Expert Visit 2
WP5

3rd -6th April 2022

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BIOLAWEB

Acronym:	BIOLAWEB Boosting Institute of Chemistry, Technology and Metallurgy in Water Biomonitoring
Grant No:	10109234
Type of action:	HORIZON Coordination and Support Actions (HORIZON - CSA)
Starting Date:	01/10/2022
Duration:	36 months

WP 5

DAY 2 (Tuesday 4th April) 10:00 – 17:00

WORKSHOP
How to build a competitive proposal to Horizon Europe,
by Louise Vaast

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Let's know each other better

types of programs/project calls for which **you have applied** during the last 5 years (2018-2023)

H2020	19
HORIZON	16
COST	**39**
ERASMUS +	**24**
Bilateral	**61**
NATO	8
Science Fund RS	**87**
Postdoc. Fell.	3
other	**49**
None	**34**

types of programs/project calls in which **you have participated** during the last 5 years (2018-2023)

H2020	9
HORIZON	13
COST	**44**
ERASMUS +	**18**
Bilateral	**56**
NATO	10
Science Fund RS	**41**
Postdoc. Fell.	3
Other	**40**
None	**38**

types of programs/project calls **you plan to apply** for in 2023

HORIZON	34
COST	15
ERASMUS +	18
Bilateral	**48**
NATO	5
Science Fund RS	**78**
Postdoc. Fell.	12
Other	29
None	**53**

main obstacles to achieving better success in international project applications for you

Lack of inform. for call	52
Lack of state-of-the-art equipment	90
Lack of writing skills	54
Lack of scientific partners willing to cooperate	61
None	20
Other	11

How likely are you to apply **as a project coordinator** for HORIZON EUROPE projects (e.g. RIA, CSA, MSCA, ERC, IA, EIC) in 2023

Very likely	11
Likely	20
I am not sure	**49**
Not likely	**50**
Certainly not	**43**

skills/competencies staff working in the International Cooperation and Project Office at ICTM should improve to help researchers

Find a call	76
Make budget	88
Write a part of the proposal	49
Fill in the admin. part	135
None	12

the European Union

How to build a competitive proposal

Objective of today :

✗ Cover everything – Not enough time

✓ Understand better the programme, the EC expectations and end the day with some helpful tips

1. **Find your way in Horizon Europe**
   - **Horizon Europe in a nutshell**
   - **Focus on the Second Pilar – Global Challenges & Competitiveness**

2. **The Proposal step-by-step**
   - **PART A - Application form**
   - **PART B - Technical description (the project)**

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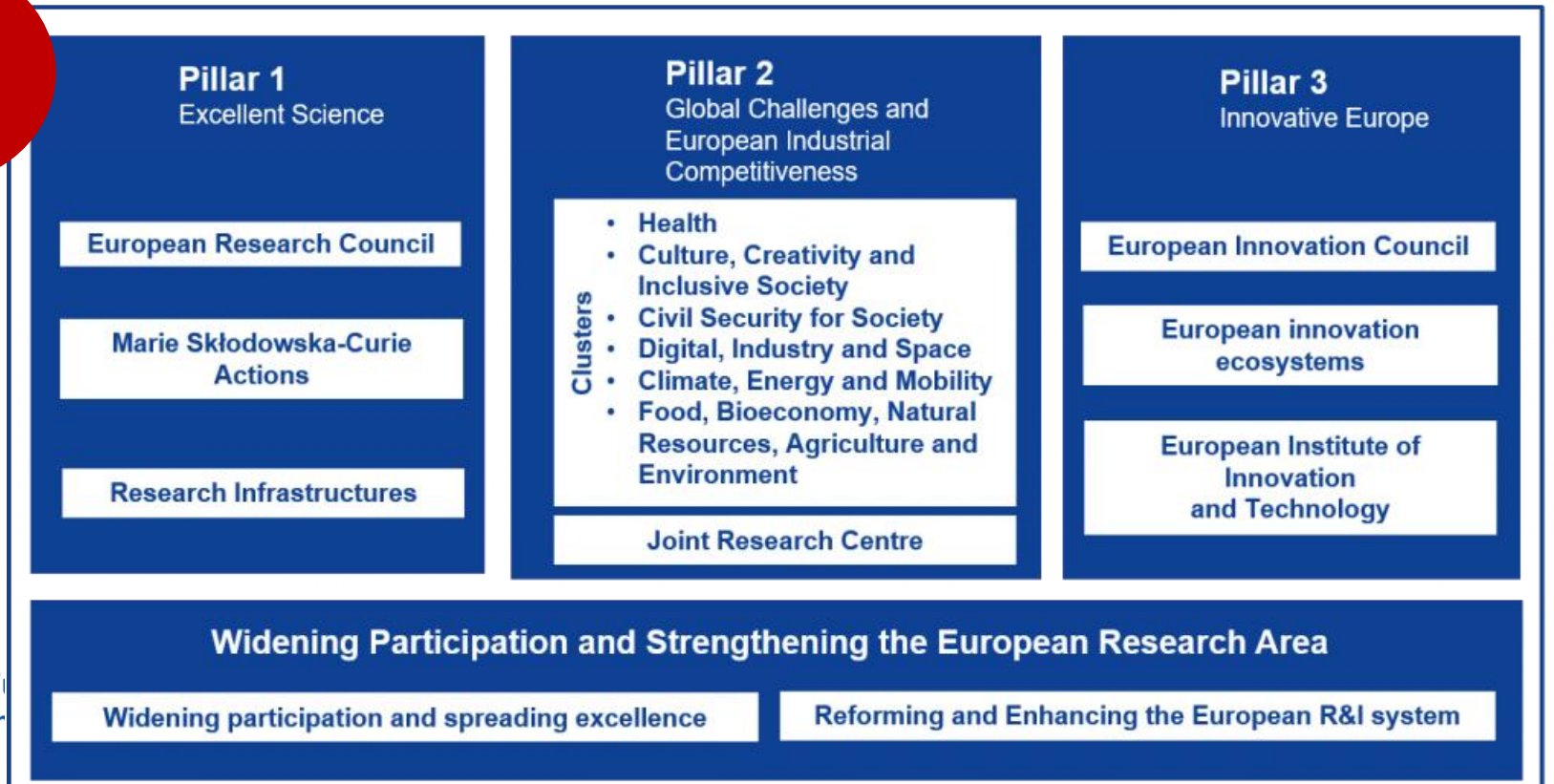
Find your way in Horizon Europe

Horizon Europe in a nutshell

95,5 Md€



Find your way in Horizon Europe

Transversal Pilar –Widening & EER

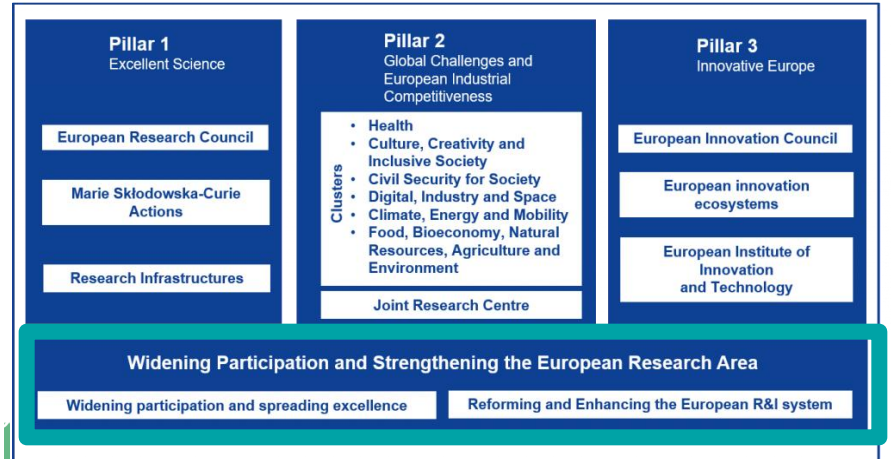
"**Working together to achieve more**": develop structural changes leading to modernised and more competitive research and innovation system, increase attractiveness for talents, increase skills of researchers, support higher participation success in Horizon Europe, encourage stronger linkages between develop type of actors…

Actions	Consortium structure	Policy objectives
TEAMING	Main beneficiary + 1 or 2 strategic advanced partners	Develop **role models** to **stimulate excellence**, **new investments** and **reforms**
TWINNING	Main beneficiary and network of partnering organisations	Develop excellence in a chosen domain, increase **visibility and upskill staff**
ERA CHAIRS	One host organisation to the selected ERA chair with optional partner organisation	Help excellent scientists to **become game changers**
COST*	Cross-border scientific network	Help excellent researchers and innovators **get access to the European and international networks**

* European Cooperation in Science and Technology (COST)

NEW

HOP ON : to support some entities to join already ongoing R&I projects (already funded) >>> the coordinator, with the agreement of all consortium partners, can respond to an hop on call to allow the accession of a new widening partner (if selected : amendment to the ongoing project)



Find your way in Horizon Europe

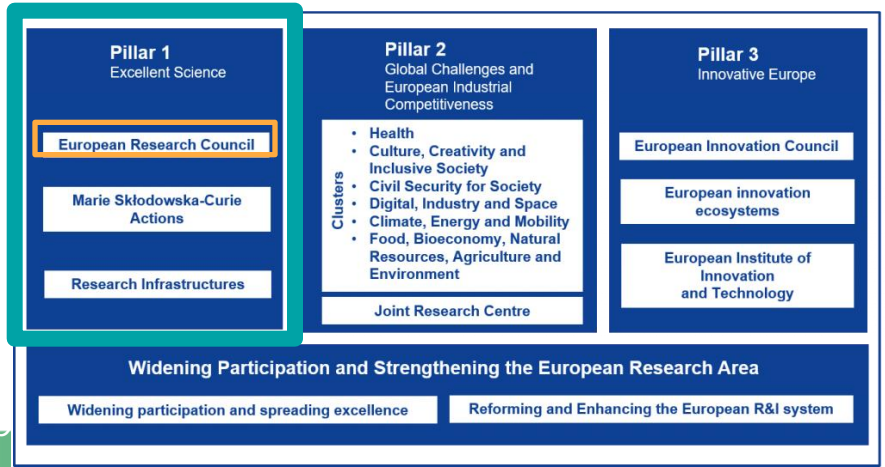
Horizon Europe in a nutshell

ERC.

