

NWE0400607

RAINBOW

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Version 2.0

Form language: EN

Input language: EN

Currency: EUR

A - Project identification

A.1 Project identification

| Project id (automatically created) | NWE0400607 |
|---|--|
| Name of the lead partner organisation | Landeshauptstadt Stuttgart |
| Name of the lead partner organisation in English | State Capital of Stuttgart |
| Project title | Improve climate resilience in cities by restoring water cycles |
| Project acronym | RAINBOW |
| Programme priority | Smart climate and environmental resilience for NWE territories |
| Specific objective | 2.4: Promoting climate change adaptation and disaster risk prevention and resilience, taking into account ecosystem-based approaches |
| Project duration in months | 48 |
| Total budget | 5.900.000,00 |
| Total ERDF budget | 3.540.000,00 |
| % of total budget for investments | 2,00 % |

A.2 Project summary

Please give a short overview of the project and describe:

- the common challenge of the programme area you are jointly tackling in your project;
- the overall objective of the project and the expected change your project will make to the current situation:
- the main outputs you will produce and those who will benefit from them;
- the approach you plan to take and why a transnational approach is needed;
- what is new/original about the project.

Many urban and peri-urban areas in NWE suffer from frequent flooding events alternating with droughts and a lack of fresh water. Rising influence of climate change (CC) will increase these risks. The interaction between natural and artificial water bodies, like it worked for decades, is disturbed. Hence cities face significant water management challenges, including water quality, availability, and groundwater-related land subsidence.

Our aim is to overcome these problems and mitigate effects of CC by enhancing the capacity of cities for climate change resilience in the aspect of urban soil and groundwater resources management, thus enabling public players to strengthen the sponge function of the subsoil and restore shallow groundwater aquifers. With a transnational, transdisciplinary exchange innovative solutions jointly developed and tested in pilot actions in local contexts can be shared. An innovative framework will be developed, which includes also urban planning aspects tackling existing reluctance of urban managers and multiple user conflicts too.

The integration of "sponge city concepts" into urban planning goes beyond existing practice and is hampered by various barriers. By a combined approach of technical, spatial planning and land policy competences we will develop a strategic framework, 4 action plans and three key solutions to implement sustainable water management into urban planning and overcome implementation barriers. The transnational cooperation is needed to gather exemplification of key aspects to be tackled and each partner bringing in his related regional and specific technological expertise, capitalising on the high level of scientific knowledge in NWE.

By targeted trainings we raise awareness and upskill staff in environmental and spatial planning departments as well as related planners and consultants for resilient water management approaches thus increasing the readiness of cities and regions to implement water cycle restoration measures.

In French language [2000 characters]

Une large proportion de zones urbaines et périurbaines de l'Europe du Nord-Ouest (ENO) est soumise à des évènements extrêmes (inondations, sécheresses) ainsi qu'à une diminution des ressources en eau. L'influence croissante du changement climatique (CC) augmentera ces risques. Les relations entre grand et petit cycles de l'eau, existant depuis des décennies, sont ou seront donc perturbées. Les villes sont ainsi confrontées à la nécessité de modifier leurs pratiques de gestion de la ressource : qualité, production, rabattement et les affaissements associés.

Notre objectif est de renforcer la gestion intégrée des ressources en eau souterraine et de l'occupation du sol dans les villes pour optimiser la gestion des cycles de l'eau, augmentant la résilience des territoires face aux CC. Le cadre transnational et transdisciplinaires du projet conduira à l'émergence de solutions innovantes développées, testées et transférées entre les 4 sites pilotes. Une démarche centrée sur la planification urbaine sera aussi élaborée pour résoudre les freins rencontrés par les gestionnaires urbains et les conflits d'usage.

L'intégration des concepts de « ville éponge » dans la planification urbaine actuellement absente sera

résolue par notre approche combinant compétences techniques, aménagement du territoire et politique foncière. Nous élaborerons un cadre stratégique, 4 plans d'action et 3 solutions techniques, permettant l'évolution des règles de planification urbaine pour y intégrer une dimension de gestion durable de la ressource. La coopération transnationale est essentielle pour agréger les expertises régionales de chaque site pilote, facilitant leur déploiement à l'échelle de l'ENO. Nos actions de formation permettront une montée en compétence des agents en charge de l'environnement et de l'aménagement, des planificateurs et consultants sur les bons pratiques de gestion des cycles de l'eau, facilitant leur diffusion dans les villes de l'ENO.

In German language [2000 characters]

Viele städtische und stadtnahe Gebiete in NWE leiden unter häufigen Überschwemmungen, die sich mit Dürreperioden und Wassermangel abwechseln. Der zunehmende Einfluss des Klimawandels (CC) verstärkt diese Risiken. Das Zusammenspiel zwischen natürlichen und künstlichen Wasserkörpern, das jahrzehntelang funktionierte, ist gestört. Dies stellt die Städte vor erhebliche wasserwirtschaftliche Herausforderungen.

Um die Auswirkungen des CC abzumildern gilt es Aktivitäten der Städte im Hinblick auf die Bewirtschaftung der städtischen Boden- und Grundwasserressourcen zu ergreifen, so dass die Schwammfunktion des Untergrunds gestärkt und flache Grundwasserleiter stabilisiert werden. Im transnationalen, transdisziplinären Austausch werden innovative Lösungen gemeinsam entwickelt, in Pilotaktionen im lokalen Kontext getestet sowie gemeinsam genutzt. Ein innovativer Rahmen wird entwickelt, der auch städtebauliche Aspekte einbezieht, um der Zurückhaltung der Stadtverwaltungen und Nutzungskonflikten zu begegnen.

Die Integration von "Schwammstadtkonzepten" in die Stadtplanung über die bisherige Praxis hinaus wird durch verschiedene Barrieren behindert. Durch einen kombinierten Ansatz technischer, raumplanerischer und baurechtlicher Kompetenzen werden wir einen strategischen Rahmen, vier Aktionspläne und drei Schlüssellösungen entwickeln, um nachhaltiges Wassermanagement in die Stadtplanung zu integrieren und Umsetzungsbarrieren zu überwinden. Die transnationale Zusammenarbeit ist notwendig, um Beispiele für Schlüsselaspekte zu sammeln, die angegangen werden müssen. Jeder Partner bringt sein regionales und spezifisches technologisches Fachwissen ein, wobei das hohe wissenschaftliche Niveau in NWE genutzt wird. Durch gezielte Schulungen sensibilisieren und qualifizieren wir Mitarbeiter in der Umwelt- und Raumplanung sowie Planer und Berater für ein resilientes Wassermanagement. Die Bereitschaft von Städten Maßnahmen zur Wiederherstellung des Wasserkreislaufs umzusetzen wird gestärkt.

In Dutch language [2000 characters]

Veel (voor)stedelijke en gebieden in NWE hebben te maken met frequente overstromingen, droogtes en gebrek aan zoetwater. De toenemende invloed van klimaatverandering (CC) vergroot deze effecten. De balans tussen natuurlijke en kunstmatige waterlichamen, die decennialang heeft gewerkt, is verstoord geraakt waardoor steden worden geconfronteerd met aanzienlijke uitdagingen voor waterbeheer, incl. waterkwaliteit, -beschikbaarheid en grondwater gerelateerde bodemdaling. Ons doel is om deze effecten van CC tegen te gaan door de bekwaamheid van steden te vergroten voor klimaatrobuust beheer van stedelijke bodem- en grondwaterbronnen, namelijk het versterken van de sponsfunctie van de ondergrond en het herstel van ondiepe grondwaterlichamen door publieke spelers. Met een transnationale, transdisciplinaire uitwisseling worden innovatieve oplossingen gedeeld die gezamenlijk zijn ontwikkeld en getest in lokale pilots. We ontwikkelen een innovatief raamwerk, dat aspecten als stadsplanning bevat en de weerstand van stedelijke managers en tegenstrijdige belangen van stakeholders aanpakt.

De integratie van 'sponsstadconcepten' in de stadsplanning gaat verder dan de huidige praktijk en wordt belemmerd door verschillende barrières. Een gecombineerde aanpak van techniek, ruimtelijke

planning en landgebruik, vertaald in een strategisch raamwerk, 4 actieplannen en 3 sleuteloplossingen, slecht barrières voor de implementatie van duurzaam waterbeheer in de stadsplanning. De transnationale samenwerking is nodig om voorbeelden te verzamelen van de belangrijkste aan te pakken aspecten. Elke partner brengt relevante regionale en specifieke technische expertise in, gebruik makend van het hoge niveau van wetenschappelijke kennis in NWE. Door trainingen gericht op planners en adviseurs op afdelingen als milieu en ruimtelijke ordening, vergroten we bewustzijn en vaardigheden voor klimaatrobuust waterbeheer. Dit leidt tot grotere bereidheid van steden en regio's voor herstel van de watercyclus.

