Future CEOS-WGCV
General Remarks

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Vice-Chair CEOS-WGCV, WGCV #36, Shanghai, May 2013

Knowledge for Tomorrow

DLR

Outline

- Motivation

- The building blocks of CEOS-WCGV

- CEOS WGCV perceiption from the outer world

- CEOS-WGCV „embedded"
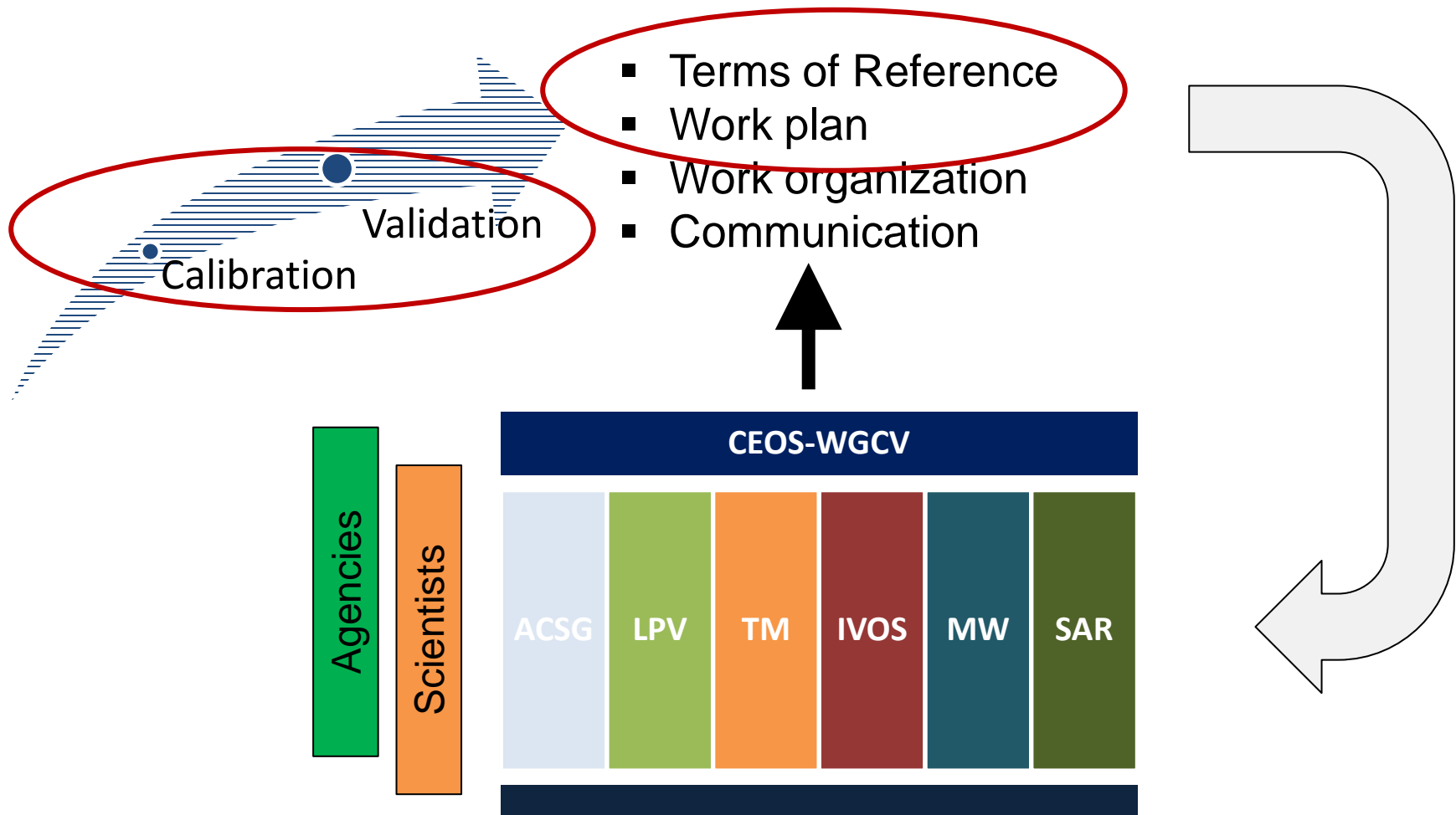
- Different models to work

- Conclusions

Motivation

- CEOS-WGCV is doing essential and needed work

- We are faced to different challenges

  - To be attractive for new members

  - To find a path for implementation of activities on best effort baseline

  - To define our work within the growing world of international groups
    and collaborations which are working close to our topics

- CEOS self study and topical teams provided an external viewpoint

- And in general: We improve if we check ourselves from time to time…

Building blocks of CEOS-WGCV

- Terms of Reference
- Work plan
- Work organization
- Communication

Validation

Calibration

CEOS-WGCV

Agencies

Scientists

| ACSG | LPV | TM | IVOS | MW | SAR |

Reminder 1: Core business

1. Calibration of satellite sensors
   - On-ground characterization
   - In-flight calibration
   - Vicarious calibration
   - Performance assessment
   - Assessment between sensors

