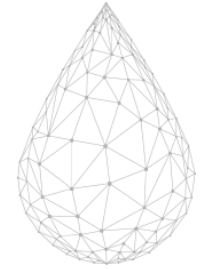




# PCP WISE



## PCP WISE: Info Webinar

15 September 2025

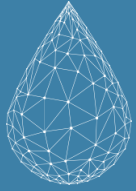


This project has received funding from the Horizon Europe Framework Programme (HORIZON) under grant agreement N° 101182917



# Welcome, agenda and housekeeping rules

Joost Buntsma, het Waterschapshuis



# Agenda

10:00 – 10:05	<b>Welcome &amp; Agenda</b> by Joost Buntsma, het Waterschapshuis
10:05 – 10:15	<b>Introduction PCP WISE</b> by Joost Buntsma, het Waterschapshuis
10:15 – 10:40	<b>The PCP WISE challenge, SWV monitoring</b> by Hans van Leeuwen, STOWA Functional, Technical and Contract Performance requirements
10:40 – 10:55	<b>The PCP Tender</b> by Ana Isabel Peiró Baquendano PCP approach; eligibility, exclusion, selection, compliance and award criteria; Timeline
10:55– 11:10	<b>Tender documents and forms</b> by Ana Isabel Peiró Baquendano Part I: TD1-TD5 and Annexes, Part 2: TD6-TD12, Completing technical and financial forms
11:10 – 11:25	<b>Questions &amp; Answers</b> moderated by Joost Buntsma, het Waterschapshuis
11:25	<b>Closure</b>



# Housekeeping rules


Here's how to make the most of the session:

 **Stay Muted** – Please keep your mic off unless invited to speak.

 **Use the Chat** – Questions? Thoughts? Drop them in the chat anytime!

 **Raise Your Hand** – Want to speak? Use the raise hand  feature.

 **This session is recorded** – So we can share the magic with others later!

 **Cameras Optional** – Feel free to keep your camera on if you'd like—we love seeing your faces!

 **Be Respectful** – We're an inclusive, global community—let's keep it kind and constructive.



# Introduction PCP WISE

Joost Buntsma, het Waterschapshuis



# Project ID Card



- EU-funded project via Horizon Europe Programme
- Builds on the preparatory action from PROTECT project
- 26 partners covering 9 countries
- 12 Public buyers and 14 support partners
- Duration: 36 months
- Overall budget: €19M
- Project coordination: Barrabés
- Lead buyer: hetWaterschapshuis





# What is PCP WISE about?

## PCP WISE

### Water Management from Space

A New Approach for Global Climate Challenges

#### The Challenge We Face: Climate Change and Water Management

Climate change is causing severe global problems, such as droughts, floods, and disruptions in water supply. These issues also affect soil stability, drinking water quality, and increase the risk of wildfires, creating enormous potential for damage. European governments bear the responsibility for managing these risks.

To address these challenges, having accurate and timely management information is critical. This requires not only better maintenance systems but also leveraging smart monitoring and digital innovations. Tools like drones for inspections, AI-driven modelling, and satellite data are excellent examples of how technology can enrich existing knowledge. Water authorities must embrace these digital advancements to stay ahead of the challenges.

The Horizon Europe programme provides a unique opportunity to drive this digital transformation and tackle global climate challenges effectively.

#### Horizon Europe Programme: Funding Innovation for Water Management

In 2024, the EU allocated a €19M grant through the Horizon Europe programme to support applied research and development of satellite-based water management solutions. A project application, named PCP WISE\*, was submitted for this funding and received approval in September 2024.

PCP WISE aims to deliver practical solutions to help water authorities improve their management capabilities. The below infographic highlights the project's goals and its potential benefits in addressing climate and water challenges.

\*Estimation 2023 | Source: NOS 22/2024

#### PCP WISE: Monitoring the Soil-Water-Vegetation System

PCP-WISE focuses on improving the monitoring of the local water balance in soil-water-vegetation systems using remote sensing technology. This approach creates consistent and shareable data about water conditions.

- 1 Insight into (climate)trends, and current conditions
- 2 Getting to know the critical boundaries of our water balance system
- 3 Developing and stimulating climate models



With this updated information, local water managers can better prioritise actions based on Environmental Act guidelines. For example, when water shortages occur, decisions can be made to allocate resources effectively. The insights also support creating risk maps, which raise environmental awareness and help mitigate damage during water-related crises.

#### PCP WISE Action Plan

The European PCP WISE consortium of 26 local authorities, water authorities, and research institutions from 10 countries, has been formed to drive this initiative forward. To this end, Het Waterschapshuis is leading a group of 12 buyers who joined forces to undertake a Pre-Commercial Procurement procedure, supported by 14 additional partners providing assistance in this process.

In 2025 the consortium will launch a call for tenders inviting innovative market suppliers to respond and submit an offer to develop tailored solutions meeting the needs of the Buyers' group. These solutions will aim to enhance water system monitoring, improve insights, and advance early warning and monitoring technologies.

Currently, 22 use cases across five European countries — including five in the Netherlands — are being used to assess stakeholder needs. These use cases help shape the project's goals and refine the functional requirement of the solutions to be developed.

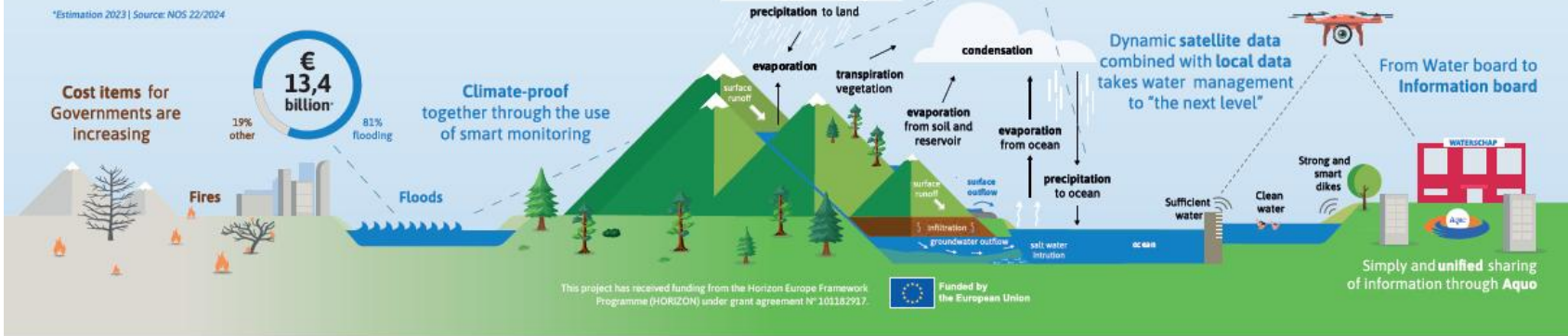
#### Benefits for Water Authorities

Water authorities are responsible for maintaining strong dikes and ensuring clean, sufficient water supplies. With the growing pressures of climate change and strict European regulations, experimenting with pilot projects has become essential.

PCP WISE supports the move toward data-driven operations and bears the ambition to prepare all water authorities for digital innovation by 2029. It offers a significant opportunity for the water sector to lead its digital transformation, build an international network, and share uniform cross-border data for a climate-resilient future.

By creating up-to-date local and sector-wide risk maps, water authorities can strengthen their ability to manage flood crises and potentially become leaders in European risk management.

\*Proposal for the Customisation/Pre-operationalisation of Water Management Innovations from Space for European Climate Resilience



## PCP WISE

### WATER MANAGEMENT INNOVATIONS FOR CLIMATE RESILIENCE

#### The Challenge

Water-related crises fueled by climate change (flooding, wildfires, droughts, degraded water quality, soil subsidence) are calling for urgent governments' response.

#### The Levers

Pre-Commercial Procurement  
Environmental Observation data  
Climate adaptation policies and strategies

#### The Desired Solution

A smart, versatile and cross-border soil-water-vegetation intelligence warning, management and monitoring systems for both rural and urban areas tailored to end-users' needs.

#### What is Pre-Commercial Procurement?

Pre-Commercial Procurement (PCP) challenges industry from the demand side to develop innovative solutions for public sector's needs. PCP is a public procurement process that allows public procurers to test and procure innovative solutions that are not yet available on the market. To do so, public procurers buy R&D services from several market suppliers and technology vendors in parallel to steer the development of solutions tailored to the public sector's needs. Public procurers compare alternative potential solution approaches and filter out the best possible solutions that can be delivered to address procurers' needs. The end result including the intellectual property rights remain with the contractors.

#### PCP WISE Timeline

As of January 2025, the 11 PCP-WISE Buyers will engage into the below PCP process to generate innovative solutions to multiple water-related crises both in rural and urban areas.

PCP Preparation phase Jul 25 - Aug 25		Tendering phase Sep 25 - Feb 26		PCP Implementation phase Mar 26 - Dec 27			Post PCP WISE phase
Phase 0 Defining Buyer's requirements Use cases & requirements definition Open Market Consultation	Phase 1 Solution design Mar 26 - Jun 26 Call for tenders/ Prior Information Notice Call for tenders launched Evaluation of suppliers' bids Supplier's framework agreements awarded	Phase 2 Prototype development Jul 26 - May 27 Contractor's description of proposed solution Prototype Development Supplier A Supplier B Supplier C Supplier D	Phase 3 Test/ validation in real-life environment Jun 27 - Dec 27 Operational Testing Supplier A Supplier C Supplier D	Public Procurement of innovative solutions Supplier A, B, C or D and on it			

Get Involved | About PCP WISE | Project partners

Partners: GAC, I2Cult, IECPC, etc.

