



EU ENVIRONMENTAL SCENARIOS FOR ERA OF NON-TARGET ORGANISMS

OC/EFSA/PREV/2023/02



11 May 2023

The event will start at 15.00 CEST

WELCOME!

Agenda of the day

15:00

Opening remarks

15:05

Call for tender EU scenarios: Background, Objectives, Tasks & Deliverables, Criteria

15:35

Conclusions

Call for tender [OC/EFSA/PREV/2023/02](#) published on 7th April 2023 on TED e-Tendering



PRACTICAL ISSUES ABOUT THIS EVENT

One way communication

Event recorded

Questions during the webinar

Answers after the webinar

Questions after the webinar

Survey on event

- Automatically connected, listening mode
- Recording available after the event on EFSA website & TED eTendering
- Use the chat box function
- Answers will be provided in writing after the event on TED eTendering, Q&A section
- Further questions must be submitted by TED eTending, Q&A tab, "create a question" (registration to TED e-tending required)
- Provide your feedback on the event



PRESENTATION OF THE CALL

- Background and overarching goals
- Objectives overview
- Objective 1: Tasks and deliverables
- Objective 2: Tasks and deliverables
- Objectives 3/4: Tasks and deliverables
- Envisaged process and timeline
- Selection and award criteria



BACKGROUND

- ERA performed within the PPP authorisation process should be able to predict risks over large geographical areas (e.g., over an entire country, regulatory zone, or even over the entire EU).
- The nature and the magnitude of environmental risks are very much influenced by several biotic and abiotic factors, which are variable in space and time.



This ... is not the same as ... This

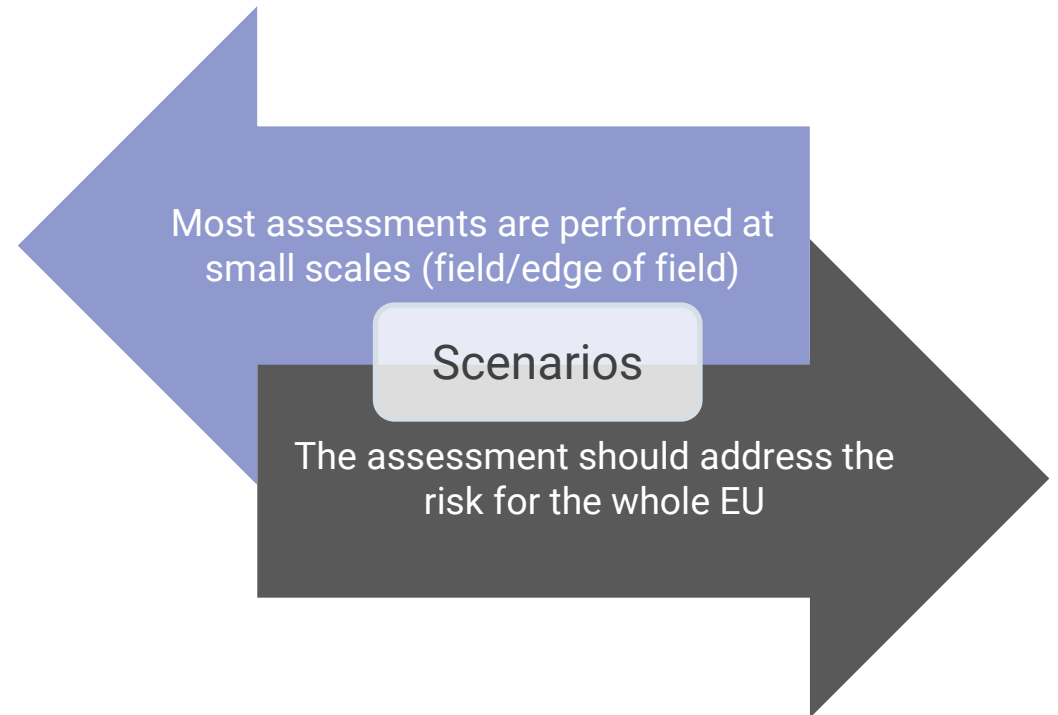


- Accounting for context-dependent factors is pivotal in developing future methods for ERA.



