

SIDE EVENT

Organised by:



12-13 June 2024



PROCURING INNOVATIVE CLIMATE CHANGE SERVICES

Final Event
Brussels
11 June 2024





This project has received funding from the Horizon Europe Framework Programme (HORIZON) under grant agreement No 101060592

9.00 – 9.15: Opening remarks by PROTECT's Project Officer & Project Coordinator



Erwin Goor, Project
Officer at EC/REA



Marc Pattinson, Innovation Director at G.A.C. Group



Agenda

Morning part:

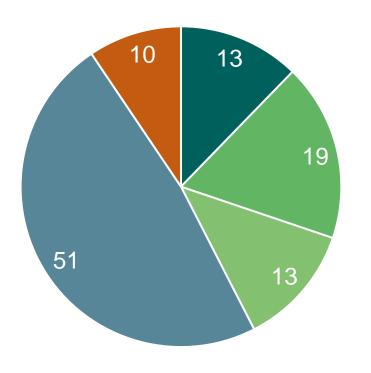
- 9.00 9.15: Opening remarks
- 9.15 10.00: Panel discussion 1 How can Pre-Commercial Procurement support climate change adaptation efforts through Earth Observation-based solutions – Lessons learnt from PROTECT?
- 10.00 11.00: Panel discussion 2: How Innovation Procurement can boost the development of new and innovative solutions?
- 11.00 11.30: Coffee and tea break
- 11.30 12.15: Panel discussion 3: How EO can contribute to new and innovative climate adaptation solutions and to innovative governance tools?
- 12.15 13.00: Lunch break

Afternoon part:

- 13.00 14.30: Grab a coffee and meet, greet, and network!
 - Corner 1 Meet the PROTECT Team
 - Corner 2 Meet the PCP WISE Buyers
 - Corner 3 Meet the Providers
 - Corner 4 Meet other EU projects
- 14.30 15.30: PROTECT project & Key results presentation
- 15.30 16.00: Coffee and tea break
- 16.00 17.00: Panel discussion 4: From PROTECT to PCP WISE
- 17.00 17.15: Wrap-up and concluding remarks

Who are the participants? (106 registered)

Audience today



- Associations & networks
- EU Institutions & agencies
- Governments
- Private companies (start-up & SMEs)
- Research and academia

9.15 - 10.00 Panel discussion 1: How can Pre-Commercial Procurement support climate change adaptation efforts through Earth Observation-based solutions – PROTECT lessons learnt? Moderated by Stefka Domuzova, EIT Climate-KIC



Nora van Cauwenberg
Expert in water and
sustainable development
and CEO at BitaGreen,
Mission Adaptation



Cristobal Reveco
Climate adaptation
development scientistPractitioner at GERICS
& coordinator of the
VALORADA project



Thanh-Tâm Lê
Director at EIT
Climate-KIC &
PROTECT project
Partner



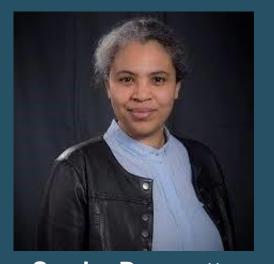
10.10 - 11.00 Panel discussion 2: How innovation procurement can boost the development of new innovative solutions? Moderated by Jozef Kubinec, Mol Slovakia



Lieve Bos
Policy officer Innovation
Procurement and
Experimentation Spaces,
EC/ DG CNCT



Vassilis Tsanidis
Innovation
Procurement Advisor,
EC/ EIC



Samira Boussetta
Innovation procurement
expert/ Former Innovation
Procurement Advisor at
DG GROW & CEO and
Founder of Altaee



Bernhard Jäger
Research Manager &
Department Lead at
SYNYO and Coordinator
of iProcureSecurity PCP







#HorizonEU



THE EU RESEARCH & INNOVATION PROGRAMME

2021 – 2027

LIEVE BOS

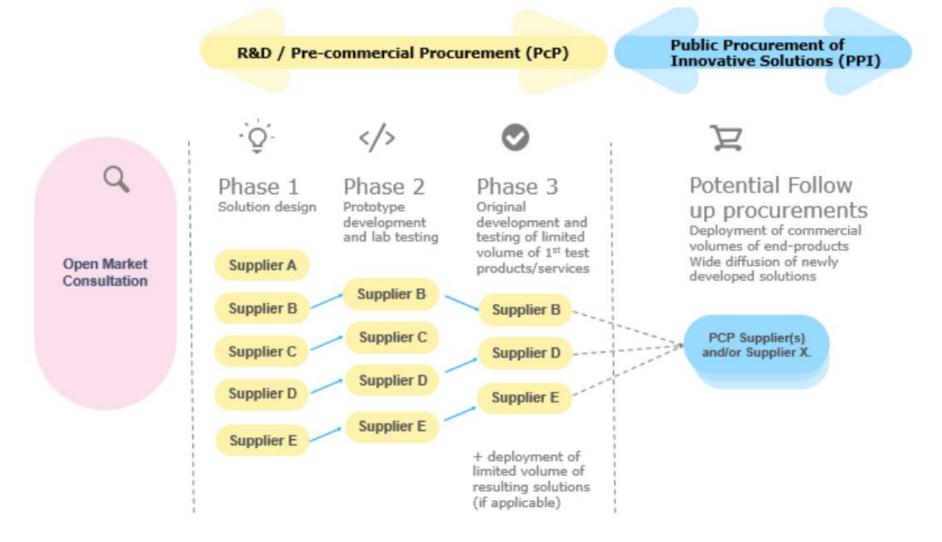
INNOVATION PROCUREMEN

1

Support from Horizon Europe

Research and Innovation

Complementarity



More than 1000 public buyers around Europe have already successfully implemented PCPs



Impacts of EU funded PCPs on procurers

- Deployment: 2Y after project end 55% of projects/procurers deployed solutions
- Improved interoperability: 60% of PCPs resulted in more interoperable solutions
- Removing supplier lock-in: 20% cost reduction & higher quality products
- Strategic autonomy, security of supply chain: Several examples for EU companies now being lead providers, not only in EU but also for Asian and US procurers



<u>PCP by Norwegian government</u> resulted in <u>deployment of NO infrastructure (EFTA funding)</u> The world's first and largest full scale carbon capture, transport and storage facility (CCS).

Once large industry sites around Europe are connected to it (EU Innovation fund), this will



2014-2016: PCP by Danish regions & hospitals Result: Blue Ocean Robotics (Danish startup) created innovative disinfection robots that kill 99% of all viruses & bacteria within 10 minutes.

2020: EU bought 300 of these 'EU made' robots for hospitals around Europe to fight COVID.

Steep worldwide growth, becoming unicorn.

Strengthens European position in robotics.



Impacts of EU funded PCPs on suppliers

- Opens a route-to-market for new players/SMEs
 - More than doubles contracts going to SMEs/startups (>70% vs 30%)
- Quadruples commercialisation success rate
 - 20 times more contracts awarded cross-border (86% of phase 3, 75% of phase 2 and 30% of phase 1 contractors commercialise already 1Y after PCP)
- Fosters access to finance
 - Doubles chances to win further procurements, increases access to VC funding, partnerships with large corporates, mergers/acquisitions, IPOs
- Stimulates cross-border company growth
 - 20 times more contracts awarded cross-border (33,1% vs 1,7%)
- Creating growth and jobs /strategic autonomy in Europe
 - 99,7% of contractors do 100% of R&D activities for PCP in Europe



Horizon Europe funding Eligible activities

PCP/PPI actions co-finance (1) + (2)

PCP actions: 100% funding rate

PPI actions: 50% funding rate

ring follow-up

Open Market Consultation, preparation tender spec, etc

(1) PCP/PPI procurement

Following up progress suppliers

Validating, testing solutions

Dissemination activities

Standardisation, certification, etc

(2) Coordination & Networking Activities

Preparation

Execution

Stage

Stage

Every project goes through a preparation stage and an execution stage





How to prepare a successful innovation procurement proposal in Horizon Europe (video)

- Examples, info on EU funding etc: https://research-and-innovation-ec.europa.eu/strategy/support-policy-making/shaping-eu-research-and-innovation-policy/new-european-innovation-agenda/innovation-procurement_en
- How to prepare a successful proposal in Horizon Europe
 - More info about RIA, IA, CSA actions, types of costs, MGA, evaluation procedure etc.
- A successful proposal for Horizon Europe: Scientific-technical excellence is key, but don't forget the other aspects
 - Info about Gender dimension, Open Science, Interdisciplinarity, DNSH principle etc.
- Dissemination & Communication in Horizon Europe

Proposal preparation in general



EU support for innovation procurement

Free of charge assistance



SPIN4EIC Strategic Innovation Procurement Programme

Enhance the access to procurement markets in Europe and globally.

www.eafip.eu

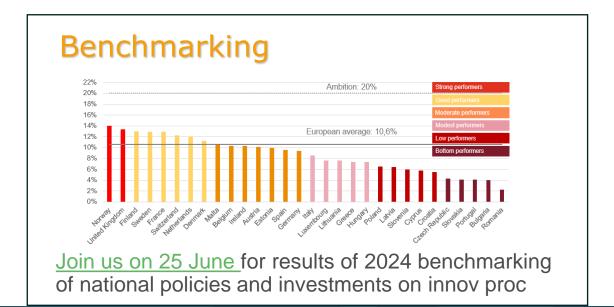
SPIN4EIC

Helping you to kickstart / participate in an innov proc

EU funding for buyers' groups

- Greening healthcare: 20 M€ (<u>HLTH-2024-CARE-14</u>; 26/11/2024) NEW
- Demand led innovation in security: 10,5 M€ (2024-SSRI-01-01; 20/11/2024) ENLARGED CALL

How to prepare a successful **innovation procurement proposal** in Horizon Europe (video)









Thank you!