Funded by the European Union



# WISE Consortia need to consist of multi-disciplinary skills

- Main contractor (large SME: civil engineering and management, upscaling ambitions)
- Hydrology (model) skills/services dedicated to sectors
- Meteorology (short extreme events, climate scenario modeling, spatio-temporal modeling )
- Crisis (Risk/impact) skills/experience dedicated to sectors
- Remote Sensing value-adder skills/services dedicated to sectors
- ICT skills in operational information productions (upscaling) in back and front processing
- Legal & contracting skills (European standards, AI, IPR, etc)
- Research and innovation skills in the above disciplines

## Matchmaking:

- **PCP WISE Community platform: [pcp-wise.eu/news-events/](https://pcp-wise.eu/news-events/)**
- **September 18th 10:00 : Matchmaking event for French speaking suppliers**



# The PCP WISE challenge

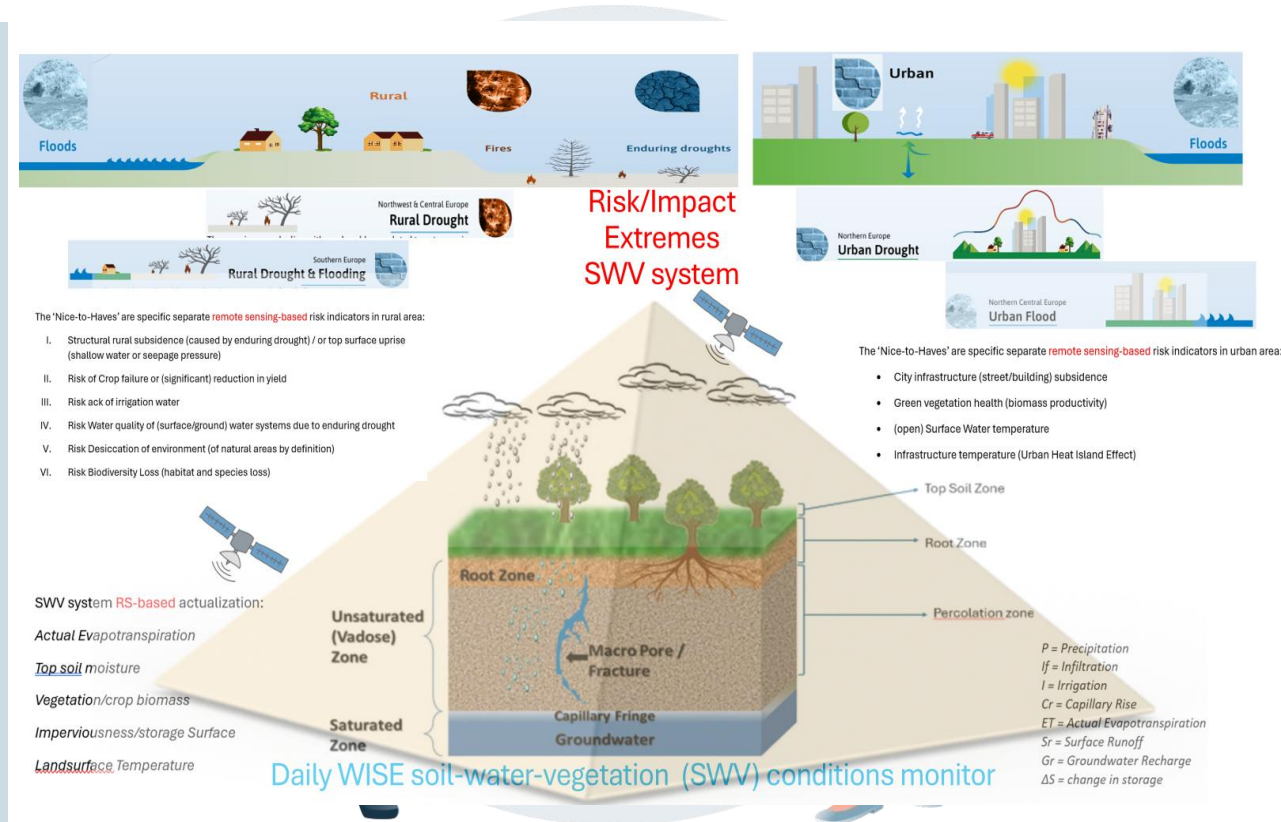
## Soil-Water-Vegetation monitoring

Hans van Leeuwen, STOWA



# PCP WISE in a nutshell

PCP WISE is an innovative project aimed at developing cutting-edge solutions (up to TRL 8) for water management and climate resilience across Europe using the Pre-Commercial Procurement (PCP) instrument. By leveraging space technology and Environmental Observation (EO) data, PCP WISE seeks to address critical challenges related to floods, fires, and infrastructure impacts both in rural and urban areas. This collaborative effort brings together public buyers, research institutions, and industry experts to create and implement advanced climate services that will enhance Europe's ability to adapt to and mitigate the effects of climate change.





# PCP WISE logic

*The (pyramid) base of the 'WISE-information service' consists of **regular monitoring of the soil-water-vegetation system** conditions using **innovative techniques** like satellite remote sensing, (biophysical process) modeling, datascience/AI, local knowledge. The **extremes of the SWV conditions** induced by climate dynamics can be confirmed (RS-based) by **risk indicators for various sectors in urban and rural context.***





# Project Objectives



1

## Innovative Solutions

Develop and test state-of-the-art technologies for climate adaptation using space and Earth observation data

2

## Cross-Border Collaboration

Foster cooperation between regional water management, cities, communities, and crisis organisations across EU Member States

3

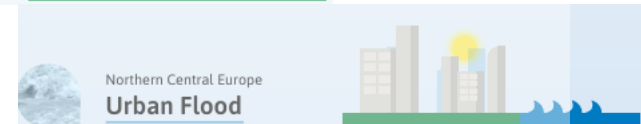
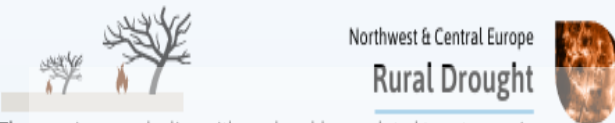
## Enhanced Information System

Create common operational information products on local and regional water, soil, and climate systems to improve decision-making

4

## Demand-driven Approach

Establish an active user network for exchange, validation, and continuous improvement of climate services through the PCP approach



### Risk/Impact Extremes SWV system

The 'Nice-to-Haves' are specific separate remote sensing-based risk indicators in rural area:

- I. Structural rural subsidence (caused by enduring drought) / or top surface rise (shallow water or seepage pressure)
- II. Risk of Crop failure or (significant) reduction in yield
- III. Risk lack of irrigation water
- IV. Risk Water quality of (surface/ground) water systems due to enduring drought
- V. Risk Desiccation of environment (of natural areas by definition)
- VI. Risk Biodiversity Loss (habitat and species loss)

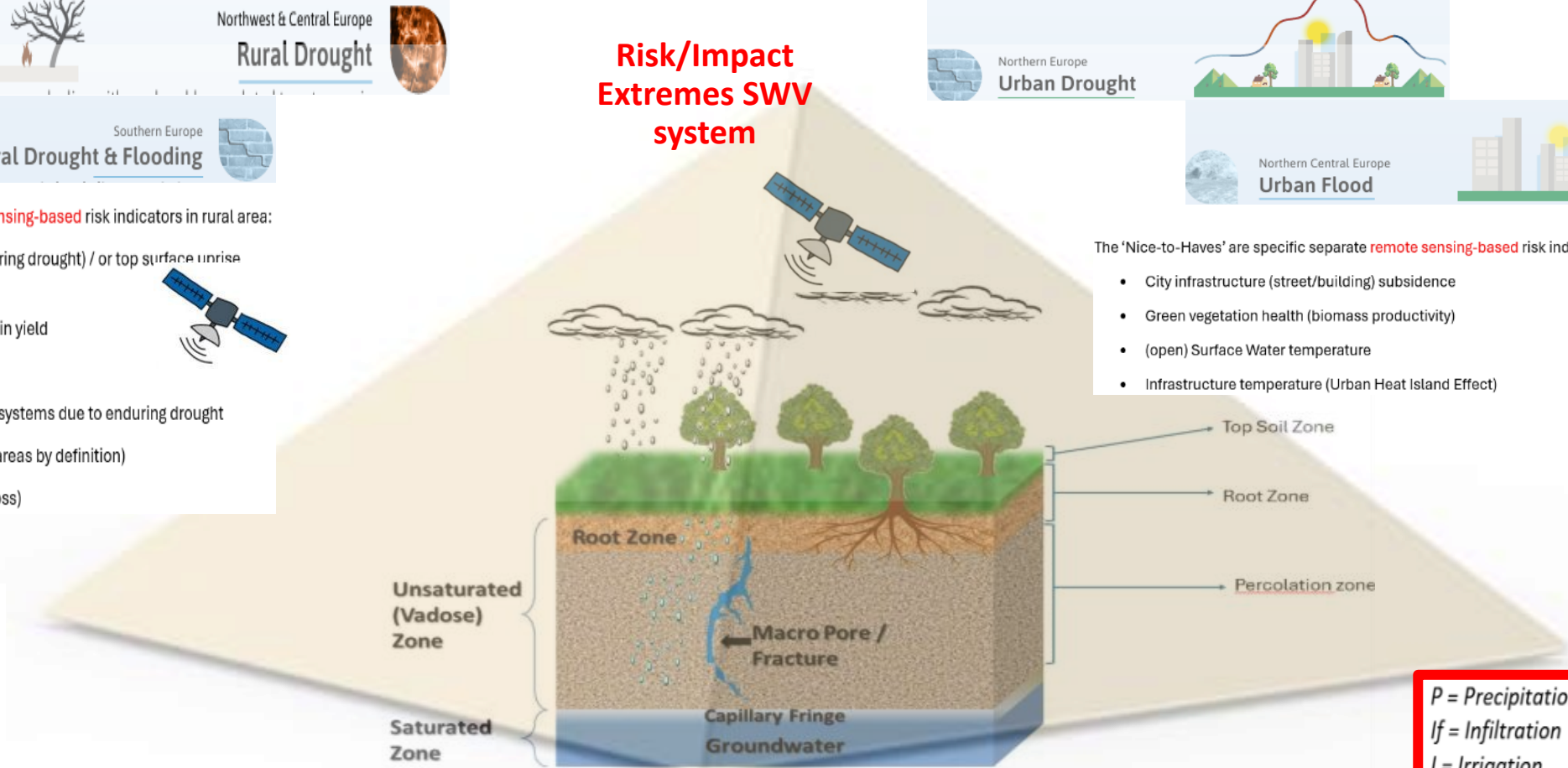


The 'Nice-to-Haves' are specific separate remote sensing-based risk indicators in urban area:

- City infrastructure (street/building) subsidence
- Green vegetation health (biomass productivity)
- (open) Surface Water temperature
- Infrastructure temperature (Urban Heat Island Effect)

SWV system RS-based actualization:

- Actual Evapotranspiration
- Top soil moisture
- Vegetation/crop biomass
- Imperviousness/storage Surface



## Daily WISE soil-water-vegetation (SWV) conditions monitor

- P = Precipitation
- If = Infiltration
- I = Irrigation
- Cr = Capillary Rise
- ET = Actual Evapotranspiration
- Sr = Surface Runoff
- Gr = Groundwater Recharge
- ΔS = change in storage

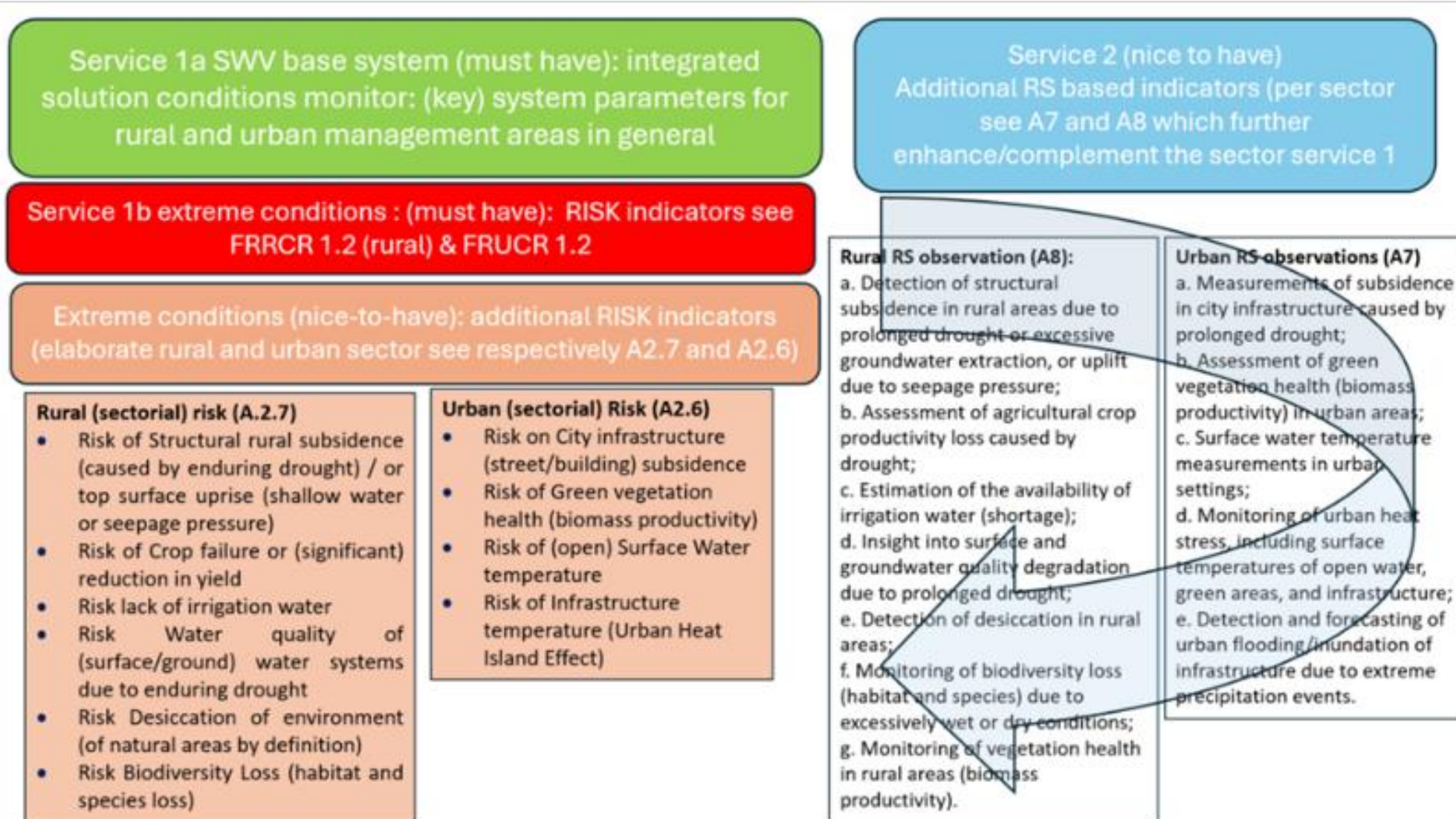


## Core functions PCP-WISE information monitor

- **Urban Regular:** Soil matrix/groundwater conditions (monitor), short term (3d) forecast, specific link to apps on subsidence, heat islands (evapotranspiration), park/green monitor, water storage, etc.
- **Urban Crisis:** spatial (weighted) risk mapping (sector limits)
- **Urban Climate:** Historical Trends, input to long term forecast/scenarios
- **Rural Regular:** Soil matrix/groundwater conditions (monitor), short term (3d) forecast, specific link to apps on agriculture, nature, etc.
- **Rural Crisis:** spatial (weighted) risk mapping (sector limits)
- **Rural Climate:** Historical Trends, model-based inputs to long term forecast/scenarios



The core service (green and red: must haves) of PCP-WISE and the additional sectorial (pink: nice to have) risk insights in extreme SWV system conditions and specifically related direct Remote sensing based (blue/white: nice-to-have) applications and related Pass/Fail and weighted award criteria coding





# Functional Requirements pre- & during crisis (Urban & Rural); mandatory

## Mandatory risk-indicators Urban:

- Soil Drying & Wetting (in terms of severity, magnitude, duration, and spatial extent; Risk maps: where does it become drier and wetter in the unsaturated zone)
- Saturated soil moisture conditions (prior to heavy rainfall)
- Floodrisk

## Mandatory risk-indicators Rural:

- Soil Drying & Wetting (in terms of severity, magnitude, duration, and spatial extent)
- Saturated soil moisture conditions (prior to heavy rainfall)
- Risk of Wildfires
- Floodrisk



# Functional Requirements: Nice-to-have Risk indicators

## Nice-to-have risk-indicators Urban [2]:

- City infrastructure (street/building) subsidence
- Green vegetation health (biomass productivity)
- (open) Surface Water temperature
- Infrastructure temperature (Urban Heat Island Effect)



# Functional Requirements: Nice-to-have Risk indicators

## Nice-to-have risk-indicators Rural [2]:

- Structural rural subsidence (caused by enduring drought) / or top surface uprise (shallow water or seepage pressure)
- Risk of Crop failure or (significant) reduction in yield
- Risk lack of irrigation water
- Risk Water quality of (surface/ground) water systems due to enduring drought
- Risk Desiccation of environment<sup>[1]</sup> (of natural areas by definition)
- Risk Biodiversity Loss (habitat and species loss)