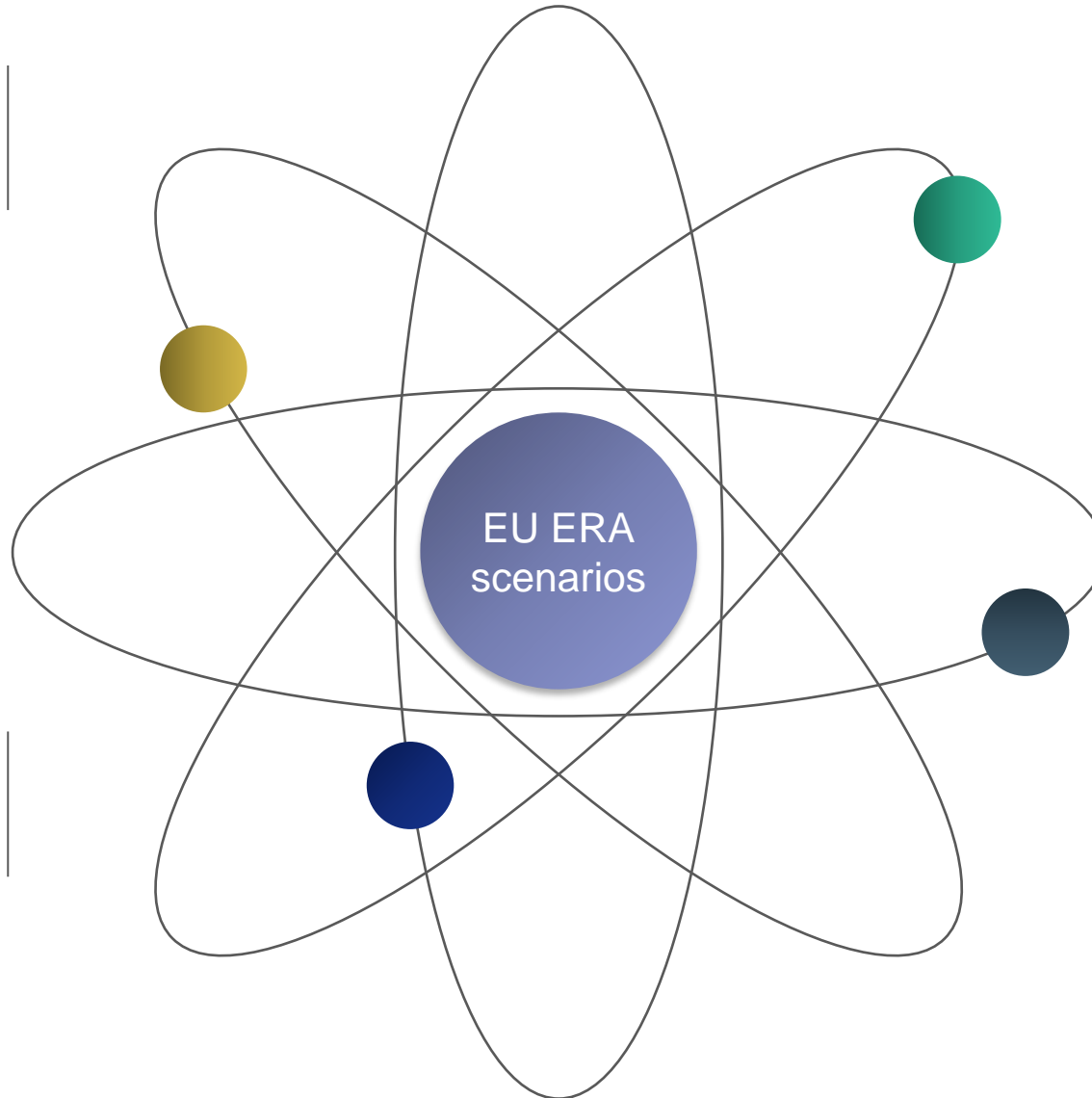
BACKGROUND

- Performing ad-hoc assessments for each specific context in the entire EU does not appear as a convenient solution
- Scenarios help considering the most relevant combinations of drivers without getting into impractical site-specific assessments
- Maximise relevance and realism of PPP risk assessment in the context of EU agriculture
- Focus of the call:
 - Terrestrial environments. Data for aquatic environments will be collected, but aquatic scenarios will not be developed for the time being
 - Cropped areas + field margins + other semi-natural areas in terrestrial agro-ecosystems



