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Copernicus ECOSYSTEM WORKSHOP 2018
BRUSSELS, 9+10 OCTOBER

# CAP monitoring & Nutrient management application

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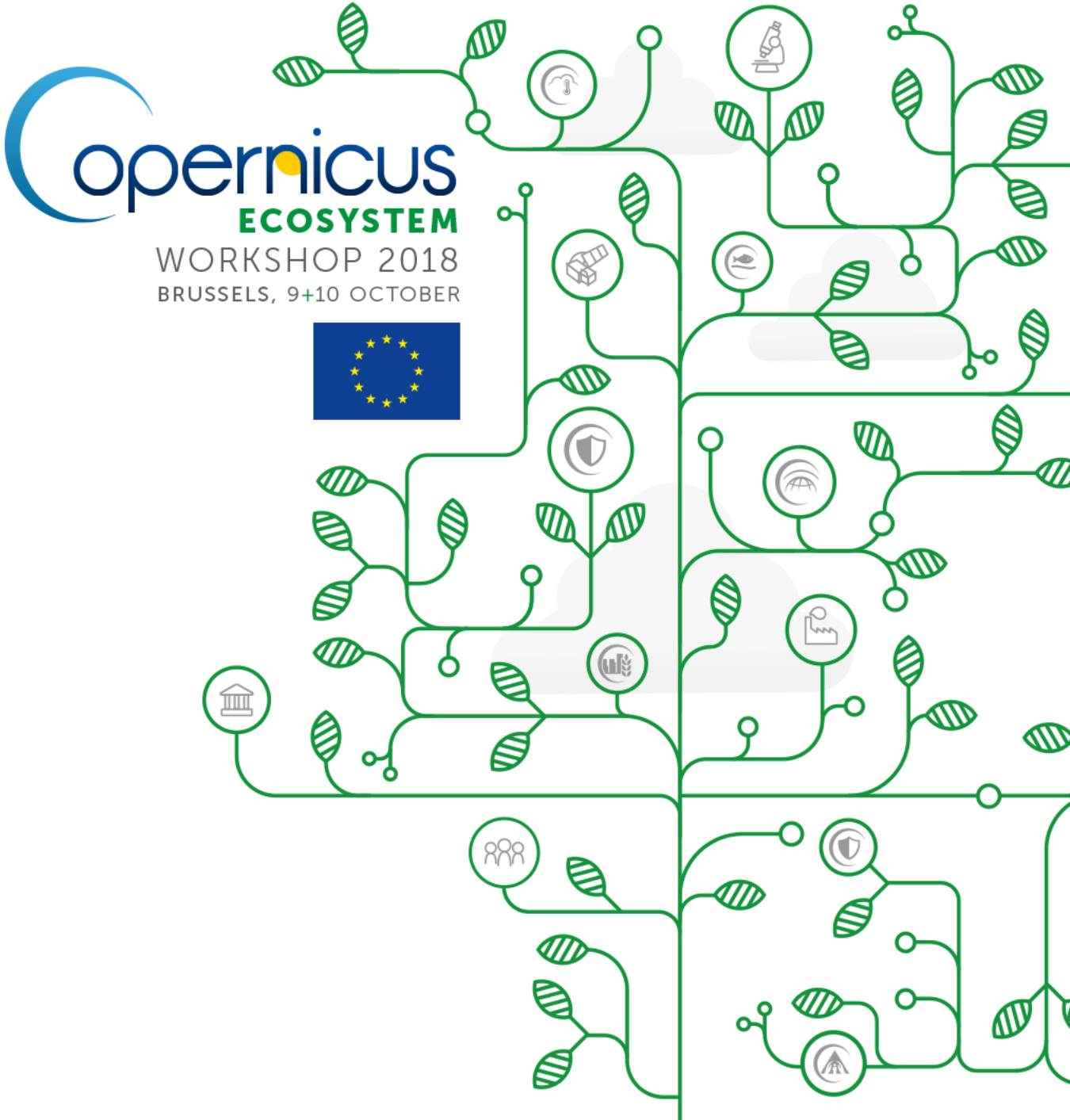

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# CAP and Copernicus

**Simplification and modernisation agenda** – fits with our aim of using of new technologies in IACS (administration and controls system within CAP), environmental ambitions and Digital Single Market strategy

**Legal framework -** on the use of new technologies adopted May 2018 (Sentinels data, drones, geo-tagged photos, EGNOS/Galileo etc)

