



NEW IACS VISION in ACTION NIVA

RUR-20-2018: Digital solutions and e-tools to modernize the CAP IA

Mariano Navarro

Head of ICT/R&D Unit at TRAGSA Group

NIVA Pilots Coordinator

On Behalf of WUR as NIVA Coordinator & consortium partners

2019 IACS workshop, 10-11 April 2019, Valladolid, Spain

Agenda

- ▶ 1. Introduction
- ▶ 2. Partners (countries) involved and time scale
- ▶ 3. Challenges and issues addressed
- ▶ 4. Outcomes expected
- ▶ 5. Possible involvement and/or benefits for Member State Administrations

NEW IACS VISION in ACTION - NIVA

- ▶ H2020 Innovation Action
- ▶ Proposal in response to Digital solutions and e-tools to modernize the CAP (<https://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020/topics/rur-20-2018.html>)
- ▶ Consortium

lead = WUR , paying agencies from 9 countries (NL-DK-SP-IT-FR-GR-EE-LT-IR), plus technical partners, total 27 partners



Rijksdienst voor Ondernemend Nederland



Ministry of Environment and Food of Denmark
The Danish Agricultural Agency



PÕLLUMAJANDUSE REGISTRITE JA INFORMATSIOONI AMET



Lauku atbalsta dienests



An Roinn Talmhaíochta, Bia agus Mara
Department of Agriculture, Food and the Marine



NIVA Objective

NIVA aims to **modernise IACS** by making efficient use of digital solutions and e-tools, by **creating reliable methodologies and harmonised data sets** for monitoring agricultural performance while reducing administrative burden for farmers, paying agencies and other stakeholders.

- ▶ Through a lean multi-actor approach, incl. a **12 month operational pilot**
- ▶ Supporting the emergence of an **innovation ecosystem**, beyond NIVA's running time
- ▶ Components as Open Source available with an EU-PL

three main challenges:

- ▶ Absorbing innovations to simplify the governance;
- ▶ Reducing socio-economic and administrative burden to farmers;
- ▶ Reducing the gap between IACS data use and potential broader uses.

While: the European Commission proposes a more flexible system, simplifying and modernizing the way the CAP works. The policy will shift the emphasis from compliance and rules towards results and performance.

a vibrant sustainable farming sector that delivers to broader society goals

IMPACT

Speed of innovation

Lower administrative burden

Collaboration in an innovation system

accepted methods to establish CAPs and IACS contribution

OUTCOME

Farmers reached

Cost-effectiveness & administrative burden evaluations

Tools and components available

Generalised tools available

Stakeholder organizations deploying systems

Adm burden of innovations 10% lower

Downloads and use of tools

LPIS Basis for monitoring

OUTPUTS (KPIs)