OVERARCHING GOALS

Provide context for running simulations with population models



Align conditions for the exposure assessment and the risk characterization (spatial, temporal, and ecological aspects)

Representativeness of higher tier studies and extrapolation of findings

Define baseline conditions for specific assessments and for SPG derivation



OBJECTIVES

Objective 1 - Collection of georeferenced data of field margin and other semi-natural landscape elements.

Objective 2 - Characterisation of habitat in agro-ecosystems and vulnerability of biological assemblages in fields and in semi-natural landscape elements

Objective 3 – Definition of environmental scenarios

Objective 4 – State of the art regarding food web/ ecological interaction models and their use in ERA of PPPs.

- Single call (no division in lots)
- Max call 6.0 M
- **Consortium creation** is possible and encouraged in view of the diversity of the objectives



OBJECTIVE 1: SUB-OBJECTIVES

Objective 1 - Collection of georeferenced data of field margin and other semi-natural landscape elements

Sub-objective 1.1 - Define Tier-1 geographical cluster

Perform an analysis of the entire EU agricultural land which involves existing pedoclimatic data, elevation, land cover/use data, crop groups distribution, field/farm areas and other agronomic information, to identify Tier-1 clusters of similar agricultural landscapes

Sub-objective 1.2 - Make an inventory of water body types

Identify typical water bodies in agricultural landscape per each Tier-1 cluster

Sub-objective 1.3 - Identify mapping locations

Identify locations on which a more in-depth analysis would have to be performed. Selection should also consider several strata, including tier-1 clusters and presence of water bodies

Sub-objective 1.4 - High resolution mapping

Collect and/or produce high resolution maps of the locations identified in sub-objective 1.3

Sub-objective 1.5 - Mapping validation and integration

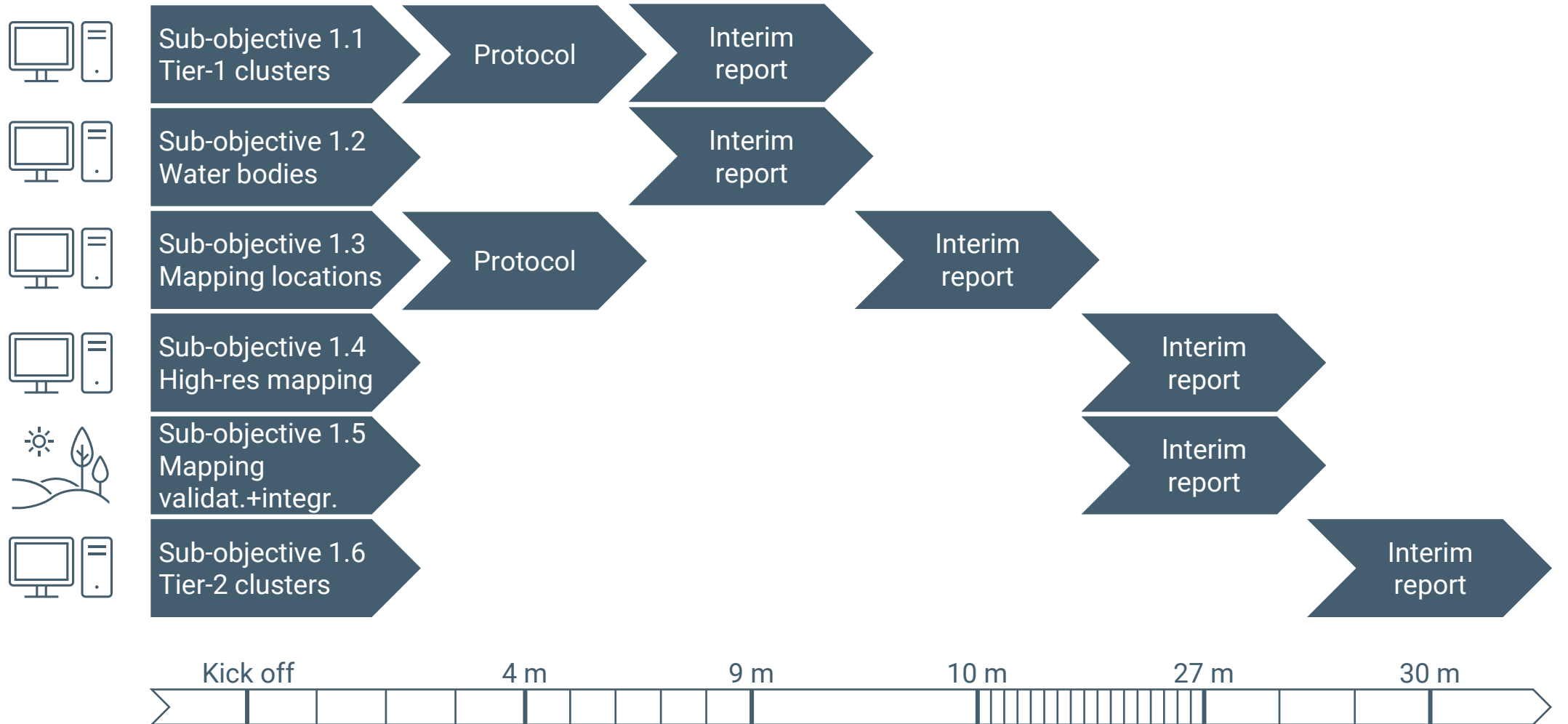
Validate maps and endpoint of interests and integrate endpoints of interests by performing field surveys