Support outstanding individual researchers
Focus on the quality of research – « Excellence » as the main objective
International visibility – widely recognised
Bottom up approach – any thematic can be concerned

3 main grants

Starting	Consolidator	Advanced
Young researcher (2-7 years after PhD)	Researcher (7-12 years after PhD)	Experienced researcher (ecellent track-record in the last 10 years)
1,5 M€	2 M€	2,5 M€
Build a research team around an original theme	Propose a topic that is different from your research activity	Propose a topic that is different from yolu research activity
5 years		



Find your way in Horizon Europe

Horizon Europe in a nutshell

MSCA.

Support researchers at all stages of their **career** with new knowledge and skills, through **mobility** across borders and exposure to different sectors and disciplines
Bottom-up call – any thematic concerned

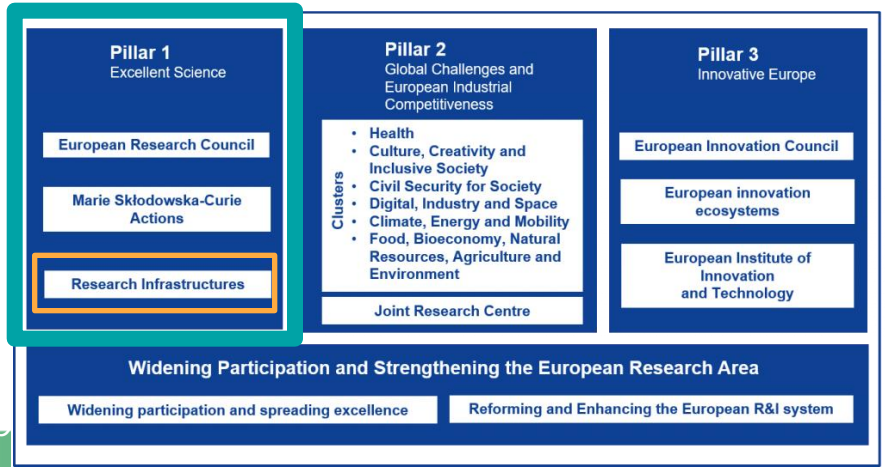
Postdoctoral Fellowship	International mobility for individual research projects European and Global Grants	Individual researcher and host institution	Postdoctoral researcher (<8 years after PhD)	EU: 12-24M Global: 24-36M
Doctoral Networks	Joint doctoral programmes - Industrial doctorates and joint doctorates	Consortium of at least 3 academic & non-academic actors	PhD students (each beneficiary must recruit at least 1 PhD student)	Programme: max. 4 years Scholarships: 3-36M
Staff exchanges	Exchanges of personnel involved in R&I for the development of a cooperative project	Consortium of at least 3 academic & non-academic actors	Researchers, technical and administrative staff	Projects: Max. 4 years Detachments: 1-12M/staff

Find your way in Horizon Europe

Horizon Europe in a nutshell

INFRA.

Calls to support the creation of pan-European research infrastructures, transnational access to national or institutional research infrastructures, the development of new technologies or digital solutions in the framework of these research infrastructures



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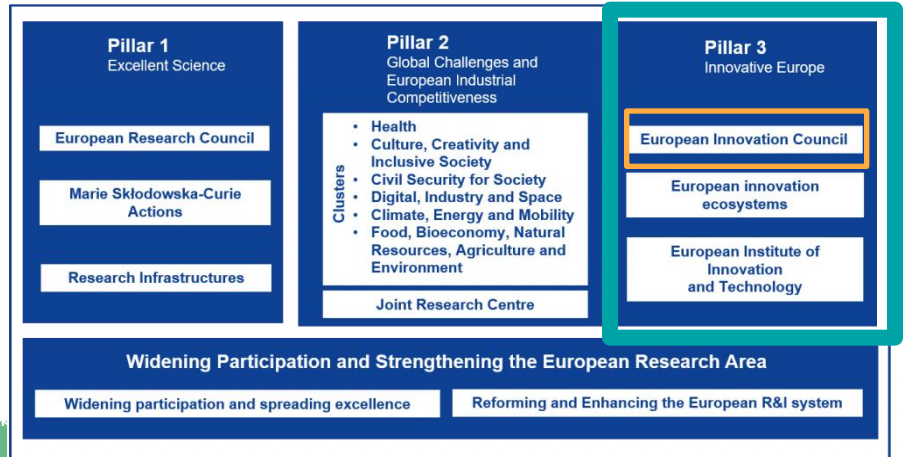
Find your way in Horizon Europe

Horizon Europe in a nutshell

Objective: to support disruptive innovations with the idea of covering the entire innovation chain from idea to marketing

PATHFINDER instrument: very low TRL project (1-3) with a grant of up to 3M€ to explore research areas and themes likely to lead to advanced technologies.
Consortium: research organization, SME, industry, university...



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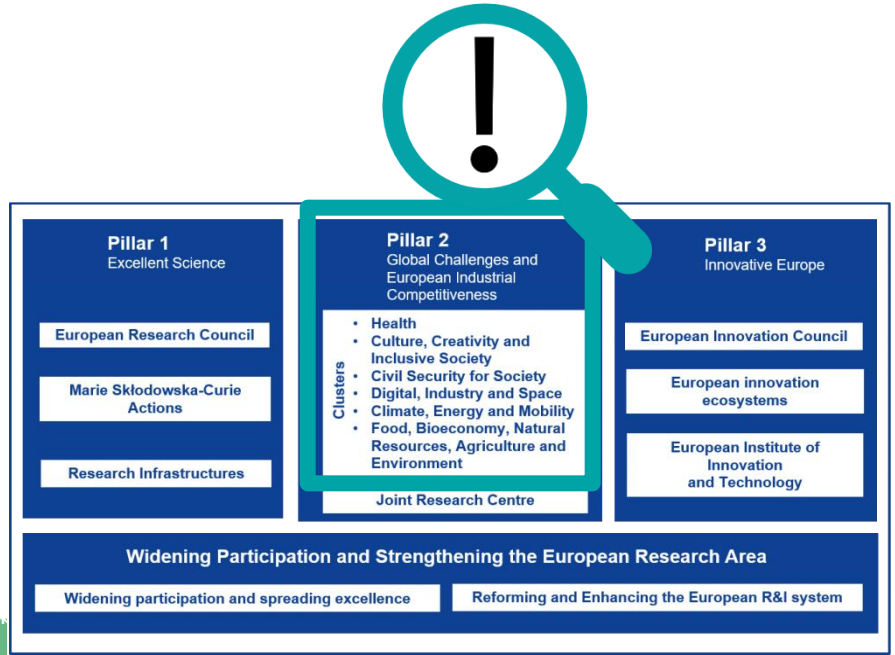
Find your way in Horizon Europe

Horizon Europe in a nutshell



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Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness

- A very wide range of thematic areas covered → your key words should be in at least 1 of the Work programme
- Participate to a transnational and transdisciplinary scientific community to address a global issue
- Benefit from a very interesting funding – 100% of eligible costs funded for research institutes, including salaries and the possibility of hiring contract staff for the project (exception : 70% for profit entities in some cases)
- How to be involved ?