A.3 Project budget overview

| P | Programme fundir | ng | Contribution | | | | | |
|----------------------|-------------------|-----------------------|-------------------------------|---------------------------|---------------------------|----------------------|--------------------|-------------------|
| Funding source | Funding amount | Co-financing rate (%) | Automatic public contribution | Other public contribution | Total public contribution | Private contribution | Total contribution | project budget |
| ERDF | 2.073.803,18 | 60,00 % | 0,00 | 1.382.535,46 | 1.382.535,46 | 0,00 | 1.382.535,46 | 3.456.338,64 |
| Total EU funds | 2.073.803,18 | 60,00 % | 0,00 | 1.382.535,46 | 1.382.535,46 | 0,00 | 1.382.535,46 | 3.456.338,64 |
| Total project budget | 2.073.803,18 | 60,00 % | 0,00 | 1.382.535,46 | 1.382.535,46 | 0,00 | 1.382.535,46 | 3.456.338,64 |

A.4 Project outputs and result overview

| e Output value per sure u ut ta rget sure valu e target valu e li value n e Participatio 515,00 parti O Training of project team and PPs staff 140, Completion of joint training schemes 0 75,00 | | | | | | | | | | |
|--|--------------|----------|-------|-----|--|------|--------------------------------------|---|-------|---------------|
| Indicator value output t p p target value e va | • | | | | Output Title | | Programme result indicator | | | Meas ureme |
| Participation in joint training schemes Signature of the project team and PPs staff training schemes of the put the schemes of the put the project team and PPs staff training schemes of the put the | - | - | | | | | | | | nt unit |
| Participatio ns in joint training schemes Solution training schemes Solution training schemes Solution training schemes Solution training of project team and PPs staff and key stakeholders Solution to | ilidicatoi | _ | | • | | | | | - | iit diiit |
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| training schemes tion s p u t 3 . 1 O Training of international experts and decision making community by final t project conference p u t 3 . | • | • | | | | | , , | | • | pants |
| schemes s p 0 u t 3 . 1 O Training of international experts and 200, u decision making community by final t project conference p u t 3 | | | | | • | | | | | · |
| u t 3 . 1 O Training of international experts and decision making community by final to project conference p u t 3 . | • | | s | р | | | | | | |
| O Training of international experts and 200, u decision making community by final t project conference p u t 3 | | | | 1 ' | | | | | | |
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| O Training of local, regional and national 175, | | | | 0 | Training of local, regional and national | 175, | | | | |
| u expert community by 5 joint trainings in 00 | | | | | | 00 | | | | |

| Programm e Output Indicator | Aggregated value per Programme output indicator | Mea sure men t Unit | O Output Title u t p u t | Outp ut ta rget valu e | Programme result indicator | B a s e li n | Result i ndicato r target value | Meas ureme nt unit |
|-----------------------------------|---|---------------------------------|--|------------------------------------|--|-----------------------------|---|--------------------------|
| | | | t the partner regions p u t 3 | | | | | |
| Jointly developed solutions | 3,00 | solu tion s | O Process Toolbox for activating pilots a stakeholder participation for t Groundwater Recharge and Release Siput t t t t t t t t t t t t t t t t t t | | Solutions taken up or up-scaled by organisations | 0 , 0 0 | 4,00 | soluti ons |
| | | | O Technical toolbox for groundwater u management and designing principles t and devices for Groundwater Recharge p and Release Sites u t | | | | | |

| Programm e Output Indicator | Aggregated value per Programme output indicator | Mea sure men t Unit | O u t p u t | Output Title | Outp ut ta rget valu e | Programme result indicator | B a s e li n e | Result i ndicato r target value | Meas ureme nt unit |
|-----------------------------------|---|---------------------------------|----------------------------|--|------------------------------------|---|----------------------------------|---|---|
| | | | . 2 | | | | | | |
| | | | O u t p u t 2 . 3 | Spatial recommendations and tailored land-use, land policy and ownership strategies for implementation of Groundwater Recharge and Release Sites | 1,00 | | | | |
| | | | | | | Joint strategies and action plans taken up by organisations | 0 , 0 0 | 5,00 | joint s trateg y/acti on plan |
| | | | | | | Organisations with increased institutional capacity due to their participation in cooperation activities across borders | 0 , 0 0 | 25,00 | Organi sation |

B - Project partners

Partners overview

| Number | Status | Name of the organisation in english | Country (click in cell to access drop-down list) | Organisation abbreviation | Partner role | Associated organisations | Partner total eligible budget |
|--------|--------|-------------------------------------|--|---------------------------|-----------------|--------------------------|-------------------------------|
| 1 | Active | State Capital of Stuttgart | Deutschland (DE) | LHS | LP | | 943.880,00 |
| 2 | Active | University of Stuttgart | Deutschland (DE) | USTUTT | PP | | 989.916,45 |
| 3 | Active | TU Dortmund University | Deutschland (DE) | TUDO | PP | | 0,00 |
| 4 | Active | French Geological Survey | France (FR) | BRGM | PP | | 0,00 |
| 5 | Active | Urban community of Lens Lievin | France (FR) | CALL | PP | | 0,00 |
| 6 | Active | City of Brussels | Belgique/België (BE) | VBX | PP | | 1.159.320,34 |
| 7 | Active | Coordination Senne | Belgique/België (BE) | CZ-CS | PP | | 0,00 |
| 8 | Active | Free University of Brussels | Belgique/België (BE) | ULB | PP | | 363.221,85 |
| 9 | Active | Municipality of Zwolle | Nederland (NL) | Zwolle | PP | | 0,00 |
| | | | | | | | |

| Number | Status | Name of the organisation in english | Country (click in cell to access drop-down list) | Organisation abbreviation | Partner role | Associated organisations | Partner total eligible budget |
|--------|--------|---|--|------------------------------|-----------------|--|-------------------------------|
| 10 | Active | Deltares | Nederland (NL) | Deltares | PP | Centre of Expertise (CoE) van Hogeschool Rotterdam (HR) Vereniging Nederlandse Gemeenten (VNG) Rijkswaterstaat | 0,00 |

NWE0400607 - RAINBOW

Version 2.0, 2024-08-23

Interreg North-West Europe 2021-2027

| B.1 Lead partner | |
|--|--|
| Partner number | 1 |
| Partner role | LP |
| Name of the organisation in original language | Landeshauptstadt Stuttgart |
| Name of the organisation in english | State Capital of Stuttgart |
| Organisation abbreviation | LHS |
| Department / unit / division | Amt für Umweltschutz (Department for Environmental Protection) |
| Partner main address | |
| Country (click in cell to access drop-down list) | Deutschland (DE) |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Stuttgart (DE11) |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Stuttgart, Stadtkreis (DE111) |
| Street, House number, Postal code, City | Gaisburgstraße 4 70182 Stuttgart |
| Homepage | www.stuttgart.de |
| Address of department / unit / division (if application) | able) |
| Country (click in cell to access drop-down list) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | |
| Street, House number, Postal code, City | |
| Legal and financial information | |
| Type of partner | Local public authority |
| Partner size | |
| The organisation applies for an advance | NO |
| Legal status | Public |
| Sector of activity at NACE group level | E.36.00 |

| DE147793909 |
|---------------------|
| No |
| |
| |
| 996731746 |
| |
| Mr Peter Pätzold |
| Dr. Kristina Schenk |
| |

kristina.schenk@stuttgart.de

+49 711 216-88717

Motivation

Telephone no.

Email

Which of the organisation's thematic competences and experiences are relevant for the project?

LHS acts as competent authority for water, soil, nature conservation, energy strategy and climate related activities, as well as implementing all related measures for groundwater, soil and climate protection. LHS has the second largest mineral water resource in Europe after Busdapest and therefore has an outstanding interest in recording the effects of climate change on the inner-city water cycle and recognising the effects of infiltration on groundwater quality in order to protect this important mineral water resource for future generations. Departments within the municipality strongly cooperate on urban design development considering redevelopment of brownfield areas and city quartiers. LHS is responsible to improve the city's resilience to CC and has an intent to influence the landowners to apply adapted measures. LHS has wide experience in EU-funded and specifically Interreg projects since 2005, participating as lead partner as well as project partner.

What is the role (contribution and main activities) of your organisation in the project?

LHS is highly motivated to lead the project due to its extensive experience in managing international and EU-funded projects. LHS needs to increase the resilience of urban water management to climate change and expects to gain knowledge, solutions and strategies in co-operation with the international project team that can be applied in the near future. Through the transnational exchange of know-how in this interdisciplinary, cross-sectoral international partnership, solutions for the Rainbow Project will be developed under the different aspects of water management. It is in the highest interest of the LHS to maintain the co-operation beyond the end of the RAINBOW project in order to overcome future challenges together through international co-operation.

Together with USTUTT, the LHS will be responsible for the "Stuttgart Rosenstein" pilot project, which is testing solutions for optimising the infiltration/retention of rainwater on contaminated areas with alternating groundwater recharge. The mobilisation of pollutants will be observed and the effects of irrigation with contaminated water (e.g. treated wastewater) in the soil/groundwater will be

investigated. In addition, the water balance under the influence of climate change will be modelled and a water management strategy will be developed, taking into account multidisciplinary planning processes with regard to responsibilities within the city administration and land availability. The experiences of other partners and project results (e.g. Zwolle, VBX, CALL) provide the LHS with important indicators for sustainable (ground) water management with regard to the development of urban areas. As an LP, the main activities will concern day-to-day management, coordination, reporting, communication and co-operation. Co-operation between the project partners will be a crucial element at all levels during the lifetime of the RAINBOW Project. LHS is therefore involved in all work packages. LHS contributes to WP 1 and is actively involved in WP 2. For WP 3, LHS also assumes the LP function. LHS has many years of experience in the management of EU-funded projects INCORE, 2005-2008, FP5, project partner (PP). MAGIC, 2005-2008, INTERREG III B CADSES, PP. FOKS, 2008-2012, CE, PP. PROSIDE, 2003-2006, INTETRREG III B CADSES, PP. CityChlor, 2009-2013, NWE, PP. COBRAMAN, 2009-2012, CE, PP. MAGPlan, 2010-2015, life+, LP. AMIIGA, 2016-2019, CE, PP.

