



Smarter livEstock Breeding through **A**dvanced **S**ervices **T**ailoring **I**nnovative and
multi-sourc**E** data to users' **N**eeds

First Semester Activity Report

January – June 2022



1. INFORMATION ON THE ACTION	
Grant Agreement N°	INEA/CEF/ICT/A2020/2373580
Action Title (Art. 1 of G.A.)	SEBASTIEN
Action number (Art. 1 of the G.A.)	2020-IT-IA-0234

Author of the report	
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2. IMPLEMENTATION OF THE ACTION¹

2.1. Overall completion of the Action

Planned Start/End date ²		Actual Start/End date		Completion ³
Jan 2022	Jun 2024	Jan 2022	Jun 2024	15%

2.2. Completion per activity/work package

Activity 1	Title ⁴	Planned Start/End date ³		Actual Start/End date		Completion
		Project Coordination and Management	M1	M30	M1	M30
Milestone no	Title ³	Planned date ³		Actual date		Reached (Y/N)
1	Kick-off meeting	M1		M1		Y
11	Project website	M3		M3		Y
2	First progress report	M6		M6		Y

Activity 2	Title ³	Planned Start/End date ³		Actual Start/End date		Completion
		Outlining geospatial to livestock data gathering, processing and integration steps	M1	M18	M1	M18
Milestone no	Title ³	Planned date ³		Actual date		Reached (Y/N)
No milestones expected						

¹ For Interim report: please describe the completion of the action until the end of the reporting period as specified in the Grant Agreement.

² As specified in Art. 2.2 of the Grant Agreement.

³ The completion of the Action and of each activity/work package should be indicated as a percentage.

⁴ As specified in the Grant Agreement.

Activity 3	Title ³	Planned Start/End date ³		Actual Start/End date		Completion
	Data platform for livestock management	M6	M27	M6	M27	5%
Milestone no	Title ³	Planned date ³		Actual date		Reached (Y/N)
No milestones expected						

Activity 4	Title ³	Planned Start/End date ³		Actual Start/End date		Completion
	Stakeholders involvement: from co-design to co-evaluation	M1	M30	M1	M30	20%
Milestone no	Title ³	Planned date ³		Actual date		Reached (Y/N)
8	Report on stakeholders	M6		M6		Y

Activity 5	Title ³	Planned Start/End date ³		Actual Start/End date		Completion
	Outreach and sustainability	M1	M30	M1	M30	20%
Milestone no	Title ³	Planned date ³		Actual date		Reached (Y/N)
No milestones expected						

Activity 6	Title ³	Planned Start/End date ³		Actual Start/End date		Completion
	Open Data and Services Exploitation Portal for the livestock sector	M1	M30	M1	M30	5%

Grant Agreement No: INEA/CEF/ICT/A2020/2373580

Milestone no	Title³	Planned date³	Actual date	Reached (Y/N)
No milestones expected				



2.3. Description of the implementation of the Action, including the actual status at the end of the Action (or of the reporting period) and possible deviations from the planned activities, and, if applicable, compliance with any relevant specific provisions as indicated in the Annex I of the GA

Activity 1 - Project coordination and management

Task 1.1: *Management of the Action (M1-M30)*

Task 1.2: *Financial Management (M1-M30)*

Description of activities

Main outputs achieved (as per GA and milestones):

- Consortium agreement
- Kick-off meeting organization
- Project web site
- First progress report

In addition, the following activities have been performed:

- Creation of the project mailing lists, shared workspace (Google), communication channel (Slack) and templates (presentations, milestones and deliverables, AL meetings, etc.)
- Planning and coordination of monthly Activity Leaders meetings
- Planning and organization of the Project Management Board meetings (conference calls)
- Coordination of technical and scientific activities
- Monitoring of financial aspects of the Action
- CINECA deployed a Virtual Machine on its own cloud (administered by UNITUS) dedicated to the project website

Milestones:

- no. 1 - Kick-off meeting
- no. 2 - Progress report
- no. 11 - Project web site

Deliverables:

- None

Lead partner: CMCC

Other contributing partners: All

Activity 2 - Outlining geospatial to livestock data gathering, processing and integration steps

Task 2.1: *Review and pre-selection of indicators/indices (M1-M3)*

Task 2.2: *Identify existing data sources and ways for access and extraction (M4-M9)*

Task 2.3: *Designing of new project-customized variables (M1-M6)*

Task 2.4: *Planning data elaboration and integration steps (M7-M18)*

Description of activities

Main outputs achieved (as per GA and milestones):

- List of indicators/indices to be proposed to stakeholders

In addition, the following activities have been performed:

- Literature review about animal low-cost sensors;
- Testing and collecting data using low-cost sensors (accelerometer, environmental data, skin temperature) for animal well-being;
- Identification of the most suitable indicators and indices for bioclimate, territorial and animal welfare data to be used in the SEBASTIEN services, using scientific literature;
- Identification of data resources for bioclimate, territorial and animal welfare data, also using low-cost sensors. For example, using Copernicus Climate Data Store for climatic variables or others data resources from others initiatives and projects.

