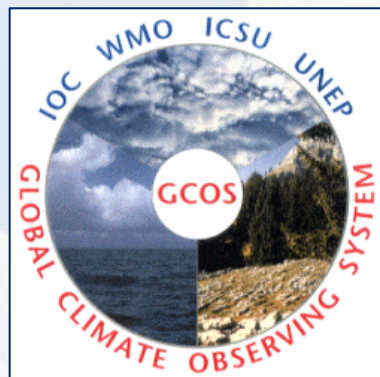
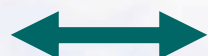


An Evolutionary Vision

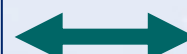


**Bilateral
Cooperations**

Ad - hoc
Projects



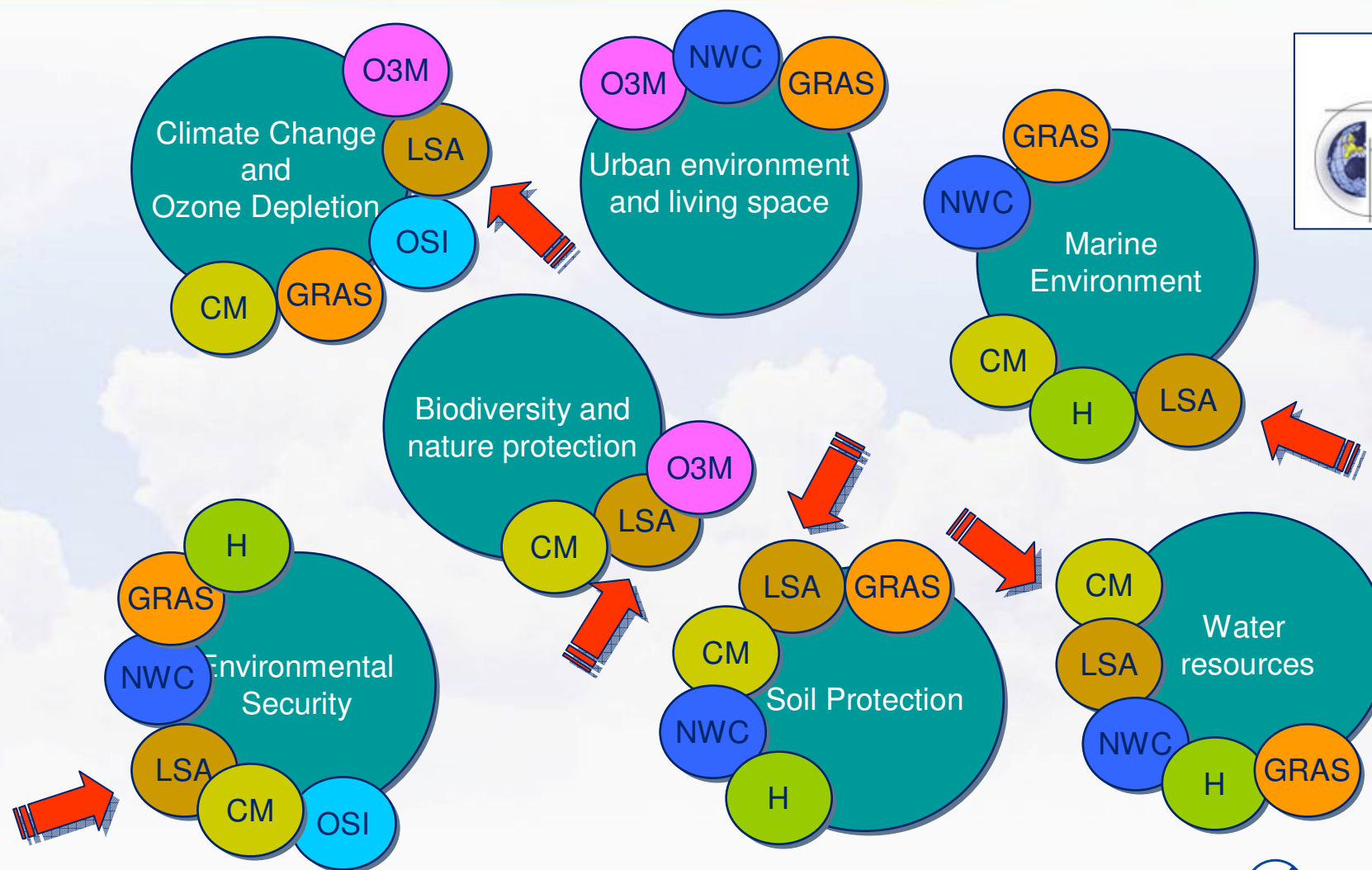
R/SSC-CM



SAF Network USERS Community



An Evolutionary Vision





An Evolutionary Vision



**SAF on Climate Monitoring
with contribution of OSI, O3M, GRAS, LSA, and H-SAFs**

New Challenges for the SAF Network



- ➔ To continuously improve quality of services to users
- ➔ To fully exploit the use of MSG and EPS Data through CDOP
- ➔ To prepare for the MTG and Post-EPS Era
- ➔ To serve GMES needs preserving the SAF Network Identity
- ➔ To foster cooperation with other Satellite Operators
- ➔ To provide agreed contributions to WMO R/SSC's

Cooperation



saf

The EUMETSAT
SAF Network

**Between
SAFs**

Within the SAF Network:

- ➔ **Beta Users**
- ➔ **Visiting Scientists**
 - Open to any potential external entity
 - Budget under control of SAF Steering Groups
- ➔ **Inter-SAF Federated Activities**
 - Only for partners of the concerned SAFs
 - Budget under control of the SAF Steering Group
- ➔ **Combination of any of the above**
- ➔ **Workshops**

Cooperation



saf

The EUMETSAT
SAF Network

**Bilateral
Cooperations**

**International
Partner**

Cooperation of International Partners with SAFs:

- ➔ **Beta Users (no exchange of funds)**
- ➔ **Use of Visiting Scientists funding, as possible**
- ➔ **For new proposed Tasks / Products**
 - **New Partner funding its own costs**
 - **Agreement between EUMETSAT / International Partner**
 - **Detailed agreement with the SAF Leading Entity**
- ➔ **Other schemes ...**

Cooperation opportunities discussed with each SAF, as necessary, with EUMETSAT support.

Relevance of the LSA SAF



The SAF on Land Surface Analysis provides products related to land, land-atmosphere interactions, and biospheric applications.

It significantly contributes as highest priority to Meteorology (NWP, ...)

- *Liaisons and exchanges with ECMWF as a key-to-success since the early phases of the LSA Project*

The positioning within GMES of the LSA SAF is acknowledged as natural exploitation of the services and products provided within the EUMETSAT SAF Network.

In the long-term, LSA SAF products relevant to Climate Monitoring will be an asset for the WMO RCSS-CM initiative.

Relevance of the LSA SAF



This Workshop follows the previous events organised by the LSA SAF to dialogue with the Users Community during the Development Phase and the Initial Operations Phase.

Workshops are an essential mechanism for the SAF Network to involve users and get their feedback on available products and new products to be considered/developed.

Let's encourage this dialogue and wish a very fruitful discussion !