Sub-objective 1.6 - Define Tier-2 landscape clusters

Integrate information from Tier-1 clusters with high-resolution information on landscape structure into Tier-2 clusters



OBJECTIVE 1: TASKS AND DELIVERABLES



OBJECTIVE 2: SUB-OBJECTIVES #1

Objective 2 - Characterisation of habitat in agro-ecosystems and vulnerability of biological assemblages in fields and in semi-natural landscape elements

Sub-objective 2.1 - Systematic literature review + scan the environment (terrestrial communities)

Perform a systematic literature review + scan the environment for existing databases concerning the composition of terrestrial communities in European agro-ecosystems

Sub-objective 2.2 - Explore citizen's science projects

Investigate the possibility to use information collected via citizen science platforms to complement the information from sub-objective 2.1

Sub-objective 2.3 - Vegetation survey

In a subset of locations mapped under sub-objective 1.4, perform a temporal series of vegetation surveys in-field (weeds) and in the semi-natural landscape elements covering at least 1 year

Sub-objective 2.4 - Field monitoring

Monitoring of terrestrial non-target organisms in-field and semi-natural landscape elements covering at least 1 year

Sub-objective 2.5 - Characterise biological communities

Make use of information of sub-objectives 2.1 to 2.4 to characterise the composition of the biological communities in each Tier-2 cluster



OBJECTIVE 2: SUB-OBJECTIVES #2

Objective 2 - Characterisation of habitat in agro-ecosystems and vulnerability of biological assemblages in fields and in semi-natural landscape elements

Sub-objective 2.6 - Systematic literature review (traits +ecotox)

Perform a systematic literature review in order to extract relevant traits + existing ecotoxicological information

Sub-objective 2.7 – Ecotoxicology testing

Test a set of potentially vulnerable species with several pesticide active substances with different modes of actions