# Additional Functional Requirements from urban / rural endusers

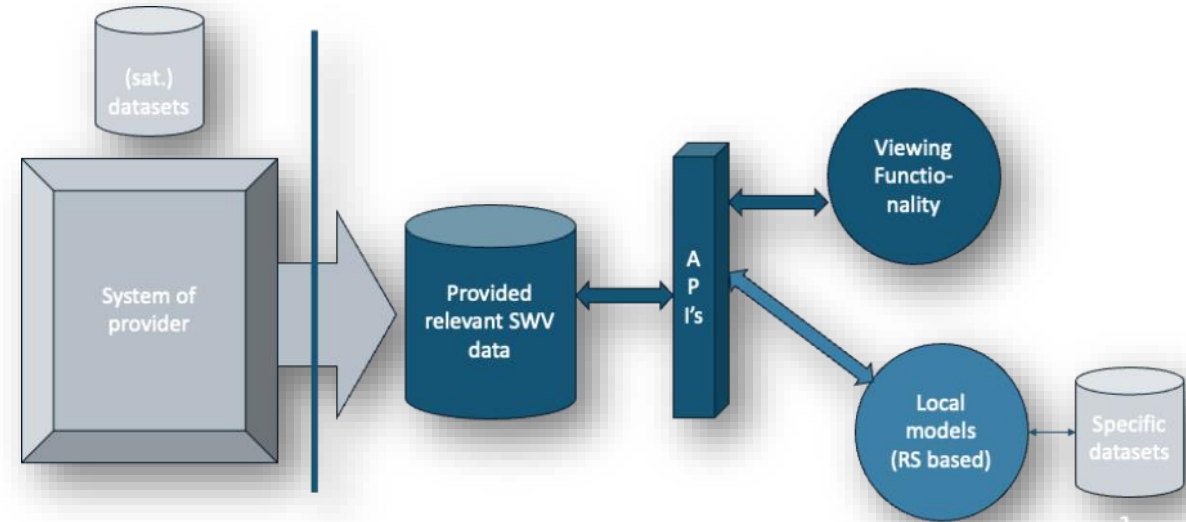
- Timeliness regular: daily in regular/pre-disaster phase (mandatory)
- Intelligence crisis: most added value (mandatory) is the 3 days forecast of (spatial) risk indicators. If feasible in crisis (wanna have): 1 hourly updates of these Risk Indicators
- Data delivery (mandatory) now cast: daily at 8:00 am important during crisis but also regular management (during fast changing conditions)
- Re-analysis (mandatory) of the 3-day forecast by looking back (3-day hind cast which improves/updates the monitor (integrated method) quality
- User functional requirements on Visualisation requirements of WISE information (in short: WISE results into use friendly Viewer with clickable maps, timeslider, time-series graphs, option to integrate own user data to compare, etc. Option to link up with opensource IMOD suite/MODFLOW hydrological standard)



# Technical considerations

## Service Core solution aspects:

- Multi-disciplinary components needed for the solution (several fields of expertise)
- Integrated solution (combination of several thematical processes)
- Vision on solution architecture (IT and functional)
- Solution requires demand driven operation (easy plug in towards user working environments)
- Solution needs serious attention to the following aspects: timeliness, scalable, reproducible, interoperable, evolutionary (self learning, adjustable), European standards/validity, etc as a solid future basis for European application





# During contract considerations

## Phasing and evolution aspects during WISE contract:

- Phase 1 (4 mo): **solution design**: requires a profound interaction with the users and understanding the usecases of the 5 representative lead sites in Europe. The 3 best designs/bids out of 5 will be selected for:
- Phase 2 (11 mo): **prototype** development and testing in controlled lab conditions with again intensive background user interactions/aspects and local understanding of operational aspects of the solution in order to have the best 2 prototypes/bids out of 3 for:
- Phase 3 (6 Mo): **validation & demonstration** exercises, which requires besides local operational (TRL 7-8) technical performance also clear visualization and presentation of outputs near to the various user environments





# The Pre-Commercial Procurement tender

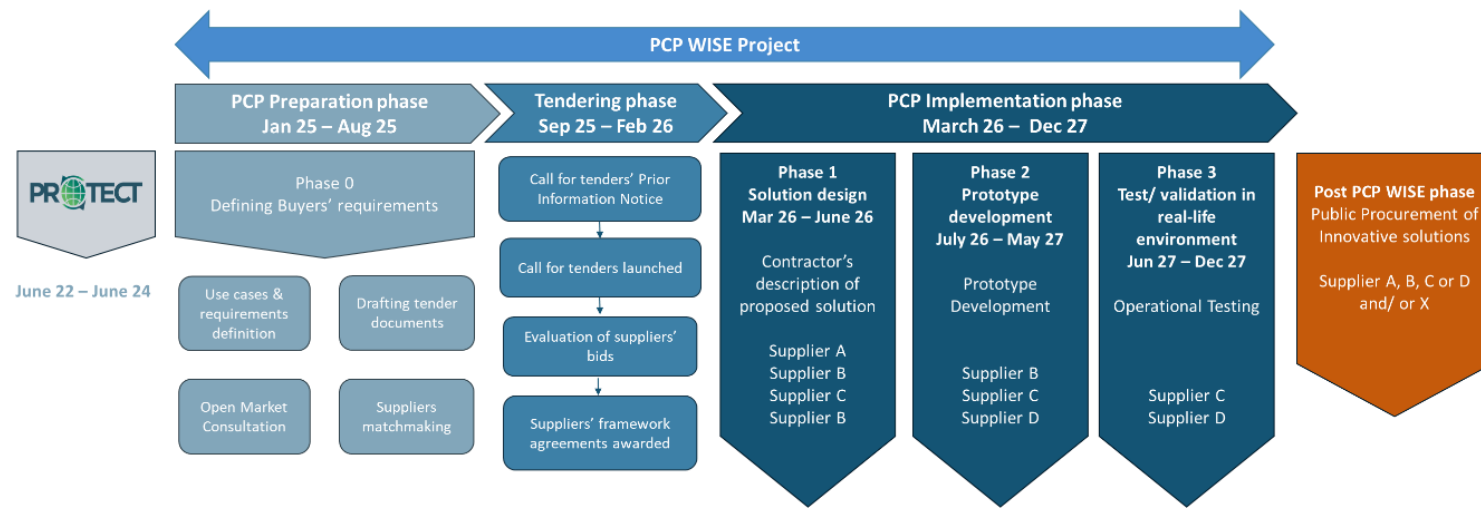
Ana Isabel Peiró Baquendano, Corvers CPS



# The Open Call in a nutshell

The Request for Tenders (RFT) invites all interested parties to present their offers for PCP WISE. The goal of the PCP is to enhance EO-based information for better regional water management, promoting resilience across EU borders.

PCP WISE expects to obtain water intelligence / information solutions (to a TRL 7-8) driven by a unified water taxonomy and EO-based modelling to predict, prevent, mitigate and manage water-related crises

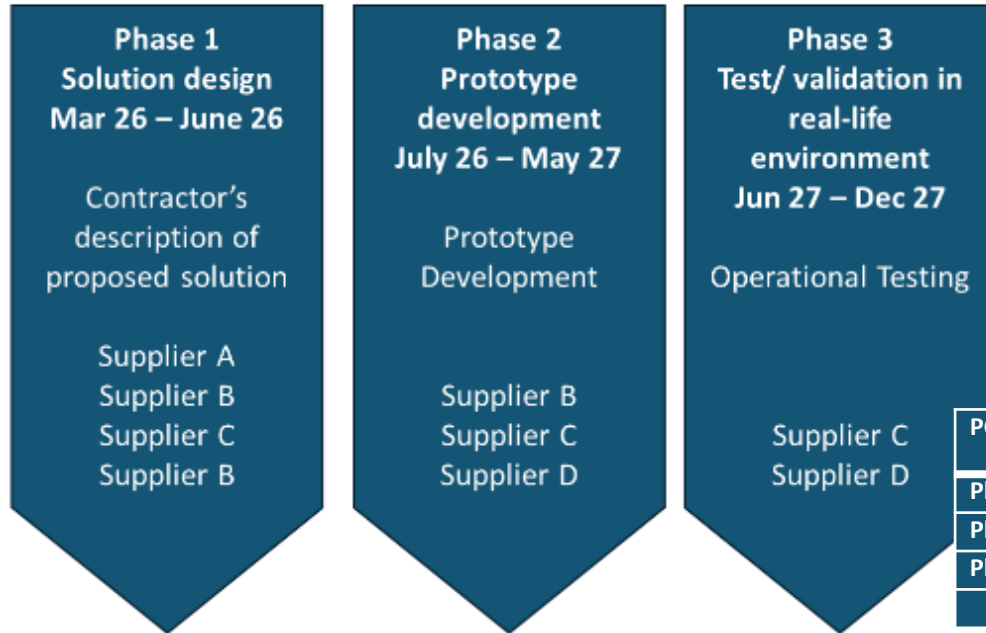


# The Open Call in a nutshell

## PCP Implementation phase March 26 – Dec 27

Phase 1 - Perform research to:

1. Elaborate the solution design and determine the approach to be taken to develop the new solutions and
2. Demonstrate the technical, financial and commercial feasibility of the proposed concepts and approach to meet the procurement need



Phase 3 - Original development and field-testing of a limited set of first services in 5 testing sites located in 5 EU Member States.

Discretion to transfer leftover budget from one phase to the next in case offers with lower price are received. Contracts will be financed until the remaining budget is insufficient. The number of contracts finally awarded will depend on the prices offered and the number of tenders passing the evaluation.

PCP Phase	Contractors	Duration	Budget per contractor	Total Budget
Phase 1	5	4 months	300.000,00 €	1.500.000,00 €
Phase 2	3	11 months	2.400.000,00 €	7.200.000,00 €
Phase 3	2	6 months	1.532.669,40 €	3.065.338,80 €
			Total	11.765.338,80 €

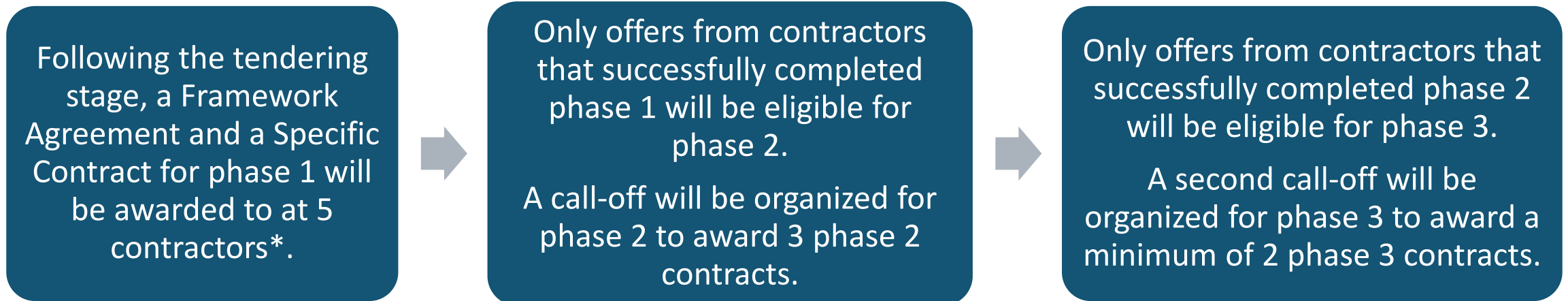
Phase 2 - Develop, demonstrate and validate prototypes in lab conditions.