HorizonEU

http://ec.europa.eu/horizon-europe







Innovation procurement

CSA

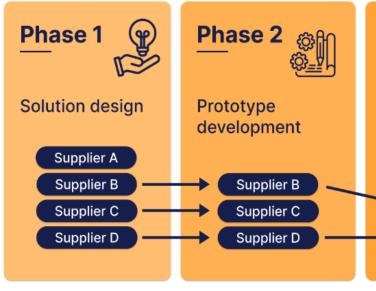
R&D / Pre-commercial Procurement (PCP)

Public Procurement of Innovative Solutions (PPI)

CSA



Curiosity Driven Research



Phase 3



Original development and testing of limited volume of 1st test products / services

Supplier B

Supplier D





Deployment of commercial volumes of end-products

Wide diffusion of newly developed solutions

> Supplier(s) A, B, C, D and/or X

TRL 1-2



TRL 3-4

TRL 5-6

TRL 7-8



TRL9







Samira BOUSSETTA – Innovation Procurement Expert

Samira Boussetta is an expert consultant in sustainable and innovative public procurement. She has held key roles such as Director of Public Procurement for local authorities, Head of Legal Affairs and Innovative Procurement in the health sector, and Head of the Innovation and SMEs Unit in the French State Procurement Directorate.

In 2019, she joined the European Commission to advance public procurement innovation across Europe. A trained lawyer, Samira also holds a Master's degree in Innovation, Foresight, and Organisational Transformation.

Throughout her career, Samira has championed collaborative approaches to foster innovation. At the French government's purchasing department and the European Commission, she has been instrumental in developing buyers' communities focused on innovation and sustainable development.



Example of PCP in the health sector



Anti-Superbugs PCP







Pre-Commercial Procurement of Innovative Triage Management Systems Strengthening Resilience and Interoperability of Emergency Medical Services



Pre-Commercial Procurement of Innovative Triage Management Systems Strengthening Resilience and Interoperability of Emergency Medical Services

SYNYO GmbH - Bernhard Jäger (iProcureSecurity PCP Project Coordinator)

Find more information on the project here \rightarrow













Type: PCP | Duration: 38M | PN: 101022061

Pre-Commercial Procurement of Innovative Triage Management Systems Strengthening Resilience and Interoperability of Emergency Medical Services



SYNYO

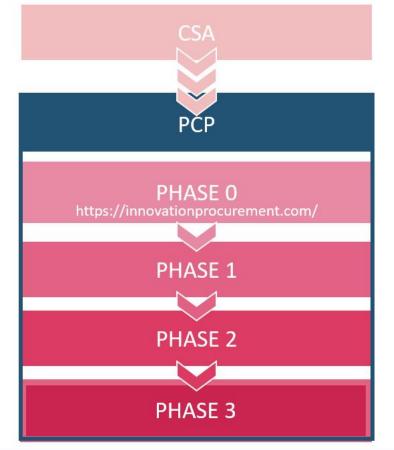
empirica

*AREU

OBJECTIVE: Improve triage through a flexible management system

- Quick and accurate overview of casualties and their status.
- Decision support for better allocation of available resources & quicker support for casualties.
- 3. Improved interoperability with other first responders and relevant actors.
- 4. Reduced handover times between ambulance transport and hospitals.
- 5. Insights for quality assurance and training measures.

Main Focus Area Triage Officer Treatment Officer Transportation Officer (Category C) Triage Evaluation/ Training IProcureSecurity PCP Solution Third-party App Providers Ambulances (Category 8) Other First Responders (Category 8) Other First Responders (Category 8) Hospitals











The European Innovation Council

Backing visionary entrepreneurs



EIC BUSINESS ACCELERATION SERVICES

- Mentors, coaches
- Global partners
- Innovation ecosystems
- EIC Community Platform



Grants up to €2.5 million

To develop

business cases (TRL 4-6)

EIC PATHFINDER

- For consortia
- Grants up to €4 million
- To research technology breakthroughs (TRL 1-4)



EIC ACCELERATOR

• For single companies o Grants up to €2.5 million Equity up to €15 million

To enter the market &

scale-up (TRL 6-9)

or above





EIC BAS Innovation Procurement program





WHAT

 Establish the EIC as a Centre of Excellence on Innovation Procurement



WHY

 Open procurement market opportunities to EIC awardees, thereby supporting them in scaling their businesses



HOW

- Provide EIC awardees with skills and knowledge to navigate procurement processes effectively through trainings and toolkits
- > Empowering **public procurers** with skills to understand and implement innovative procurement practices via direct assistance



Contacts

Skills

- Connecting procurers and EIC awardees and building a network of public and private procurers interested in EIC solutions via the EIC community of buyers
- > Facilitating **matchmaking** of EIC awardees with procurers for innovative solutions, via **pitching events**



Contracts

- Fostering agreements between EIC awardees and procurers for innovative solutions, via pitching and matchmaking events
- Assisting EIC awardees to participate in public and private innovation procurement tenders.



DEMAND

Matchmaking

For Private and Public procurers

- **Identification** of relevant procurers and development of a common challenge
- Matching EIC beneficiaries with buyers' needs based on the defined challenges

Assistance to public procurers

- public procurer
- consultation
- Support in the drafting of tender documents and building a business case

Co-creation of pilot solutions in preparation of a fully fledge procurement procedure (e.g. Innobuyer project)



SPIN4EIC Community





SUPPLY

Academies and Toolkit

- Organisation of **online Innovation Procurement Academies** to boost innovation procurement knowledge and skills in the **European and Global** contexts
- Building and sharing a toolkit on innovation procurement to be accessible on the SPIN4EIC Helpdesk

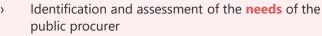
Pitching

- **Selection** of EIC Awardees to match procurers' needs and challenges
- Provision of **pitching coaching** and feedback on pitch decks

Assistance

- Identification of European and international opportunities matching EIC Awardees' solutions
- Assisting EIC Awardees throughout the tendering cycle (quidance on elaboration of tender strategy, storyline, pipeline management, opportunities follow-up and feedback loops, IP and legal matters, etc.) based on tailored needs of each assisted EIC Awardee
- PoCs or pilot tests on the services of public and private sector buyers de-risking Innovation Procurement (e.g Innomatch)





Support with conducting an open market





Thank you!

Dr. Jur. Vasileios Tsanidis EIC BAS -Innovation Procurement Advisor

vasileios.tsanidis@ec.europa.eu Tel +32 229-54767

× v_tsanidis

in vasileios tsanidis



Do you want to work with us?





11.30 - 12.15 Panel discussion 3: How Earth Observation can contribute to new innovative climate adaptation solutions and to innovative governance tools? Moderated by Remco Timmermands, Spaceside



Franz Immler
Head of the Environmental
Observation Sector, EC/
DG RTD



Annalisa Donati Secretary General, EURISY



Emmanuel Pajot
Managing Director,
EARSC





Environmental Observations

How can Earth observation contribute to new and innovative climate adaptation solutions and innovative governance tools

Franz Immler, European Commission, DG RTD, B.3

From monitoring...













...to understanding

Copernicus Services

- CAMS
 Copernicus Atmosphere Monitoring
 Service
- CMEMS
 Copernicus Marine Environment
 Monitoring Service
- CLMS
 Copernicus Land Monitoring Service
- C3S
 Copernicus Climate Change Service
- CSS
 Copernicus Security Service
- CEMS
 Copernicus Emergency Management
 Service

EO benefiting end users



https://e-shape.eu/index.php/success-stories











Policy context

- Implementing the Green Deal:
 - Climate Services, adaptation
 - Biodiversity restoration (mapping ecosystems)
 - Sustainable Agriculture
- GEO / EuroGEO
 - International collaboration
 - Earth Intelligence
 - User centric approach



Thank you



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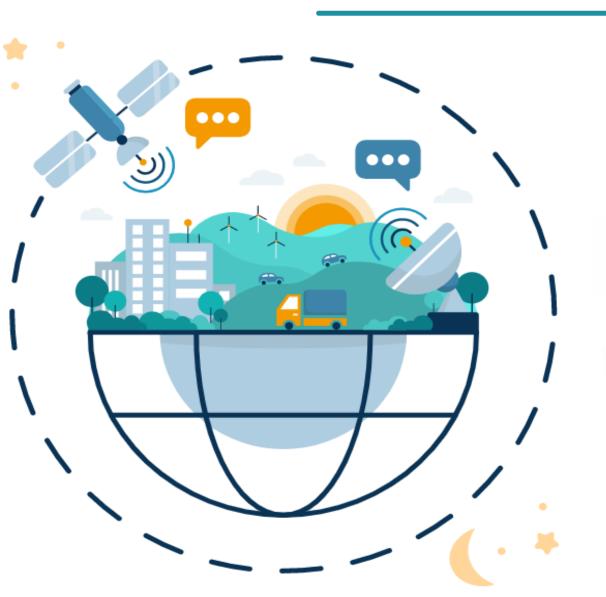
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Slide xx: element concerned, source: e.g. Fotolia.com; Slide xx: element concerned, source: e.g. iStock.com





Mission & Members























































Approach



Facilitator -> EXPLORE

Raise awareness of satellite applications to help professional communities in many sectors: from transport to risk management, from habitat protection to energy, from climate change to the IoT.



Matchmaker -> CONNECT

Support potential end users of satellite applications by leveraging its vast network among space and non-space communities; understanding patterns and links and/or creating them for mutual benefits.



Adviser -> INFORM

Provide feedback to decision-makers on possible measures to overcome obstacles in diffusing spacederived innovation in society.