LHS will also take on the role of project communications manager, with the intention of appointing a communications manager experienced in EU projects. Local, regional, national and international media as well as social media will be provided with project results. The communication manager will involve all partners in the communication.

With a support of USTUTT and an associated partner (Innovation cluster bw-engineers) will contribute to trainings and scaling up and outreach of the project results (Regional Council Stuttgart and State institute for the environment BW)

| Co-financing | | | |
|--|------------------------------|------------|---------------------------|
| Source | | Amount | Percentage |
| ERDF | 56 | 56.328,00 | 60,00 % |
| Partner contribution | 37 | 77.552,00 | 40,00 % |
| Partner total eligible budget | 94 | 13.880,00 | 100,00 % |
| Origin of partner contribution | | | |
| Source of contribution | Legal status of contribution | Amount | % of total partner budget |
| LHS | Public | 277.552,00 | 29,40 % |
| Bundesministerium für Wohnen, Stadtentwicklung und Bauwesen | Public | 100.000,00 | 10,59 % |
| Total | | | |
| Sub-total public contribution | | 377.552,00 | 40,00 % |
| Sub-total automatic public contribution | | 0,00 | 0,00 % |
| Sub-total private contribution | | 0,00 | 0,00 % |
| Total | | 377.552,00 | 40,00 % |

| State Aid | | | | | | |
|--|--|--|--|--|--|--|
| State aid criteria self-check | | | | | | |
| Criterium I: Is the partner involved in economic ac | tivities through the project? | | | | | |
| 1. Will the project applicant implement activities and/or offer goods/services for which a market exists? | No | | | | | |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | No | | | | | |
| Criterium II: Does the partner receive an undue ad | vantage in the framework of the project? | | | | | |
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | No | | | | | |
| 2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)? | No | | | | | |
| Result of State aid criteria self-check: | No risk of state aid | | | | | |
| State aid relevant activities | | | | | | |
| GBER scheme / de minimis | | | | | | |

| B.1 Project Partner 2 | | | | | |
|--|--|--|--|--|--|
| Partner number | 2 | | | | |
| Partner role | PP | | | | |
| Name of the organisation in original language | Universität Stuttgart | | | | |
| Name of the organisation in english | University of Stuttgart | | | | |
| Organisation abbreviation | USTUTT | | | | |
| Department / unit / division | Research Facility for Subsurface Remediation (VEGAS) | | | | |
| Partner main address | | | | | |
| Country (click in cell to access drop-down list) | Deutschland (DE) | | | | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Stuttgart (DE11) | | | | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Stuttgart, Stadtkreis (DE111) | | | | |
| Street, House number, Postal code, City | Pfaffenwaldring 61 70569 Stuttgart | | | | |
| Homepage | https://www.vegas.uni-stuttgart.de/ | | | | |
| Address of department / unit / division (if application) | able) | | | | |
| Country (click in cell to access drop-down list) | | | | | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | | | | | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | | | | | |
| Street, House number, Postal code, City | | | | | |
| Legal and financial information | | | | | |
| Type of partner | Higher education and research organisations | | | | |
| Partner size | | | | | |
| The organisation applies for an advance | NO | | | | |
| Legal status | Public | | | | |
| Sector of activity at NACE group level | | | | | |

| Legal and financial information | | |
|---|---------------|--|
| VAT number (if applicable) | DE 147794196 | |
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | No | |
| Other identifier number | PIC 999974747 | |
| Other identifier description | | |
| PIC (from EC Participant Register) | | |

Contact

| Legal representative | Chancelor Anna Steiger |
|----------------------|-------------------------------------|
| Contact person | PD DrIng. Claus Haslauer |
| Email | claus.haslauer@iws.uni-stuttgart.de |
| Telephone no. | +49 (0) 711 685 - 64716 |

Motivation

Which of the organisation's thematic competences and experiences are relevant for the project?

USTUTT has unique infrastructure and experience to perform controlled experiments for water flow and solute fate transport in the subsurface.

For this project, our long-term experience and research results for pollutant transport in the unsatuarated and groundwater-saturated zones position us uniquely to tackle the relevant challenges for sponge city concepts.

Additionally the influence of precipitation and irrigation can also be simulated. The experiments are supported by sophisticated measurement technology and close-meshed sampling campaigns. Mathematical models will be implemented to better understand the processes involved and to be able to transfer the results to other sites and timeframes. Based on its experience, USTUTT develops in-situ remediation technologies that are applicable at real sites. USTUTT specializes in knowledge transfer between research and practical users to close the gap between new scientific findings and the application of remediation systems in practice

What is the role (contribution and main activities) of your organisation in the project?

USTUTT will perform controlled experiments to understand the behaviour of pollutants in the subsurface especially under groundwater recharge dynamics affected by a combination of climate change (more frequent short-time and intensive precipitation and prolonged periods of no rain) and artificial recharge due to irrigation/sewers. The experiments will be done with artificial soil material as well as with material of the pilot "Stuttgart Rosenstein". This will help to control the boundary conditions like organic material/contaminations and to transfer the results of the experiments to the pilot sites. The following experiments are planned:

Observe the mobilisation of existing source zone by simulating homogeneous or extreme (clean) precipitation as well as extreme dryness.

Investigate the effects of contaminated infiltration water (sourced from sewers and wastewater

treatment plants as typically is the case) in the above scenario

The experiments will be accompanied by close-meshed sampling campaigns. Most of the water and soil samples can be examined in the USTUTT laboratory.

In addition to the experiments, a model will be set up to illustrate the underground processes at the "Rosensteinquartier" pilot site. This includes both the transport of pollutants and the water balance. The results of the experiments are incorporated into the model, in particular an improved understanding of the site in terms of the water balance under climatic changes, the existing pollutant distribution and the influence of contaminated infiltration. The model will help to transfer the test results to the pilot site (and the project partners' sites) and also to find strategies to maintain the same net infiltration as predevelopment that maintains key soil and groundwater functions. This will require additional sources of water coming either from outlets of sewage/wastewater drinking plants or rainwater/sewer pipes with associated typical contaminants (PFAS, pesticides, caffeine). Given these (small but existing) levels of contamination of the infiltrating water, propose strategies that maintain key soil and groundwater functions.

The regional training provider (Training Association for soil and contaminated sites BW) is operated by the USTUTT and shall offer public trainings for project partners, local and regional stakeholders as well as planners and service providers.

In summary we provide contributions on three broad aspects:

- 1. improved process understanding of water quality and water quantity related to infiltration in sponge cities (experiments and models).
- 2. This gained process understanding yields design criteria that USTUTT is transferring on a scale relevant for urban planning ("Quartier"-scale, here: pilot site "Rosensteinquartier")
- 3. USTUTT cooperates with the city of Stuttgart's environmental and urban planning offices to develop guidelines for water quality and quantity related to infiltration in novel urban developments

| Co-financing | | | |
|---|--------|---------------|---------------------------|
| Source | | Amount | Percentage |
| ERDF | | 593.949,87 | 60,00 % |
| Partner contribution | | 395.966,58 | 40,00 % |
| Partner total eligible budget | | 989.916,45 | 100,00 % |
| Origin of partner contribution | | | |
| Source of contribution Legal status of contribution | | oution Amount | % of total partner budget |
| USTUTT | Public | 395.966,58 | 40,00 % |
| Total | | | |
| Sub-total public contribution | | 395.966, | 58 40,00 % |
| Sub-total automatic public contribution | | 0,0 | 0,00 % |

| Total | | |
|--|---|---------|
| Sub-total private contribution | 0,00 | 0,00 % |
| Total | 395.966,58 | 40,00 % |
| State Aid | | |
| State aid criteria self-check | | |
| Criterium I: Is the partner involved in economic ac | ctivities through the project? | |
| 1. Will the project applicant implement activities and/or offer goods/services for which a market exists? | No | |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | No | |
| Criterium II: Does the partner receive an undue ac | Ivantage in the framework of the project? | |
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | No | |
| 2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)? | No | |
| Result of State aid criteria self-check: | No risk of state aid | |
| State aid relevant activities | | |
| GBER scheme / de minimis | | |

| B.1 Project Partner 3 | | |
|--|--|--|
| Partner number | 3 | |
| Partner role | PP | |
| Name of the organisation in original language | Technische Universität Dortmund | |
| Name of the organisation in english | TU Dortmund University | |
| Organisation abbreviation | TUDO | |
| Department / unit / division | Faculty of Spatial Planning; Research Group on Land policy, land management, and municipal surveying | |
| Partner main address | | |
| Country (click in cell to access drop-down list) | Deutschland (DE) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Arnsberg (DEA5) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Dortmund, Kreisfreie Stadt (DEA52) | |
| Street, House number, Postal code, City | August-Schmidtstr. 10 44227 Dortmund | |
| Homepage | https://bbv.raumplanung.tu-dortmund.de/ | |
| Address of department / unit / division (if applicable) | | |
| Country (click in cell to access drop-down list) | | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | | |
| Street, House number, Postal code, City | | |
| Legal and financial information | | |
| Type of partner | Higher education and research organisations | |
| Partner size | | |
| The organisation applies for an advance | NO | |
| Legal status | Public | |
| Sector of activity at NACE group level | | |

| Legal and financial information | | |
|---|-------------|--|
| VAT number (if applicable) | DE811258273 | |
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | No | |
| Other identifier number | | |
| Other identifier description | | |
| PIC (from EC Participant Register) | 999848453 | |
| Contact | | |

| Legal representative | Ms Andrea Bartkowski |
|----------------------|--------------------------------|
| Contact person | Prof. Dr. Thomas Hartmann |
| Email | thomas.hartmann@tu-dortmund.de |
| Telephone no. | +49 231 755 2228 |

Which of the organisation's thematic competences and experiences are relevant for the project?

