



# Sentinel for Common Agricultural Policy – Sen4CAP

## Pantha Rhei Workshop



**sen4cap**  
common agricultural policy



ESA UNCLASSIFIED - For Official Use



European Space Agency



Funded by  
European Space  
Agency



Sen4CAP system



User group:  
6+1 Paying Agencies



EO Experts



Guidance by  
DG-Agri, JRC,  
DG-Grow.

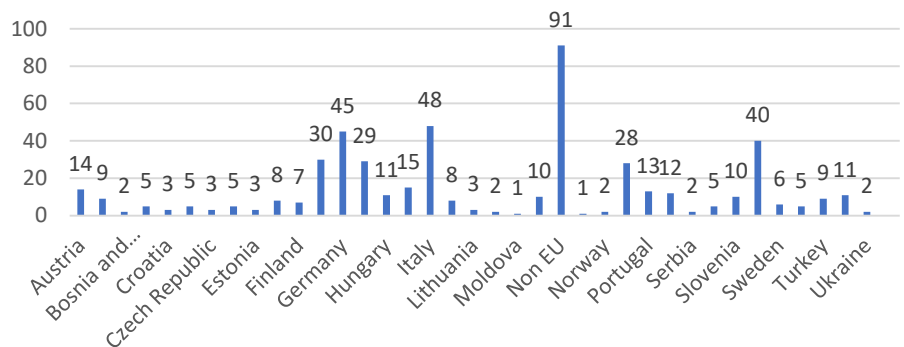
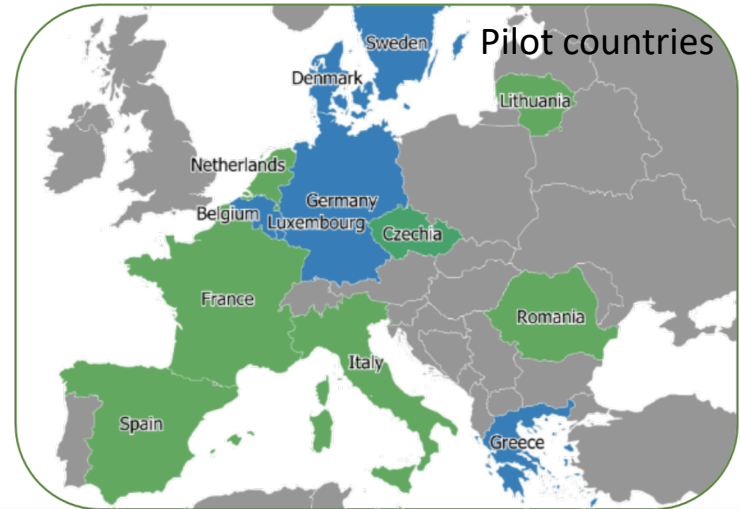
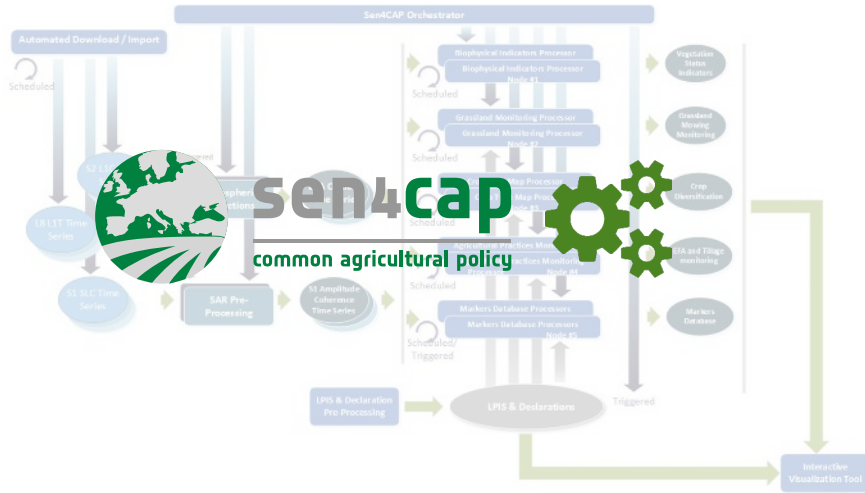


Commissioner P. Hojan: "...ESA has launched a tender for Sen4CAP which will provide us useful knowledge and further possibilities on how we use Sentinel data in the context of the CAP ..."

From an ESA project ...