SAFE & RESILIENT CITY O



DISASTERS & SECURITY

- Management of natural disasters
- . Coordinated emergency and rescue services
- . Eritical infrastructure menitoring
- . Sit spills detection and removal
- . Monitoring of hezardous goods' transportation
- . Applysis of crime incident patterns
- . Intringements' reporting



SOIL & WATER

- . Soil morphology and moisture
- . Soil cover and use
- . It land and see water quality and tomperature
- . Remote control of water reservoirs
- . Hazardous materials management
- . Sustainable urban agriculture

HEALTHY & INCLUSIVE CITY 1



- . Air quality and temperature
- . Traffic, industry and sirpert emissions
- · Air quality modelling and management



CLEAN CITY

- . Solar energy systems' assessment
- . Wind maps for wind power stations
- . Resecto monitoring of by dropower stations
- . Synchronised power grid systems
- . Remote detection of power outages



- . Urban forest and biosphere maps
- · Bolanced groes and built-in spaces
- . Vegetation cover monitoring and management



- Optimised bin collective
- . Detection of illogal dump sites
- . Razardous wasta tracking

EFFICIENT CITY



HEALTH

- . Coordinated emergency medical services
- . Remote health check-ups
- ... Pollution peaks slorts
- First aid apps



ENGAGEMENT

- . Apps enhancing civic e-participation
- . City management based on mobile behavioural data
- Apps festering sestainable lifestyles
- . City open data



CULTURE

- . Monitoring of historical buildings
- . Augmented reality and historical city maps
- . Tourism and city guides
- . Geolocated outdoor serious games



URBAN PLANNING

- . Land cover classification
- . Land see mositaring and management
- . Cadastral maps
- . Urban sprew! menitoring
- Property tex evaluation
- . Identification of Magal bribbers
- . Urban 10 planning



TRANSPORT & MOBILITY

- . Resisting transport information
- . fifter and car charing
- . Intermedal transport
- . Erhae traffic medelling and analysis
- . Optimisation of public transport and traffic lights
- . Mobility support for persons with impaired mobility
- . Parking agos



BUILDINGS & INFRASTRUCTURE

- . Mankering of pregnents buildings and entical infrastructure
- Planning of constructions and transport infrastructure
- Adapt construction nuterials to climate changes
- . Road condition and traffic cultry improvements
- . Happing of buried optic fibre, you and electric lines
- . Soil sidercheron maps to prioritise maintenance works





The Public Service of Wallonia (Belgium) relies on satellite imagery for a comprehensive view of land cover and use

The user:

The Public Service of Wallonia



The challenge:

Acquisition of precise, accurate and easily updatable information, on land cover (LC) and land use (LU) to comply with EU INSPIRE Legislation

The solution:

WALOUS maps' integrate the latest georeferenced data on the whole Walloon territory

The benefit:

The Department of Agriculture, Natural Resources and Environment of the PSW uses the map to support farmers in making their declarations.



COPERNICUS AND ME





Video available at:
https://youtu.be/K6Y
ZoSBmHSQ

COPERNICUS & ME



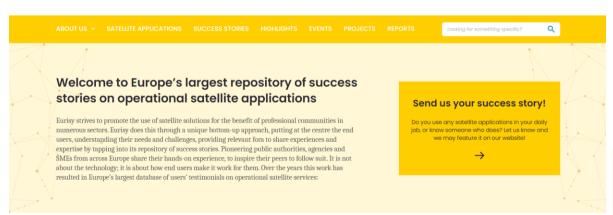
COPERNICUS & ME





COPERNICUS & ME

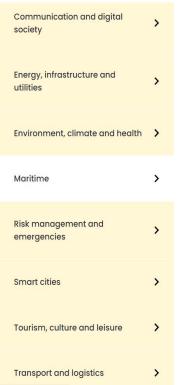
Success stories database



The Success Stories aim at addressing communities outside the space sector to express their needs and to present their challenges.

Objective is to favour the integration of satellite-based solutions in their workflow.

Success stories will favour the dissemination of case studies and help connecting service providers and end users.





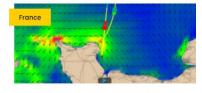
Montenegro: Protecting marine habitats thanks to a map based on satellite information



Lazio Region: supporting coastal zone management with geo-information services

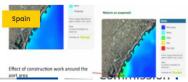


Finland: All-year-round open ports due to efficient ice-breaking services



Weather4D: smooth seas and fair winds ahead with satellite technology





Thank you!

For more visit our website



QUESTIONS?

Follow us:











13.00 – 14.30: Time to grab a coffee, meet, greet, and network!

- EU Project Area in the back of the main room
- Supplier & Buyer Meet-Up Area in the Foyer
- Want some privacy? Plan your B2B meeting in the planner (separate rooms on the lower level)





Corner 1 - PROTECT Team Foyer area



Corner 2 – Buyers Foyer area



Corner 3 – Suppliers Foyer area



Corner 4 - European Projects Main room



Presentation of the PROTECT project and its Key Exploitable Results (14.30 – 15.30)













Marc
Pattinson,
Innovation
Director at
G.A.C. Group

Mélissa Campagno, Innovation Consultant, G.A.C. Group Ioana Rosca
Space Project
Manager,
Aerospace Valley

Stefka
Domuzova,
Space Earth
Observation
Orchestrator,
EIT ClimateKIC

Matty van
Sloten, Project
Manager,
Corvers
Procurement
Services

Paolo Mazzoli, Hydraulic and Flood management engineer, GECOsistema



PROTECT Final Event

PROTECT ID Card

 PROTECT is a project funded by the European Commission in the framework of the HORIZON EUROPE programme under Grant Agreement Number 101060592.

Call info: <u>Link</u>

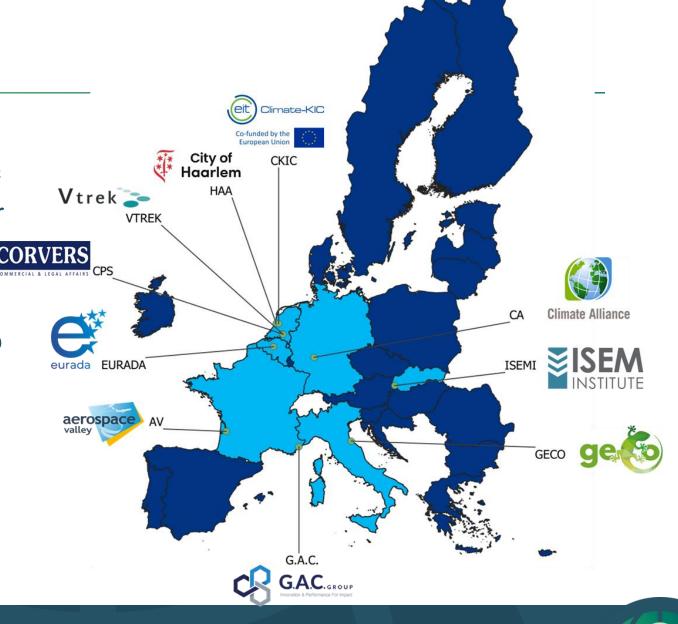
PROTECT is coordinated by G.A.C Group

• 10 European partners

Budget 2M€

Start: 1st of June 2022

End: 31st of May 2024 (24 months)





PROTECT in a nutshell

WHY?

Fostering the response capacities and increasing the cooperation of European Public Buyers in EO and Climate Change adaptation and mitigation is of decisive importance for strengthening the climate resilience of European societies in the light of multiple climate hazards calling for close cooperation of public authorities.

WHAT?

PROTECT is intended as a preparatory phase to a future PCP. It aims at defining the needs for Innovation Procurement (PCP action) as a means to develop new and innovative climate change adaptation solutions based on environmental observation (space, in situ, citizen observation).

HOW?

PROTECT aims at creating a Pan-European network of local, regional and national level Public Buyers together with EO data and climate service providers, and any other relevant stakeholders in order to identify and tackle capability gaps and innovation needs to foster greater involvement of stakeholders in innovation procurement.

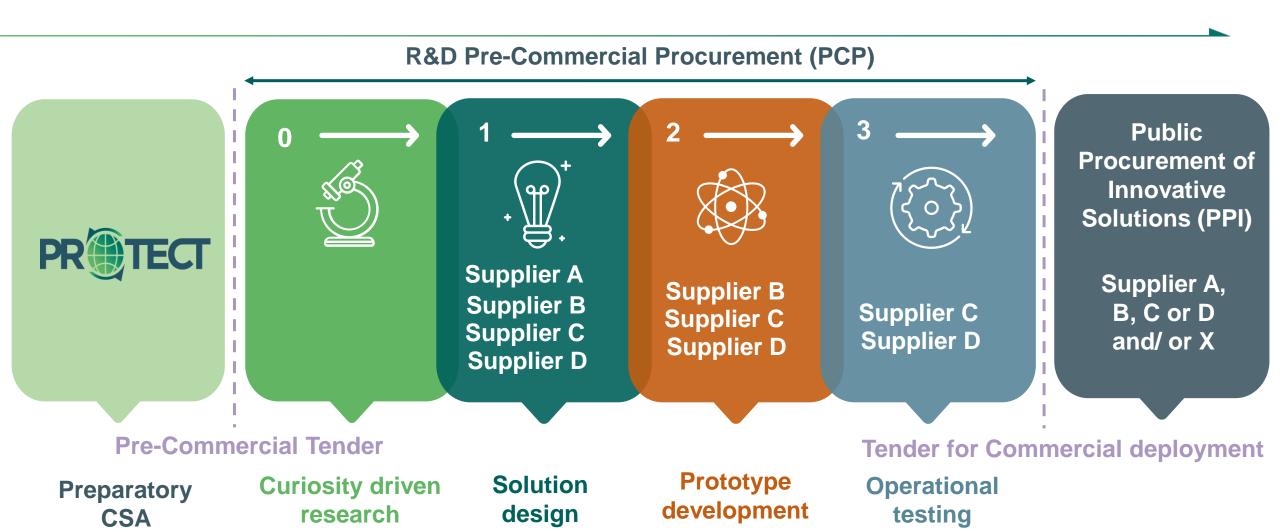
Duration: 24 months

Coordinator: G.A.C. Group

Start date: 01.06.2022 **End date:** 31.06.2024



In case you did know not what PCP is...





PROTECT Concept & Timeline

Collect & analyse information and data about challenges and unmet needs, knowledge and capability gaps, and R&D initiatives to create a catalogue of innovative solutions in five application domains

Advise up to 8 public authorities with climate change challenges on climate services fit for them **& Provide** specifications about common requirements and technical tender documents for the procurement of R&D, ready-to-use by the upcoming PCP action and external procurers.