Coordinator

Strong visibility
Strategic vision for the project
Scientific orientations leader
Animation of the consortium
Unique contact point with the EC

Work-package leader

Strong involvement & inputs
Responsible for the scientific orientation of one project axis
Support to the coordinator
Role in the dynamic of the consortium

Participant

Inputs in one or several tasks in work packages based on the expertise

Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness

CLUSTERS

6 thematic areas (divided in several sub-thematic – « Destinations ») to tackle global challenges

- Health
- Culture, Creativity and Inclusive Society
- Civil Security for Society
- Digital, Industry and Space
- Climate, Energy and Mobility
- Food, Bioeconomy, Natural Resources, Agriculture and Environment

environmental observation
biodiversity and natural resources
agriculture, forestry and rural areas
seas, oceans and inland waters
food systems
bio-based innovation systems in the EU's bioeconomy
circular systems

* **EU Missions:**
Additional Work Programmes dedicated to 5 key challenges : Soil health; Adaptation to Climate Change; Oceans & Waters; Climate neutral and smart cities; Cancer

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Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness

CLUSTERS

6 thematic areas (divided in several sub-thematic – « Destinations ») to tackle global challenges

European & international cooperation

Collaborative projects, with at least **3 countries** involved and open to international cooperation by default

EU Members States + Associated countries

(16 countries, **including Serbia**, and new ones should become associated soon)

To know more about participation of countries in HE, check the list regularly updated (V2.4)

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Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness

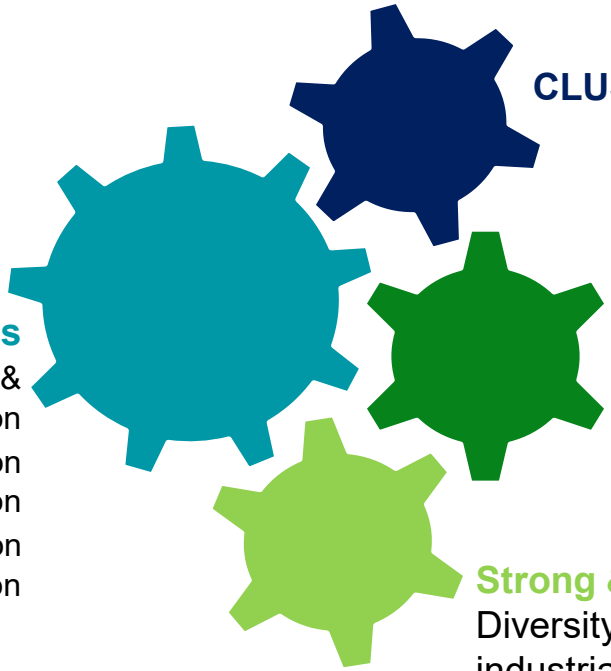
- Research and innovation actions (**RIA**) — Activities that aim primarily to establish new knowledge or to explore the feasibility of a new or improved technology, product, process, service or solution. This may include basic and applied research, technology development and integration, testing, demonstration and validation of a small-scale prototype in a laboratory or simulated environment.
  → **TRL 3 to 5** / from 3 to 5 years

- Innovation actions (**IA**) — Activities that aim directly to produce plans and arrangements or designs for new, altered or improved products, processes or services. These activities may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.
  → **TRL 5 to 7** / from 3 to 5 years

- Coordination and support actions (**CSA**) — Activities that contribute to the objectives of Horizon Europe. This excludes research and innovation (R&I) activities, except those carried out under the 'Widening participation and spreading excellence' component of the programme (part of 'Widening participation and strengthening the European Research Area'). Also eligible are bottom-up coordination actions which promote cooperation between legal entities from Member States and Associated Countries to strengthen the European Research Area, and which receive no EU co-funding for research activities.
  → **No TRL** / from 1 to 5 years

Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness



CLUSTERS

6 thematic areas (divided in several sub-thematic – « Destinations ») to tackle global challenges

Type of actions

RIA : Research & innovation action

IA : Innovation action

CSA : Coordination & support action

European & international cooperation

Collaborative projects, with at least 3 countries involved and open to international cooperation by default

Strong & varied partnerships

Diversity of scientific disciplines and actors (academic, industrial, public authorities, NGOs…)

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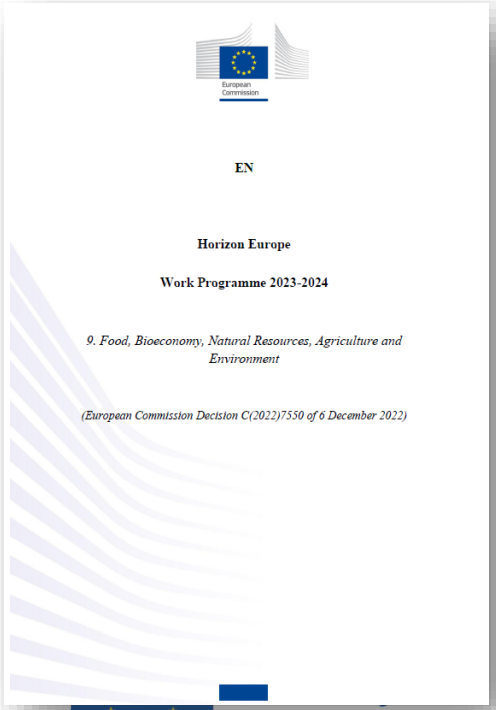
A LOT OF POSSIBILITIES FOR CANDIDATES
A LOT OF EXCEPTATIONS FROM THE EUROPEAN COMMISSION

Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness



EN

Horizon Europe

Work Programme 2023-2024

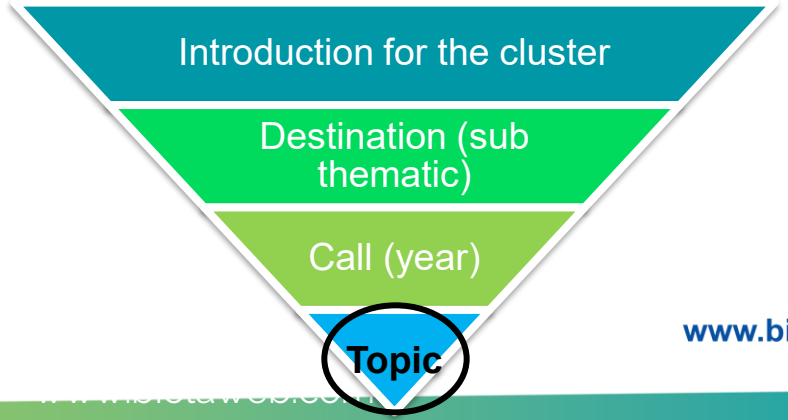
9. Food, Bioeconomy, Natural Resources, Agriculture and Environment

(European Commission Decision C(2022)7550 of 6 December 2022)

Work Programmes

- One by Cluster
- Bi-annual
- Available online (« Reference document » in the FTP)

Download the PDF to have an easier access to all information and look for your key words



Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness

HORIZON-CL6-2023-FARM2FORK-01-20: EU-Africa Union – food safety	
Specific conditions	
Expected EU contribution per project	The Commission estimates that an EU contribution of around EUR 5.00 million would allow these outcomes to be addressed appropriately. Nonetheless, this does not preclude submission and selection of a proposal requesting different amounts.
Indicative budget	The total indicative budget for the topic is EUR 10.00 million.
Type of Action	Research and Innovation Actions
Eligibility conditions	The conditions are described in General Annex B. The following exceptions apply: The following additional eligibility criteria apply: at least three partners from Africa and at least two from the same region as defined by the African Union (https://au.int/en/member_states/countryprofiles2). Due to the scope of this topic, legal entities established in in all African Union member states* are exceptionally eligible for Union funding. * "African Union member states" includes countries whose membership has been temporarily suspended.
	International organisations with headquarters in a Member State or associated country are exceptionally eligible for funding.
	The following additional eligibility criteria apply: the proposals must apply the multi-actor approach. See definition of the multi-actor approach in the introduction to this work programme part.
	The Joint Research Centre (JRC) may participate as member of the consortium selected for funding.
Legal and financial set-up of the Grant Agreements	The rules are described in General Annex G. The following exceptions apply: Beneficiaries may provide financial support to third parties. The support to third parties can only be provided in the form of grants. The maximum amount to be granted to each third party is EUR 60 000.

Specific (« unique ») topic launched for 1 year

Budget details for 1 project & Information on the indicative number of projects to be funded

Type of activities expected / level of technology readiness to reach at the end of the project

Specific international conditions (mandatory)

Opportunities for some actors (optionnal)

Expectations from the EU (important to take it into consideration)

Opportunities for some actors (optionnal)

Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness

Expected outcomes

- Early warning systems to inform relevant stakeholders…
- Creation of a knowledge platform for sharing information…
- A better understanding of the state of nature and of the drivers of biodiversity loss…
- Minimized pesticides impact on human and animal health…
- Address regulatory aspects…
- Map the most common types of damages caused and the positive externalities…
- Recommendations on alternative water resources options in water scarce areas…

Scope

Elements of context

- Globally, more than 820 million people have insufficient food intake and many more consume low quality diets…
- Agroecological farming systems have great potential to enhance the sustainability performance of agriculture and agricultural value chains…

R&I activities expected

- Collect relevant qualitative and quantitative data on environmental and climate impacts…
- Modelling of the ecological processes of natural ecosystems…
- Estimate the potential for degraded peatlands and wetlands…
- Organising demonstration and networking events with relevant actors of the food chain…
- Contribution to the joint EU-AU Innovation Agenda
- Enhance sharing of knowledge and best practice on adaptation to and mitigation of climate change…
- Perform international benchmarking of rural policies within the EU and third countries…
- Identify and analyse also successful policy measures aimed at creating opportunities for young people in rural areas…

Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness

- In order to achieve the expected outcomes, international cooperation is strongly encouraged
- Due to the scope of this topic, international cooperation is strongly encouraged, in particular with China
- In order to achieve the expected outcomes, international cooperation is encouraged in particular with North America

- Proposals must implement the 'multi-actor approach' and ensure adequate involvement of citizens and civil society

- The consortium selected for funding is encouraged to cooperate with actors such as the European Commission's Joint Research Centre (JRC).

