



REPUBLIC OF ESTONIA
AGRICULTURAL REGISTERS
AND INFORMATION BOARD



UC1c – Farmer Performance

ESTONIA

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Webinar agenda

- UC1c – general overview
 - Description of the tool
 - Further steps (measuring farmer performance)
 - Multi Member State testing of the tool
- UC1c – demo
 - Prototype demo
- Questions & Answers

General overview – stakeholder needs

- Farmers survey, MS PAs survey, FMIS provider eAgronom, ARIB internal analysis:
 - Farmer performance → IACS data not sufficient, additional sources needed → FMIS
 - IACS data → useful for FMIS users
 - Bi-directional exchange of data
 - Automatic, system-to-system exchange of data
 - Standardization
 - Sharing of FMIS data on a strictly voluntary basis

General overview – prototype tool

- Microservice for exchanging data between IACS and FMIS type of software
- Data exchange protocol based on eCROP standard (some modifications)
- REST API with 2 endpoints:
 - GET /api/v1/ecrop/crop-plot
 - POST /api/v1/ecrop/crop-plot

General overview – functionality

- FMIS can request about agricultural parcels from IACS
 - Data about agricultural parcel from IACS to FMIS. Requests made based on beneficiary's personal ID code or business registry code.
- FMIS can send data about agricultural parcels to IACS
 - Data about agricultural parcel from FMIS to IACS. Update data about existing parcel, send data about new parcel

General overview – prototype scope

- Purpose of the prototype → to test suitability of the eCROP standard for exchange of data
- No authentication component
 - very country specific
- POST requests → FMIS dataset is validated but acceptable data not actually saved to IACS
 - Very specific to particular IACS system where and in what format to save this data
 - UC3 Farm Registry data model analysis → recommendations

General overview – technologies

- Node.js and Typescript application, run in Docker.
- User interface → Swagger

General overview – further steps

- Farmer performance → set of indicators
 - Measuring farmer „footstep“
 - Important consideration – not to overlap with UC1b
 - Testing FADN classification → possible synergy?
- Analysis on:
 - FMIS data in IACS infrastructure (UC3 data model?)
- Prototype improvements, based on testing feedback

General overview – indicators

- Indicators for measuring farmer performance
 - Farmer scoreboard
 - Changes over time, comparison with average
 - Comparison with comparable (size and type)
 - Combining IACS and FMIS data
 - Part of IACS infrastructure (e.g. via PAs e-service)
 - ...? proposals/ideas welcome

General overview – timeline

- Jun – Jul 2019: Inception phase, project set-up
- Aug –Dec 2019 Stakeholders involvement, design
- Jan – Jun 2020 Requirements specification, Development
- Jul – Oct 2020 Testing and validation (internal/ARIB)
- **Nov 2020 Preparations for testing in another MS (Italy/AGEA)**
- **Dec 2020 – May 2021 Testing in another MS**
- **Jun 2021 – May 2022 Pan-european testing**

Use Case	2019							2020												2021												2022				
	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10	M11	M12	M13	M14	M15	M16	M17	M18	M19	M20	M21	M22	M23	M24	M25	M26	M27	M28	M29	M30	M31	M32	M33	M34	M35	M36
UC1c			D	D/MA	D/MA	D/MA		DV	DV	DV	DV	DV	DV	T/D	T/D	T/D	T/D	MA/DP	T	T	T	T	T		IT/V	IT/V	IT/V	IT/V	IT/V	IT/V	IT/V	IT/V	IT/V	IT/V	IT/V	

D Design
DV Development
DP Deployment
T Test
V Validation
MA Multi Actor

Multi-MS testing – general steps

1. Getting familiar with documentation, guidelines and code repository
2. Preparing and setting up local testing environment:
 - Preparing test data and services for UC1c IACS-FMIS data sharing API (including mapping local dataset into eCROP format);
 - Running and validating the IACS-FMIS data sharing API Docker (Swagger UI).
3. Testing both endpoints, reporting results/observations/bugs using the template for test report and NIVA GitLab

Multi-MS testing – resources

1. [NIVA GitLab](#) → source code, documentation, reporting issues/bugs
2. [NIVA Sharepoint](#) → documentation
3. ARIB contact points → help and support 😊
 - [UC1c Multi Member State pilot testing instructions](#)

Multi-MS testing – timeline

- Single Member State testing last efforts ongoing (~ 1 week). Will notify when finished
- Multi-MS testing period: Nov/Dec 2020 – May 2021
- Also a technical testing instructions webinar planned (instructions on running the Docker etc, topics of more technical nature) – November or early December, to be agreed



UC1c demo

Prototype demo





Discussion

Questions & Answers



THANK YOU!
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