MAP & CONNECT

CONNE

Dec 22

Map & connect public buyers facing climate change challenges and unmet needs, providers of EO data and climate services, projects, networks and experts in the field to build synergies among existing actor constellations and initiate knowledge exchange





FINETUNE & AGGREGATE

ADVISE & PROVIDE

COLLECT &

ANALYSE



Sep 23



DISSEMINATE & EXPLOIT

Finetune & aggregate public buyers' needs to select 4 priority challenges fit for the PCP project, organise 4 OMCs and further support the formation of consortia of buyers to prepare a PCP application

Disseminate the project activities through continuous and multiple channels and communication means targeting practitioners and R&D providers from all over Europe & **Exploit** key project results



Pre-Commercial Procurement Call



19M EUR fully funded by <u>Horizon Europe</u>



- Closed on: 28 February 2024 at 17:00 CET
- Expected start: Q4 2024
- Expected launch of PCP tender: Q2/Q3 2025

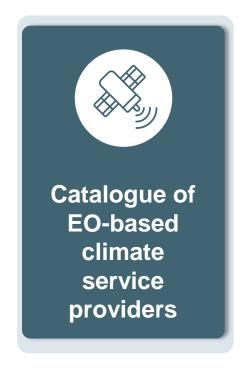
Expected outcomes

- Customisation/pre-operationalisation of prototypes end-user services building on the Copernicus Services that respond to the common needs of a buyers' group (up to TRL 8);
- Reduction of fragmentation of the demand for innovative solutions by enabling public procurers to collectively implement a Pre-Commercial Procurement (PCP);
- New opportunities for wide market uptake and economies of scale for the supply side.



Zoom on 4 Key Exploitable Results...













The PROTECT "Community of Public Buyers"



Mélissa Campagno G.A.C. Group





Creating the PROTECT Community





Trainings & workshops

Surveys

Community Platform

Open call for PCP

120 Public Buyers in the Community

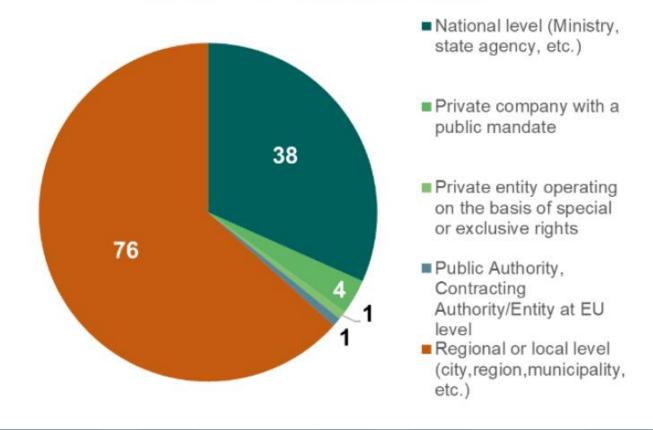
12 PCP call applicants



Types of procurement organisations in the Community



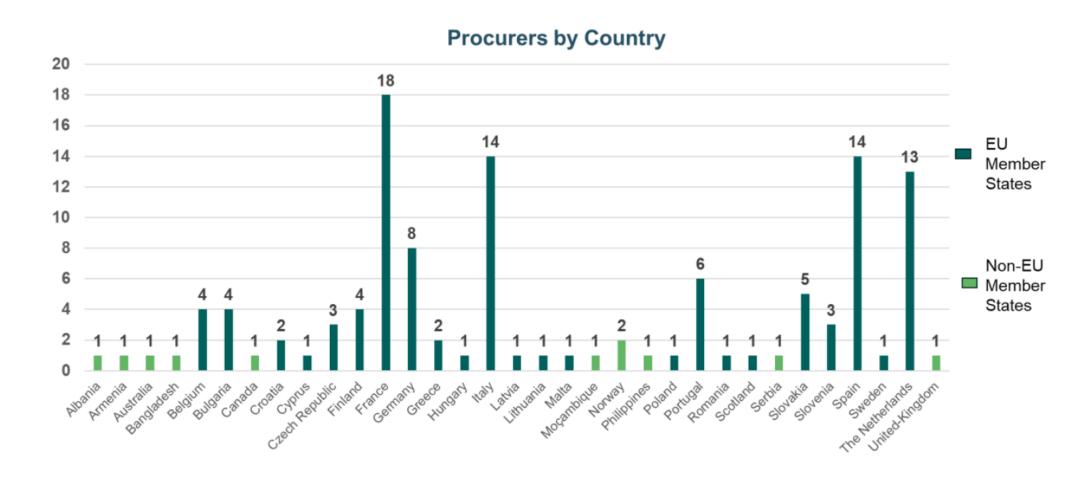
Procurers by organisation type





Countries represented in the Community



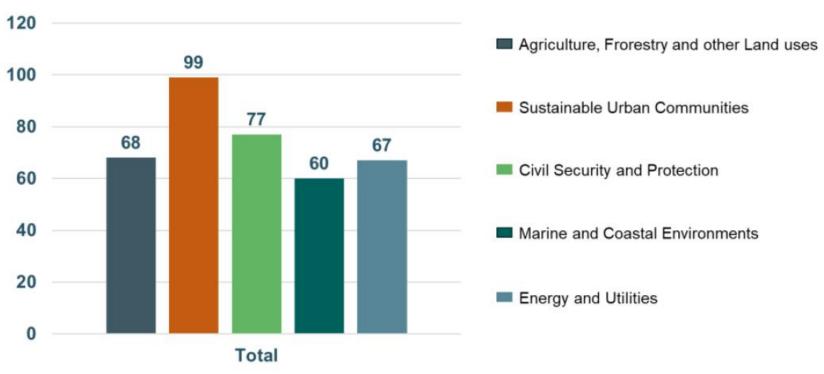




Buyers' interest in the 5 application domains



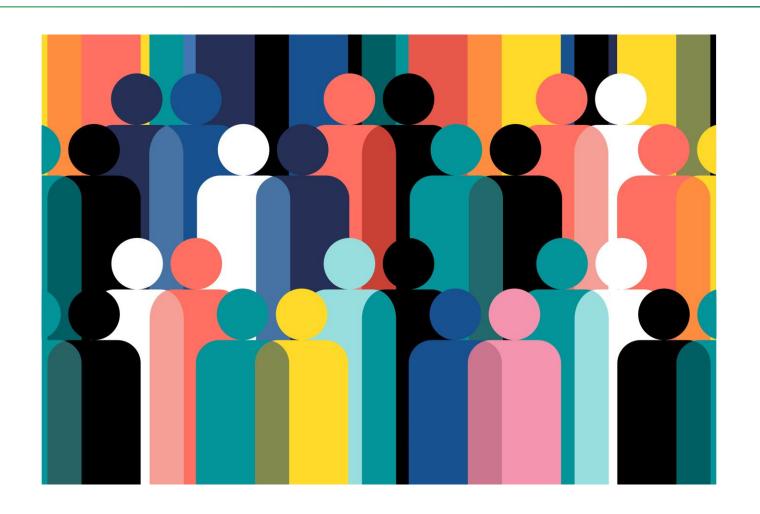






What's next for the Community of Buyers?







PROTECT Presentation





Assessment of the PCP WISE project application by the European Commission is expected for the end of June!

Check the results on our website! https://www.protect-pcp.eu

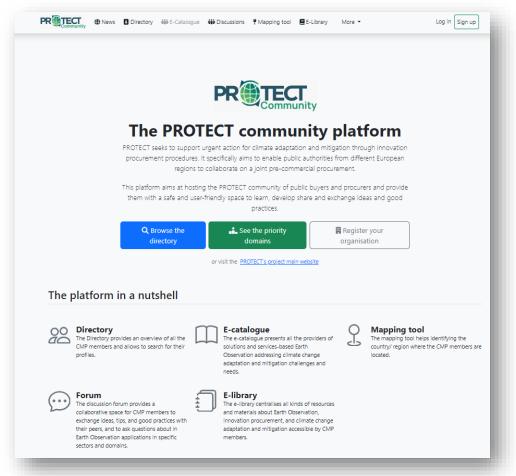
Interested in joining the Stakeholder Observatory Group and follow the PCP's developments?

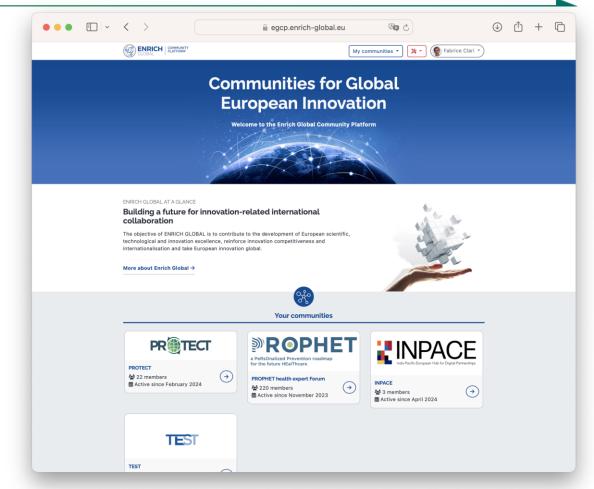
Let the PROTECT Team or PCP WISE Buyers know!



