Future CEOS-WGCV
General Remarks
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Outline

- Motivation
- The building blocks of CEOS-WCGV
- CEOS WGCV perception 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

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

Model 2
CEOS Self-Study / Topical Teams

**Outcome**

- CEOS has become unbalanced with an overlay complicated structure, 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.

**Consequences**

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