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Session: CbM/AMS PREPARATION (28/11/2019)

CbM/AMS
The puzzle of visions and reality from the PA perspective

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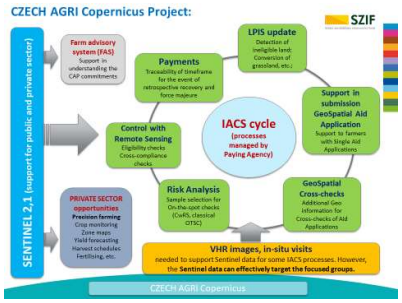
LOOKING BACK AT SZIF "CbM EU like HISTORY":



At 22nd MARS conference the SZIF presented ideas of comprehensive potential „use-case areas" of Sentinels data use for the IACS purposes;
Nowadays, similar ideas are becoming real as integral parts of CbM/AMS concept;

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THE CURRENT STATE OF PLAY:

- SZIF has further developed the primary ideas and is supporting the CbM/AMS concept;
- However, due to the complexity of the implementation has not yet implemented the CbM at the operational level;
- SZIF is continuously active in pilot projects on CbM
  - CzechAgri (finalised);
  - DROMAS (ongoing);
  - Sen4CAP (ongoing).

Pilot projects help a lot in building a knowledge about challenges and needs associated with CbM;

- Internal project on implementation of CbM in place, covering all aspects of challenges for implementation
  - Methodological/legal;
  - Technological;
  - Organisational.

THE ACCELERATOR:
Pilot projects related to CbM agenda.

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WHAT HAVE WE LEARNED MEANWHILE ?

- CbM are feasible and achievable for SZIF in upcoming period;
  - However, the scope of applicable use-cases strongly depends on defined eligibility criteria;
  - The CbM use-cases brings the real added value if results could be applicable at farm/holding level (IACS covers both = 1st and 2nd Pillar schemes);
  - Fast technological developments – increasing number of business potentials;
  - Different concept of assurance procedures then we were used to.

THE ACCELERATOR:
Re-assessment of eligibility criteria of schemes/measures.

THE ACCELERATOR:
CbM for 2nd Pillar IACS schemes, and other multi-annual commitments.

THE ACCELERATOR:
Sharing expectations and results of assurance level (individual MS have no info for comparison = deviations in assessments).

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WHAT HAVE WE LEARNED MEANWHILE ?

❑ Machine learning/artificial intelligence is a must for CbM;

- **But difficult to get rid-of thinking in „old manners of data processing“** (primarily seeing difference in amounts of data processed);
- **However, the Machine Learning modifies also procedural agendas, assurance concept, etc.**

❑ Technical service providers (CbM/IACS)

- **In house x outsourced solutions** (issue of requests for changes and testing possibilities);
- **Tendering procedures** (difficulties to define (exact) scope of ToR).

THE ACCELERATOR:
Support MS staff awareness on concept and rules of **Machine Learning** / Artificial intelligence (decrease of misunderstandings).

THE ACCELERATOR:
Share the experience on **tendering procedures for CbM** (best practice).

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WHAT HAVE WE LEARNED MEANWHILE ?

❑ Data Usage

- **Plenty of data processed under CbM service x absorption capacity of human beings** (MS staff) **to transform that into clear information;**
- **S1, S2 time series applied at LPIS/GSAA level – great potentials for** multi-annual assessments, ENVI, CLIMA, Statistics, etc. at the „lowest granularity“**.**

❑ Data sharing and keeping

- **Data sharing (IACS) crucial issue for CbM, but especially AMS in future;**
- **Several stakeholders involved** (PA, MoA, farmers, other institutions, etc.);
- **DIAS is not the only one solution; CZ national Sentinels archive in place.**

THE ACCELERATOR:
Data Analytical Tools
(to reduce PA human beings from data overload; from data to information – **support to decision making**).

THE ACCELERATOR:
Sentinels image archive corresponding to **needs for CbM** (length of archive, etc.).

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WHAT HAVE WE LEARNED MEANWHILE ?

- **Understanding of CbM concept**
  - **„Living organisms“; ALL learning by doing** (if capacities available);
  - **„Primarily by PAs“ x other MS Agri players = imbalance of priorities;**
- **Awareness (other Agri related MS institutions), Farmers involvement**
  - **Resistance to change due to lack of awareness;**
  - **Farmers requests on use of new technologies** (subsidy/IACS rules have priority);

THE ACCELERATOR:
Increasing awareness among other **„Agri key players“;**
More frequently share the achieved experience, as well as outcomes of CbM technical bilateral meetings among MS“.
(When learning by doing more frequent interactions are needed).

THE ACCELERATOR:
Addressing farmers the **advantages and preventive role** of CbM/AMS
(promo by farming bodies; farmers involvement in pilot projects);

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NEW TECHNOLOGIES

(available free of charge; on frequent basis; large scale)

Generates:
New ideas/use cases
New business potentials
New scopes (from small to big scale)
New users
New challenges
New ways of data processing

(IACS) CHECKS BY MONITORING

Becomes „usual practice“

IMPLEMENTATION**
(complex tasks)

Legal Methodological | *Technical* | *Organisational* | *Etc.*

CAP/IACS* Paradigm shifts

Resistance to change

Political decisions Stakeholders impacts

*Current status in most of the MS: *, ***

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BENEFITS OF CHECKS-BY-MONITORING (AMS)

Automation of several processes

Achieved „only if implemented correctly and properly managed" – HOW ?

More efficient IACS/CAP processing

Decrease of administrative burdens /costs → **Processing in shorter time** → **Faster payments** → **Better possibilities for IACS data sharing**

Overall increased IACS/CAP efficiency (for PA, farmers, EU bodies);
Advantages of complementarity of Copernicus and EGNSS (others);
Farmers having new (more active) roles in the system;

Note: Different stakeholder´s groups may see/look for different benefits;

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BENEFITS OF CHECKS-BY-MONITORING/AMS

Shifting from static to dynamic IACS system
Shifting from focus on a sample to large scale

Possibilities for MODELING and ASSESSMENTS (impacts, risks, etc.)

IACS CONTROL SYSTEM
Verification of compliance over the entire eligibility period (as well as multi annual)

PREVENTION SYSTEM
- At the level of individual farmers (alerts, advisory, etc.)
- National Strategic Plans (target oriented focus)

Better synergy among Agricultural and Environmental objectives;
Increased CAP performance;
Increased compliance by helping farmers to meet the requirements;

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SUMMARY:

- The Monitoring Approach **goes hand in hand with other IACS automation** *(parallel dossier handling, e-governance, data sharing);*
- The concept of **CbM is feasible**, however the scope and applicability for the use-cases **depends on several factors**;
- The implementation **could be supported by „Accelerators“** (only some are listed in this presentation);
- Increasing the **awareness** is important;

PARTIAL ELEMENTS of CbM already developed (in place) BUT SOLVING HOW TO ASSEMBLE THE ENTIRE PUZZLE to WORK in OPERATINAL MODE.

(And transform our visions into reality).

Thank you for your attention

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Assessment of compliancy for monitored obligation