From a Buyers' Community to a wider and more inclusive Community







https://community.protect-pcp.eu

https://egcp.enrich-global.eu



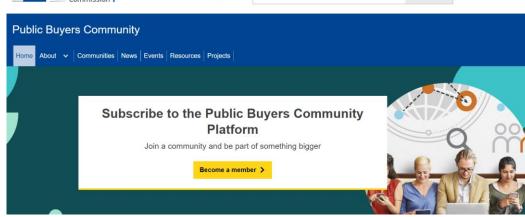
Other relevant external Communities



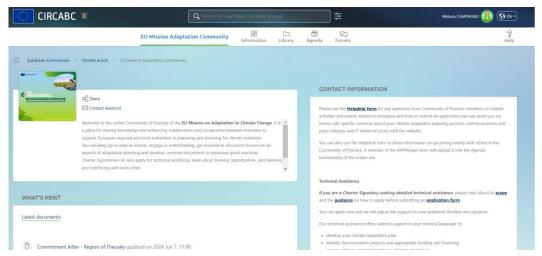
EuroGEO Action Groups

O Log in





DG GROW's Community of Public Buyers



EU Mission Adaptation Community



European

PROTECT Presentation 06/06/2023



The PROTECT "e-Catalogue"



Ioana Rosca, Aerospace Valley



This project has received funding from the Horizon Europe Framework Programme (HORIZON) under grant agreement No 101060592



Catalogue of EO-based climate service providers - Agenda





1. Overview of the Key Results



2. Methodology



3. Expected value of the results and expected outcomes

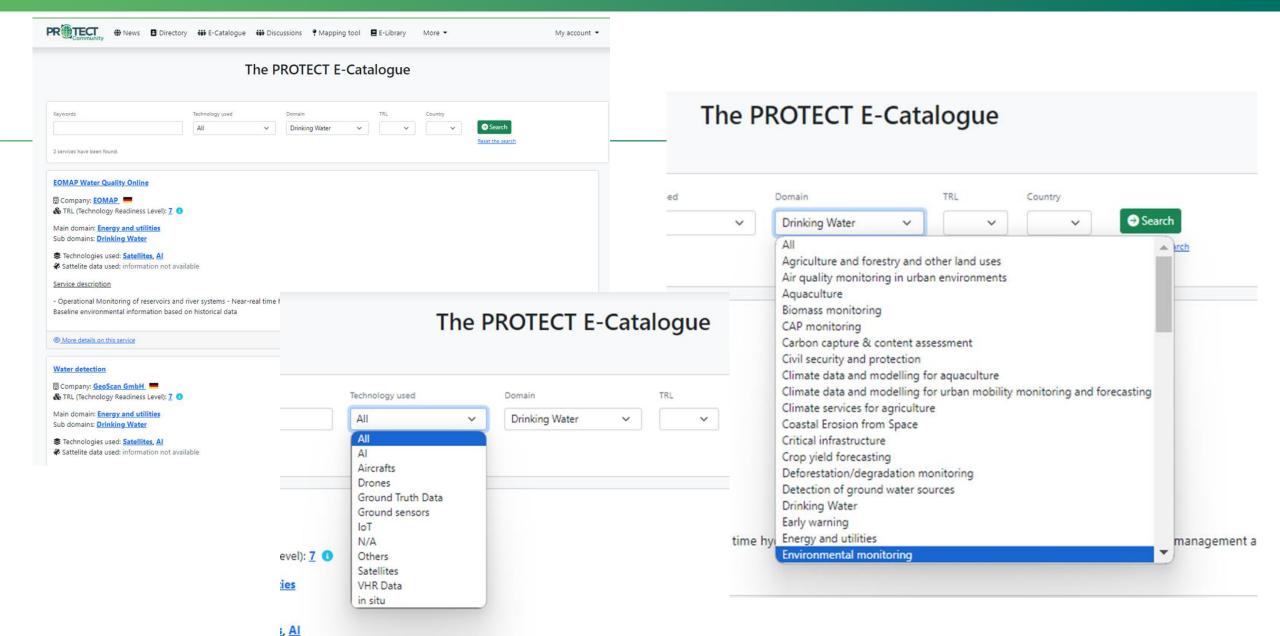


4. Feedback

Catalogue of EO-based climate service providers – Overview of the Key Results



363	247	182	175	124	181	139
Total number of CS mapped	Total number of companies or organizations mapped	Total number of CS collected through online survey	Total number of CS suitable for PROTECT	Total number of companies filled in survey	Total number of services collected through desk research	Total number of services in the e- catalogue



Catalogue of EO-based climate service providers – Methodology



A combination of the following methodologies have been applied:

Desk Research Online Survey Scouting/ Interviews



Catalogue of EO-based climate service providers – Expected value of the results and expected benefits



Provide an overview to the stakeholders

Create awareness about PCPs among providers

Input for the State-of-the-Art Analysis and Open Market Consultations

Basis for the Orientation papers



Catalogue of EO-based climate service providers – Feedback





Guide future public investments



Guide suppliers



Guide private investors



Data gap analysis



The PROTECT Toolkit of resources



Stefka Domuzova, EIT Climate-KIC



The PROTECT Toolkit of resources: from resources to toolkit



CONTENT: More than 50 PROTECT-made and other resources.

All resources that will compose the Toolkit are already or will be made available on the PROTECT website by the end of June 2024.

FORM: The toolkit already exists in a prototype "Booklet" version, soon to take the shape of an online platform.

EXPLOITATION: Imagine together how can different stakeholders be interested in using the Toolbox and supporting its partial/total uptake.



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Content: What have we produced to help public procurers (and not only!):



- The PROTECT taxonomy of climate services
- Analysis on the Market of CS/EO services in the 5 PROTECT domains
- Analysis of the perceived climate adaptation risks around Europe (per region)
- Analysis of national legal frameworks vis-à-vis innovation procurement
- Training webinars and materials on PCP, climate services, Earth Observation and the interaction
 of these e.g. The PROTECT Training Curriculum and Painpoint workshops
- Policy briefs
- Other awareness-raising material (PROTECT-made and others)

All available at https://www.protect-pcp.eu/downloads/



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Format: PROTECT Toolkit of resources: where we started from?



Webinars & Workshops

- > Open Market Consultation webinar#1 FLOODS Challenge
- PPT Presentation of the OMC on FLOODS challenge
- > Open Market Consultation webinar#2 FIRES Challenge
- PPT Presentation of the OMC FIRES challenge
- > Open Market Consultation webinar#3 WATER Challenge
- > PPT Presentation of the OMC WATER challenge
- > Open Market Consultation webinar#4 SUSTAINABLE INFRASTRUCTURES Challenge
- > PPT Presentation of the OMC SUSTAINABLE INFRASTRUCTURES Challenge
- > PROTECT PCP Introduction training: https://youtu.be/vWRKY1sNw48
- > PROTECT Practical aspects of PCP: https://youtu.be/Y7mVJDdrE0E
- PROTECT Matching climate services to climate targets and broader needs: https://youtu.be/sQrrhbkccOw
- PROTECT Exploring the wide range and scope of climate services: https://youtu.be/V8ChIOHL5ng
- PROTECT Online workshop SUSTAINABLE URBAN COMMUNITIES: https://youtu.be/Upu93pnxx9I
- PROTECT Online workshop AGRICULTURE FORESTY AND LAND USE DOMAIN: https://youtu.be/y7HFjeBDbYY
- PROTECT Online workshop ENERGY AND UTILITIES: https://youtu.be/teADUwlkaXE
- > PROTECT Online workshop MARINE AND COASTAL ENVIRONMENT: https://youtu.be/amnlapsiwRY
- PROTECT Online workshop CIVIL SECURITY AND PROTECTION DOMAIN: https://youtu.be/qLaaBcUaUo8
- > Pain point workshop on FLOODS challenge https://www.youtube.com/watch?v=LoqkdtneXF8
- > Pain point workshop on FIRES challenge https://www.youtube.com/watch?v=WGcgwT878t0
- > Pain point workshop on WATER challenge https://www.youtube.com/watch?v=KCUn8QKcnAg
- > Pain point workshop on INFRASTRUCTURES https://www.youtube.com/watch?v=nDW41jC5POg
- > e-pitching session Briefing event: https://youtu.be/F28ZaDLwznY

Documents

- Cross-cutting analysis of drivers and barriers of the demand for climate services in the EU (Project deliverable)
- Open Market Consultation FAQ
- > Open Market Consultation Report
- > Overview of the four selected challenges for the PCP
- > PROTECT's 10 online trainings and accompanying material
- > Analysis of climate challenges in European regions
- Cross-analysis of climate services and barriers into potential PCP topics
- > Innovation friendly legal frameworks to implement Innovation Procurement_for upload
- One pager Climate change adaptation and mitigation
- One pager How EO services contribute to climate change adaptation and mitigation
- Preparing a Pre-Commercial Procurement- Needs identification and assessment using value methodologies
- > Prospective Article Energy and Utilities
- > Prospective Article Marine and Coastal Environment
- > Protect Taxonomy
- Relevant EUROPEAN policies for PROTECT
- What is innovation procurement
- > PROTECT_Pain_Point_Fall Presentation
- Package of 10 Policy Briefs



Format:PROTECT Toolkit of resources: inspirations we

followed

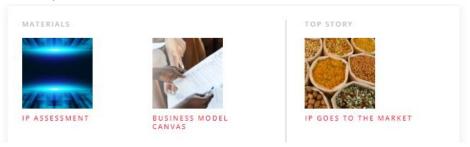


PROCEDIN Resource Library

▼ From prototype to market-ready service

So, you have your minimum viable product and are now on the verge of diving into the market. One, two, three...? Well, it is not as easy.

This is where solid business planning and market exploration are required. Developing a business model based on a unique value proposition in conjunction with a market analysis and/or competitive analysis helps in paving your way towards commercialisation and beyond. To make things work you will need to consider the IP aspects. Which assets are protectable and is protecting them with an IP right the way to go in every specific case? (e.g., patent vs trade secret). You will also need to consider the legal aspects of founding and running a company. While procedures vary among countries, many have encouraging conditions for young technical start-ups (such as favourable tax regimes, financing and even acceleration/incubation support schemes).