Open LPIS Data sets

Number of uses of LPIS open data

ACTIVITIES

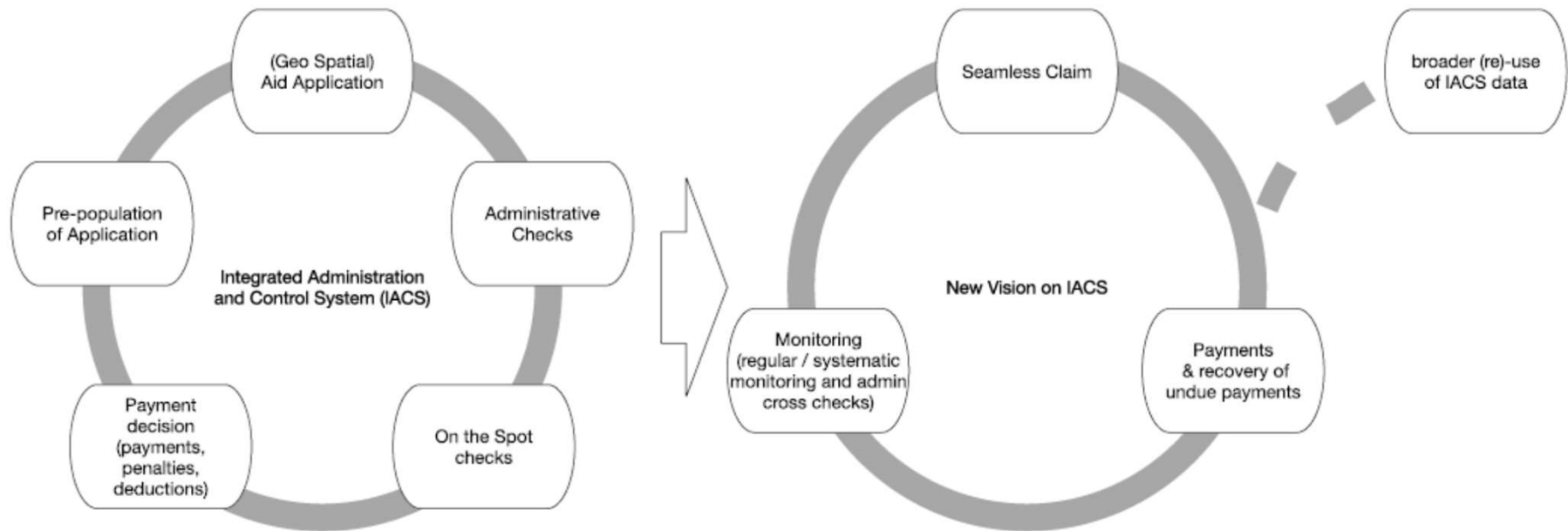
Large scale pilots

Harmonization and interoperability

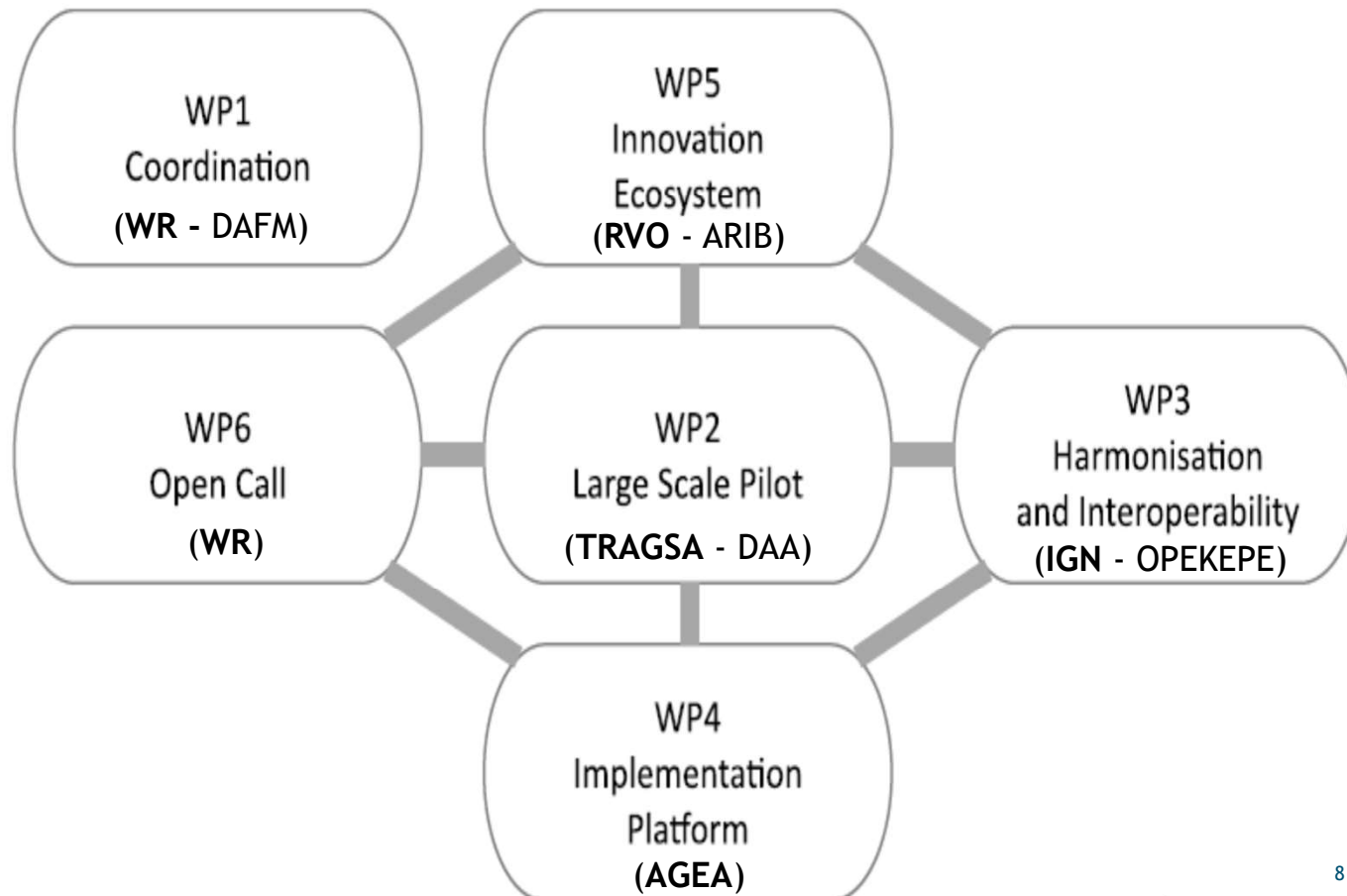
Implementation Platform

Innovation Ecosystem

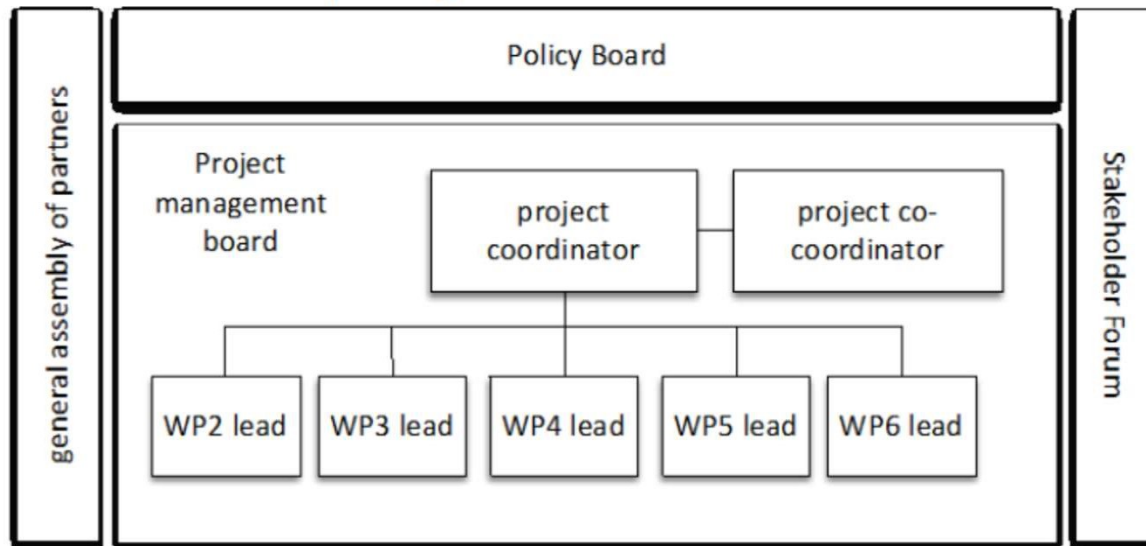
Transition in NIVA



NIVA WP structure



Governance Model



- ▶ Policy board = all the PA's part of the project, incl. EC Commission Services as observers
- ▶ Stakeholder Forum
 - ▶ Reference Group of other PA's
 - ▶ Other Stakeholders of relevance to IACS

Pilots at the core

Use Case Group	Use Case id	Use Case title	Lead MS (PA)	Testing PAs
Monitoring	UC1a	Earth Observation Monitoring and Traffic Lights	Greece (OPEKEPE)	DAFM, ASP, ARIB, AGEA
	UC1b	Agro-environmental monitoring	France (ASP)	RVO, DAA, FEAGA (ITACYL)
	UC1c	Farmer Performance	Estonia (ARIB)	AGEA
Prefilled application	UC2	Prefilled application, GSAA/Land link	Lithuania (NPA)	FEAGA
Farm Registry	UC3	Farm Registry	Spain (FEAGA)	CAPDER
Self-Certification	UC4a	Geotagged photos	Ireland (DAFM)	NPA, ARIB, AGEA, OPEKEPE
	UC4b	Machine data in GSAA as added value data	The Netherlands (RVO)	DAA, FEAGA (ITACYL), OPEKEPE
Seamless Claim	UC5a	LPIS: Update & Change detection	Denmark (DAA)	ASP, FEAGA
	UC5b	Scheme Eligibility and Payment Eligibility: Click-and-Pay.	Italy (AGEA)	