- Proposals should include a dedicated task, appropriate resources and a plan on how they will collaborate with other projects funded under topics HORIZON-CL6-2021-FARM2FORK-01-03: Digitalisation as an enabler of agroecological farming systems

- This topic should involve the effective contribution of social sciences and humanities (SSH) disciplines (e.g., economics, international studies, development studies, political science, citizen engagement studies, and human geography)

Find your way in Horizon Europe

Focus on the Second Pilar – Global Challenges & Competitiveness

- ✓ Identification of topics with your scientific key words
- ✓ Reading of the full text – expected outcomes, scope, precisions on expectations
- ✓ Check the specific conditions (budget, type of actions…)

What role for you?

→ What can you do to meet the challenges? What is your expertise? Do you have partners with complementary expertises? …

Deadline
Evaluation in one or 2 steps

Time to think about the proposal

The Proposal step-by-step

PART A - Application form

Online – Funding & Tenders Portal
Generated by the coordinator but information provided by all participants

1 Participant = 1 legal entity = 1 PIC number

1. General information
2. Participants
3. Budget
4. Ethics and security
5. Other questions

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The Proposal step-by-step

PART A - Application form

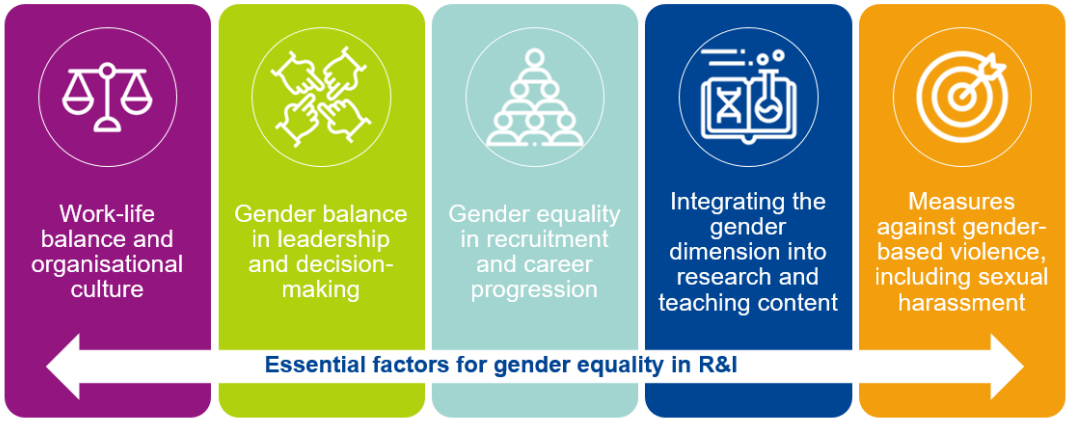
GEAR tool

Gender equality plan

Having a gender equality plan is an eligibility criterion for Public bodies, Higher education establishments and Research organisations from Member States and Associated Countries. Be aware that if the proposal is selected, having a Gender Equality Plan will be necessary before the grant agreement signature (applicable on calls with deadlines in 2022 and beyond). Does the organisation have a Gender Equality Plan (GEP) covering the elements listed below?	○ Yes	○ No

Gender Equality Plan

Mandatory for all public bodies, research organisations or higher education institutions (in MS or AC)



- **Public document**
- **Dedicated resources**
- **Data collection and monitoring**
- **Training and capacity building**

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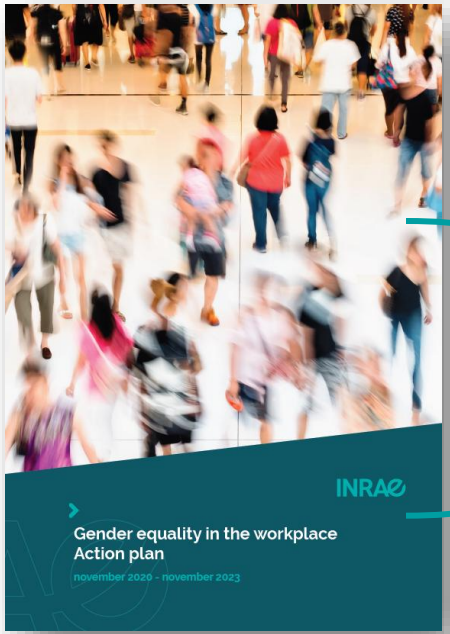
The Proposal step-by-step

PART A - Application form



INRAE Gender Equality Plan

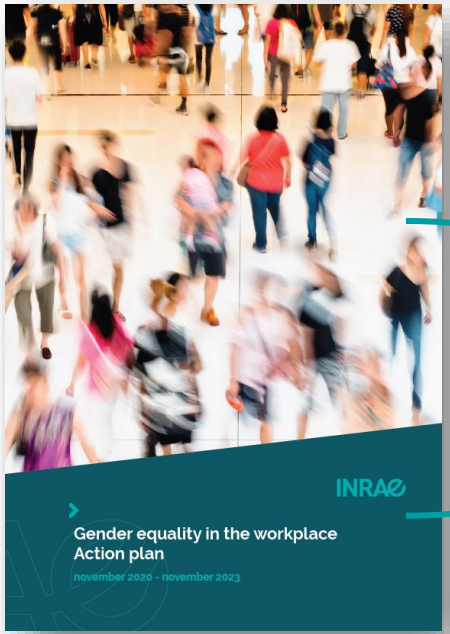
- Available online : download it
- In French & in English

- ✓ **Focus Area 1 - Assess, prevent, and deal with pay differentials**
- ✓ **Focus Area 2 - Ensure that women and men have equal access to the public service**
- ✓ **Focus Area 3 - Promote a better work-life balance**
- ✓ **Focus Area 4 - Prevent and eliminate discrimination, sexual and/or sexist abuse, psychological or sexual harassment as well as sexist behaviour**

Funded by the European Union

The Proposal step-by-step

PART A - Application form



INRAE Gender Equality Plan

- Available online : download it
- In French & in English

✓ **Focus Area 1 - Assess, prevent, and deal with pay differentials**

1. Further develop studies designed to objectively review the situation

Indicator: Publication of a comparative assessment each year. Objective: 1/year

2. Increase the role of women at the highest rungs of the job ladder and, in that way, reduce pay differentials

Indicator 1: Percentage of women and men eligible for promotion and actually promoted during the annual job advancement campaign by professional category and ranking

Indicator 2: Wage differential trends

Funded by the European Union

The Proposal step-by-step

PART A - Application form

GEAR tool

Gender equality plan

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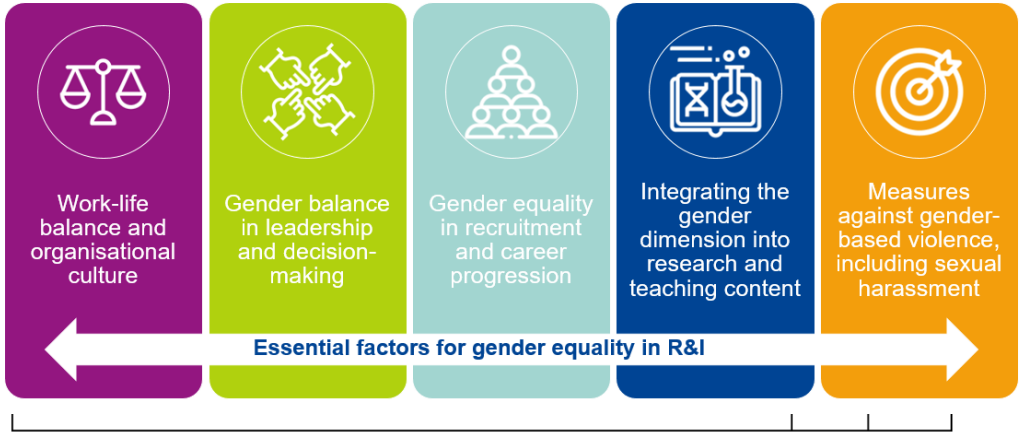

Gender Equality Plan

Mandatory for all public bodies, research organisations or higher education institutions (in MS or AC)

- **Public document**
- **Dedicated resources**
- **Data collection and monitoring**
- **Training and capacity building**

Gender aspects in the proposal are not just about GEP

→ **Important in PART B too**

The Proposal step-by-step

PART A - Application form

Online – Funding & Tenders Portal
Generated by the coordinator but information provided by all participants

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1. General information
2. Participants
3. Budget
4. Ethics and security
5. Other questions

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The Proposal step-by-step

PART A - Application form

4 – Ethics and Security

Ethics issues table

This table should be completed as an essential part of your proposal. Please go through the table and indicate which elements concern your proposal by answering 'Yes' or 'No'. If you answer 'Yes' to any of the questions,

- *indicate in the adjacent box at which page in your full proposal further information relating to that ethics issue can be found, and*
- *provide additional information on that ethics issue in the Ethics Self-Assessment section.*

For more information on each of the ethics issues and how to address them, including detailed legal references, see the guidelines 'How to Complete your Ethics Self-Assessment'.