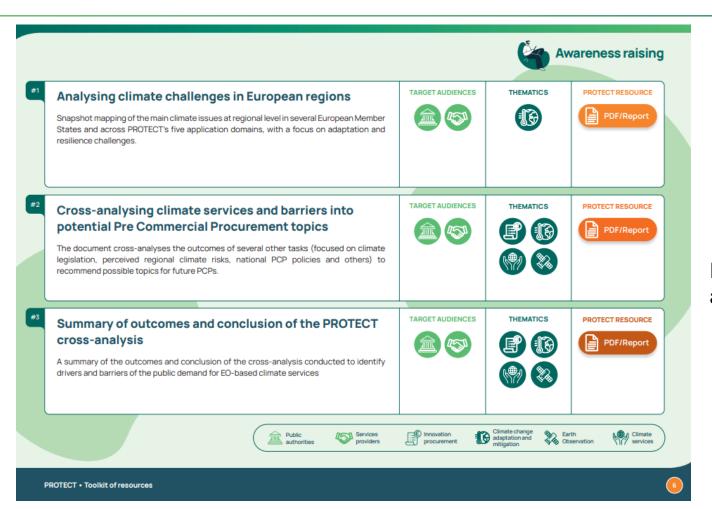


e-shape Sustainability Booster





Format:PROTECT Toolkit of resources: pre-final results



Extract from the PROTECT Toolkit booklet, fully accessible here:



PRTECT

Thank you!



The PROTECT Toolkit booklet is fully accessible here:







Guidance & Recommendations for future action –

Part 1 PCP challenge & Procurement

strategy







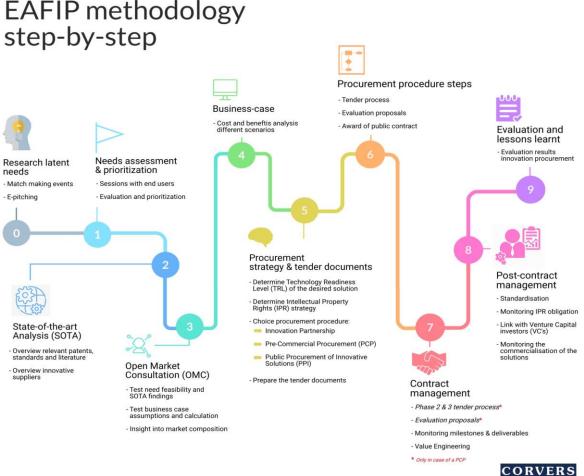
PCP Challenges & procurement strategy

- The 4 challenges and how did we get to them
 - ➤ Needs definition, assessment & prioritisation
 - ➤ Market research: State-of-the-Art Analysis & Open Market Consultation
- Next steps
 - **►** Business Case
 - ➤ Procurement Strategy
- Recommendations for future PCP



ROTECT Final Event

Preparatory activities - using the EAFIP Methodology for Innovation Procurement



- Use of Value and LEAN methodologies for the assessment of functional needs.
- Understanding the "as is" situation and the "desired" situation.
- Identification and description of use cases with end-users.
- Definition of a procurement strategy based on the TRL of solutions and the feedback from the market.
- IPR management in a PCP.

CREATED BY CORVERS PROCUREMENT SERVICES BY



Needs identification & assessment

Value engineering approach - 3 stages:

- 1. Pre-study (including surveys and desk research);
- 2. Workshops (pain point workshops and consultations)
- 3. Post-study (analysis and recommendations for the implementation of innovation procurement approaches).

5 Pain point workshops - value techniques used to:

- Describe the scope of problems
- Develop use cases & functional requirements
- Describe the present state & the desired (wished) future situation

One workshop per application **domain**:





Sustainable Urban **Communities**





Civil Security &





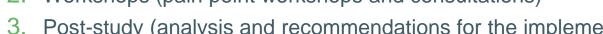














Value methodologies used in pain point workshops



Functions, use cases, value pilots

















Needs prioritisation

From 7 challenges

→ 4 challenges selected

Criteria:

- 1. commitment to lead a buyers group
- 2. interest of public buyers
- genuine need to solve a problem as part of the strategic plan of an organization
- 4. expected impact of EO and CS on several sectors
- technology readiness level (TRL)(COTS available or room for innovation?)
- 6. EU wide network, interregional cooperation and cross-border interest.

1 FLOODS CHALLENGE

Rapid mapping, predicting, preventing different types of floods and improving coordination efforts, relevant to marine and coastal environments, sustainable cities and civil protection and security agencies.



3 - WATER CHALLENGE

Climate resilient solutions for predicting, connecting data, planning, supply-demand, relevant to the application domains marine and coastal environments, energy and utilities, sustainable cities, agriculture, forestry and land use, as well as for civil protection and security agencies.



2 FIRES CHALLENGE

Predicting, preventing fires, tracking and tracing causality (causers) in different scenarios (waste, forest/nature, other), relevant to environmental agencies, sustainable cities, agriculture, forestry and land use, as well as for civil protection and security agencies.



H INFRASTRUCTURE CHALLENGE

Sustainable and resilient re-development, restoring & adaptation of existing neighbourhoods, relevant to sustainable cities and regions, energy and utilities and civil protection and security agencies.



11/06/2024



State-of-the-Art (SOTA)

3 activities SOTA:

- 1. Analysis of the Intellectual Property Rights (IPR), listing the existing patents and standards
- 2. Mapping of the Commercial-Off-The-Shelf (COTS) products
- Analysis of the material collected, translating this into a list of technologies and assessment of the TRL level of these technologies.

Conclusions:

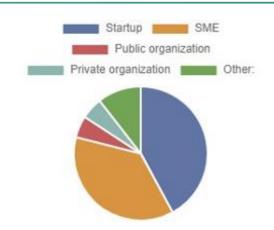
- Providers' most used COTS products are open data platforms such as Copernicus.
- There is research going on in fields related to the 4 challenges and solutions *tackling some but not all* of the functionalities defined under each of the challenges.
- There are currently no relevant standards for the four challenges.
- A number of products are available in the market but they can only partially address the gaps and needs of the procurers.



Open Market Consultation (OMC) Results

OMC Activities:

- 4 OMC webinars
- A request for information through an EU Survey questionnaire
- Other activities & questionnaires incl. publication Q&A document



OMC performed for the 4 identified challenges

The OMC confirmed the initial assumptions that the functional requirements of the four challenges cannot be tackled by one solution and that R&D efforts are required to address existing technology gaps. *Hence – there is room for innovation*.

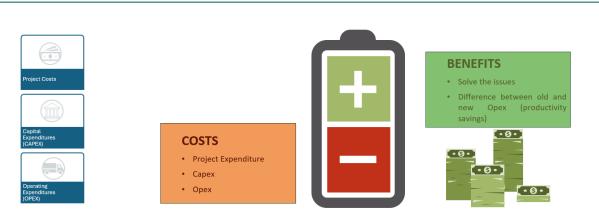
<u>Note</u> – a returning input in the providers questionnaire results was that several providers pointed out that there was room for innovation in the area of:

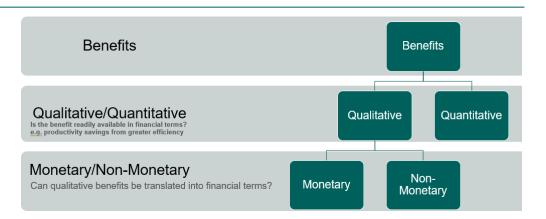
- combination and/or integration of data / databases
- combination and/or integration and/or merging of applications
- making currently available information more accessible and interchangeable



Business Case Development

- 1 Business Case per challenge performed outcome for all = positive
- Based upon the outcomes of the SOTA & OMC and on the public buyers' prioritised unmet needs (and specific technology gaps) to organise the PCP and achieve the underlying objectives while keeping the costs and risks to an acceptable level
- A baseline has been drawn on a layered approach and common taxonomy to collect water related data, develop comparative alternatives based on desired functionalities and outcomes and Total Cost of Ownership (TCO) calculations
- Translated into the Procurement Strategy







Needs prioritisation

From 7 challenges

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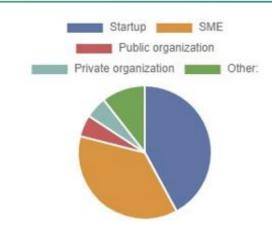
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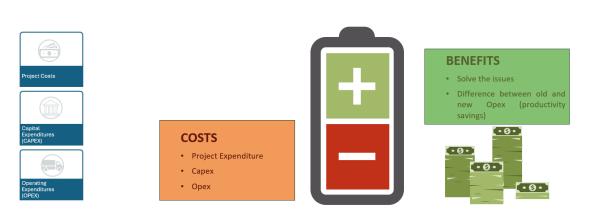
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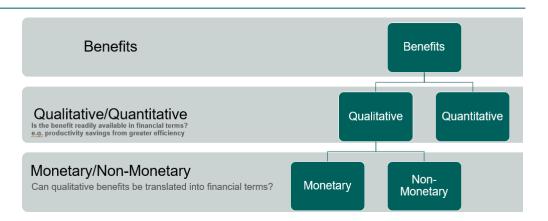
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- Translated into the Procurement Strategy







Procurement Strategy Design

The scope of the four (4) challenges and use cases was reassessed based on the OMC results and the discussions held with public buyers committed to implement a PCP.

Result: selection of one overarching Water (management) challenge clustering different use cases.

The aim is an integral assessment of day-to-day SWVA conditions with space-based value chains based on local/central knowledge (AI, EO-Inversion/hydrological modelling, etc.) to provide a first basis of local water intelligence for the use case stakeholders.