TUDO has a rich experience on activating land for climate adaptation. By combining academic knowledge on land management, land policy, flood risk management and climate resilience, TUDO provides a novel lens on the implementation of climate adaption on private land, as climate adaption measures need more land and

TUDO is leading the Horizon Europe project "Land4Climate", investigating how to involve and motivate landowners in the implementation of nature-based solutions on private land.

The PI's of TUDO have conducted research for JPI Urban FLOODLABEL, aimed to design, test and implement a smart governance tool. This prototype tool serves to activate civil actors to contribute to flood risk reduction to achieve more flood resilient cities.

TUDO is leading a vast network of public and private stakeholders, due to its leading role in the COST Action and IWRA taskforce researches investigate the role of landowners in flood risk governance.

What is the role (contribution and main activities) of your organisation in the project?

TUDO will contribute its expertise on land policy and climate adaption to WP 1 "Roadmap for sponge cities in NWE" for resilient groundwater management, and collaborating with Deltares to develop the roadmap. Therefore TUDO will identify in each case study the main institutional barriers and facilitators that landowners and municipalities face when implementing the Sponge City Concept. Based on a comprehensive Institutional Resources (IRR) approach (Gerber, 2009) and TUDO's academic basis for a land policy perspective, TUDO will, together with the other partners, identify strategies to activate land for the development and implementation of the Sponge city concept. In addition,

TUDO will perform a cross-scale comparison study in RAINBOW's case studies (as the case studies differ in scale, process, resources available, and actors involved, and institutional settings). To

contribute to the final deliverable of a Sponge City roadmap for municipalities (engineers, planners, decision makers) and landowners, that include lessons learned, guidance, next steps for scaling up the pilot and implementation of the local action plans.

| Co-financing | | | |
|---|--|--|--|
| Source | | Amount | Percentage |
| Partner total eligible budget | | 0,00 | 100,00 % |
| Origin of partner contribution | | | |
| Source of contribution Legal status of contribution | ribution | Amount | % of total partner budge |
| Total | | | |
| Sub-total public contribution | | 0,00 | 0,00 % |
| Sub-total automatic public contribution | | 0,00 | 0,00 % |
| Sub-total private contribution | | 0,00 | 0,00 % |
| Total | | 0,00 | 0,00 % |
| State Aid | | | |
| State aid criteria self-check | | | |
| Criterium I: Is the partner involved in economic ac | tivities t | hrough the project? | |
| 1. Will the project applicant implement activities and/or offer goods/services for which a market exists? | No TUDO will develop recommendations as part of a roadmap for municipal actors. There are no direct commercial implications. | | |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | No The research that forms the fundament of the outcomes needs to be provided by an academic partner. | | |
| Criterium II: Does the partner receive an undue ad | vantage | in the framework of | the project? |
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | No | We will not perform | any economic activities |
| 2. Will the project applicant, any other operator not included in the project as a project partner | No | The research will be without any other o | e carried out by TUDO, perators involved. |
| | | | |

| Criterium II: Does the partner receive an undue ad | vantage in the framework of the project? |
|---|--|
| or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)? | |
| Result of State aid criteria self-check: | No risk of state aid |
| State aid relevant activities | |
| GBER scheme / de minimis | |

| B.1 Project Partner 4 | | |
|--|--|--|
| Partner number | 4 | |
| Partner role | PP | |
| Name of the organisation in original language | Bureau de Recherche Géologique et Minière (BRGM) | |
| Name of the organisation in english | French Geological Survey | |
| Organisation abbreviation | BRGM | |
| Department / unit / division | | |
| Partner main address | | |
| Country (click in cell to access drop-down list) | France (FR) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Centre — Val de Loire (FRB0) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Loiret (FRB06) | |
| Street, House number, Postal code, City | Avenue Claude Guillemin 3 45100 Orléans | |
| Homepage | www.brgm.fr | |
| Address of department / unit / division (if applicable) | | |
| Country (click in cell to access drop-down list) | | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | | |
| Street, House number, Postal code, City | | |
| Legal and financial information | | |
| Type of partner | Higher education and research organisations | |
| Partner size | | |
| The organisation applies for an advance | NO | |
| Legal status | Public | |
| Sector of activity at NACE group level | | |
| VAT number (if applicable) | | |

| Legal and financial information | |
|---|--|
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | |
| Other identifier number | |
| Other identifier description | |
| PIC (from EC Participant Register) | |
| | |

Contact

| Legal representative | Mr Philippe Freyssinet |
|----------------------|------------------------|
| Contact person | Dr. Nicolas Devau |
| Email | n.devau@brgm.fr |
| Telephone no. | +33238643551 |

Motivation

Which of the organisation's thematic competences and experiences are relevant for the project?

As national geological survey, BRGM is the public reference institution in Earth sciences applications for the management of subsurface resources and risks in the context of global sustainable development, notably sustainable management of water resources including solution as Managed Aquifer Recharge. Partner of many public and private actions, its action thanks to synergy between research centre and territorial offices is oriented towards scientific research and support for public policies. Several regional groundwater flow models have been developed by BRGM in the Northern part of France, including the territory of the urban community of Lens-Liévin to improve management of groundwater resources. BRGM has demonstrated is expertise and knowledge in previous several European projects (JPI FRAME, H2020 AQUANES, JPI EVIBAN), characterising efficiency of natured-based solutions or reuse technologies to improve management of groundwater resources.

What is the role (contribution and main activities) of your organisation in the project?

BRGM will be involved to determine the impact of the infrastructures and public policies developed in the urban community of Lens-Liévin (CALL) to improve water cycle in this urban context, notably protection of groundwater resources in terms of both quantity and quality. Actions conducted by the BRGM in close transnational partnership will be devoted to: i) quantify the impacts of the infrastructures deployed by CALL to promote infiltration and decrease runoff, ii) highlight the role of groundwater infiltration in sewer network to reduce the amount of parasitic water preventing an efficient functioning of this infrastructure and iii) develop a methodology highlighting prefeasibility steps prior the implementation of reuse and/or managed aquifer recharge systems as part of the project's decision-support tool. Project outputs will be also used to assess efficiency of the current and future strategies on the territory to improve management of water resources. Training courses will be also held for stakeholders and policy makers to disseminate the methodologies developed in the project at regional scale. Results obtaines on the CALL territory will be analysed for transferability to the other territories of Brussels and Stuttgart and jointly with the other partners develop action plan to apply this methodology to other NWE territores.

| Motivation | | |
|---|--------------------------------|--------------------------|
| Co-financing | | |
| Source | Amount | Percentag |
| Partner total eligible budget | 0,00 | 100,00 9 |
| Origin of partner contribution | | |
| Source of contribution Legal status of cont | ribution Amount | % of total partner budge |
| Total | | |
| Sub-total public contribution | 0,00 | 0,00 |
| Sub-total automatic public contribution | 0,00 | 0,00 |
| Sub-total private contribution | 0,00 | 0,00 |
| Total | 0,00 | 0,00 |
| State Aid | | |
| State aid criteria self-check | | |
| Criterium I: Is the partner involved in economic ac | ctivities through the project? | |
| Will the project applicant implement activities and/or offer goods/services for which a market exists? | | |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | | |
| Criterium II: Does the partner receive an undue ac | lvantage in the framework of | the project? |
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | | |
| 2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from | | |

| Criterium II: Does the partner receive an undue ad | vantage in the framework of the project? |
|--|---|
| the normal course of business (i.e. not received in the absence of funding granted through the project)? | |
| Result of State aid criteria self-check: | To see the result, please answer all the questions above. |
| State aid relevant activities | |
| GBER scheme / de minimis | |

| B.1 Project Partner 5 | |
|--|---|
| Partner number | 5 |
| Partner role | PP |
| Name of the organisation in original language | Communauté d'Agglomération de Lens Liévin |
| Name of the organisation in english | Urban community of Lens Lievin |
| Organisation abbreviation | CALL |
| Department / unit / division | |
| Partner main address | |
| Country (click in cell to access drop-down list) | France (FR) |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Nord-Pas de Calais (FRE1) |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Pas-de-Calais (FRE12) |
| Street, House number, Postal code, City | Rue Marcel Sembat 21 62300 Lens |
| Homepage | https://www.agglo-lenslievin.fr/ |
| Address of department / unit / division (if application) | able) |
| Country (click in cell to access drop-down list) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | |
| Street, House number, Postal code, City | |
| Legal and financial information | |
| Type of partner | Local public authority |
| Partner size | |
| The organisation applies for an advance | NO |
| Legal status | Public |
| Sector of activity at NACE group level | |
| VAT number (if applicable) | |

| Legal and financial information | ar | d finar | jal and | and | nd | fii | na | n | cia | l i | nf | ori | na | ati | OI | n | | | | | | |
|---|-----|---------|----------|-----|------|------|-----|----|-----|-----|-----|-----|----|-----|-----|-----|----|----|--|--|----|--|
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | io | n natio | sed on i | on | on i | na | tic | on | al | le | gi | sla | ti | on | | | | | | | !S | |
| Other identifier number | iei | entifie | ıer iden | ide | den | ntii | fie | er | nu | m | be | r | | | | | | | | | | |
| Other identifier description | iei | entifie | ier iden | ide | den | ntii | fie | er | de | SC | riį | ti | or | ì | | | | | | | | |
| PIC (from EC Participant Register) | P | n EC P | ; (from | ron | om | E | C F | Pa | rt | ci | pa | nt | R | eg | jis | sto | er | .) | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |

Contact

| Legal representative | Mr Sylvain Robert |
|----------------------|----------------------------|
| Contact person | Monsieur Gaétan Boyer |
| Email | gboyer@agglo-lenslievin.fr |
| Telephone no. | 0321790640 |

Motivation

Which of the organisation's thematic competences and experiences are relevant for the project?