Milestones:

- None

Deliverables:

- D2.1 *List of indicators/indices to be proposed to stakeholders*

Lead partner: UNITUS

Other contributing partners: AIA, UCSC, CMCC, NATURE4.0, CINECA

Activity 3 - Data platform for livestock management

Task 3.1: *Livestock sector and environmental data gathering (M6-M15)*

Task 3.2: *Data access layer (M10-M21)*

Task 3.3: *Database of environmental, vegetation and physiological conditions' indicators/indices (M13-M27)*

Description of activities

Main outputs achieved (as per GA and milestones):

- No main outputs expected for the first semester

In addition, the following activities have been performed:

- First interactions with partners involved in Activity 3 have been started to discuss the preliminary design of the overall Sebastien platform

Milestones:

- *None*

Deliverables:

- *None*

Lead partner: CMCC

Other contributing partners: CINECA, NATURE4.0, UCSC, UNITUS, AIA



Activity 4 - Stakeholders involvement: from co-design to co-evaluation

Task 4.1: *Stakeholders' engagement (M1-M30)*

Task 4.2: *Tailoring data, indicators and tools (M7-M23)*

Task 4.3: *Evaluating the services with stakeholders (M19-M30)*

Description of activities

Main outputs achieved (as per GA and milestones):

- Stakeholder Engagement Plan

In addition, the following activities have been performed:

- Creation of a longlist of putative stakeholders.
- Assessment of stakeholder engagement plans developed in other projects.
- Compiling the Stakeholders engagement guidelines (e.g., identification of the keywords per stakeholder type).
- Creation of the project flyer to support the stakeholder engagement plan (in collaboration with Activity 5)
- Engagement and compilation of the Stakeholders and Champions list.
- Compiling a brief description of the Stakeholders agreeing to collaborate in SEBASTIEN.

Milestones:

- *no. 8 - Report on stakeholders*

Deliverables:

- *D4.1 Stakeholder Engagement Plan*

Lead partner: UCSC

Other contributing partners: UNITUS, CMCC, AIA

Activity 5 - Outreach and sustainability

Task 5.1: *Communication and Dissemination (M1-M30)*

Task 5.2: *Lessons learned: toward services sustainability and upscaling (M19-M30)*

Description of activities

Main outputs achieved (as per GA and milestones):

- Dissemination and Communication Plan

In addition, the following activities have been performed:

- Planning and Coordination of Outreach Team Meeting
- Contribution to the Creation of logo and project website (<https://www.sebastien-project.eu/>). UNITUS has agreed to transfer some activities (and related budget) to NEATEC for the project website and logo
- Creation of social media channels: [LinkedIn](#) - [Twitter](#) - [Instagram](#) - [Facebook](#)
- News about the project published on partners websites
- Creation of the project flyer to support the stakeholder engagement plan (in collaboration with Activity 4)
- The development of the project video teaser started; the script was defined and submitted for approval to the Outreach Team. The script has been approved and CINECA finalized the storyboard that is currently under approval from the partners.

Milestones:

- *None*

Deliverables:

- D5.1 *Dissemination and Communication Plan*

Lead partner: UNITUS

Other contributing partners: All

Activity 6 - Open Data and Services Exploitation Portal for the livestock sector

Task 6.1: *Open Data Policy (M1-M12)*

Task 6.2: *Open Data Catalogue (M1-M30)*

Task 6.3: *Open Data and Services Exploitation Portal (M13-M27)*

Task 6.4: *Visualization and dissemination tools (M13-M27)*

Description of activities

Main outputs achieved (as per GA and milestones):

- No main outputs expected for the first semester

In addition, the following activities have been performed:

- Planning and Coordination of dedicated meetings to discuss the implementation of the Services described in the proposal
- Creation of a template to collect and define the requirements of each Service, for instance: stakeholders involved, objective and scope, input and output data, related policy and expected data flow.
- Service 2 "Intensive farming risk management under climate extremes": analysis of the service and definition of requirements started

Milestones:

- *None*

Deliverables:

- *None*

Lead partner: CINECA

Other contributing partners: CMCC, UNITUS, AIA, UCSC, NATURE4.0, NEATEC

2.4. Conclusions on results of the Action, including the impact of the possible deviation on 1) the objectives of the action, 2) the completion of the planned activities and 3) the cost-breakdown

The Action is regularly progressing without any deviations affecting the objectives, planned activities or cost-breakdown.

All tasks are on time and all milestones have been properly delivered.

3. VISIBILITY OF UNION FUNDING

What measures have been taken to publicize the Action, including EU funding (GA II.7.1)?

The Action, the funding Agency, and the Eu logo have been promoted throughout the various activities carried out in the first six months of the project, including the official website of the Action and partners' websites, leaflet, various project templates and communication tools.

Moreover, during the first semester UNITUS attended the conference on "Certification, digitalization and health prevention in support of extensive zootechnics" held at Agriumbria and organized by A.I.A and introduced the Action SEBASTIEN.

4. OTHER SOURCES OF EUROPEAN UNION FUNDS

If applicable, provide information about other sources of EU funds (CEF, ERDF, Cohesion Fund, H2020, TEN, EEPR, EIPA, etc.) used for the action (including previous or subsequent phases not covered by the Grant Agreement).

Not applicable.



5. COMPLIANCE WITH EU LEGISLATION

Where relevant, provide information on the compliance with EU legislation regarding other matters (notably public procurement, competition, regulatory matters, etc...).

During the first semester, there haven't been any relevant compliance matters to report.

6. COMPLIANCE WITH CORE PLATFORM AND POLICY OBJECTIVES

Information on the compliance with the core service, including conformity with relevant technical specifications and alignment with the policy objectives of the Digital Service Infrastructure (as specified in the relevant CEF Telecom Work Programme).

No activities related to compliance have been carried out yet.