Sub-objective 2.8 - Identify vulnerable species

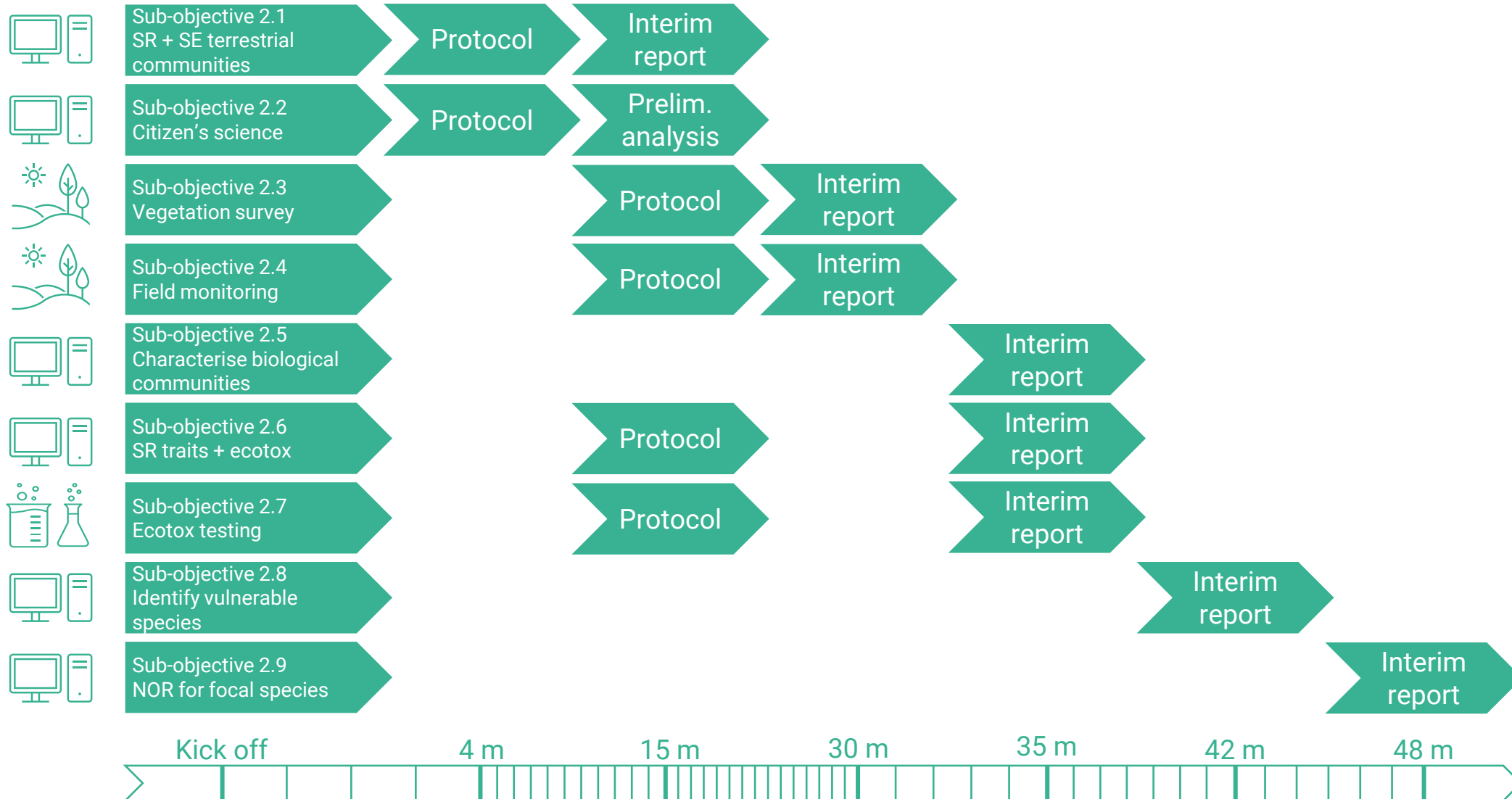
Identify focal vulnerable species based on the information collected from sub-objectives 2.6 and 2.7

Sub-objective 2.9 - Normal operating range for focal species

Perform an analysis of the normal operating range for the focal species identified under sub-objectives 2.8



OBJECTIVE 2: TASKS AND DELIVERABLES



OBJECTIVES 3/4: SUB-OBJECTIVES

Objective 3 - Definition of environmental scenarios

Sub-objective 3.1 - Define Tier-3 clusters

Refine Tier-2 clusters into Tier-3 clusters, by considering the ecological information from objective 2

Sub-objective 3.2 - Define final scenarios

Characterise the final environmental scenarios

Objective 4 - State of the art regarding food web/ecological interaction models and their use in ERA of PPPs.