1. HUMAN EMBRYONIC STEM CELLS AND HUMAN EMBRYOS			Page
Does this activity involve Human Embryonic Stem Cells (hESCs)?		○ Yes ○ No	
If YES:	Will they be directly derived from embryos within this project?	○ Yes ○ No	
	Are they previously established cells lines?	○ Yes ○ No	
	Are the cell lines registered in the European registry for human embryonic stem cell lines?	○ Yes ○ No	
Does this activity involve the use of human embryos?		○ Yes ○ No	
If YES:	Will the activity lead to their destruction?	○ Yes ○ No	
2. HUMANS			Page
Does this activity involve human participants?		○ Yes ○ No	
If YES:	Are they volunteers for nonmedical studies (e.g. social or human sciences research)?	○ Yes ○ No	
	Are they healthy volunteers for medical studies?	○ Yes ○ No	
	Are they patients for medical studies?	○ Yes ○ No	
	Are they potentially vulnerable individuals or groups?	○ Yes ○ No	
	Are they children/minors?	○ Yes ○ No	
	Are they other persons unable to give informed consent?	○ Yes ○ No	
Does this activity involve interventions (physical also including imaging technology, behavioural treatments, etc.) on the study participants?		○ Yes ○ No	
If YES:	Does it involve invasive techniques?	○ Yes ○ No	
	Does it involve collection of biological samples?	○ Yes ○ No	

Does this activity involve conducting a clinical study as defined by the Clinical Trial Regulation (EU 536/2014)? (using pharmaceuticals, biologicals, radiopharmaceuticals, or advanced therapy medicinal products)		○ Yes ○ No	
If YES:	Is it a clinical trial?	○ Yes ○ No	
	Is it a low-intervention clinical trial?	○ Yes ○ No	
3. HUMAN CELLS / TISSUES (not covered by section 1)			Page
Does this activity involve the use of human cells or tissues?		○ Yes ○ No	
If YES:	Are they human embryonic or foetal cells or tissues?	○ Yes ○ No	
	Are they available commercially?	○ Yes ○ No	
	Are they obtained within this project?	○ Yes ○ No	
	Are they obtained from another project, laboratory or institution?	○ Yes ○ No	
	Are they obtained from biobank?	○ Yes ○ No	
4. PERSONAL DATA			Page
Does this activity involve processing of personal data?		○ Yes ○ No	
If YES:	Does it involve the processing of special categories of personal data (e.g.: sexual lifestyle, ethnicity, genetic, biometric and health data, political opinion, religious or philosophical beliefs)?	○ Yes ○ No	
	If YES: Does it involve processing of genetic, biometric or health data?	○ Yes ○ No	
	Does it involve profiling, systematic monitoring of individuals, or processing of large scale of special categories of data or intrusive methods of data processing (such as, surveillance, geolocation tracking etc.)?	○ Yes ○ No	
Does this activity involve further processing of previously collected personal data (including use of preexisting data sets or sources, merging existing data sets)?		○ Yes ○ No	
Is it planned to export personal data from the EU to non-EU countries?		○ Yes ○ No	
If YES:	Specify the type of personal data and countries involved:		
Is it planned to import personal data from non-EU countries into the EU or from a non-EU country to another non-EU country?		○ Yes ○ No	
If YES:	Specify the type of personal data and countries involved		

The Proposal step-by-step

PART A - Application form

Does this activity involve the processing of personal data related to criminal convictions or offences?		○ Yes ○ No	
5. ANIMALS			Page
Does this activity involve animals?		○ Yes ○ No	
If YES:	Are they vertebrates?	○ Yes ○ No	
	Are they non-human primates (NHP)?	○ Yes ○ No	
	Are they genetically modified?	○ Yes ○ No	
	Are they cloned farm animals?	○ Yes ○ No	
	Are they endangered species?	○ Yes ○ No	
6. NON-EU COUNTRIES			Page
Will some of the activities be carried out in non-EU countries?		○ Yes ○ No	
If YES:	Specify the countries:		
In case non-EU countries are involved, do the activities undertaken in these countries raise potential ethics issues?		○ Yes ○ No	
If YES:	Specify the countries:		
Is it planned to use local resources (e.g. animal and/or human tissue samples, genetic material, live animals, human remains, materials of historical value, endangered fauna or flora samples, etc.)?		○ Yes ○ No	
Is it planned to import any material (other than data) from non-EU countries into the EU or from a non-EU country to another non-EU country? For data imports, see section 4.		○ Yes ○ No	
If YES:	Specify material and countries involved:		
Is it planned to export any material (other than data) from the EU to non-EU countries? For data exports, see section 4.		○ Yes ○ No	
If YES:	Specify material and countries involved:		
Does this activity involves low and/or lower-middle income countries? (if yes, detail the benefit-sharing actions planned in the self-assessment)		○ Yes ○ No	
Could the situation in the country put the individuals taking part in the activity at risk?		○ Yes ○ No	
7. ENVIRONMENT, HEALTH and SAFETY			Page
Does this activity involve the use of substances or processes that may cause harm to the environment, to animals or plants (during the implementation of the activity or further to the use of the results, as a possible impact)?		○ Yes ○ No	
Does this activity deal with endangered fauna and/or flora / protected areas?		○ Yes ○ No	
Does this activity involve the use of substances or processes that may cause harm to humans, including those performing the activity (during the implementation of the activity or further to the use of the results, as a possible impact)?		○ Yes ○ No	
8. ARTIFICIAL INTELLIGENCE			Page
Does this activity involve the development, deployment and/or use of Artificial Intelligence based systems? (if yes, detail in the self-assessment whether that could raise ethical concerns related to human rights and values and detail how this will be addressed).		○ Yes ○ No	
9. OTHER ETHICS ISSUES			Page
Are there any other ethics issues that should be taken into consideration?		○ Yes ○ No	
Please specify: (Maximum number of characters allowed: 1000)			

I confirm that I have taken into account all ethics issues above and that, if any ethics issues apply, I will complete the ethics self-assessment as described in the guidelines 'How to Complete your Ethics Self-Assessment'.

Ethical dimension of the objectives, methodology and likely impact

Explain in detail the identified issues in relation to:

- objectives of the activities (e.g. study of vulnerable populations, etc.)
- methodology (e.g. clinical trials, involvement of children, protection of personal data, etc.)
- the potential impact of the activities (e.g. environmental damage, stigmatisation of particular social groups, political or financial adverse consequences, misuse, etc.)

Compliance with ethical principles and relevant legislations

Describe how the issue(s) identified in the ethics issues table above will be addressed in order to adhere to the ethical principles and what will be done to ensure that the activities are compliant with the EU/national legal and ethical requirements of the country or countries where the tasks are to be carried out. It is reminded that for activities performed in a non-EU countries, they should also be allowed in at least one EU Member State.

The Proposal step-by-step

PART A - Application form

2. Humans	
Does this activity involve human participants?	(•) Yes ( ) No

→ interviews, serious games…

4. Personal Data	
Does this activity involve processing of personal data?	(•) Yes ( ) No

→ You will always have issue on personal data (with partners in the consortium, with people involved outside the consortium – for the communication & dissemination for exploitation…)

→ Respect the EU General Data Protection Regulation (GDPR)

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The Proposal step-by-step

PART A - Application form

- In PART A but not « just » administrative information / strongly linked to the activities of the project

! Don’t look at the questionnaire at the last time
! Don’t think you are not concern by these issues
! Don’t fill it in carelessly
! Don’t bet on the fact that it is not an evaluation criteria as such

✓ Incorporate an ethical reflection into the research (and not just for the project!)
✓ Think about the impact of the activities & Find out about all the regulations that might be related to the project
✓ Have a collective thinking about it – work with your partners
✓ Ask for help from experts
✓ Use the EU Guidance : “How to complete your ethics self-assessment”

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The Proposal step-by-step

PART A - Application form

Proposal building

1. Think about ethical aspects together with research activities
2. Fill in the questionnaire and bring complementary explanations if necessary with the support of the EU guidance

Evaluation phase

Ethics Screening & Ethics Assessment made by experts

→ Recommandations to the consortium

→ Some mandatory requests

Grant preparation

Implementation of recommandations and requests, such as (for e.g. appointment of independent expert, addition of a specific Work package…

Project

Attention to ethic issues according to the GA (review, reports…)

Grant preparation Phase can be tricky !

→ Not a lot of time

→ GA preparation but also in parrallel Consortium agreement preparation

→ Exchanges with the Exectutive agency that could be complicated

Avoid additional problems in a stressful time !

The Proposal step-by-step

PART B - Technical description (the project)

- **Templates** depending on the type of actions
- Pages limit : **45 pages** for a « classical » proposal – RIA/IA
- Whatever the call, the type of actions, etc. **always the same 3 criteria for the evaluation process** :

The Proposal step-by-step

PART B - Technical description (the project)

5 key questions

- What is the issue to be solved ? **Why bother** with this topic ?
- Does the **solution** already **exist** ? What have already be done to achieve it ?
- Why should it be done at the **European level** ? (Why the national or regional levelis not sufficient ?)
- Why should it be done **now**? **What** will happen **if** the project is not funded ?
- **Why** should **you** do it (and not someone else)? (why your consortium is the best?)