The urban community of Lens-Liévin (CALL) has in charge management of small and large water cycles through its Water and Networks Department. CALL is involved in long-term investments and technical operations since several years to increase the functioning efficiency of the infrastructures related to small water cycle, notably sewage network. In parallel, public policies and related infrastructures have been conducted to protect water resources. CALL has therefore a strong background and expertise on water management from local to territory scales allowing to envision a global management of water cycles on its territory. CALL with its operator already pilote management of the pipes by multicriteria approache and its urban water cycle by sewerage hydraulic model.

What is the role (contribution and main activities) of your organisation in the project?

CALL will assess urban impact on various infrastructures already implemented or which could be implemented on its territory to manage water cycle including: infiltration plots, separate sewage system to disconnect collect and drainage of rainwater, use of innovative operational plants to treat rainwater prior infiltration. Information and knowledge have been acquired by CALL at different spatial (from neighborhood to watershed) and temporal scales (from day to decade). The expertise of CALL contributes transnationally with other partners to identify similarities and differences in management of water cycles between the other cities involved in the project, (Brussels , Zwolle and Stuttgart) facing similar issues. By collaborating with BRGM, CALL will train and share data and knowledge groundwater scientific partners on the main issues and functioning of sewage network system, especially to those who will be involved with BRGM in assessing interactions between the 2 water cycles (natural and artificial) and in following effects in the infrastructures already implemented. New management options will be also investigated developing a tailored strategy optimizing management of water cycle as key input to the decision-support tool.

| | а - | |
|--|------------------------------|--------------------------|
| Source | Amount | Percentag |
| Partner total eligible budget | 0,00 | 100,00 9 |
| Origin of partner contribution | | |
| Source of contribution Legal status of contri | bution Amount | % of total partner budge |
| Total | | |
| Sub-total public contribution | 0,00 | 0,00 |
| Sub-total automatic public contribution | 0,00 | 0,00 |
| Sub-total private contribution | 0,00 | 0,00 |
| Total | 0,00 | 0,00 |
| State Aid | | |
| State aid criteria self-check | | |
| Criterium I: Is the partner involved in economic acti | ivities through the project? | |
| Will the project applicant implement activities and/or offer goods/services for which a market exists? | | |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | | |
| Criterium II: Does the partner receive an undue adv | antage in the framework of | the project? |
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | | |
| 2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)? | | |
| | | |

| | above. |
|-------------------------------|--------|
| State aid relevant activities | |
| GBER scheme / de minimis | |

| B.1 Project Partner 6 | |
|--|--|
| Partner number | 6 |
| Partner role | PP |
| Name of the organisation in original language | Ville de Bruxelles |
| Name of the organisation in english | City of Brussels |
| Organisation abbreviation | VBX |
| Department / unit / division | Développement urbain • Direction Planification stratégique et opérationnelle • Service Climat et Ville en Transition |
| Partner main address | |
| Country (click in cell to access drop-down list) | Belgique/België (BE) |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest (BE10) |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad (BE100) |
| Street, House number, Postal code, City | Rue des Halles 4 1000 Brussel |
| Homepage | https://www.bruxelles.be/ |
| Address of department / unit / division (if application) | able) |
| Country (click in cell to access drop-down list) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | |
| Street, House number, Postal code, City | |
| Legal and financial information | |
| Type of partner | Local public authority |
| Partner size | |
| The organisation applies for an advance | NO |
| Legal status | Public |
| Sector of activity at NACE group level | |

| Legal and financial information | | | | | | | | |
|---|--|--|--|--|--|--|--|--|
| VAT number (if applicable) | RPM 862.382.755 | | | | | | | |
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | No | | | | | | | |
| Other identifier number | National number of enterprise BE0207.373.429 | | | | | | | |
| Other identifier description | | | | | | | | |
| PIC (from EC Participant Register) | 950386407 | | | | | | | |
| Contact | | | | | | | | |
| Legal representative | Secrétaire Communal Dirk Léonard | | | | | | | |
| Contact person | Mr Cédric Simons | | | | | | | |
| Email | cedric.simons@brucity.be | | | | | | | |

Telephone no.

Which of the organisation's thematic competences and experiences are relevant for the project?

0032456265092

VBX is dedicated to enhancing the quality of life for its citizens by tackling climate-related challenges such as droughts, floods, and urban heat islands. VBX is competent to adapt public spaces and properties, implementing various water management solutions, promoting groundwater recharge and water release to support a healthy water cycle. These efforts increase the city's resilience to drought, enhance biodiversity, reduce flooding, and provide equitable access to water and recreational spaces. VBX designs and executes urban renovation projects in public areas and properties, and offers services to raise awareness among private actors and residents. VBX has completed many hydrological studies, urban designs, planning processes, and awareness programs, fostering community participation in the water cycle of both urban and peri-urban neighbourhoods. As a key player in multi-stakeholder projects, VBX bridges the gap between private and public, regional and local, built and green spaces

What is the role (contribution and main activities) of your organisation in the project?

VBX will carry out interventions in public spaces and on its public patrimony to address groundwater recharge and release in the groundwater bodies in the neighborhoods of Laeken and Neder-Over-Heembeek. The pilot project will assess groundwater quantity fluxes develop infiltration solutions on the recharge side and solutions for revitalizing surface waters on the release side of the groundwater bodies, such as creating space for water and urban rivers. These interventions aim to strengthen groundwater bodies, to prevent the drying of natural lakes, to protect natural sources and wetland areas around the three parcs of Laeken and the area of Neder-Over-Heembeek. The effectiveness of these solutions will be evaluated by VBX. The pilot project will adapt solutions to various urban landscapes—urban, peri-urban, and green/natural spaces—addressing challenges like land use conflicts, ownership issues, and stability requirements. The goal is to implement rainwater and groundwater solutions suitable for different surface conditions while ensuring equal access to water, particularly in historically disadvantaged and marginalized neighborhoods that are more dens and thus more affected by urban

heat island effects. The pilot project will seek to maximize synergies by integrating locally and closing the water loop by returning infiltrated water to the surface. By capitalizing on natural and green spaces (like parcs and wetlands), and on the ownership of public properties (like sport facilities, schools, public housing, community services like libraries, swimming pools and recreational areas), the pilot project will also consider the needs of local ommunities, creating social hubs to voice their opinions throughout the process (using temporary installation), as well as a space for gathering for the years to come. VBX will provide an institutional framework for collaboration with Brussels partners and civil organizations to support citizen participation in this pilot project. This framework will establish a participatory process for co-creation, making these projects pioneering in involving citizens in the design process of public spaces and public patrimony, ensuring that democratic processes and design parameters are respected. Within the participatory dimension, the pilot will in parallel explore possibilities for citizen-led maintenance and community building.

| Co-financing | | | | | | | |
|--|------------------------|--|---|--|--|--|--|
| Source | | Amo | unt Percentage | | | | |
| ERDF | | 695.592 | 2,20 60,00 % | | | | |
| Partner contribution | | 463.728 | 3,14 40,00 % | | | | |
| Partner total eligible budg | et | 1.159.320 |),34 100,00 % | | | | |
| Origin of partner contribu | tion | | | | | | |
| Source of contribution | Legal status of contri | bution Amount | % of total partner budget | | | | |
| VBX | Public | 463.728,14 | 40,00 % | | | | |
| Total | | | | | | | |
| Sub-total public contribut | tion | 463.72 | 28,14 40,00 % | | | | |
| Sub-total automatic publi | c contribution | | 0,00 0,00 % | | | | |
| Sub-total private contribu | ıtion | | 0,00 0,00 % | | | | |
| Total | | 463.72 | 28,14 40,00 % | | | | |
| State Aid | | | | | | | |
| State aid criteria self-che | ck | | | | | | |
| Criterium I: Is the partner involved in economic activities through the project? | | | | | | | |
| 1. Will the project applica activities and/or offer goowhich a market exists? | - | for its public space public patrimony. | es has in-house designers ce and architects for its . Some projects are e are handled by our own | | | | |

| State aid criteria self-check | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|--|
| Criterium I: Is the partner involved in economic activities through the project? | | | | | | | | | |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | Yes see above | | | | | | | | |
| Criterium II: Does the partner receive an undue ad | vantage in the framework of the project? | | | | | | | | |
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | No The city wil majorly execute the entire development projects within its own expertise. Some parts might be outsourced. This is not known yet. | | | | | | | | |
| 2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)? | No The grant allows the city of Brussels to hire personnel that can occupy themselves with the project. However, this is apart from the question if the project could be outsourced. If the grant will not be received, the project could not be coordinator disregarding outsourcing or in-house execution | | | | | | | | |
| Result of State aid criteria self-check: | No risk of state aid | | | | | | | | |
| State aid relevant activities | | | | | | | | | |
| GBER scheme / de minimis | | | | | | | | | |

| B.1 Project Partner 7 | |
|--|--|
| Partner number | 7 |
| Partner role | PP |
| Name of the organisation in original language | Coördinatie Zenne-Coordination Senne |
| Name of the organisation in english | Coordination Senne |
| Organisation abbreviation | CZ-CS |
| Department / unit / division | |
| Partner main address | |
| Country (click in cell to access drop-down list) | Belgique/België (BE) |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest (BE10) |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad (BE100) |
| Street, House number, Postal code, City | Akenkaai 2bis 1000 Brussel |
| Homepage | https://www.coordinationsenne.be/fr/index.php |
| Address of department / unit / division (if application) | able) |
| Country (click in cell to access drop-down list) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | |
| Street, House number, Postal code, City | |
| Legal and financial information | |
| Type of partner | Interest groups including NGOs |
| Partner size | |
| The organisation applies for an advance | NO |
| Legal status | Public |
| Sector of activity at NACE group level | |
| VAT number (if applicable) | |

| Legal and financial information | | |
|---|-----------------------------|--|
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | | |
| Other identifier number | | |
| Other identifier description | | |
| PIC (from EC Participant Register) | | |
| Contact | | |
| Legal representative | Mevr. Dolores Baita | |
| Contact person | Dhr. Jan Lippens | |
| Email | lippens@coordinatiezenne.be | |

Telephone no.