For phase 2 the prototype validation is expected to be done at the premises of the contractors. The 5 different use cases should all be tackled by each contractor/consortium.

Additional sites might be included in Phase 3 (for demonstration purposes and to be tackled on a voluntary basis only). The costs of these demonstrations could be covered by potential leftover budget (i.e. it could be added to the tenderer's estimated budget for phase 3 in TD9. Financial Form). The PBG has discretion to decide how to allocate leftover budget.

# The Open Call in a nutshell

The PCP will be implemented by means of a **Framework Agreement (TD2)** with call-offs for **Specific Contracts (TD3, 4 and 5)** for each of the PCP phases (SOLUTION DESIGN, PROTOTYPE DEVELOPMENT, VALIDATION AND DEMONSTRATION OF THE SOLUTIONS).



- \* FA will set all the conditions for the duration of the PCP (covering all three phases).
- \* Ideally 5 tenderers (and a minimum of 3) will be awarded a Framework Agreement and a Phase 1 Contract.

# The Open Call in a nutshell

Payments based on **satisfactory completion** of milestones and deliverables of the phase → assessed by the FEC, the TEC and the PEB:

- If the work corresponding to that milestone/deliverable has been carried out.
- If a reasonable minimum quality has been delivered.
- If the reports have been submitted on time.
- If the monies have been allocated to the planned objectives.
- If the monies have been allocated and the work has been carried out according to the compliance criteria (place of performance, public funding and R&D definition criteria).
- If the work has been carried out in compliance with the provisions of the contract (including in particular verification if the contractors have duly protected and managed IPRs generated in the respective phase).
- This will be evaluated against the weighted award criteria and subaward criteria (as finetuned for each phase).
- It also includes compliance with the pilot strategy and test plan of the PCP WISE project as explained under Annex 7. Evaluation Criteria of the Test Plan.

Satisfactory completion in each of the phases **does not mean successful completion.**

Eligibility for the next phase based on **successful completion** of the phase → assessed by the FEC, the TEC and the PEB :

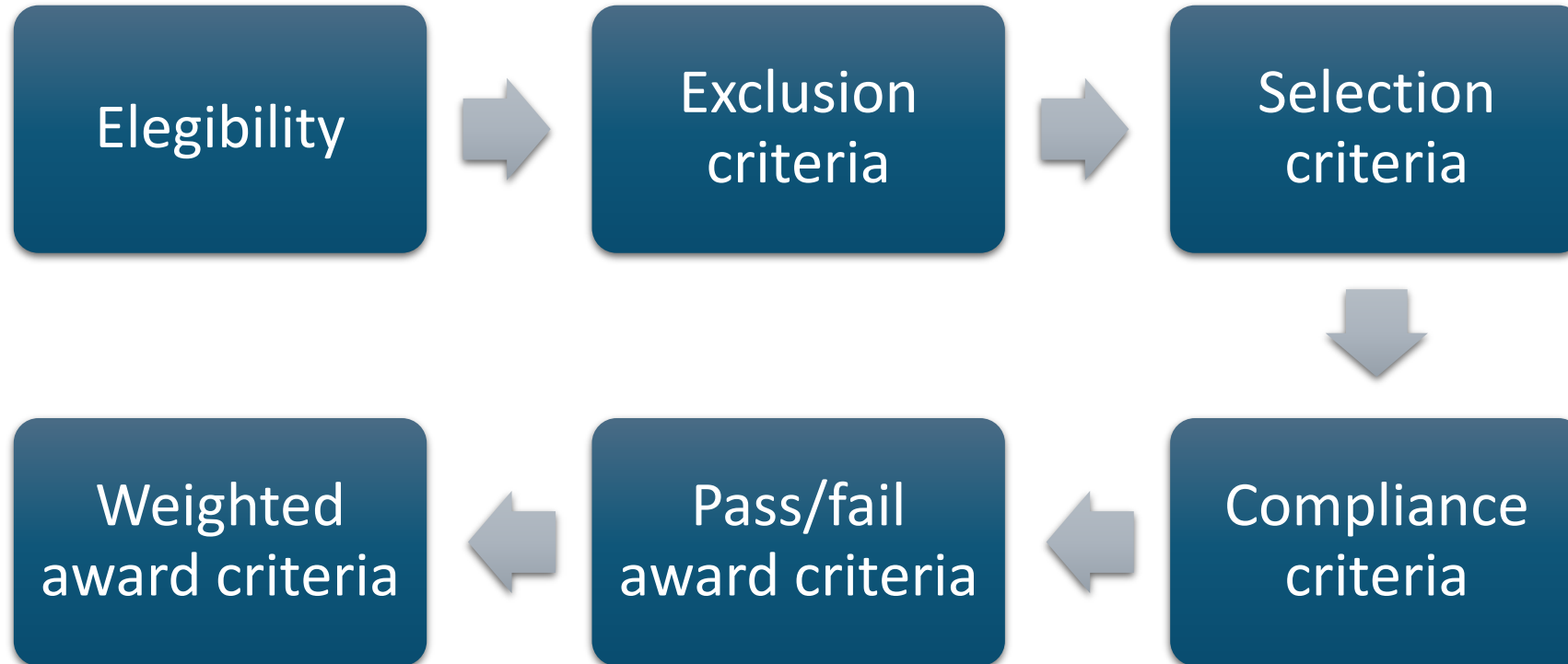
- If all milestones have been successfully completed.
- If the R&D results meet the minimum functionality/performance requirements of the challenge description.
- If the results of the R&D are considered to be promising.

A **satisfactory completion** is a requirement to **receive the payment for that phase.** Satisfactory completion includes **completion of all the deliverables & milestones** in the specific phase, and **meeting minimum requirements set for that phase.**

A **successful completion** is a prerequisite for **passing from one phase to the next** and **includes the same aspects as satisfactory completion** but will **also depend on the assessment of how promising the R&D is.** Please note, that a **successful completion and an invitation for the subsequent phase doesn't automatically mean that the Contractor will participate in this phase.**

# The Open Call in a nutshell

Selection of tenderers and tenders



# (3.1 RfT\_TD1) Eligible tenderers, joint tenders and subcontracting

Participation is open on equal terms to all types of operators that are established in and controlled from EU Member States or HE associated countries.

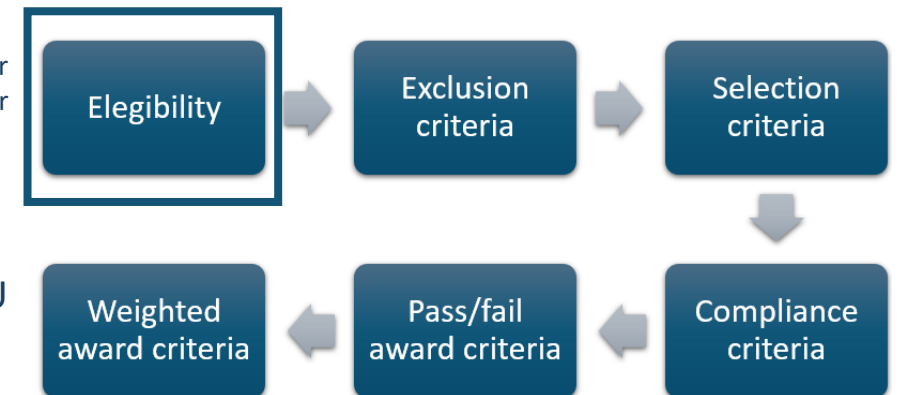
I.e., a subsidiary from a third country **established in a Member State of HE Associated country** can be partner in a consortium to submit an offer. A company established in a third country and not established in a Member State or HE associated country can act as a subcontractor. **But not as main contractors.**

Enrolment in a trade register

Participation in the PCP contract is not open to entities that are subject to EU restrictive measures

**Possible to submit joint tenders and to engage subcontractors** (the contractor(s) remain fully liable to the PBG for the performance of the contract + no essential parts of the contracts may be subcontracted).

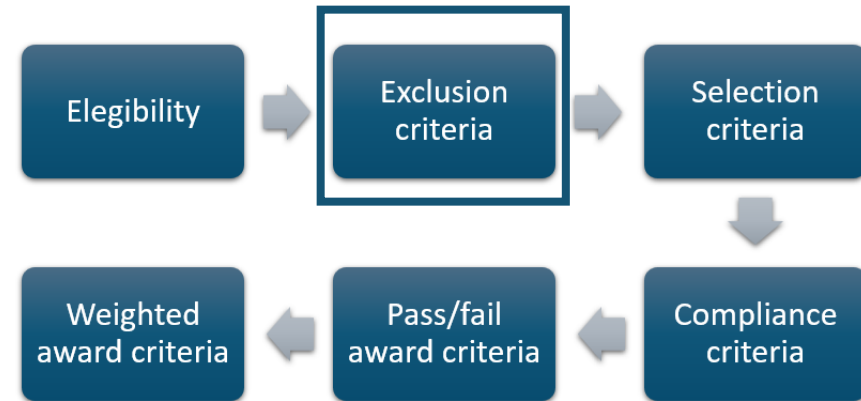
Each tenderer, consortia member, subcontractor, affiliated entity and other third party must **complete TD10. ESPD**



[List of Horizon Europe participating countries.](#)

For phase 2 and 3, participation is limited to contractors that successfully completed the preceding phase.