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The Proposal step-by-step

PART B - Technical description (the project)

Impact

European policies

UN's Sustainable Development Goals (SDGs), Green Deal, European Climate Law, Shaping Europe's Digital Future, Global Gateway Strategy…

The Proposal step-by-step

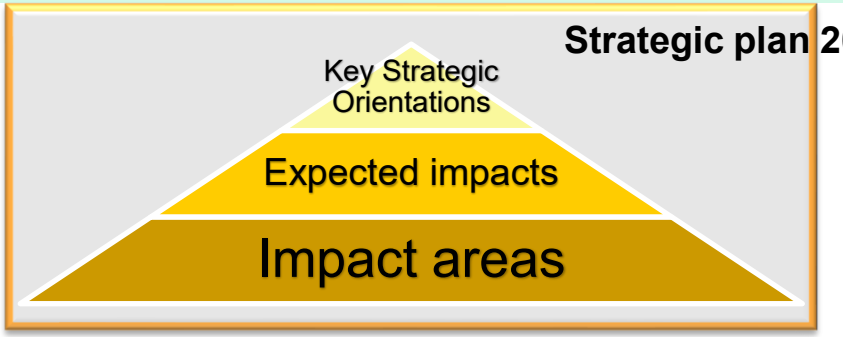
PART B - Technical description (the project)

Impact

European policies

Strategic plan 2021-24

Strategic plan 2025-27



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In response to the political priorities and recovery plan of the Union,
4 key strategic orientations for EU research and innovation have been defined for the period 2021-2024:

A. **Promoting an open strategic autonomy by leading the development of key digital, enabling and emerging technologies, sectors and value chains** to accelerate and steer the digital and green transitions through human-centred technologies and innovations;

B. **Restoring Europe's ecosystems and biodiversity, and managing sustainably natural resources** to ensure food security and a clean and healthy environment;

C. **Making Europe the first digitally enabled circular, climate-neutral and sustainable economy** through the transformation of its mobility, energy, construction and production systems;

D. **Creating a more resilient, inclusive and democratic European society**, prepared and responsive to threats and disasters, addressing inequalities and providing high-quality health care, and empowering all citizens to act in the green and digital transitions.

In response to the political priorities and recovery plan of the Union,
4 key strategic orientations for EU research and innovation have been defined for the period 2021-2024:

Cluster 6 will support in particular the following two Horizon Europe key strategic orientations and Impact Areas associated to them[31]

KEY STRATEGIC ORIENTATIONS FOR R&I	KSO B: Restoring Europe's ecosystems and biodiversity, and managing sustainably natural resources	KSO C: Making Europe the first digitally enabled circular, climate-neutral and sustainable economy
IMPACT AREAS	Enhancing ecosystems and biodiversity on land and in waters Clean and healthy air, water and soil Sustainable food systems from farm to fork on land and sea	Circular and clean economy
EXPECTED IMPACTS	27. Climate neutrality and adaptation to climate change 28. Preservation and restoration of biodiversity and ecosystems 30. Food and nutrition security for all from sustainable food systems from farm to fork 31. Balanced development of rural, coastal and urban areas	29. Sustainable and circular management of natural resources; tackling pollution; bioeconomy 32. Innovative governance models enabling sustainability, environmental observation

HOW WILL CLUSTER 6 OF HORIZON EUROPE MAKE A DIFFERENCE?

Climate neutrality is achieved by reducing GHG emissions, maintaining natural carbon sinks, and enhancing the sequestration and storage of carbon in ecosystems, including by unfolding the potential of nature based solutions, production systems on land and at sea as well as rural and coastal areas, where adaptations to climate change are also being fostered for enhancing resilience.

Destination - Land, ocean and water for climate action

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HOW WILL CLUSTER 6 OF HORIZON EUROPE MAKE A DIFFERENCE?

Biodiversity is back on a path to recovery, and ecosystems and their services are preserved and sustainably restored on land, inland water and at sea through improved knowledge and innovation.

Destination - Biodiversity and ecosystem services

Important to understand

- ✓ From where the topic is coming
- ✓ Why the project will be funded

Impact

European policies

Strategic plan 2021-24

Key Strategic Orientations

Expected impacts

Impact areas

Work Programmes 2021-22
→ Destinations
→ Topics

Work Programmes 2023-24
→ Destinations
→ Topics

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Projects funded

Strategic plan 2025-27

Key Strategic Orientations

Expected impacts

Impact areas

Work Programmes 2025-226
→ Destinations
→ Topics

Work Programmes 2027
→ Destinations
→ Topics

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Projects funded

The Proposal step-by-step

PART B - Technical description (the project)

Impact

KEY ELEMENT OF THE IMPACT SECTION

SPECIFIC NEEDS	EXPECTED RESULTS	D & E & C MEASURES
What are the specific needs that triggered this project?	What do you expect to generate by the end of the project?	What dissemination, exploitation and communication measures will you apply to the results?
Insert here text for your proposal	Insert here text for your proposal	Insert here text for your proposal

TARGET GROUPS	OUTCOMES	IMPACTS
Who will use or further up-take the results of the project? Who will benefit from the results of the project?	*What change do you expect to see after successful dissemination and exploitation of project results to the target group(s)?*	*What are the expected wider scientific, economic and societal effects of the project contributing to the expected impacts outlined in the respective destination in the work programme?*
Insert here text for your proposal	Insert here text for your proposal	Insert here text for your proposal

The Proposal step-by-step

PART B - Technical description (the project)

USEFUL RESOURCES

Impact

Europa IP Helpdesk

Regular webinars open & online

02 May 2023 - EU - Webinar: IP & Open Science
03 May 2023 - EU - Webinar: Maximizing the Impact of Horizon 2020 project results
15 Jun 2023 - EU - Webinar: Copyright in collaborative projects
…

Guides, Factsheets, e-learning…

https://intellectual-property-helpdesk.ec.europa.eu/regional-helpdesks/european-ip-helpdesk/europe-training/regular-webinar-schedule_en

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The Proposal step-by-step

PART B - Technical description (the project)

Excellence

1. **Objectives and ambition**
2. **Methodology**

- **General context** : state of the art, issues, bottlenecks/obstacles & solutions
- Relevance of the **project idea/concept**
- Go beyond the **state of the art** – Show complementary to the **projects already funded** in the past
- Share the **ambition** of the project
- Don't tell - **Demonstrate**
- Excellence is **not only "scientific aspects"**

give some **facts** and **figures**

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The Proposal step-by-step

PART B - Technical description (the project)

Excellence

1. **Objectives and ambition**
2. **Methodology**

Be **clear** with **SMART objectives**

- **Specific**
- **Measurable**
- **Achievable**
- **Relevant**
- **Time** bound

HORIZON-CL5-2022-D1-02-05 : Let nature help do the job: Rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support

Objective 1: Conceptualise how rewilding can effectively contribute to climate mitigation, adaptation and biodiversity restoration (the climate-biodiversity nexus), and assess the past and current socioecological trajectories of rewilding and its outcomes across Europe

Objective 2: Develop evidence-based guidelines for implementing multi-objective, cost-effective climate-smart rewilding practices, based on case-comparative methods applied across a diverse set of socioenvironmental contexts

…

Objective 5: Engage stakeholders and enhance public knowledge about the challenges and benefits of rewilding through an ambitious communication, dissemination and exploitation program

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The Proposal step-by-step

PART B - Technical description (the project)

Excellence

1. **Objectives and ambition**
2. **Methodology**

Be **clear** with **SMART objectives**

- **Specific**
- **Measurable**
- **Achievable**
- **Relevant**
- **Time** bound

HORIZON-CL5-2022-D1-02-05 : Let nature help do the job: Rewilding landscapes for carbon sequestration, climate adaptation and biodiversity support

Objective 5: Engage stakeholders and enhance public knowledge about the challenges and benefits of rewilding through an ambitious communication, dissemination and exploitation program

Key results / advancement beyond the state-of-the-art

- Establishment of a new EU Rewilding Knowledge Hub (web-platform), featuring a collaborative workspace to support continued multi-stakeholder collaboration and clustering
- Creation of high quality tools, resources, methods and messaging to facilitate effective stakeholder engagement on the topic of re-wilding, suitable for use by other projects and partnerships

Adress the folwoing expected outcomes (topic) :

- *Support the implementation of the Horizon Europe Mission on Adaptation to climate change including societal transformation*
- *Help generate FAIR data and well-documented, robust and transparent methodologies for better integration of land-use management systems into IAMs and ESMs*
- *Assess the perception and acceptability of citizens and stakeholders on rewilding and rewilding options and identify potential conflicts and trade-offs in governance and decision-making*

The Proposal step-by-step

PART B - Technical description (the project)

Excellence

1. **Objectives and ambition**
2. **Methodology**

Be **clear** with **SMART objectives**

- **Specific**
- **Measurable**
- **Achievable**
- **Relevant**
- **Time** bound

Describe where the proposed work is positioned in terms of R&I maturity (from idea to application/from 'lab to market')