Which of the organisation's thematic competences and experiences are relevant for the project?

CS-CZ strives for integrated and durable water management in the entire basin of the Senne river, from Wallonia to Brussels and Flanders. CZ-CS is a network organization that focuses on informational and educational activities, gathering and disseminating local knowledge of water. We have organized activities and conferences on integrated rainwater management in Brussels and have inventoried more than 200 water sources in the Brussels Region, closely working with citizens and communities to collect stories and testimonials and organize water-related events.

00322061207

What is the role (contribution and main activities) of your organisation in the project?

CZ-CS will address the revalorization of water sources as groundwater release points (ecological hotspots, urban rivers, etc.) near the VBX and ULB intervention areas. The pilot engages citizens who live near the sources in the reintegration of (ground)water in the urban landscape. The focus lies on education and co-creation, as well as reconnecting communities in recharge and release areas of the city. We will provide methods, tools and best practise examples in joint efforts with the project partners aggregated in a tool-box for community participation processes and awareness rising on groundwater related issues.

| Co-financing | | |
|-------------------------------|--------|------------|
| Source | Amount | Percentage |
| Partner total eligible budget | 0,00 | 100,00 % |

| Source of contribution | Legal status of contribut | ion Amount | % of total partner budge |
|---|---|---------------------------------|--------------------------|
| Total | | | |
| Sub-total public contribut | ion | 0,00 | 0,00 9 |
| Sub-total automatic publi | c contribution | 0,00 | 0,00 |
| Sub-total private contribu | ition | 0,00 | 0,00 |
| Total | | 0,00 | 0,00 |
| State Aid | | | |
| State aid criteria self-che | ck | | |
| Criterium I: Is the partner i | nvolved in economic activit | ies through the project | ? |
| 1. Will the project applica activities and/or offer goo which a market exists? | - | | |
| 2. Are there activities/goo could have been undertak with the view to making p not the applicant's intenti | ten by an operator rofit (even if this is | | |
| Criterium II: Does the part | ner receive an undue advant | tage in the framework of | of the project? |
| 1. Does the project applic the economic activities of select an external service procurement procedures | n its own i.e. not to provider via public | | |
| 2. Will the project applica not included in the project or the target audience gai its project economic active the normal course of busi received in the absence of through the project)? | t as a project partner in any benefits from vities, not received in iness (i.e. not | | |
| Result of State aid criteria | | see the result, please love. | answer all the questions |
| State aid relevant activitie | es | | |
| GBER scheme / de minim | is | | |

| B.1 Project Partner 8 | | |
|--|--|--|
| Partner number | 8 | |
| Partner role | PP | |
| Name of the organisation in original language | Université Libre de Bruxelles | |
| Name of the organisation in english | Free University of Brussels | |
| Organisation abbreviation | ULB | |
| Department / unit / division | Faculté d'Architecture La-Cambre Horta | |
| Partner main address | | |
| Country (click in cell to access drop-down list) | Belgique/België (BE) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest (BE10) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad (BE100) | |
| Street, House number, Postal code, City | Avenue Franklin Roosevelt 50 1050 Ixelles | |
| Homepage | https://archi.ulb.be | |
| Address of department / unit / division (if application) | ıble) | |
| Country (click in cell to access drop-down list) | | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | | |
| Street, House number, Postal code, City | | |
| Legal and financial information | | |
| Type of partner | Higher education and research organisations | |
| Partner size | | |
| The organisation applies for an advance | NO | |
| Legal status | Public | |
| Sector of activity at NACE group level | | |
| VAT number (if applicable) | BE 0407626464 | |

| Legal and financial information | | |
|---|-------------------------|--|
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | | |
| Other identifier number | | |
| Other identifier description | | |
| PIC (from EC Participant Register) | 999986290 | |
| Contact | | |
| Legal representative | Mr Daniele Carati | |
| Contact person | Professor Luisa Moretto | |
| Email | luisa.moretto@ulb.be | |
| Telephone no. | +32495433610 | |

Which of the organisation's thematic competences and experiences are relevant for the project?

The faculty of architecture of the ULB investigates design in its multiple forms and through scales: from building detailing to regional planning. The ULB team has experience in urban design and planning, with a specific focus on water and landscape design. Its main focus is on urban transformations and water dynamics as well as on local and regional planning, and participatory design. This latter is deeply explored through co-design processed and active construction sites to implement NbS solutions in urban areas involving citizens, associations, and public institutions.

What is the role (contribution and main activities) of your organisation in the project?

ULB explores design solutions for urban and peri-urban land use transformation, focusing on groundwater recharge and release. Design solutions range from small-scale punctual interventions (e.g. infiltration gardens, desealing operations) to large-scale implementations (e.g. parks, infiltration roads). Specific attention will be placed on public and private stakeholders involved in design and construction phases to overcome implementation blockages. Punctual interventions in public spaces will be tested through collective construction sites by involving inhabitants and local associations. ULB will jointly with CZ-CS steer the transnational work on the tool-box for community participation and ist design activities contribute to the decision-support tool as well as the local pilot projects and action plan of the transnational partners.

| Co-financing | | |
|----------------------|------------|------------|
| Source | Amount | Percentage |
| ERDF | 217.933,11 | 60,00 % |
| Partner contribution | 145.288,74 | 40,00 % |

| Co-financing | | |
|--|---------------------------------|---------------------------|
| Source | Amou | nt Percentage |
| Partner total eligible budget | 363.221,8 | 100,00 % |
| Origin of partner contribution | | |
| Source of contribution Legal status of con | tribution Amount | % of total partner budget |
| ULB Public | 145.288,74 | 40,00 % |
| Total | | |
| Sub-total public contribution | 145.288 | 8,74 40,00 % |
| Sub-total automatic public contribution | (| 0,00 0,00 % |
| Sub-total private contribution | | 0,00 0,00 % |
| Total | 145.288 | 8,74 40,00 % |
| State Aid | | |
| State aid criteria self-check | | |
| Criterium I: Is the partner involved in economic | activities through the project? | |
| Will the project applicant implement activities and/or offer goods/services for which a market exists? | No | |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | No | |
| Criterium II: Does the partner receive an undue | advantage in the framework o | f the project? |
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | No | |
| 2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)? | | |
| | | |

| State aid relevant activities | |
|-------------------------------|--|
| GBER scheme / de minimis | |

| B.1 Project Partner 9 | | |
|--|----------------------------------|--|
| Partner number | 9 | |
| Partner role | PP | |
| Name of the organisation in original language | Gemeente Zwolle | |
| Name of the organisation in english | Municipality of Zwolle | |
| Organisation abbreviation | Zwolle | |
| Department / unit / division | Spatial and economic development | |
| Partner main address | | |
| Country (click in cell to access drop-down list) | Nederland (NL) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Overijssel (NL21) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Noord-Overijssel (NL211) | |
| Street, House number, Postal code, City | Lübeckplein 2 8017 JZ Zwolle | |
| Homepage | https://www.zwolle.nl/ | |
| Address of department / unit / division (if application) | ıble) | |
| Country (click in cell to access drop-down list) | | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | | |
| Street, House number, Postal code, City | | |
| Legal and financial information | | |
| Type of partner | Local public authority | |
| Partner size | | |
| The organisation applies for an advance | NO | |
| Legal status | Public | |
| Sector of activity at NACE group level | | |
| VAT number (if applicable) | NL 001900248B01 | |

| Legal and financial information | | |
|---|-------------------------------|--|
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | No | |
| Other identifier number | | |
| Other identifier description | | |
| PIC (from EC Participant Register) | 929709208 | |
| Contact | | |
| Legal representative | Mayor Peter Snijders | |
| Contact person | Ms Renate Postma | |
| Email | r.postma-van.de.pol@zwolle.nl | |
| Telephone no. | +31 620091613 | |

Which of the organisation's thematic competences and experiences are relevant for the project?

Zwolle acts as a local authority and is a city situated in the deepest part of the IJssel-Vecht delta. We are very vulnerable to climate change. Climate adaptation is one of our four priority themes. At city scale Zwolle is responsible for urban planning and (ground)water management. To become a climate resilient delta, regional governments and other municipalities collaborate in the RIVUS network. Zwolle is also partner in the LIFE IP project NASCCELERATE (climate adaptation), which has a national wide network. Regional governments (province and water authority) and local governments, entrepreneurs, educational- and research institutes and citizens collaborate in the Climate Campus network. The Climate Campus network has a joint knowledge agenda, which is also linked to the knowledge agenda of LIFE IP NASCCELERATE. Zwolle is strongly motivated to participate in this project for one of the challenges addressed in the knowledge agenda is the availability of fresh water in (near) future.

What is the role (contribution and main activities) of your organisation in the project?