# ...to an open source system uptaken by the CAP community



CloudFerro Cloud for EO > For Earth Observation > Sen4Cap

## Sen4CAP - The Sentinels for Common Agricultural Policy

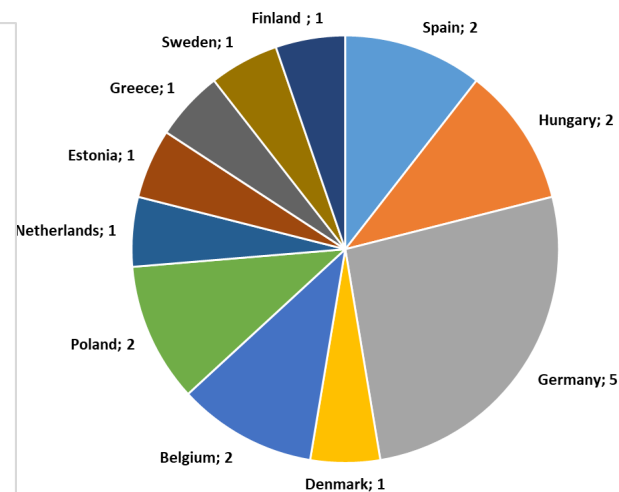
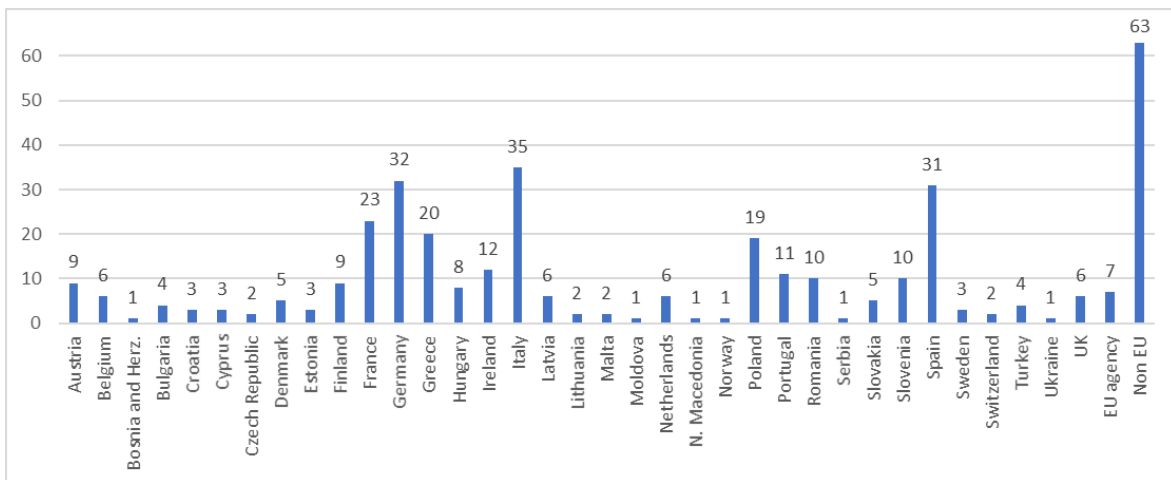
Solution for modern agriculture

Ready-to-use monitoring solution for modern agriculture. Biophysical indicators, crop type map, grassland mowing, and agricultural practices monitoring in one place.

# Wide system uptake



- ~370 downloads of the Sen4CAP system since November 2019
- 20+ Paying Agencies testing Virtual Machines on CREODIAS granted by the project to discover Sen4CAP and assess its fitness-to-use
- DIAS offering Sen4CAP as a service <https://creodias.eu/-/sen4cap>



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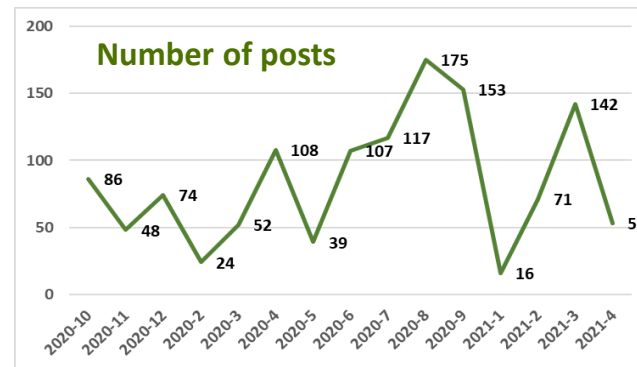
## Physical & online hands-on training



- Belgium (Jan. 2020): 44 participants from 20 different countries
- Online training in Apr. 2020, 100 + participants