IACS overview and pilots

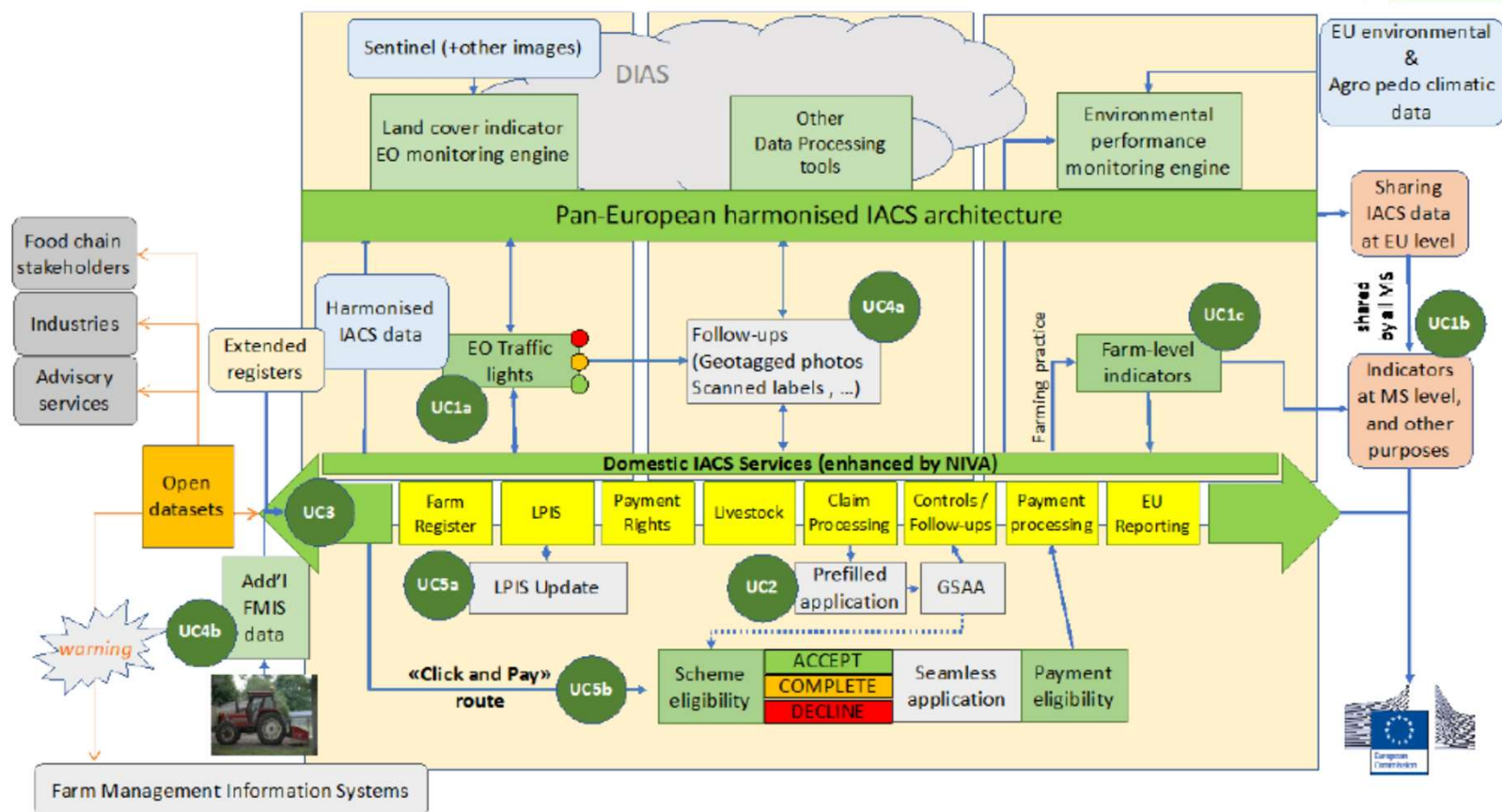


Figure 1-4: Complexity of the IACS system in a flow chart, highlighting the NIVA Use Cases. With modernised digitalisation tools on each of those points, Paying Agencies are able to improve their systems to reduce costs and improve quality.