**Key objectives**

- Reducing the number of field visits, saving time costs for Paying Agencies and farmers
- Promoting digitalisation and e-governance for more efficient processing of applications
- Performance-based policy  using new technologies in view of post-2020 CAP

# New technologies and IACS

**Regulation (EU) No 2018/746 amending Implementing Regulation (EU) No 809/2014 adopted on 18 May 2018**

- Expressly **allows the use of new technologies** in IACS

- Allows MS to start using monitoring techniques based on **Earth Observation data** for controls
  1. In the context of the 5% On-The-Spot Checks (classical including Control with Remote Sensing)
  2. **To substitute OTSC by "Checks by Monitoring"** – New Approach

# Main elements of Checks by Monitoring (1)



- **Inform farmers** about the decision to monitor - set up **communication tools**
- **Systematic observation** – Markers – Scenarios - **Automated algorithm processing**

➢ **detection of activities on land** (field operations: ploughing, mowing, harvesting)

➢ allow a **decision on the eligibility**

# Main elements of Checks by Monitoring (2)



- Carry out, where necessary to conclude on eligibility, appropriate **follow-up activities**: geo-tagged photos, drones, other relevant evidence

- Integrated with:
  - **Geo-Spatial Application**
  - **Land Parcel Identification System**

# Benefits of Monitoring Approach



**For Paying Agencies:**

a) Automated data processing for efficient administration

b) Reduced costs associated with field visits

c) More flexibility to operate “claimless” application systems, with up-to-date information from monitoring

**For Farmers:**

a) Reduced time and stress associated with field inspections

b) Streamlined communication process with paying agencies

c) Less errors & penalties thanks to warning systems

**From European Union perspective:**

a) Assessment of farmer obligations on full EU area, rather than sample-based

b) Assurance levels maintained while control costs contained

c) Monitoring can facilitate performance measurement

# Farm Sustainability Tool for Nutrients (1)



**New GAEC element Post-2020** (Standard for Good Agricultural and Environmental Condition)

- Applicable for all farmers

**Objectives of the tool**:

- **optimise the use of nutrients in all EU farms,** with immediate benefits in terms of farmer's income, and environmental benefits - soil water quality and emissions
- **Simplification** - user friendly application
- boosting the **digitalisation** of the sector and of the CAP

**Change in approach**:

The farmer's GAEC obligation in the proposal is focused "**use**" = **activation and data entry** (Rather than control per se)

➢ hence farmers encouraged to use FaST for its real world value added - providing agronomic information and simplifying administration.

# Farm Sustainability Tool for Nutrients (2)



## What:

**A user friendly mobile application** showing the LPIS farm boundaries and parcels, together with other existing information on the farm, satellite imagery, in user-friendly customizable layers.

Able to **integrate further modules/apps/widgets,** driving localisation and diversification of services to farmers (advisory services, commercial services etc).

**Potential to develop into the 'on-farm, digital and mobile terminal'** for interaction between the farmer and the MA/PAs (to support payment applications, adhesion to and implementation of various contracted commitments, information exchange/notifications etc.).

**Modular and minimalistic structure will not replace existing commercial providers,** but provide a platform for smaller, possibly more innovative service providers, for researchers or farm advisors, for whom the FaST open source 'core module' will act as on-farm entry support.

# The interactive online FaST demonstrator

# Farm Sustainability Tool for Nutrients (3)



**Why:**

- EU-wide positive environmental impact on diffuse pollution from agricultural nutrients
- **Higher environmental and climate benefits while optimising farm income**
- Through incentives and **behavioural changes that make sense also from an economic point of view**
- **Win-win solution** beyond compliance model (agronomic and simplification gains for farmers, environmental gains due to scale)
- **Simplification** of farmers' tasks (clear instruction, inclusion of all nutrient-related legal obligations in one tool, no data entry duplication and minimum manual data input
- **Catalyst for on-farm innovation** and digitalization
- **Optimising data use and re-use** - for policy making, designing environmental measures etc.)

# CAP and Copernicus

## Conclusions:

1. Agriculture sector already a significant user of satellite technologies
2. Scope for increased usage - to reduce paperwork, lower inspection costs, improving overall efficiency
3. Availability of freely available Sentinel data heralds a new wave in technological advancement
4. Commission identifies need for increased investment and update of these technologies
5. Copernicus data can play a significant role in the drive for smarter farming systems and better policy performance monitoring

# Thank You

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