2. Validation of satellite data products
   - Performance assessment
   - At sensor product validation (Level 1)
   - Sensor-specific geo-physical product validation (Level 2, sometimes: higher level products)
   - Assessment between products
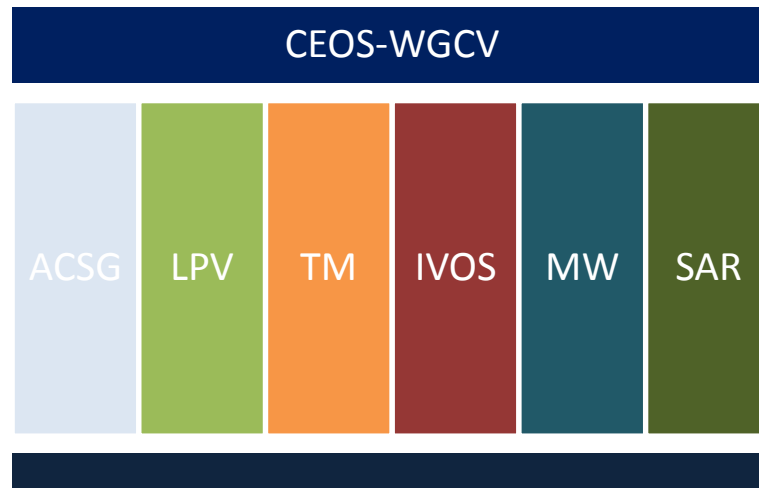
3. Quality assessment on all levels

The CEOS-WGCV perception from the external world
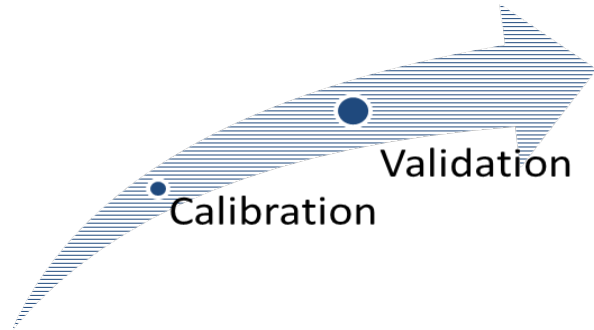
- Terms of Reference
- Work plan

Model 1

Validation
Calibration

CEOS-WGCV

ACSG	LPV	TM	IVOS	MW	SAR

Model 2

CEOS Self-Study / Topical Teams

<u>Outcome</u>

- CEOS has become unbalanced with an overlay complicated strucure, and its core activities increasingly over-shadowed by ad hoc initiatives.

- It is becoming increasingly difficult for some agencies to engage meaningfully with the diverse range of activities/initiatives, as well as to commit the appropriate level of resources.

….WGCV appear(s) to be decoupled from Plenary and SIT and … seem(s) to have built up internal structures that mimic those at the top level in CEOS. This viewpoint is fully consistent with the findings documented in the CSS Report.

<u>Consequences</u>

1. Re-connect with CEOS's essential business / core activities

2. Set priorities and align the CEOS mechanism accordingly

3. Cease activities which no longer correspond to priorities

Reminder 2: Perception

- The perception might be for some people outside CEOS-WGCV limited to our organization format

- For those, it is not clear what we do
(exception: the keyword QA4EO)

Consequence

- A consequent and clear communication in different directions:
  - Within WGCV
    (pre-requisite for external communication)
  - To other (governing) bodies in CEOS
  - To other WGs and VCs in CEOS
  - To the other outside world

- All outside communication shall have the goal that CEOS-WGCV is the primary address for Cal/Val in CEOS.