## (3.2 RfT\_TD1) Exclusion criteria



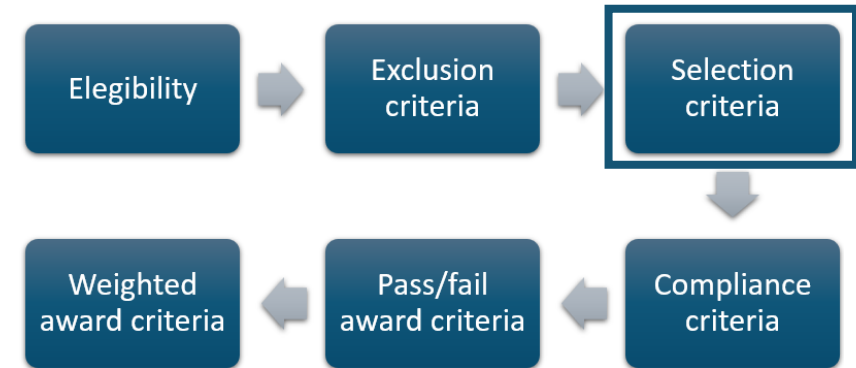
Exclusion criteria	Evidence
<p>Exclusion grounds as defined in article 57 of Directive 2014/24/EU:</p> <ul style="list-style-type: none"> <li>• Grounds relating to criminal convictions</li> <li>• Grounds relating to the payment of taxes or social security contributions</li> <li>• Grounds of insolvency or professional misconduct</li> <li>• Conflict of interest</li> <li>• Distortion of competition</li> </ul>	<p>TD10 ESPD</p> <p><i>*Tenderers that do not comply with these criteria will be excluded, with the exception of self-cleaning measures. The exclusion criteria will remain unchanged for the entire duration of the PCP.</i></p> <p><i>*Clarifications may be requested by the contracting authority after the submission deadline.</i></p>



# (3.3 RfT\_TD1) Selection criteria

Selection criteria	Evidence		
1 Suitability to pursue the professional activity	Proof regarding enrolment in one of the professional or trade registers kept in their Member State or HE associated country of establishment.	5 Ability to combine knowledge and experience of the personnel regarding R&D biophysical processes	One CV of an expert who has over 5 years' experience and knowledge regarding R&D on biophysical processes, using combination/integration/datascience methodologies and observations. They must be employed by the Contractor(s) at the time of executing the contract.
2 Project Management Role (Non-technical Oversight)	One CV of an expert who will be part of the project management team and will be responsible for overarching coordination tasks. The CV must clearly demonstrate at least 5 years of experience in managing multi-disciplinary innovation projects and/or multi-disciplinary integration projects with challenges on a European scale. The individual must have verifiable experience in monitoring tasks, managing planning and budgets, coordinating stakeholders, and ensuring project governance. The role is not technical in nature: the primary focus is on a grid-based multi-disciplinary project delivery and strategic alignment across domains, rather than on content-level or technical development. They must be employed by the Contractor(s) at the time of executing the contract.	6 Ability (and experience) of the personnel regarding hydrology modelling – Rural context	One CV of an expert related to hydrology modelling in rural areas with over 5 years of experience. The CV will specifically highlight experience in hydrology modelling in rural areas and climate (scenario) modelling. They must be employed by the Contractor(s) at the time of executing the contract.
3 R&D Integration and Technical Leadership Role – Rural Context	One CV of an expert who has over 5 years' experience in the overarching R&D role focused on the development and integration of technical solutions addressing challenges on a European scale in rural areas. Suitable roles include Lead R&D Engineer, Technical Project Lead, or R&D Project Manager. The candidate must demonstrate experience in designing and integrating domain-spanning innovations for rural environments (e.g. agriculture, land use, water systems, natural ecosystems). They must be employed by the Contractor(s) at the time of executing the contract.	7 Ability (and experience) of the personnel regarding hydrology modelling – Urban context	One CV of an expert related to hydrology modelling in urban areas with over 5 years of experience. The CV will specifically highlight experience in hydrology modelling in urban areas and climate (scenario) modelling. They must be employed by the Contractor(s) at the time of executing the contract.
4 R&D Integration and Technical Leadership Role – Urban Context	One CV of an expert with over 5 years of experience in an overarching R&D role focused on the development and integration of technical solutions addressing challenges on a European scale in urban areas. Relevant roles may include Lead R&D Engineer, Technical Project Lead, or R&D Project Manager. The candidate must show experience in developing integrated solutions in urban environments (e.g. smart infrastructure, urban water management, mobility, energy, or public space systems). They must be employed by the Contractor(s) at the time of executing the contract.	8 Ability (and experience) of the personnel regarding crises prediction, preparedness, monitoring and impact assessment - Rural context	One CV of an expert related to crises prediction, preparedness, monitoring and impact assessment in rural areas with over 5 years of experience. They must be employed by the Contractor(s) at the time of executing the contract.
		9 Ability (and experience) of the personnel regarding crises prediction, preparedness, monitoring and impact assessment - Urban context	One CV of an expert related to crises prediction, preparedness, monitoring and impact assessment in urban areas with over 5 years of experience. They must be employed by the Contractor(s) at the time of executing the contract.
		10 Ability (and experience) of the personnel regarding remote-sensing – Rural context	One CV of a remote sensing value-adder for updating the essential water balance components in rural areas with over 5 years of experience. They must be employed by the Contractor(s) at the time of executing the contract. Description of a reference case addressing rural water issues, specifically monitoring the spatial water distribution of the soil-water system and developing related risk indicators. TD12. Standard self-declaration form (for project references)
		11 Ability (and experience) of the personnel regarding remote-sensing – Urban context	One CV of a remote sensing value-adder for updating the essential water balance components in urban areas with over 5 years of experience. They must be employed by the Contractor(s) at the time of executing the contract. Description of a reference case addressing urban water issues, specifically monitoring the spatial water distribution of the soil-water system and developing related risk indicators. TD12. Standard self-declaration form (for project references)
		12 Ability (and experience) of the personnel regarding AI, operational information production (back and front processing)	Description of at least one project in the last 5 years referring to ICT capability to support the operationalisation and upscaling of information products — both in back-end processing (data management, automation, integration) and in front-end delivery (user access, interfaces, services). The project shall demonstrate the organisation's experience in the scalable development, deployment, and operation of information products or services within an ICT environment. The reference must describe how the organisation ensured continuity, performance, and accessibility of these solutions for end users. The reference project must have had a minimum contract value of minimum 500.000 € and/or at least a user community of 20 users. TD12. Standard self-declaration form (for project references)
		13 Ability (and experience) in GIS and spatial data analysis.	Description of at least one project in the last 5 years referring to GIS and spatial data analysis. TD12. Standard self-declaration form (for project references)
		14 Ability (and experience) of the personnel regarding legal knowledge in the field of AI, IPR and European Interoperability Standards.	One CV of an expert with legal knowledge in the fields of AI, IPR and the personnel regarding European Interoperability Standards. The CV will specifically indicate at least 2 projects in which these aspects were fundamental in the last 5 years. It is possible to submit various CVs who in combination have the Interoperability Standards knowledge and experience of over 5 years.
		15 Ability (and experience) of the personnel regarding climate adaptation and resilience at local scales	One CV of an expert related to climate adaptation and resilience at local / regional adaptation scales (e.g., design or implementation of local / regional adaptation maps, coupling between water management and other adaptation levers). The CV will specifically indicate at least 1 project in which climate adaptation and resilience aspects were fundamental in the last 5 years. It is possible to submit various CVs who in combination have the knowledge and experience of over 5 years. They must be employed by the Contractor(s) at the time of executing the contract.
		16 Ability to perform up to original development of the equipment (e.g., the development and testing environment should be first products or services in an EU Member State and/or HE Associated country)	Proof of availability of testing facilities and necessary materials and/or property documents and/or renting invoices. Description of the testing facilities, of the servers, etc., as well as

## (3.3 RfT\_TD1) Selection criteria



Tenderers may be requested to provide additional information and have 5 working days to reply.

The selection criteria will remain unchanged for the entire duration of the PCP.

Failure to comply with any of the selection criteria will lead to the automatic exclusion of the tenderer from the PCP.



**The personnel mentioned in criteria 2, 3, 4, 5, 6, 7, 8, 9, 10, 11 and 15; and the testing location(s) proposed under criterion 16 will be required to execute the contract. .**

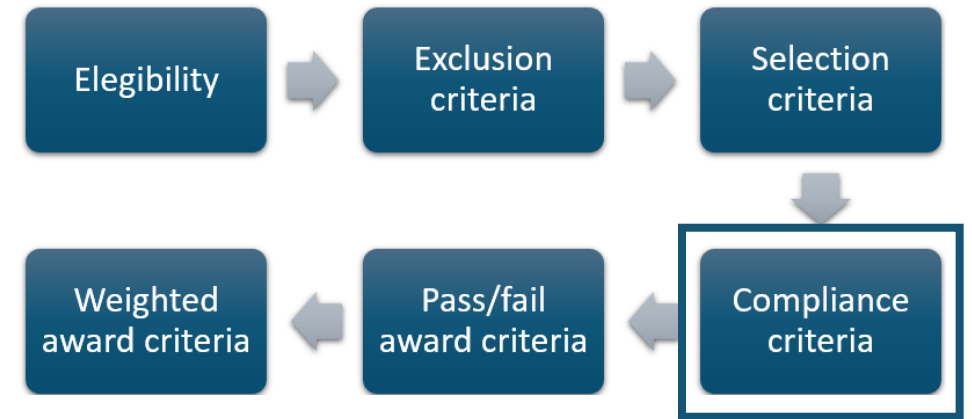
Changes in the personnel executing the contract (who will need the same qualifications, knowledge and experience) will be duly notified to and authorized by hWH.