Key result	Work packages	Starting TRL	Final TRL	Explanation
A network of new-generation genetic field trials, including provenance/species mixtures and unique lineages	3	2	5	A network of 20 trials across all major biogeographical regions in Europe specifically designed for future research on climate adaptation, diversification of plantations and forest biodiversity

The Proposal step-by-step

PART B - Technical description (the project)

Excellence

1. **Objectives and ambition**
2. **Methodology**

Visualisation of the project → clear and to-the-point **schemes**

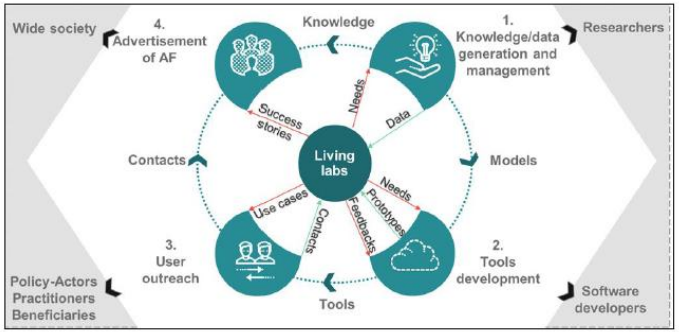
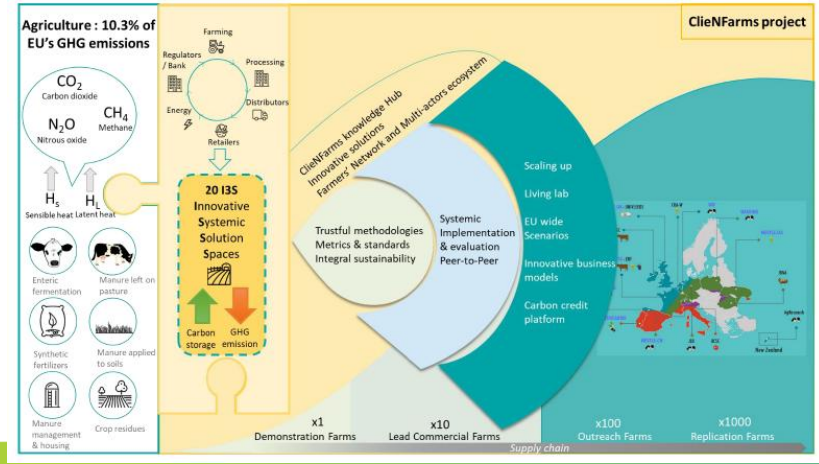


Figure 3: DigitAF end-user centered multi-actor approach



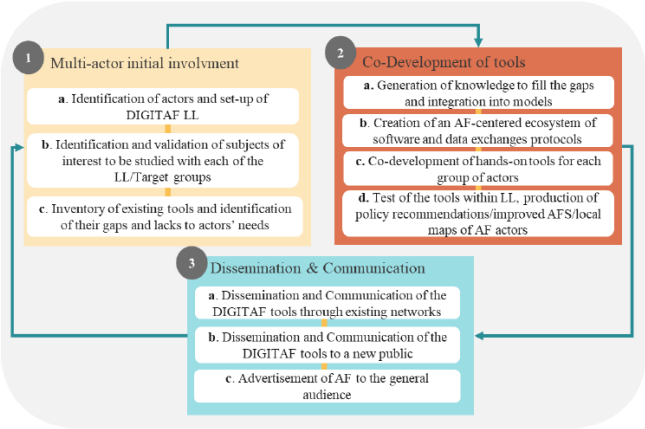


Figure 4 DigitAF methodology

The Proposal step-by-step

PART B - Technical description (the project)

Excellence

1. **Objectives and ambition**
2. **Methodology**

Building on other national and international research **activities**

Project (program, duration, PI when wildE partner)	**Content and links with wildE**
Wildfires	
FIRE-RES (H2020, 2021-2025)	Develops technologies and integrated socio-ecological-economic solutions for increasing the resilience of landscapes to wildfires.
Pyrolife (MSCA ITN, 2019-2024. PI: WU)	Includes 15 PhD projects on diverse backgrounds with the aim to facilitate the advancement of integrated wildfire management (including rewilding approaches).
Restoration and biodiversity support	
EuropaBON (H2020, 2020-2023, PI: MLU)	Structure for monitoring and predicting biodiversity and ecosystem services across space and time to support decision-making in management and restoration.
CONNEXUS (H2020, 2020-2023)	Assembles accessible knowledge on how to restore natural ecosystems and improve the quality of life around cities by means of NbS.

The Proposal step-by-step

PART B - Technical description (the project)

Excellence

Don't forget EXCELLENCE is also:

- **Interdisciplinarity**

"*XX* is drawing upon a **large set of academic disciplines** (climatology, hydrology, ecology, operational research, computer science, engineering, human geography, economics, political science) as well as a **diversity of operational skills** (policy analysis, climate and water services provision, insurance analysis, river basin water operations and management, urban and regional development, flood and drought prevention and anticipation…"

"Trough the **well-established dialogue among project partners** on how to investigate the effects of management on tree genetic diversity and the interference between management and natural disturbances as FGR evolutionary drivers, project partners brought together various domain perspectives, extending forest genetics approaches to include silviculture and forest management. These two communities, while close, have only rarely work together towards the same objectives. **In the preliminary research phase, project partners collaboratively** specified the range of issues central for FGR, **co-designed objectives, and activities** to be undertaken for solving the issues.
To ensure integration of various domains and disciplines, project partners **already discussed their approaches** within and among WPs, paying **special attention to WP interactions**, and drafted **common methodological tools and data** collection methods, and protocols for data collection or trial establishment. "

The Proposal step-by-step

PART B - Technical description (the project)

Excellence

Don’t forget EXCELLENCE is also:

- **Social sciences and humanities**

“As interdisciplinary project carefully crafted from the beginning, OptFORESTS ensured good SSH integration in terms of 1) **project structure**, 2) **proportion of partners** with SSH expertise, 4) **range of SSH disciplines** involved, 5) **person months**, and 6) **allocated budget**. Indeed, the overall project was designed as to involve natural sciences and SSH **early in project preparation** and establish a dialogue between various disciplines of natural scientist and SSH.”

The Proposal step-by-step

PART B - Technical description (the project)

Excellence

Don’t forget EXCELLENCE is also:

- **Gender and diversity**

“When participants are chosen for Decision theatres, they must be selected as far as possible to **cover all gender groups** (male, female and non-binary), as well as diversity, age and background. To do this, the *eco2adapt* Quality Unit and the ethics officers, will verify that each Decision Theatre event has a **balanced selection** of participants.”

“The gender and human diversity dimension has only very recently received attention in research on ecological restoration, yet different studies suggest that integrating gender considerations can promote the efficiency and effectiveness of restoration work. Explicit integration of a social, gender and diversity dimension into restoration policy and practice is therefore highly timely. wildE will **systematically consider the gender and diversity dimension** in its social science research activities. In particular, (i) it will ensure **gender and ethnicity representativeness in the quantitative analyses of societal perception and values**; (ii) gender, ethnicity and culture will be an important component of analysis themselves, in order to **better understand societal perceptions of ecological restoration in general**, and rewilding in particular.”

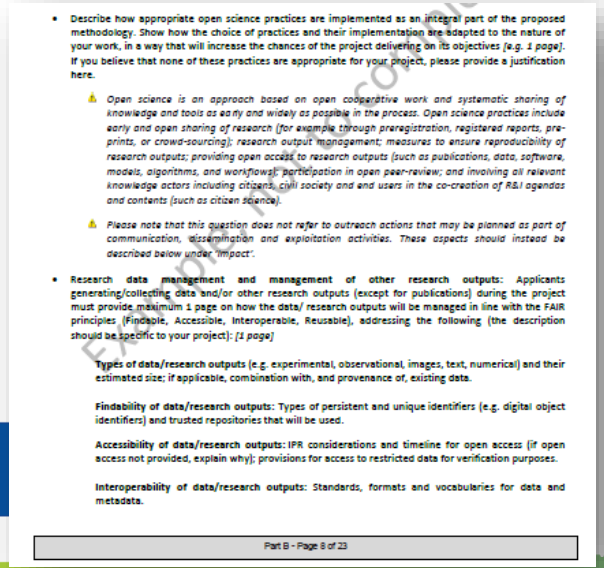
The Proposal step-by-step

PART B - Technical description (the project)

Excellence

Don't forget EXCELLENCE is also:

- **Open science**



- Describe how appropriate open science practices are implemented as an integral part of the proposed methodology. Show how the choice of practices and their implementation are adapted to the nature of your work, in a way that will increase the chances of the project delivering on its objectives *[e.g. 1 page]*. If you believe that none of these practices are appropriate for your project, please provide a justification here.

  Open science is an approach based on open cooperative work and systematic sharing of knowledge and tools as early and widely as possible in the process. Open science practices include early and open sharing of research (for example through preregistration, registered reports, pre-prints, or crowd-sourcing); research output management; measures to ensure reproducibility of research outputs; providing open access to research outputs (such as publications, data, software, models, algorithms, and workflows); participation in open peer-review; and involving all relevant knowledge actors including citizens, civil society and end users in the co-creation of R&I agendas and contents (such as citizen science).