Sub-objective 4.1 - Systematic literature review (food web)

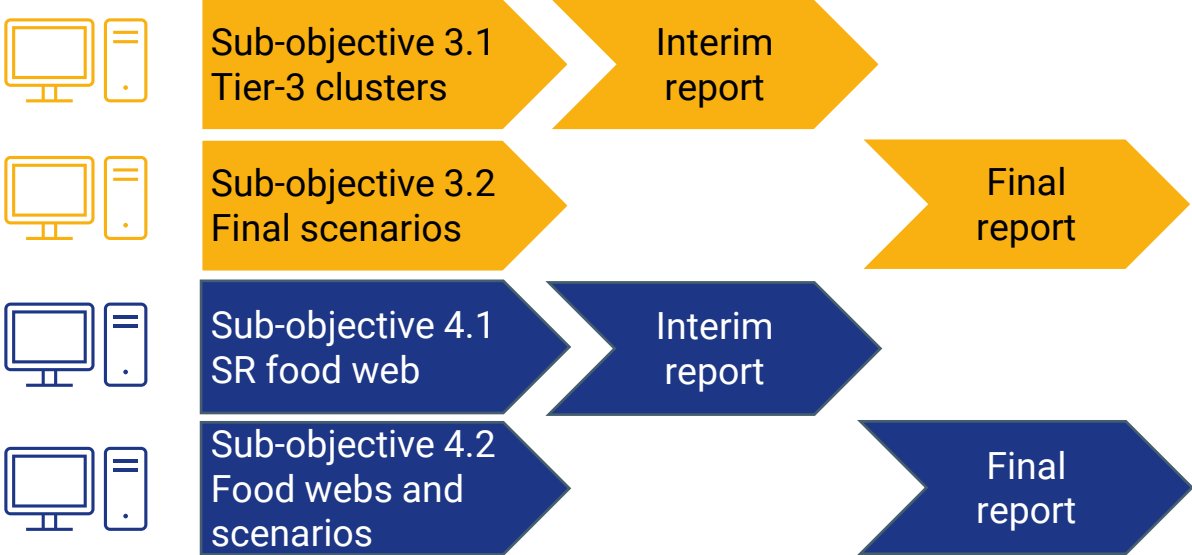
Perform a systematic literature review on food webs and related models

Sub-objective 4.2 - Food webs and environmental scenarios

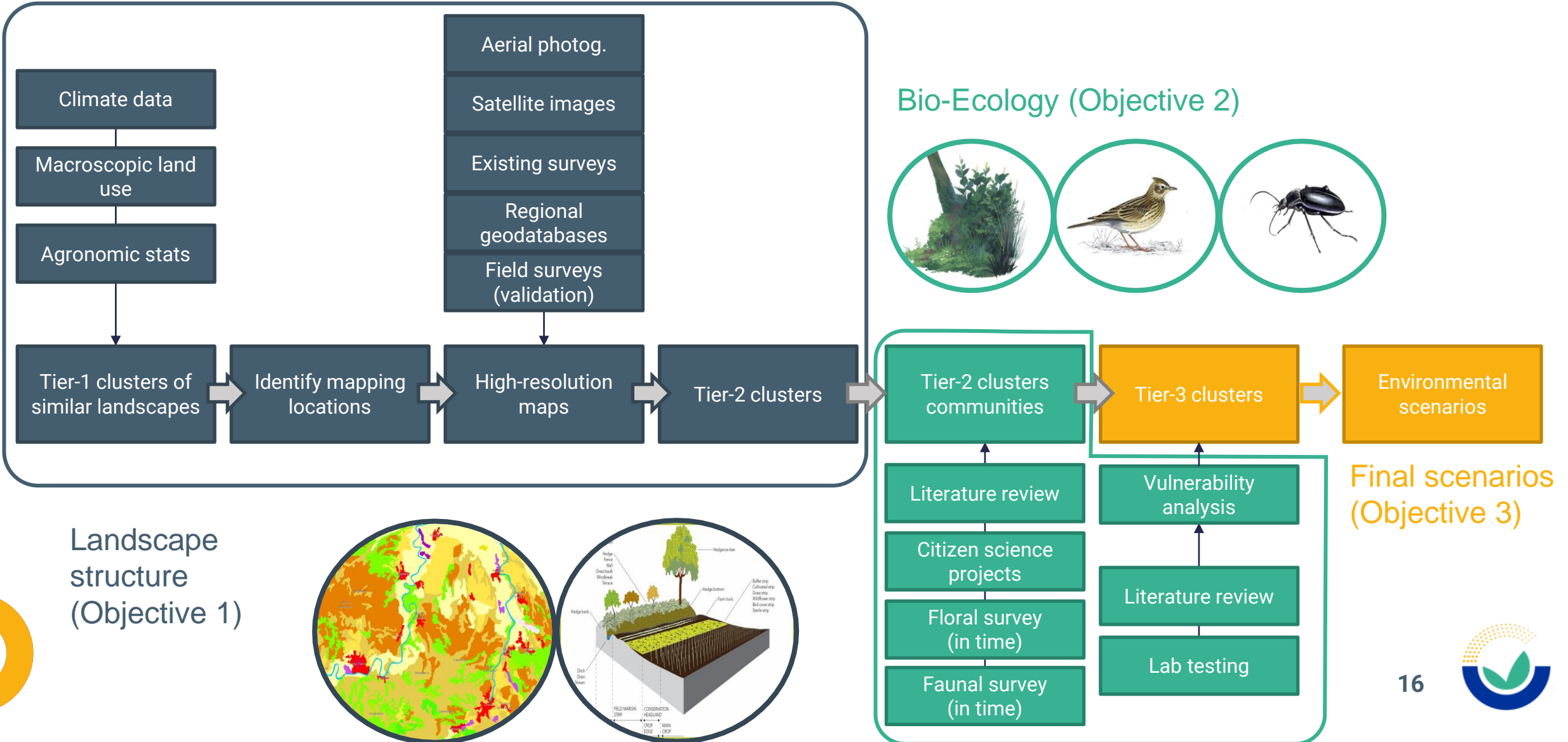
Analysis of food webs and applicability to scenarios defined in objective 3 for the ERA of PPP