Together with Deltares and in cooperation with all PP, Zwolle will develop a strategy for a water circular city, focusing on groundwater aspects. The first step is establishing a water-balance at city level and developing principles for a water circular city. In the water circular city the subsurface is used as a sponge: storing capacity in the wet seasons and a water source for the dry seasons. This city level framework will be elaborated for the Zwolle North district. Due to the structure of the subsurface (a topped layer of well-permeable sand) in Zwolle North, infiltration causes water nuisance. An innovative solution is needed: the Water Machine. At its core, the Water Machine is, on the largest scale a circulation system that balances rainwater, surface water and groundwater by controlling, infiltrating and extracting water. The Wijde Aa (a large pond) should connect the above- and below-ground water systems. The elaboration includes technical aspects, design principles, governance and integration of relevant issues like energy / warmth transition. It also includes a fieldtest. The outcomes of the pilot are translated into a strategy for the water circular city. This strategy will then be input for the update of the Zwolle Adaptation Strategy (the update of the Zwolle Adaptation Strategy is not included in the RAINBOW project). Doing so, Zwolle takes the transnational lead in the work on the general strategy

document. The work will be done in close cooperation with PP, particularly LHS and USTUTT. Findings within the other pilot projects will be input for the final strategy for Zwolle. Results will be disseminated through a Roadmap for building Water-Cycle Neighborhoods. With lessons learned, next steps for scaling up the pilot and implementation. The findings of the RAINBOW-pilot for a Water-Cycle Stadshagen are disseminated and made accessible as part of a Digital Delta Twin, which is currently under development. Within this project Zwolle is the linking pin to our collaboration networks RIVUS, Climate Campus and LIFE IP NASCCELLERATE. Partners in these networks are e.g. governments (local, regional and national), research and educational institutes (e.g. University of Applied Sciences Windesheim, Deltares), entrepreneurs (e.g. Toekomststerk,WAVIN) and neighborhood communities (e.g. "We Company Dieze" and "50 shades of Green Assendorp"). Network partners will be involved in the development of the strategy, pilot solutions and action plan. Results, lessons learnt will be disseminated and a training will be provided.

| Co-financing | | | |
|---|-------------|-----------------------------------|-----------------------------|
| Source | | Amount | Percentage |
| Partner total eligible budget | | 0,00 | 100,00 % |
| Origin of partner contribution | | | |
| Source of contribution Legal status of contri | ribution | Amount | % of total partner budget |
| Total | | | |
| Sub-total public contribution | | 0,00 | 0,00 % |
| Sub-total automatic public contribution | | 0,00 | 0,00 % |
| Sub-total private contribution | | 0,00 | 0,00 % |
| Total | | 0,00 | 0,00 % |
| State Aid | | | |
| State aid criteria self-check | | | |
| Criterium I: Is the partner involved in economic ac | tivities th | rough the project? | |
| 1. Will the project applicant implement activities and/or offer goods/services for which a market exists? | | we are executing ou adaptation | ır public tasks for climate |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | | we are executing ou adaptation | ır public tasks for climate |

| Criterium II: Does the partner receive an undue advantage in the framework of the project? | | |
|--|--|--|
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | No we apply procurement rules for all external service | |
| 2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)? | No we apply procurement rules external services | |
| Result of State aid criteria self-check: | No risk of state aid | |
| State aid relevant activities | | |
| GBER scheme / de minimis | | |

| B.1 Project Partner 10 | |
|--|---|
| Partner number | 10 |
| Partner role | PP |
| Name of the organisation in original language | Stichting Deltares |
| Name of the organisation in english | Deltares |
| Organisation abbreviation | Deltares |
| Department / unit / division | Subsurface and Groundwater Systems |
| Partner main address | |
| Country (click in cell to access drop-down list) | Nederland (NL) |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | Zuid-Holland (NL33) |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | Delft en Westland (NL333) |
| Street, House number, Postal code, City | Boussinesqweg 1 2629 HV Delft |
| Homepage | https://www.deltares.nl/ |
| Address of department / unit / division (if applicable) | |
| Country (click in cell to access drop-down list) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | |
| NUTS 3 (click in cell to access drop-down list once the NUTS 2 is selected) | |
| Street, House number, Postal code, City | |
| Legal and financial information | |
| Type of partner | Higher education and research organisations |
| Partner size | |
| The organisation applies for an advance | NO |
| Legal status | Public |
| Sector of activity at NACE group level | |
| VAT number (if applicable) | NL800097476B01 |

| Legal and financial information | | | |
|---|--------------------------|--|--|
| Is your organisation entitled to recover VAT based on national legislation for the activities implemented in the project? | | | |
| Other identifier number | | | |
| Other identifier description | | | |
| PIC (from EC Participant Register) | 999520302 | | |
| Contact | | | |
| Legal representative | Dr. Ir. Dirk-Jan Walstra | | |
| Contact person | Ir. Nanco Dolman | | |
| Email | Nanco.Dolman@deltares.nl | | |
| Telephone no. | +316 52351893 | | |

Which of the organisation's thematic competences and experiences are relevant for the project?

Deltares is a leading (not-for-profit) and internationally operating specialist consultancy and applied research institute in the field of water and subsurface. One of our mission areas is Sustainable Deltas, in which we develop action perspectives to ensure that ecosystems and natural resources will continue to be available for future generations in the urbanized deltas. Water and the subsurface, for example, play a guiding role in the missions for the regional water resources availability and sustainable use of freshwater in regions and cities. The city of Zwolle and its region in the IJssel-Vecht Delta is seizing the opportunity to plan for a water-cycle "sponge" city, for achieving self-sufficiency in availability of freshwater in the (near) future.

What is the role (contribution and main activities) of your organisation in the project?

The role of Deltares in RAINBOW is twofold:

Firstly, Deltares will lead WP1 "Roadmap for Sponge Cities in NWE" together with TU Dortmund. And in cooperate with all Project Partners (PP).

Secondly, Deltares will be actively involved in the Zwolle pilot study "Water Circular Zwolle North". Working together with Zwolle and in collaboration with associate partners from regional networks RIVUS and Climate Campus,

Ad 1) Deltares will steer the transnational cooperation to develop a roadmap for Sponge Cities in Northwest Europe. Together with TU Dortmund this means applied research into: (i) preliminary roadmap design, (ii) pathways: city pilots/ use cases, (iii) intersections: decision support, (iv) action perspectives, (v) reflection/ testing/ reporting of roadmap. The final deliverable is a Sponge City roadmap for municipalities (engineers, planners, decision makers) and home-/ landowners, which include lessons learned, guidance, next steps for scaling up the pilot and implementation of the local action plans.

Ad 2) In the Zwolle pilot study Deltares will support the transnational cooperation to develop comprehensive planning processes / a holistic view on groundwater, like a long-term Water Security Strategy (city scale) and test rainwater collection, infiltration and groundwater recharge solutions in a

Water-Cycle Zwolle North (neighborhood scale). Activities include developing a (i) Water Circular Zwolle Framework Plan (city level), (ii) designing Water Circular North Zwolle (district level), (iii) executing a field test (neighborhood level), and (iv) developing a Water Circular City Strategy (city level). Within this project Deltares is the linking pin to other "Sponge City" related initiatives in Europe, like:

NBRACER - Nature Based Solutions for Atlantic Regional Climate Resilience (https://nbracer.eu/); SpongeScapes – Evidence and Solutions for improving SPONGE Functioning at LandSCAPE Scale in European Catchments for increased Resilience of Communities against Hydrometeorological Extreme Events (https://cordis.europa.eu/project/id/101112738);

the China Europe Cooperation on Sponge Cities (CECoSC): https://cewp.eu/;

DroBE: Droughts in the Built Environment (NWO, the Netherlands), which includes the 'Thirsty Cities' proposal: https://www.nwo.nl/en/calls/nwa-drought-in-the-built-environment;

European Urban Agenda, which includes Water as a theme (sponge city/water sensitive city/water scarcity and floods): https://www.urbanagenda.urban-initiative.eu/partnerships/greening-cities.

| Co-financing | | | |
|---|----------------|-------------------|---------------------------|
| Source | | Amount | Percentage |
| Partner total eligible budget | | 0,00 | 100,00 % |
| Origin of partner contribution | | | |
| Source of contribution Legal status of con | tribution | Amount | % of total partner budget |
| Total | | | |
| Sub-total public contribution | | 0,00 | 0,00 % |
| Sub-total automatic public contribution | | 0,00 | 0,00 % |
| Sub-total private contribution | | 0,00 | 0,00 % |
| Total | | 0,00 | 0,00 % |
| State Aid | | | |
| State aid criteria self-check | | | |
| Criterium I: Is the partner involved in economic a | ctivities thro | ough the project? | |
| 1. Will the project applicant implement activities and/or offer goods/services for which a market exists? | | | |
| 2. Are there activities/goods/services that could have been undertaken by an operator with the view to making profit (even if this is not the applicant's intention)? | | | |

| Criterium II: Does the partner receive an undue advantage in the framework of the project? | | |
|--|---|--|
| 1. Does the project applicant plan to carry out the economic activities on its own i.e. not to select an external service provider via public procurement procedures for example? | | |
| 2. Will the project applicant, any other operator not included in the project as a project partner or the target audience gain any benefits from its project economic activities, not received in the normal course of business (i.e. not received in the absence of funding granted through the project)? | | |
| Result of State aid criteria self-check: | To see the result, please answer all the questions above. | |
| State aid relevant activities | | |
| GBER scheme / de minimis | | |