Current assessment:

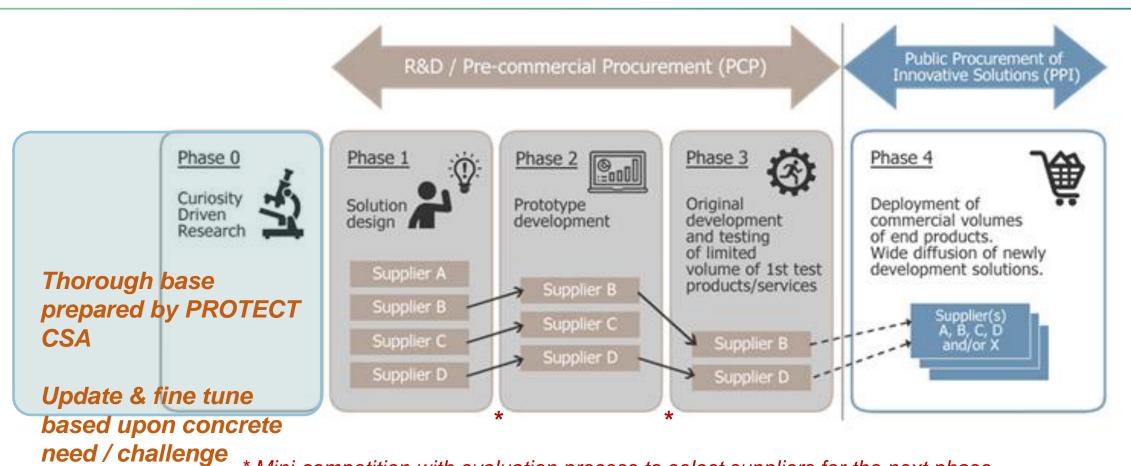
In principle, the four challenges identified are suitable for a **PCP approach** followed by a PPI for the deployment of the solutions developed in the PCP.

However, it is important to:

- obtain a more detailed assessment of the specific technology gaps to be addressed by the R&D efforts, which will be
 provided by the final results of the <u>SOTA analysis</u>, and
- to have a clear <u>cost/benefit analysis</u> of addressing those gaps regarding the value that the functionalities would provide to the public buyers in terms of the impact of the (to be developed) climate services and EO applications, which will be based on the business case.



Next steps



* Mini-competition with evaluation process to select suppliers for the next phase.

PR TECT

PROTECT Final Event 11/06/2024

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PCP recommendations

Bridge, built upon and update (preliminary) results and findings from PROTECT CSA

- Challenges & use cases descriptions → fine tune use cases (depending on actual public buyer(s)
- Providers questionnaire input → take into account
- Results SOTA → update SOTA
- Results and input given in the Open Market Consultation → perform new OMC
- Business Case → update Business Case
- Preliminary Procurement Strategy recommendations (from Orientation Paper) → take into account





Guidance & Recommendations for future action – Part 2 Pilot activities



Paolo Mazzoli GECOsistema





On-demand consulting activities – Guidance & recommendations for future action



- A step-by-step approach:
- Step 0 Find Pilots among participants/strategy
 - Step 1 Framing Questionnaire
 - Step 2 SWOT Analysis by pilot members
 - Step 3 Going deeper with Face 2 Face





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Step 0 Find Pilots among participants and setting up the strategy

Selections criteria for **PILOT Selection** webinar attendance

Diversification of public/private status, size, regulatory context, climate, environmental impact strategy, geographical areas,

application domain

Level of engagement

. . . .

ARPA Lombardia

Ayuntamiento de Las

Rozas de Madrid

Het Waterschapshuis

Region of Central Macedonia

Emilia-Romagna Region

Barcelona Provincial
Council

Strategy shared with the set of Experts (CKIC,CORVERS, HAA) in PROTECT

- Framing –SWOT

On demand sessions

 analysis and lessons
 learned

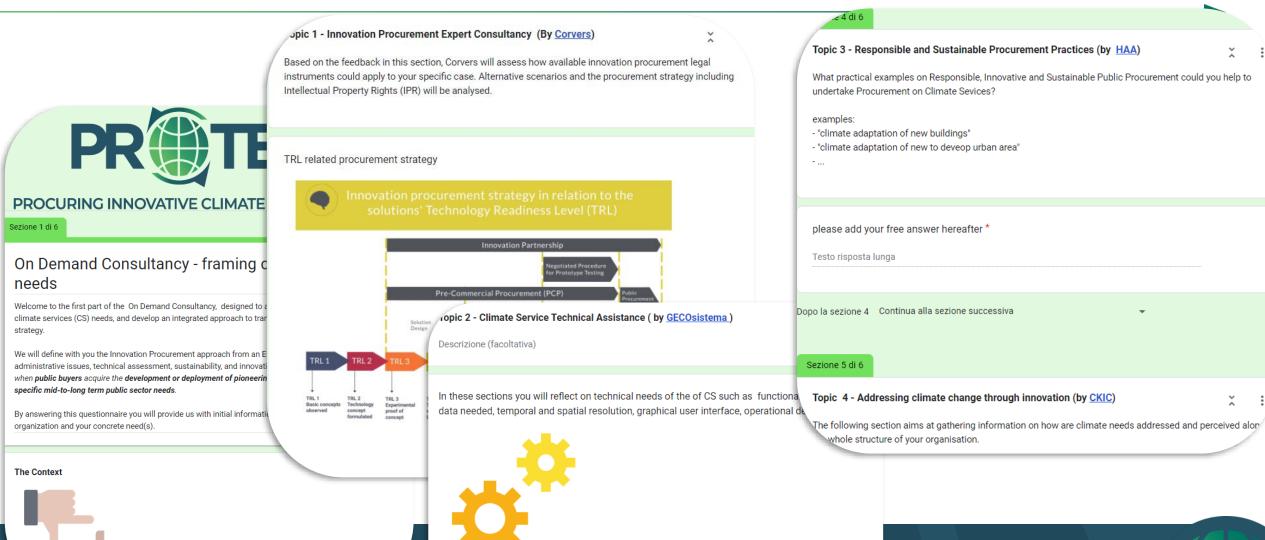


11/06/2024

Step 1 Framing Questionnaire



11/06/2024



Broader outcomes





Prioritize and Specify Needs



Explore Innovation Procurement



Engage in Technical Planning







Utilize Available Platforms and Communities





Step 2 SWOT analysis



Pilot XX

short description of the CS needs from the framing questionnaire

your CS identified: https://@@@@@@

Criterion xxx

Final Free style insights and reflections

• is there one or more key takeaway or insight from the session? This can be in relation to the climate services discussed, the SWOT analysis findings, or any new perspective you've gained regarding the procurement strategy of innovative Os

- How do you envision implementing your procurement strategy? What challenges or hurdles do you foresee? Any idea on how to overcome these challenges?
- Are there areas or topics You'd like to delve deeper?
- When do you expect to start your procurement?

Criterion xxx Example

The SWOT scheme is a strategic planning tool used to identify and analyze Strengths, Weaknesses, Opportunities, and Threats related to project management, decisionmaking, and strategic planning.

1. Strengths Section:

2. "Under 'Strengths,' identify and note the advantages and positive aspects your organization could experiences with the climate service. Consider what is working well and how the service aligns with your goals. Reflect on the specific functionalities that give your organization a competitive edge or operational efficiency."

3. Weaknesses Section:

4. "In the 'Weaknesses' area, address any shortcomings or areas where the climate service does not meet your needs. Think about any gaps, limitations, or aspects of the service that could be improved to better support your organization's objectives.'

5. Opportunities Section:

6. "The 'Opportunities' field is for potential improvements or favorable external conditions that could be capitalized on. Look into future trends, emerging technologies, or untapped data sources that could enhance the climate service's usefulness for your organization."

7. Threats Section:

8. "On the 'Threats' side, consider external challenges or risks that could impact the effectiveness or viability of the climate service. This might include regulatory changes, technological advancements among competitors, or environmental and market variability that could pose a risk."

Helpful Harmful on the limitations or areas where the climate service doe. Focus on identifying the positive attributes of the climate services not meet your organization's needs currently in use or those under consideration you will be guided by a specific Question you will be guided by a specific Question ivements or new developments that could benefit your organization utilization of climate services. you will be guided by a specific Question you will be auided by a specific Question External Origin



At the end of each session, please set aside a moment to ponder the key insights and knowledge you've acquired. This reflection helps grasp the direct and broader impact of your analyses on your procurement strategies.

Consider sharing your main takeaways or insights from the session. Focus on aspects related to the climate services explored, the findings from the SWOT analysis, or any new perspectives on your strategy for procuring innovative climate services.

PROTECT Final Event

SWOT broader outcomes





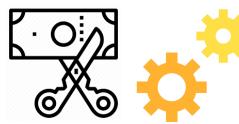




Data Quality and Integration

Anticipate Regulatory and Technological Changes





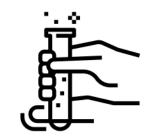
Address Budgetary and Technical Challenges

Face 2 Face meetings (partial) outcomes









Pilot Testing as a Crucial Step



User-centric Design for Climate Services



Leverage Cloud Computing for Data Management









16.00 - 17.00: Panel discussion 4: From PROTECT CSA to PCP WISE Moderated by Matty van Sloten, Corvers Procurement Services



Hans van Leeuwen SATWATER Program Leader at *STOWA*



Valentina Schippers
Chair of the Urban
Agenda Partnership for
Innovative and
Responsible Public
Procurement, City of
Haarlem



Martin Tuchyna
GeolCT & Environmental
infrastructure coordinator
at Slovak
Environmental Agency



Hugo Goncalves
Senior Development
Manager and Head of
EU R&I collaboration at
Forum Virium Helsinki



PROTECT Final Event

From PROTECT CSA to PCP-WISE

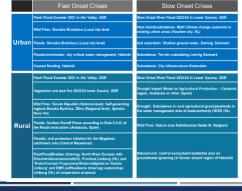
5 Application domains Sustainable Agriculture, Energy & Utilities Civil security coastal forestry and protection other land use Value methodologies used in pain point workshops **VSM** FAST Functions, use cases, value pilots As is (present) situation The demand for sweet water is unpredictable. The supply and demand of sweet water is not predictable. The regulatory landscape Uniorstano what is nappening at present and the mechanisms in place (also from a policy perspective). Learn how the problem of drought regarding supply and demand of water is addressed, to define the type of new services that support coping with stress situations based on a common language. Understand which are the connected. There are regulations and policies are clearly defined. The system can cope with stress situation based on data for informed decision determining the use of water from channels, treated water from the making and interventions. Supply and sewage and drinking water (in each elevant responsible public authorities and users. Also, identify the demand for sweet water are connecte based on needs of diverse users (e.g. EU Member State). There is no evelop a system that combines data and uses Al for modelling common language among different amers, companies, industry) and the vater quality required for different chain. There is a lot of data in oses. Decision and guidance from certain regions but the data hubs or collect, when and how to distribute water (treated in a certain way cy perspective is achieved to epositories are not connected. supply the specific demand, and avoid discharging sweet water mbine relevant data in the whole wat



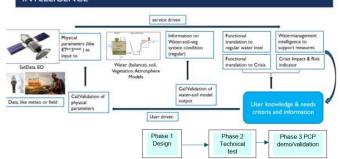
PCP & WISE

Pre-Commercial Procurement for the Customisation/preoperationalisation of Water management Innovations from Space for European Climate Resilience

22 Use cases in several domains



EARTH OBSERVATION BASED VALUE CHAIN FOR WATER INTELLIGENCE





a new starting point for global climate challenges

Cause

Climate change is leading to today global extremes such as drought, flooding, and therefore serious. consequences for water distribution, soil subsidence, (drinking) water quality, wild free, etc. The risk of damage is enormous. Damage for which the European governments are responsible.