OBJECTIVES 3/4: TASKS AND DELIVERABLES

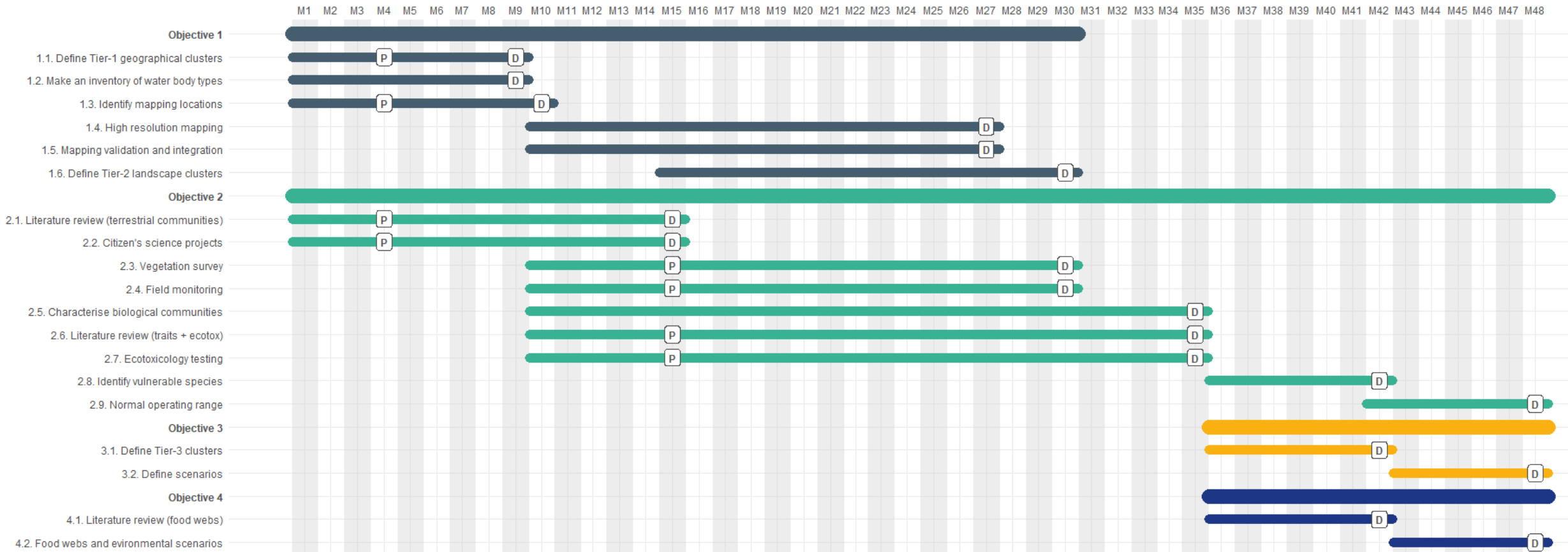


SCENARIO DEVELOPMENT PROCESS



ENVISAGED TIMELINE

Main meetings



SELECTION CRITERIA (SECTION 2.4 TENDER SPEC)

Professional capacity:

1. Extensive and demonstrable experience in four main areas
 - Geospatial data
 - Information service
 - Ecology of terrestrial ecosystems
 - Ecotoxicology and ERA for terrestrial organisms
2. Ability to provide a team of:
 - 1 senior expert with at least 10 years of experience in **project management**;
 - 2 **GIS specialists** with at least 5 years of experience;
 - 2 experts with at least 5 years of experience in **spatial data analysis** (geostatistics/data science);
 - 2 **land survey technicians** with at least 2 years of experience;
 - 5 experts with at least 5 years of experience in the **ecology** and **taxonomy of terrestrial organisms**;
 - 3 experts with at least 5 years of experience in **botany**;
 - 3 experts (one per each regulatory zone) with at least 5 years of experience in **agronomy**;
 - 2 senior experts (10 years of experience) and three junior experts (2 years of experience) in **ecotoxicology** and **environmental risk assessment**;
 - 1 expert with at least 5 years of experience in ecology, with reference to food webs and other ecological interactions
3. English language

Technical capacity

Overall at organizational level:

- a) have access to relevant databases for performing literature searches and a range of public resources (e.g. CORDIS database; EU regional policy programmes; national/regional geoportals);
- b) have an architecture for digital collaboration, including video/tele-meeting facilities for progress meetings, and a common document management system for simultaneous handling of documents;
- c) have access to sufficient computing capacity to run up-to-date GIS software for elaborating large amount of data;