## Online forum

- 100 active users



## Regular webinars and Q&A sessions

- 60 to 150 participants each time
- External presenters

## All resources available online

<http://esa-sen4cap.org/content/resources>

- Pantha Rhei is the collaborative network of EU Paying Agencies; they meet twice a year to discuss technical questions
- Sen4CAP workshop organized during the 57th conference in May 2022 (Germany)

LVII Pantha Rhei Conference  
30<sup>th</sup> May to 1<sup>st</sup> June 2022  
Dresden, Germany

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Agenda

**Day 1: 30<sup>th</sup> of May 2022**

12:00 – 13:00 Registration at Conference Center of Penck Hotel

13:00 – 14:30 Open Lunch Buffet

14:30 – 15:45 Workshop 1: CROSS COMPLIANCE – NOW AND IN THE FUTURE  
Mr. Tomas Orlickas (*Lithuania*)

Workshop 2: SENTINEL FOR COMMON AGRICULTURAL POLICY  
(Sen4CAP system and visualization tool)  
Ms. Sophie Bontemps (*UCL - Université Catholique de Louvain*)

15:45 – 16:15 Coffee break

16:15 – 17:30 Workshop 1 and 2 (continued)

18:00 – 22:00 Guided city tour in small groups and informal dinner

Sentinel for Common Agricultural Policy  
Pantha Rhei Workshop – Tentative agenda

*30 May 2022 – Germany (Dresden)*

14h30-15h00	General presentation of the Sen4CAP system <ul style="list-style-type: none"><li>✓ Objective and overview</li><li>✓ Data flow</li><li>✓ New use cases and functionalities to come in 2022</li></ul>
15h00-15h15	Live demonstration of the Sen4CAP system operation: overview of processors for Markers Database, Biophysical Indicators, Crop Type mapping, Grassland Mowing detection and EFA practices monitoring
15h15-15h30	Presentation of the EO-Widget "Sen4CAP as a service" interface
15h45-16h00	Open discussion
16h15-17h30	Parallel sessions during 45 minutes
	Session 1: Hands-on training using Unix Virtual Machines on CREODIAS <ul style="list-style-type: none"><li>✓ First steps with the Sen4CAP system for an automated usage</li><li>✓ LPIS / GSA data preparation and upload</li><li>✓ Manual usage of the Sen4CAP processors</li></ul>
	Session 2: Technical session for advanced users <ul style="list-style-type: none"><li>✓ Questions and answers with the Sen4CAP IT development team</li><li>✓ Suggestion for new developments</li></ul>

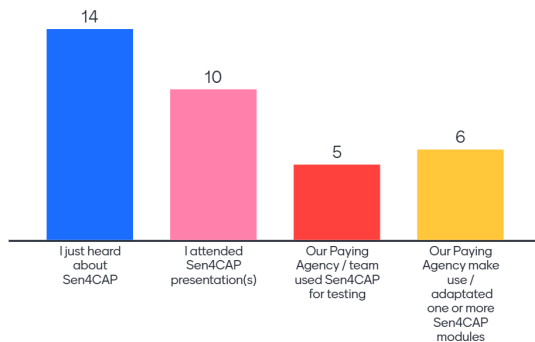


- Mix of « theoretical » classes and « hands-on » training on Virtual Machines prepared in advance on CREODIAS with Sen4CAP pre-installed and demo dataset copied

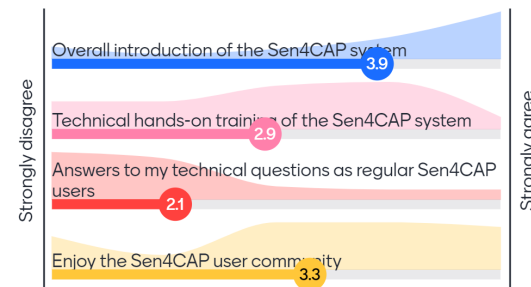
## *Virtual Machines supported by this NoR proposal*

- Success in providing the appropriate environment for the Sen4CAP training
- 57 participants registered and 53 attended
- Most of them were newcomers more interested by the overview and the demo than technical discussion

## Sen4CAP user community : how familiar are you with Sen4CAP ?



## What do you look for at this Sen4CAP workshop ?





- Successful connection on a dozen of VMs
- Successful introduction to the system, highlighting key functionalities – sometimes challenging because of the poor internet connection
- Some participants managed to generate their own Sen4CAP products at the end of the workshop
- Specific feedback from trainees:
  - German federal coordination body and Cyprus paying agency expressed their great interest to learn how to run Sen4CAP and make use of it
  - Greek colleagues had very specific questions/requests based on their practical use of the system
  - 3 persons from DG-AGRI were willing to better understand the whole system

<http://esa-sen4cap.org/>