**Please note that at least 4 CVs from different people shall be submitted to comply with the requirements.**

## (3.4 RfT\_TD1) Compliance criteria

	Compliance criteria	Explanation	Evidence
1	Definition of R&D services as described in the most recent version of the Frascati Manual.	<p>R&amp;D covers fundamental research, industrial research and experimental development, as per the definition given in the EU R&amp;D&amp;I state aid framework. It may include exploration and design of solutions and prototyping up to the original development of a limited volume of first products or services in the form of a test series. R&amp;D does not include quantity production or supply to establish commercial viability or to recover R&amp;D costs. It also excludes commercial development activities. The purchase of commercial volumes of products or services is not permitted.</p> <p>The definition of R&amp;D services means that the value of the total amount of products covered by the contract must be less than 50 % of the total value of the PCP framework agreement:</p> <ul style="list-style-type: none"> <li>The offers for all 3 Phases may include only products needed to address the challenge in question and to deliver the R&amp;D services described in this RFT.</li> <li>The total value of products offered in Phase 1 and in Phase 2 must be less than 50% of the value of the Phase 1 and Phase 2 contracts' value.</li> </ul> <p>Tenders that go beyond the provision of R&amp;D services will be excluded.</p>	Technical form (TD8)
2	Place of performance requirement	<p>At least 70% of the total value of activities covered by the framework agreement (i.e. the total value of the activities covered by all phases) must be performed in the EU Member States or HE associated countries. This means that at least 70% of the total value of activities covered by each specific contract for PCP phase 1 and 2 must be performed in the EU Member States or in HE associated countries. Both percentages for phase 1 and phase 2 must be set at the minimum percentage (i.e. 70%) to ensure that tenders that do not go through to phase 2 (or phase 3) still satisfy the place of performance requirement.</p> <p>The principal R&amp;D staff working on the PCP (on each specific contract) must be located in the EU Member States or Horizon Europe associated countries.</p> <p>All activities covered by the contract are included in the calculation (i.e. all R&amp;D and operational activities that are needed to perform the R&amp;D services, e.g. research, development, testing and certifying solutions). This includes all activities performed under the contract by contractors and, if applicable, their subcontractors.</p> <p>The contractors must in addition ensure that the implementation of the contract takes place in EU Member States or HE associated countries.</p>	Technical form (TD8)
3	Laws and regulations regarding artificial intelligence, privacy, ethics, health and safety	<p>Tenders will be excluded if they do not comply with:</p> <ul style="list-style-type: none"> <li>Ethical principles (including the highest standards of research integrity, notably as set out for example in the <a href="#">European Code of Conduct for Research Integrity</a>, and, in particular, avoiding fabrication, falsification, plagiarism and other research misconduct).</li> <li>Applicable international, EU and national law including GDPR provisions and the EU AI Act.</li> <li>Include plans to carry out activities in a country outside the EU, which do not comply with the requirements indicated in this RFT.</li> </ul>	Technical form (TD8)
4	Proposed solution already available on the market	Tenders whose proposed solution is already available on the market will be excluded from the PCP	Technical form (TD8)
5	Compatibility with other public financing	Tenders that receive public funding from other sources will be excluded, if this leads to double public financing or an accumulation of different types of public financing that is not permitted by EU legislation, including EU state aid rules.	Technical form (TD8)

## (3.4 RfT\_TD1) Compliance criteria



Clarifications may be requested by the contracting authority after the submission deadline.

Failure to comply with any of the compliance criteria will automatically lead to the exclusion of the tenderer and submitted bid from the PCP.

The compliance criteria will remain unchanged for the entire duration of the PCP.

## (3.5 RfT\_TD1) Award criteria

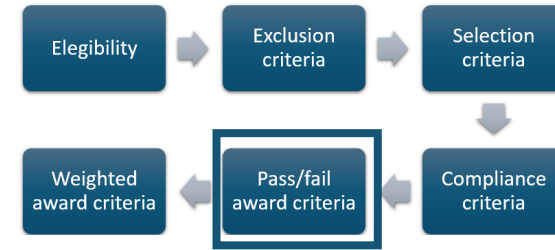
### PASS/FAIL AWARD CRITERIA

The tenders will be evaluated on the pass/fail award criteria only if the tenderer is not subject to any of the exclusion criteria, compliance criteria and fulfils the selection criteria.

The tender must comply with all the **functional, technical and contract performance requirements** listed under **Annex 8. PCP WISE Requirements → TD8 TECHNICAL FORM.**



# (3.5 RfT\_TD1) Award criteria



## WEIGHTED AWARD CRITERIA

The tenders will be evaluated on the weighted award criteria (according to a quality assessment and a price assessment) only if the tenderer(s) is not subject to any of the exclusion criteria, compliance criteria and fulfils the selection criteria and the tender complies with the pass/fail award criteria.

The award criteria and related sub award criteria will also be used to evaluate the award of the Phase 2 Contract (TD4) and the Phase 3 Contract (TD5), according to a quality assessment. **Please note that the sub award criteria, its relative weighting (and consequently the maximum points) as well as the minimum thresholds may be finetuned depending on the outcomes of Phase 1 (and 2).**

**Please bear in mind that if a tenderer has indicated compliance with one or more of the weighted award criteria, once they have been awarded the Framework Agreement and Phase 1 contract (and Phase 2 and Phase 3 contract) these weighted award criteria become mandatory for the contractor. The satisfactory evaluation shall also be based on the compliance of these weighted award criteria.**

No.	Weighted award criteria	Max points	Threshold
A.	Impact on the challenge	49	0
B.	Validity of the technical approach	23	0
C.	Quality of the tender	18	0
	Total	90	0

- 90 points correspond to the **technical offer**, and
- 10 points correspond to the **financial offer**

## (3.6 RfT\_TD1) Evaluation procedure

### Total points on the price for Phase 1

Maximum budget per contractor for Phase 1 is € 300.000. Amounts over € 300.000 will lead to the exclusion.

The minimum for PCP-phase 1 with shared IPR is € 100.000. Prices below will NOT receive additional points. “negative” or 0 price offers will be excluded.

The score is assessed on the offered total price for phase 1 with shared IPR (Financial Form (TD9)) and the maximum score is 10 points. The score will be rounded to 2 decimals.

$$PP \frac{P_r - P_b}{P_r - P_t} = 3 \frac{300.000 - P_b}{300.000 - 100.000}$$

**PP= maximum number of points available to bidders for price offers = 10**

**Pr= Reserve Price, or the price at and above which bidders get zero point = € 300.000**

**Pt= the price threshold is a lower bound: the bidder cannot improve his score with further price reductions = € 100.000**

**Pb= Price bid by the supplier**

### Total points on the price for Phases 1, 2 and-3

Maximum budget per contractor for phases 1, 2 and 3 is € 300.000, € 2.400.000 and € 1.532.669,40. Amounts over these maximum budget will lead to the exclusion

The minimum amount for phase 1 with shared IPR is € 100.000; for phase 2 is € 500.000; for phase 3 is € 400.000. Prices below will NOT receive additional points. “negative” or 0 price offers will be excluded.

The score is assessed on the offered total price with shared IPR (Financial Form (TD9)) and the maximum score is 10 points. The score will be rounded to 2 decimals.

$$PP \frac{P_{r\ 1,2,3} - P_{b\ 1,2,3}}{P_{r\ 1,2,3} - P_{t\ 1,2,3}} = 7 \left( \frac{300.000 - P_{b\ 1}}{300.000 - 100.000} + \frac{2.400.000 - P_{b\ 2}}{2.400.000 - 500.000} + \frac{1.532.669,40 - P_{b\ 3}}{1.532.669,40 - 400.000} \right)$$

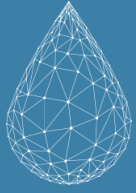
**PP = maximum number of points available to bidders for price offers=30**

**Pr = Reserve Price, or the price at and above which bidders get zero point**

**Pt = the price threshold is a lower bound: the bidder cannot improve his score with further price reductions**

**Pb = Prices per PCP-phase bid by the supplier**

**The maximum estimated budget indicated in the PCP WISE Phase 1 offer for Phases 2 and 3 will act as a cap during the Call-Offs for Phase 2 and 3.**



# Tender documents and forms

Ana Isabel Peiró Baquendano, Corvers CPS

# Checklist of documents and proof

Tenders that do not comply with the formal requirements will be automatically rejected. The PBG reserves the right to check the documents and references. Tenderers have 5 working days to reply and correct any clerical errors in ENVELOPE A – Administrative envelope.

For ENVELOPE B – Technical envelope - and ENVELOPE C – Financial envelope, the PBG reserves the right (but does not have the obligation) to check the information and ask for clarifications (as long as this does not imply a substantial modification of the Tender).