  Please note that this question does not refer to outreach actions that may be planned as part of communication, dissemination and exploitation activities. These aspects should instead be described below under 'impact'.

- **Research data management and management of other research outputs:** Applicants generating/collecting data and/or other research outputs (except for publications) during the project must provide maximum 1 page on how the data/ research outputs will be managed in line with the FAIR principles (Findable, Accessible, Interoperable, Reusable), addressing the following (the description should be specific to your project): *[1 page]*

  Types of data/research outputs (e.g. experimental, observational, images, text, numerical) and their estimated size; if applicable, combination with, and provenance of, existing data.

  Findability of data/research outputs: Types of persistent and unique identifiers (e.g. digital object identifiers) and trusted repositories that will be used.

  Accessibility of data/research outputs: IPR considerations and timeline for open access (if open access not provided, explain why); provisions for access to restricted data for verification purposes.

  Interoperability of data/research outputs: Standards, formats and vocabularies for data and metadata.

Part B - Page 8 of 23

- **early and open sharing of research** (for example through preregistration, registered reports, preprints, or crowd-sourcing)
- **research output management**
- measures to ensure **reproducibility of research outputs**
- providing **open access to research outputs** (such as publications, data, software, models, algorithms, and workflows)
- participation in **open peer-review**;
- involving all relevant knowledge actors including citizens, civil society and end users in the **co-creation** of R&I agendas and contents (such as **citizen science**)

The Proposal step-by-step

PART B - Technical description (the project)

Excellence

Don't forget EXCELLENCE is also:

- **Open science**

Beneficiaries must ensure **OA to peer-reviewed scientific publications** relating to their results

Metadata must be open under CC 0 or equivalent, **in line with the FAIR principles** and provide information about the licensing terms and persistent identifiers, amongst others.

Findable
The first step in (re)using data is to find them. Metadata and data should be easy to find for both humans and computers >>> unique and persistent identifier, rich metadata, registered in a searchable resource…

Interoperable
The data usually need to be integrated with other data. In addition, the data need to interoperate with applications or workflows for analysis, storage, and processing >>> formal, accessible, shared and broadly applicable language, include qualified references to other (meta)data…

Accessible
Once the user finds the required data, she/he needs to know how can they be accessed, possibly including authentication and authorisation >>> (Meta)data are retrievable by their identifier using a standardised communications protocol (open, free and universally implementable)…

Reusable
The ultimate goal of FAIR is to optimise the reuse of data. To achieve this, metadata and data should be well-described so that they can be replicated and/or combined in different settings >>> Meta(data) are richly described with a plurality of accurate and relevant attributes, released with a clear and accessible data usage license…

The Proposal step-by-step

PART B - Technical description (the project)

Excellence

Don’t forget EXCELLENCE is also:

- **Open science**

Identified potential « data issues » in the topic (expected outcomes = create a database for eg.?)

Check the state of art (data available ?...)

Talk to the partners in the consortium : what is the vision of each partner? What is there needs & expectations? Do they understand the challenges in terms of protection, valorisation, costs…?

Check resources (internal and external)

Be sure that data issues are taken into consideration in the proposal and that people will be in charge of this question during the life of the project

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The Proposal step-by-step

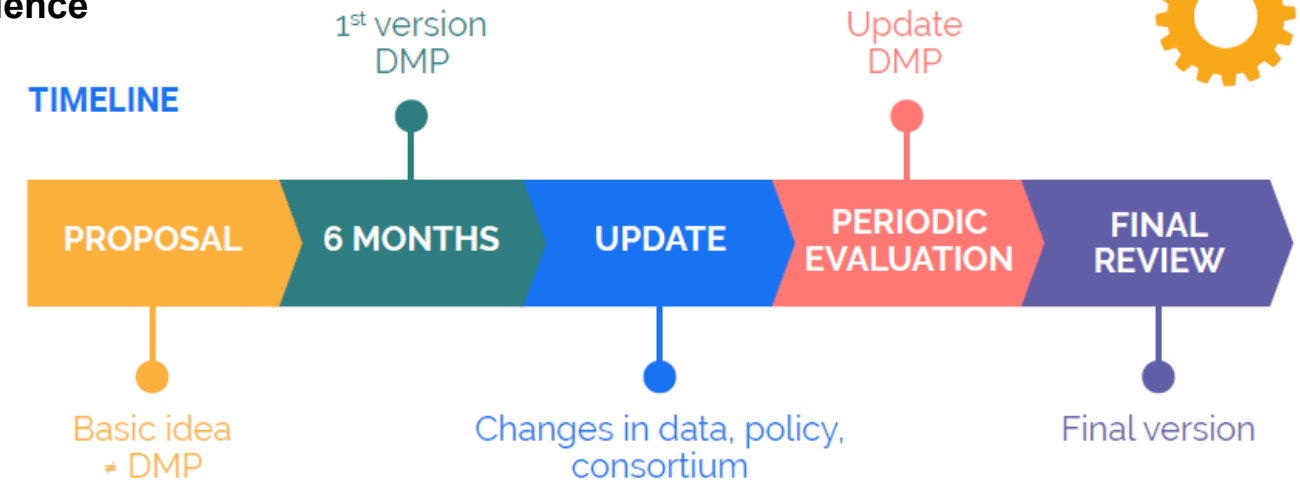
PART B - Technical description (the project)

Excellence

Don't forget EXCELLENCE is also:

- **Open science**

Data Management Plan (DMP) is a mandatory deliverable and must be announced in the proposal



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The Proposal step-by-step

PART B - Technical description (the project)

USEFUL RESOURCES

Excellence

Don't forget EXCELLENCE is also:

- **Open science**

OpenAir "ARGOS" tool which offers DMP templates that match the demands and suggestions of the Guidelines on Data Management in Horizon Europe

FAIR Data

- GoFAIR initiative
- FAIRassist (guidance to discover standards and repositories)
- FAIR Data assessment tool (ARDC)
- Turning FAIR into reality (EC publication)

Costs

- Support on cost of data management (Utrecht Univ.)
- Cost Calculator for Data Management (EPFL)
- Data management costing tool and checklist (PDF – UKDataservice)
- Cost Infographic (PDF - OpenAir)

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The Proposal step-by-step

PART B - Technical description (the project)

Implementation

Keep in mind the **topic** description, **objectives** of the project, the **key results**, the **expertise** of the partners… to build a work plan consistent with the ambiton of the project and the expectations of the EU

Timing (GANTTchart), **Work package structure and interactions**, list of **Deliverables** and **Milestones** and **Staff effort** (person/month) design to give you the means to address challenges, with a clear distribution of tasks between all partners

→ Evaluators will check if it is **coherent** & **effective**

Deliverable is a concrete result of the project (report, prototype…) / **Milestone is a "control point"** during the project to measure the progress of the project

Keep it **simple** !
& be **realistic**

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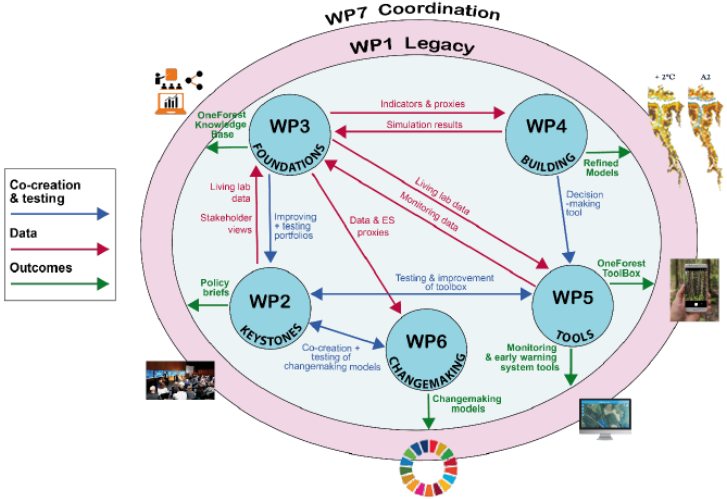
The Proposal step-by-step

PART B - Technical description (the project)

Implementation



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The Proposal step-by-step

PART B - Technical description (the project)

Implementation

Description of risk	WP	Likelihood level	Severity level	Proposed risk-mitigation measures
Difficulty in obtaining data	3	Low	High	All living labs coordinators have informal agreements with stakeholders to obtain data
Cannot determine difference between natural and man-made disturbance -remote sensing data	3	Medium	Medium	Use local knowledge to identify natural disturbances
Decision-makers are difficult to reach and engage little with the co-learning activities	All	Low	Medium	The timing of activities coincides with ‘quiet seasons’ of decision makers, we offer also opportunities for short-term and online engagement, which has proven to be efficient in XX previous project
“Stakeholder fatigue” related to surveys and interactions leading to low rates of participation	All	Low	Medium	Topics for interactions are tailored to have strong relevance stakeholders both at local and national scale. Create a program offering various benefits to participants where possible.

How to build a competitive proposal

Do you feel more ready to jump at the Horizon Europe opportunities ?

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Acknowledgement

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Thank you for your attention!

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