CEOS-WGCV "embedded"
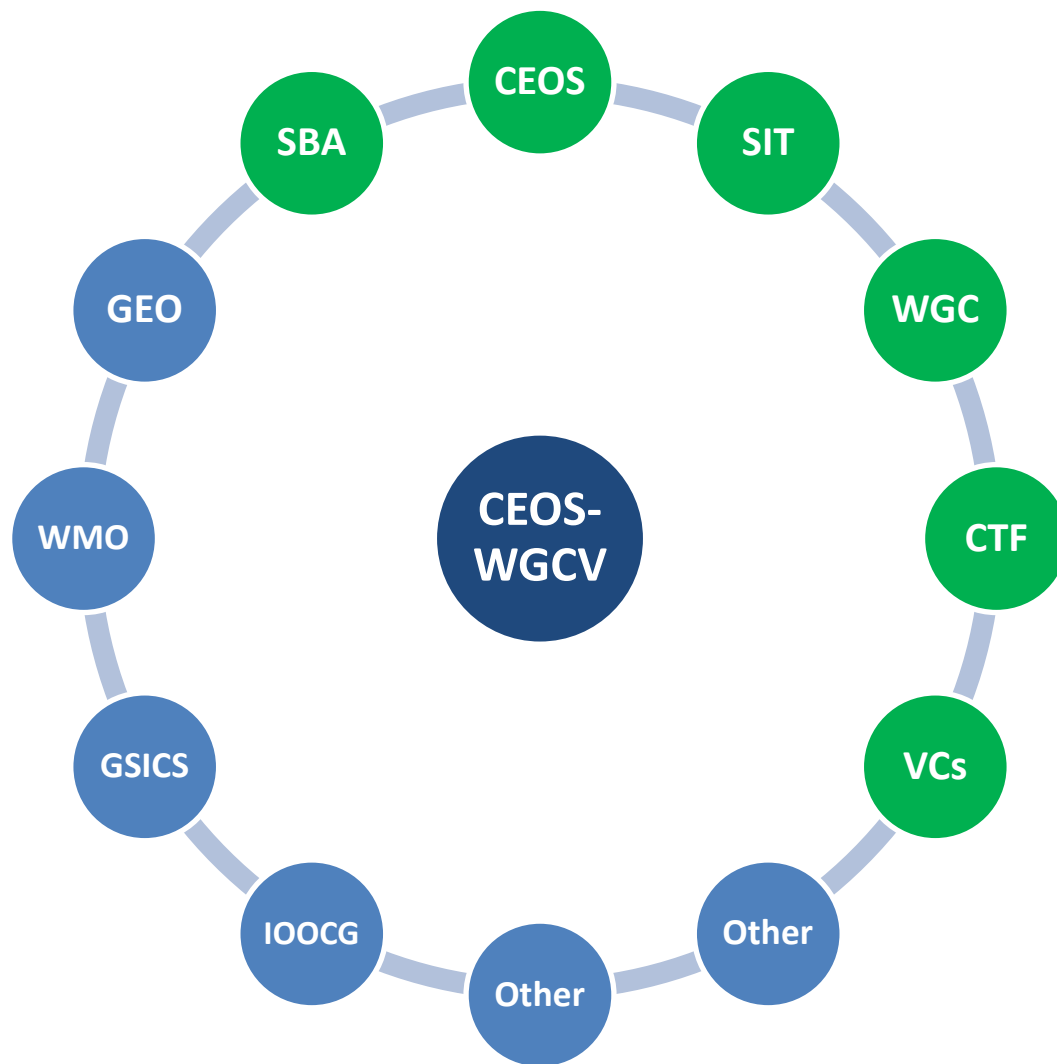
Reminder 3: Links

CEOS-WGCV in another context

- CEOS became more diversified during the past five / ten years
  - Virtual Constellations introduced
  - New Working Group(s) established (Climate, Capacity Building)
  - Task forces and initiatives emerged (Carbon, GFOI, JECAM, …)
- CEOS is the space segment of GEOSS

Consequence

- Who does what in a clear defined (CEOS) environment
- How efficient is the set-up for the cooperation and information flow between WGCV and the other CEOS groups and other international groups

Different scenarios/models to work (I)

Vertical organization

- Baseline for CEOS plenary / SIT and their relation to WGs, VCs and task forces / initiatives

- Baseline for CEOS-WGCV sub-group organization

- Top-down approach
  - Controlled process by several management layers
  - If commitment available, clear management possible
  - Need of several management layers with clear directions to achieve goals

- Bottom-up approach
  - Inclusion of creative sources
  - Can offer several solutions
  - Need of coordination to achieve goals

Different scenarios/models to work (II)

Horizontal organization

- Interaction between different groups
- Clarification: formal / informal
- Strong need of clear definitions (& commitment) for the exchange of information and deliverables
- Coordination need

Boundary conditions

- "Best effort"
- Commitment needed for each action / activity

Reminder 4 - Organization

- "Best effort"

- Reporting line to CEOS plenary / SIT: vertical top-down

- Communication between WGCV sub-groups and plenary   vertical

- Interaction to other WGs, Virtual Constellations, others   horizontal

- Interaction of sub-groups to communities   horizontal

- Decision making process:

  Transparency is a commitment to and a motivation for all members

Conclusions (I)

- Core business of CEOS-WGCV:
    - Satellite sensor calibration
    - Satellite sensor performance assessment
    - Satellite product validation
    - Satellite product quality assessment

- **CEOS-WGCV must be identified by everybody with its core business**

- **CEOS-WGCV shall be the first address to be asked in Cal/Val issues by CEOS and outside CEOS**

- **The growing level of interaction / cooperation with other groups and bodies leads to the need of clear definition of roles and responsibilities**

Conclusions (II)

Boundary condition "best effort" is an all-time challenge to optimize the CEOS-WGCV with respect to its needs; this includes

- **Clear vision of CEOS-WGCV (internal & external)**

- **Minimum set of management layers**
- **Transparent decision process**
- **Efficient information flow**
    - **CEOS-WGCV internal**
    - **CEOS plenary / SIT and CEOS-WGCV**
    - **CEOS-WGCV in cooperation with other bodies**

A concrete improvement proposal follows in the presentation on Friday