- d) have the necessary equipment to perform field work (e.g., sampling/sorting tools) and the ability to transport it to anywhere this is necessary according to the project plan;
- e) have access to state-of-the-art laboratory for carrying out ecotoxicity testing and analysing pesticides in different environmental matrices



AWARD CRITERIA

AWARD CRITERIA

(Section 2.6 tender specifications)

Quality

Methodology proposed for implementation
(maximum 45 points / minimum 27)

Project organization
(maximum 30 points / minimum 20)

Risk identification and management
(maximum 25 points)

Best Price-Quality ratio

Formula on page 37 tender specifications



THANK YOU FOR ATTENDING THE EVENT



Call deadline
30/06/2023
14:30 CEST

The recording of this event will be available on the [EFSA website](#) and on [Ted e-Tendering](#) in a few days. Any question collected, will be anonymised and answered in writing and published on Ted e-Tendering, Q&A section, shortly after the event.



WP6: ERA METHODOLOGIES FOR PPP OF LOW CONCERN

ERA of PPPs with a low toxicological profile could be leaned, simplified and speeded up by focusing only on aspects of potential risk.

The scope of the project is to develop:

- science-based criteria for data waiver (problem formulation);
- alternative methods for exposure and hazard assessment for PPPs



2023



500 K*



Grant**

** indicative*

*** to be determined*

FRAMEWORK PARTNERSHIP AGREEMENT (FPA)

The purpose of this FPA is to address different needs in the area of ERA e.g.:

- Collect and generate data enabling the integration of landscape and ecology features,
- Further improve the current knowledge on the exposure of non-target organisms in agro-ecosystems
- Identify innovative tools for assessing the PPPs effects at higher level of biological organisation.



Survey for market analysis:

https://ec.europa.eu/eusurvey/runner/GP_EFSA_PREV_2023_01_PERA



Max budget: 11.2 Mil*

* indicative



4y



Consortia
mandatory



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