Pilots Outcomes (I)

Use case	Partners	Objectives	Outcomes
UC1a - Earth Observation Monitoring and Traffic Lights. OPEKEPE (GR)	NEUROPUBLIC (GR) Testing: DAFM (IR), ASP (FR), ARIB (EE), AGEA (IT)	Parcel level Eligibility criteria User acceptance	Processing algorithms Automated crop classification Eligibility criteria
UC1b - Agro-environmental monitoring. ASP (FR)	INRA, IGN (FR), WR (NL), NEUROPUBLIC (GR) Testing: RVO (NL), DAA (DK), OPEKEPE (GR) & FEAGA (SP)	Eco-scheme Environmental and climate measure Conditionality Cross-compliance	AE models & Indicators Algorithms and Components Open Data
UC1c - Farmer performance - innovation to be piloted and expected products. ARIB (EE)	... Testing: AGEA (IT)	Indicators assessing performance at farm level	Common performance indicators FMIS APIs
UC2 Prefilled Application GSAA/Land Link NPA (LT)	Testing: FEAGA	Graphical data collection models	Tested prototype of automatize tools for data harvesting.

Pilots Outcomes (II)

Use case	Partners	Objectives	Outcomes
UC3 - Farm Registry FEGA (SP)	Testing: CAPDER (SP)	Farm Registry Datasets harmonization Links with Nutrients	Farm Registry Interfaces & Common Vocabularies AKIS & FMIS eTools
UC4 a Geotagged Photos DAFM (IR)	NPA, ARIB, AGEA OPEKEPE	Secure picture catching of single parcels and their agronomic land use	Application for mobile devices to facilitate a farmer and/or advisor to upload a geotagged photograph
UC4 b Machine data as added value for farmers and PA (RVO)	ZLTO-WR (NL), Seges (DK) Testing: DAA (DK), FEGA (ITACYL) (SP), OPEKEPE (GR)	location based farm machine data. (FMIS and/or GSAA) input	App: automated update Standards on data exchange Machine data Interfaces (API's)
UC5 a LPIS: Update & change detection. DAA (DK)	Testing: ASP (FR), FEGA (SP)	Automation of change Automatic update of boundaries	Fast error detection More financial security Input for Seamless application
UC5 b Scheme & Payment illegibility. AGEA (IT)	GEOSS, ABACO	Combine all other use cases. «click and pay»	EU-wide simulation tool Value of payment rights Methodology to categorize the Farm Type (n. 1217/2009)

NIVA Milestones

Milestone	Title	Due Date
M1	Project start	1 (June 2019)
M2	Inception	6 (Nov 2019)
M3	Single MS pilot start	12 (May 2020)
M4	Start of multiple MS pilot	18 (Nov 2020)
M5	Demonstration review	24 (May 2021)
M6	Roadmap and demonstration review	30 (Nov 2021)
M7	Final delivery (results conference)	36 (May 2022)

Questions and discussion



Other PA's and interacting with NIVA

▶ Reference Group:

- ▶ other Paying Agencies are invited to join the Reference Group of Paying Agencies, organized as part of the Stakeholder Forum of WP5
- ▶ updated on relevant developments, lessons learned, and interactions with the broader stakeholder community
- ▶ Potential relationship with Learning Network?
- ▶ Potential relationship with IACS data sharing under INSPIRE WG (PA)

▶ Testing and validating NIVA components:

- ▶ NIVA will publish software components for IACS as part of its developments.
- ▶ Other PA's and their technical partners are encouraged/invited to download & implement these in their developments on IACS.

Other PAs and interacting with NIVA

- ▶ To be defined iteratively during the project execution. (because unclear how to organize this).
 - ▶ Uptake of guidelines:
 - ▶ Work packages on interoperability/knowledge service/piloting will produce relevant guidelines and recommendations that can be used by others.
- ▶ Process suggestion:
 - ▶ If this is of relevance, than make a request to the Policy Board (through DAFM & WUR)

NIVA Contact list

- ▶ NIVA contact list
- ▶ Coordinator at WUR Sander Janssen sander.janssen@wur.nl
- ▶ TRAGSA Pilots Coordination Leader Mariano Navarro mnc@tragsa.es
- ▶ TRAGSATEC Spanish Pilot technical coordinator Jesús Estrada jmev@tragsa.es
- ▶ FEGA Farm Registry pilot Leader UC3 Roberto Rodriguez rrodrigl@fega.es
- ▶ The rest of NIVA contacts will come soon ...

Thanks for your attention