Having access to the right management information is becoming increasingly relevant to manage such risks. This requires an improvement in the regular management & maintenance system, but mainly the resitzation that enriching existing knowledge through smart monitoring and use of digital innovations is crucial. Aust like the use of drones for inspection. or Al for simulating models, the use and deployment of satelite data is a good example of this. In the near future,

the water boards will have to be able to participate in the digital transformation towards information boards.

With its European financing program, HORIZON offers an excellent opportunity to take a big step forward in this transformation

and contribute to the control of global climate challenges.

HORIZON Program

In 2024, the EU will propose 19 through the HORSZON program. million euros available for applied research & development into satellite-based subdions for better water management. A subsidy application has been submitted under the name PCP WISE",

which may be approved in September 2024. This infographic explains what the project entails and what it potentially delivers for the water boards.

Soil-water-vegetation system

The common thread within the project proposal consists of the possibility of updating the local water balance of the soilwider-vegetation system and monitoring it with earth. observation-based solutions . This combination ultimately produces information that can be shared cross-border and uniformly. The daily operational and structural production of information is crucial for;

> Layers Information Clarking to know the belience system Developing and climate models

This updated status of water conditions helps local water managers, among other things, in prioritizing according to the displacement series from the Environmental Act. This means that as soon as a shortage threatens, fewer and fewer areas can be supplied with water. Current insight helps in making choices and thus correct water distribution to limit. damage. In combination with specific sector information, it is possible to bandute this into risk maps that ultimately strengthen situational awareness in the run-up to or during a water-related crisis.

Climate damage Proposal for the Customisation Pre-specials radiation of Male: resignment innovations from Easier for European Circum. EU

Tablesia 2023 Steams NOS 25/2024

Cost items for governments are

increasing

What do we do?

The Waterschapshuis is the director of this innovative tender. process. Slows is substantive

involved and contributes knowledge and experience and is supported by Firms Corvers. In addition, various municipalities. water boards and knowledge institutes will be affiliated to: jointly form a European consortium. Innovative requests will soon be placed on the market from this consortium. These requests will enable the business community to develop specific products. In addition to improved insight and monitoring of the water system. The parties within the consortium will also benefit from further development of advanced warning and monitoring systems.

Currently there are 22 use cases distributed in Europe across 8 countries, 5 of which are in the Netherlands. These use cases are used to identify the needs of stakeholders in different situations, shape the joint task and test and refine the delivered products.















What does it provide the Water boards?

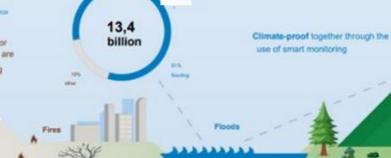
Water boards are responsible for this abong dikes and clean and sufficient water. To to continue to perform these tasks properly the constant pressure of climate change and European regulations/policies involve experimenting pliots crucial. This project closes in that regard fits seamlessly with the increasing datafication and the ambition from the Vasrkaart for the sector and everyone

individual water board to be ready by 2029. to work data-driven and digital innovations appropriately for their tasks. For the sector it is a hope opportunity to get shead of the to stand up and take control of this part of the digital transformation, to expand the international network; collect cross-border uniform information and prepare for a climate-proof future. If it is possible to generate up-todate risk maps at local and sectoral level, water boards will be at the forefront of risk management in the nun-up to or during a water-related crisis in a European context.

Dynamic satellite data in combination with local data takes water management to "the next level"

From Water Board to Information board







8 Partner countries

PCP WISE PBG

Role	Organisation	Country
Lead Procurer	STICHTING TOEGEPAST ONDERZOEK WATERBEHEER	THE NETHERLANDS
Public Buyer	HET WATERSCHAPSHUIS (hWh)	THE NETHERLANDS
Public Buyer	FORUM VIRIUM HELSINKI OY (FVH)	FINLAND
Public Buyer	MINISTERSTVO VNUTRA SLOVENSKEJ REPUBLIKY (MINISTRY OF INTERIOR SLOVAKIA) (Mol)	SLOVAKIA
Public Buyer	GEMEENTE HAARLEM (CITY OF HAARLEM)	THE NETHERLANDS
Public Buyer	BUNDESANSTALT TECHNISCHES HILFSWERK (THW)	GERMANY
Public Buyer	REGION OF CENTRAL MACEDONIA (RCM)	GREECE
Public Buyer	FORENINGEN KLIMATORIUM (KLIMATORIUM)	DENMARK
Public Buyer	BENEGO – GRENSPARK KALMTHOUTSE HEIDE	BELGIUM
Public Buyer	INSTITUT CARTOGRAFIC I GEOLOGIC DE CATALUNYA (ICGC)	SPAIN
Public Buyer	CITY OF ROTTERDAM	THE NETHERLANDS
Public Buyer	SLOVENSKA AGENTURA ZIVOTNEHO PROSTREDIA (SLOVAK ENVIRONMENTAL AGENCY) (SEA)	SLOVAKIA



PCP WISE Consortium partners

First Responders	BAYERISCHES ROTES KREUZ (BRK)	GERMANY
First Responders	ISEM-INSTITUT PRE MEDZINARODNU BEZPECNOST A KRIZOVE RIADENIE, NO (ISEMI)	SLOVAKIA
Technical Institution	INSTITUT D'ESTUDIS ESPACIALS DE CATALUNYA FUNDACION (IEEC)	SPAIN
Technical Institution	CLIMATE-KIC HOLDING BV (CLIMATE KIC)	THE NETHERLANDS
Technical Institution	AEROSPACE VALLEY (AV)	FRANCE
Technical Institution	FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV (FRAUNHOFER)	GERMANY
Technical Institution	UNIVERSITEIT TWENTE (UT-ITC)	THE NETHERLANDS
Technical Institution	FUNDACIO PRIVADA I2CAT, INTERNET I INNOVACIO DIGITAL A CATALUNYA (I2CAT)	SPAIN





PCP WISE SG

	No.	Organisation	Supporting	Stakeholder Group (SG)
	1	ARPA Lombardia		Х
	2	European Association for Remote Sensing Companies (EARSC)		Х
_	3	French National Fire Officers Academy (ENSOSP)		Х
	4	Hoogheemraadschap De Stichtse Rijnlanden (Regional Water Authority		х
	5	Irrigation Community Segarra-Garrides in Catalonia	х	Х
	6	Ministry of Climate Action, Food and Rural Agenda. Government of Catalonia		х
	7	Ministry of Interior of France		х
	8	Netherlands Space Office		Х
	9	Provincie of Limburg		х
	10	Région Provence Alpes Côte D'azur (PACA)		х
	11	Technology Centre of Catalonia (EURECAT)		х
	12	Toulouse Métropole	х	х
	13	Waterschap Limburg	х	
	14	Zilina Self-Governing Region		х
	15	Municipality of Fundão		Х
	16	Emschergenossenschaft/Lippeverband		х
	17	Regional Council of Nouvelle-Aquitaine	х	





PROTECT'S FINAL EVENT AT EXPANDEO 2024



PROTECT's final event PCP WISE contribution from Slovakia in domain of crisis challenges

From PROTECT CSA to PCP WISE session Martin Tuchyna, Slovak Environmental Agency 11.06.2024







PCP-WISE contribution from Slovakia in domain of crisis challenges - Martin Tuchyna, Slovak Environmental Agency3

1. Motivation & objectives

Main motivations to contribute to PCP-WISE

- Support adaptation to climate changes from "water" perspective
- Improve public procurement (PP) effectiveness impact
- Built on knowledge and expertise of PROTECT project

Objectives to be achieved

- Address practical requirements for crisis management via use cases
- Technical support of PP process preparation, execution & evaluation
- Improve awareness rising & user impact



2. Contribution scope

Design and implementation of use cases:

- Floods
- Fires

Support for public procurement innovations

- Consultations
- Pre-commercial procurement
- Public procurement of innovative solutions

Target stakeholders levels

- National (Ministries of Interior & Environment)
- Regional (Self governing region Bansk8 Bystrica)
- Local (Bratislava city & Spišká Nová Ves town)

COPERNICUS a spracovanie údajov pri povodniach

a takto to vyzeralo reálne pri dokumentovaní povodne dronom



Na východe Slovenska horel sklad karavanov a skládka odpadu

TASR 16. júla 2023 o 13:22

- Okrem karavanov horí aj skládka odpad
- Ide o čerstvé udalosti, ktoré boli nahlásené krátko po sebe



3. Expectations

Gains

- Establish new contacts and knowledge transfer
- Obtain tangible solutions for use case requirements
- Pilot public procurement innovations

Shares

- Offer domain expertise in crisis management
- ICT and Earth observation knowledge / experience
- Stakeholders communication and interaction

Wrap-up and concluding remarks

THANK YOU!