ENVELOPE	Evaluation	Documentation
<b>ENVELOPE A</b> <b>Administrative envelope</b>	- First to be assessed by the APC. It should include all the documents required to demonstrate selection and non-exclusion grounds	Documentation regarding enrolment in a trade register, CVs, Documentation regarding proof of availability of testing facilities and necessary materials and/or equipment, TD10. ESPD, TD11. CONSORTIA STATEMENT and TD12. Standard self-declaration form (for project references).
<b>ENVELOPE B</b> <b>Technical envelope</b>	- Second to be assessed by TEC. It includes aspects related to compliance criteria and award criteria, except for the price	TD8. Technical form
<b>ENVELOPE C</b> <b>Financial envelope</b>	- Third to be assessed by FEC.	TD9. Financial form

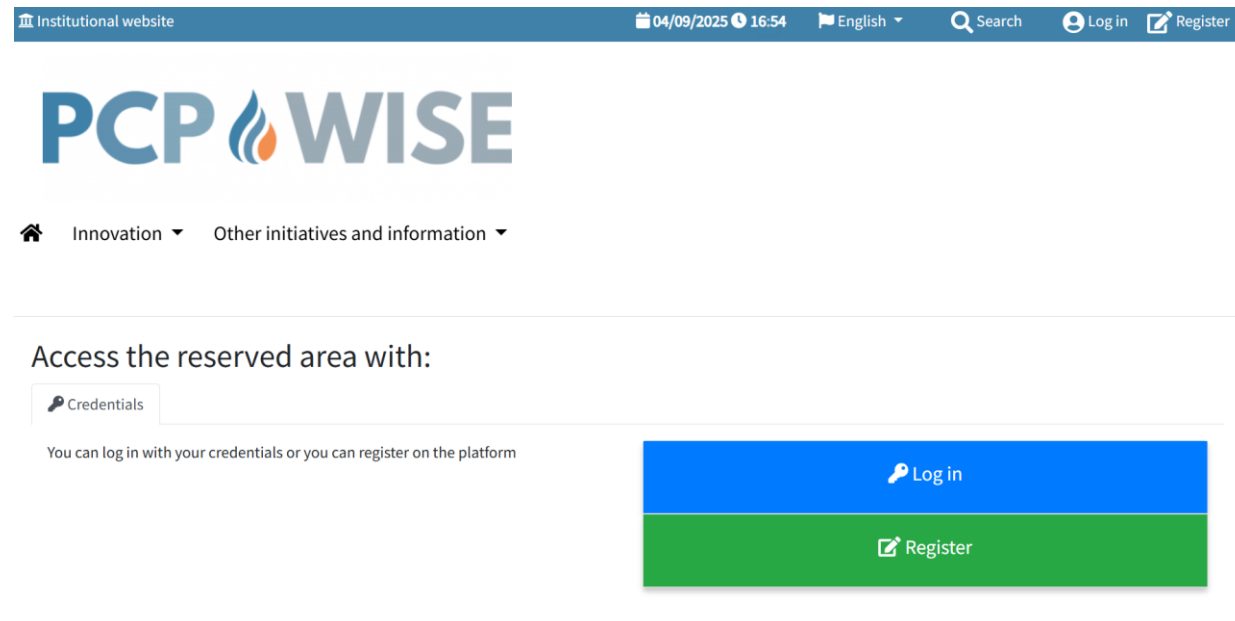


Name	Action to be taken by tenderer
TD1. RFT (this document)	It provides the rules of the Tender, including the evaluation scheme. <b>By the submission of a tender, all requirements mentioned in this document will be accepted by the tenderer. <u>No action.</u></b>
Tender Document 2 (TD 2): Framework Agreement	Contains the provisions that will regulate Phase 1, Phase 2 and Phase 3 of the PCP. TD2 should be signed by Contractors who have been awarded the Framework Agreement and Phase 1 Contract. <i>To be signed by selected Contractors.</i>
Tender Document 3 (TD 3): PCP Specific Contract for Phase 1	The Contract awarded for Phase 1 after the evaluation of Bids and final award. <i>To be signed – together with the Framework Agreement - by selected Contractors.</i>
Tender Document 4 (TD 4): PCP Specific Contract for Phase 2	The Contract awarded to Contractors for phase 2 after the Call-Off for Phase 2 of the PCP. <i>To be signed by selected Contractors.</i>
Tender Document 5 (TD 5): PCP Specific Contract for Phase 3	The Contract awarded to Contractors for Phase 3 after the Call-Off for Phase 2 of the PCP. <i>To be signed by selected Contractors.</i>
Tender Document 6 (TD 6): PCP End of Phase (1, 2, 3) report	Template to be used by selected Tenderers to report the outcomes of Phase 1, Phase 2 and Phase 3.
Tender Document 7 (TD 7): Contractor details and Project abstracts	Template to be filled in by selected Tenderers in Phase 1, Phase 2 and Phase 3 of the PCP.
Tender Document 8 (TD 8): Technical form	Template to be completed by Tenderers with their technical proposal. ENVELOPE B.
Tender Document 9 (TD 9): Financial form	Template to be completed by Tenderers with their Financial Offer and Cost Breakdown. ENVELOPE C.
Tender Document 10 (TD 10): ESPD	It is a self-declaration which includes a declaration of honor, and, if applicable, a Consortium Statement and a Subcontracting Statement. <b>To be filled in, signed and submitted by Tenderer, by the Consortium of Tenderers (if applicable) and/or subcontractors (if applicable) as part of the tender for phase 1. ENVELOPE A.</b>
Tender Document 11 (TD 11): Consortia Statement	Template to be filled in by Tenderers <b>only in case of a consortium presenting a bid. ENVELOPE A.</b>
TD12. Standard self-declaration form (for project references).	<b>Template to be completed by Tenderers. ENVELOPE A.</b> To indicate compliance with selection criteria listed under 3.4.
Annex 1. Use cases and Test sites	<i>No action.</i> For information.
Annex 2. Information about the PBG	<i>No action.</i> For information.
Annex 3. Preexisting rights of the PBG	<i>No action.</i> For information.
Annex 4. List of environmental, social and labour law obligations established by EU law, national legislation, collective agreements or the international environmental, social and labour conventions which Bids must comply with.	<i>No action.</i> For information.
Annex 5. Market consultation report	<i>No action.</i> For information.
Annex 6. Contract Notice e-Form	<i>No action.</i> For information.
Annex 7. Evaluation Criteria of the Test Plan	<i>No action.</i> For information.
Annex 8. PCP WISE Requirements	<i>No action.</i> For information. Mandatory pass/fail award criteria.
Annex 9. Data sets	<i>No action.</i> For information.
Annex 10. Table Top Exercise	<i>No action.</i> For information.
Annex 11. General context background	<i>No action.</i> For information.
Annex 12. SOTA analysis for unsaturated zone models	<i>No action.</i> For information.
Annex 13. Kling-Gupta Efficiency (KGE)	<i>No action.</i> For information.
Annex 14. Example of Solution Architecture Model	<i>No action.</i> For information.
Annex 15. Quick User Guide for the e-Procurement Platform TUTTOGARE PA	<i>No action.</i> For information.

# Submission and communication

All communications are only possible via TUTTOGARE e-Procurement platform (<https://pcp-wise.tuttogare.it/pcp/dettaglio.php?codice=1>).

For technical questions, the Tenderer should contact the helpdesk via [assistenza@tuttogare.it](mailto:assistenza@tuttogare.it).



The screenshot shows the top navigation bar of the PCP WISE website. It includes the text 'Institutional website', the date and time '04/09/2025 16:54', a language dropdown set to 'English', a search icon, and 'Log in' and 'Register' links. Below the navigation bar is the 'PCP WISE' logo. Underneath the logo are navigation links for 'Innovation' and 'Other initiatives and information'. The main content area features the heading 'Access the reserved area with:' followed by a 'Credentials' dropdown menu. Below this, a message states 'You can log in with your credentials or you can register on the platform'. At the bottom of this section are two prominent buttons: a blue 'Log in' button and a green 'Register' button.

Tenderers must register (free of charge) → Annex 15. Quick User Guide ([link](#)).

Subcontractors and members of consortia can also register in the platform. **In any case, they must not submit any tender documentation.**

**That responsibility remains within the Lead Contractor,** as each tenderer may submit no more than one tender (risk of exclusion)

The Tenders must be submitted in English.



# Key Dates at a Glance

**5 September 2025** – Publication of contract notice in TED

**5 September 2025** – Tender documents available for download both on the Lead Buyer's e-procurement platform and on the PCP WISE website

**15 September 2025 & 11 November 2025**– Info webinars

**24 October 2025** – Deadline for submitting questions about the Tender documents

**30 October 2025** - Deadline for hWh to publish replies to questions

**7 January 2026 (17:00)** – Deadline for submission of Suppliers' bids

**9 January 2026** – Opening of tenders received

**2 March 2026** – Signature of framework agreements and phase 1 specific contracts with selected suppliers.

Publication of the contract award notice in TED.

Subsequent phases begin in **July 2026 (Phase 2)** and **June 2027 (Phase 3)**. Please refer to the **Tender Document Part 1** for the complete time schedule.



# Documents and Online gathering



**Where can you find the Open Call documents?**

<https://pcp-wise.tuttogare.it/pcp/dettaglio.php?codice=1>



# Questions & Answers



# Questions & Answers

- Submitting Q's (and A's) via [e-Procurement platform](#)
- Until October 24th
- Publishing Q&A Information Notice - October 30th via the platform
- Next Info Webinar - November 11th