Associated organisations

| Number | Status | Name of the organisation in original language | Name of the responsible project partner |
|--------|--------|--|---|
| 1 | Active | Centre of Expertise (CoE) van Hogeschool Rotterdam (HR) | Deltares |
| 2 | Active | Vereniging Nederlandse Gemeenten (VNG) | Deltares |
| 3 | Active | Rijkswaterstaat | Deltares |

| Centre of Expertise (CoE) van Hogeschool Rotterdam (HR) AO1 | | |
|--|---|--|
| Partner number | PP10 | |
| Name of the organisation in original language | Centre of Expertise (CoE) van Hogeschool Rotterdam (HR) | |
| Name of the organisation in english | Centre of Expertise HRTech, Rotterdam University of Applied Sciences, the Netherlands | |
| Country (click in cell to access drop-down list) | Nederland (NL) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | | |
| NUTS 3 | | |
| Street, House number, Postal code, City | | |
| Legal representative | | |
| Contact person | Professor Ph.D. M.Sc Ted Veldkamp | |
| Email | | |
| Telephone no. | | |
| Partner role | synergy with DroBE Thirsty Cities (NWO) | |

| Vereniging Nederlandse Gemeenten (VNG) AO2 | | |
|--|---|--|
| Partner number | PP10 | |
| Name of the organisation in original language | Vereniging Nederlandse Gemeenten (VNG) | |
| Name of the organisation in english | Association of Netherlands Municipalities | |
| Country (click in cell to access drop-down list) | Nederland (NL) | |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | | |
| NUTS 3 | | |
| Street, House number, Postal code, City | | |
| Legal representative | | |
| Contact person | Jonas Onland | |
| Email | | |
| Telephone no. | | |
| Partner role | Programm leader Digitalization and Europe | |

| Rijkswaterstaat AO3 | |
|--|--|
| Partner number | PP10 |
| Name of the organisation in original language | Rijkswaterstaat |
| Name of the organisation in english | Ministry of Infrastructure and Water Management, the Netherlands |
| Country (click in cell to access drop-down list) | Nederland (NL) |
| NUTS 2 (click in cell to access drop-down list once the Country is selected) | |
| NUTS 3 | |
| Street, House number, Postal code, City | |
| Legal representative | |
| Contact person | Chantal Oudkerk-Pool |
| Email | |
| Telephone no. | |
| Partner role | National Adaptation Strategy (NAS) in which "City as a Sponge" is one the ambitions. |

C - Project description

C.1 Project overall objective

Below, you can see the Programme priority specific objective your project will contribute to (chosen in section A.1.).

2.4: Promoting climate change adaptation and disaster risk prevention and resilience, taking into account ecosystem-based approaches

Project overall objective

Now think about your main objective – what do you aim to achieve by the end of your project? Remember your project needs to contribute to the programme's objective. Your objective should:

- be realistic and achievable by the end of the project, or shortly after;
- specify who needs project results and in which territory;
- be measurable indicate the change you are aiming for.

Enhance capacity of cities for climate change resilience in the aspect of urban soil and groundwater resources management; enable public players to strengthen the sponge function of the subsoil and restore groundwater aquifers by closing the urban water loop and any related measures into their urban and spatial planning activities in Germany, The Netherlands, Belgium and France.

C.1.a Project specific objectives

In Step 1: List your foreseen project specific objectives (up to three)

In Step 2: List your project specific objectives (up to three)

Roadmap for Sponge Cities in NWE: developing a joint strategy and a unified framework for action planning for deploying sustainable dynamic groundwater resource management

Piloting in different context, settings and scales risk-informed land use planning & design strategies; technical measures as effective tools to enable public players to restore groundwater resources by strengthening and rebalancing sustainable groundwater recharge and release, thus strengthening the sponge function of the subsoil

From science to practice: capacity building and trainings in regions, cities and related service providing community (e.g. urban planners, civil engineers, decision makers/policy makers)

C.2 Project relevance and context

C.2.1 What are the common territorial challenge(s) that will be tackled by the project?

Please describe the territorial challenges and opportunities your project addresses in the NWE area. Why is transnational cooperation needed to address these challenges and opportunities?

Many urban and peri-urban areas and regions in NWE face CC through water-related disaster risks and water resources management issues, particularly in densely populated areas. The increased frequency of extreme dry and wet periods due to CC necessitates sustainable water consumption and management. All participating areas are located in high-risk urban/peri-urban areas prone to flooding. These contexts face significant water management challenges, including water quality, availability, and groundwater-related land subsidence.

Water management strategies to enhance CC resilience must comply with the Water Framework Directive, balancing groundwater abstraction and recharge. Prolonged droughts reduce renewable freshwater resources, while heavy rain necessitates effective water retention. In both cases, subsoil and groundwater bodies play a central and potential role. Mitigation and adaptation must address (ground)water body chemical status, particularly in urban areas which are hotspot sources of pollution.

With the Sponge City concept cities get designed so that rainwater is kept and absorbed where it falls, reducing storm water risks and stabilizing groundwater resources for sustainable use. Its implementation of solution requires available space, but urban reluctance to change habits and conflicts with other land uses necessitate close cooperation among urban managers, spatial planners, water managers, and civil society actors enhancing collaboration between public and private landowners. Transnational cooperation is essential to address relevant challenges with varying key aspects across regions. Such main and joint challenges are

- Comprehensive planning processes/holistic view on groundwater
- Historic pollution
- Adapting and upgrading infrastructure
- Participation processes
- Access to land.

Pooling resources enables a comprehensive understanding, joint learning and development of solutions, striving to overcome spatial planning and land policy barriers.

C.2.2.a How does the project tackle identified common challenges and/or opportunities

Please describe if your project activities will develop and test new approaches; and/or if they will adapt and implement existing approaches for further uptake.

Challenges related to CC and sustainable groundwater management are diverse, ranging from water quality, water quantity, water availability and land subsidence. The Sponge City concept can address them all and provides relevant solutions (BGI, NBS). However, barriers for implementation need to be overcome. Such barriers are related to e.g. fragmented planning processes, a lack of understanding among participation disciplines due to the transdisciplinary perspective required, little experience with complex processes in the subsoil among the cities staff and how to reach consensus with private landowners.

To streamline and accelerate the implementation process of Sponge City solutions for urban and periurban areas, this project jointly develops a general strategy and roadmap for municipalities that helps in their decision-making process on groundwater resource technologies and implementation strategies.

A better understanding of risk-informed land use planning and strategies, in which physical, technical and non-technical barriers are categorised and defined, will enable us to deploy most effective and sustainable recharge or release strategies and measures to strengthen and restore groundwater aquifers for transition towards the Sponge City. Based on the pilot studies we will develop and identify a set of tailored key indicators to assess the technology, the concerned actors, and implementation strategies of the roadmap as a planning and decision tool.

However, its application needs guidance to run through the decision tree to tailor technology and implementation strategies in specific cases. Therefore, the project will develop and provide capacity building schemes, trainings for others and relates stakeholders involved.

C.2.2.b What is new about the approach the project takes?

Please describe how your approach is different from the current situation or existing practice. Explain what you expect to change in the sector/Programme area/participating countries.

RAINBOW recognizes the intrinsic value of groundwater as a vital resource and the subsoil as quiding principle for planning activities and climate adaptation strategies. The project advances the transition of urban and peri-urban to Sponge Cities, with a specific focus on groundwater systems as an integral component of the natural water cycle. While Nature-Based Solutions and planning interventions traditionally emphasise visible aspects of the urban water cycle, such as infiltration, evapotranspiration, and maintaining surface water health, the often overlooked dimension lies beneath the surface – the groundwater systems. Our goal and expected change in the urban planning and environmental sector is to enable a paradigm shift in planning practices, from mere consumption to sustainable dynamic groundwater resource management.

Interventions for rainwater management and facilitating water in the city are often in isolation, focusing on enhancing livability without a comprehensive understanding of groundwater system interactions. Our project challenges existing practices by giving preference to consideration to groundwater bodies as common or public goods, which become the foundation for climate adaptation measures surrounding the natural water cycle. From this perspective, the project aims to enhance collaborations for groundwater preservation between private and public space, urban and peri-urban space, and densely built and unbuilt space. Through dynamic groundwater resource management, considering holistic interventions for both groundwater recharge and groundwater release, we will address urban challenges such as the urban heat island effect, droughts, overexploitation of groundwater resources and floods.

Based on transnational and transdisciplinary cooperation implementation barriers, such as land-use conflicts, increased maintenance, equal access to water resources, pollution risks, and the upscaling of punctual interventions in public spaces will be addressed.

C.2.4 Who will benefit from your project?

In the first column of each row, please select one of the pre-defined target groups from the drop-down list. In the second column explain in more detail exactly who will benefit from your project. For example, if you choose the category education, you need to explain which specific schools or groups of schools and in which territory.

| Target Group | Specification |
|------------------------|---|
| Local public authority | Municipalities like Brussels, Stuttgart, Zwolle, Intermunicipal cooperation authorities like Lens-Lievin agglomeration community and Lille European Metropolis Capacity building of urban planning departments to obtain a paradigm shift from traditional rainwater management to sustainable and participatory solutions, the use of impact indicators on BGI/NBS to set up quantitative objectives in strategies and plans, and the evaluation of the impacts of land use on groundwater recharge and release. |

| Specification |
|--|
| Brussels Environment, Brussels Perspective, Brussels Mobility, Province of Vlaams-Brabant, Province of Overijssel, Regional Water Authority WDOD, Regional Council, Metropolitan region Stuttgart, Provinces (Netherlands) Setup and implementation of regional monitoring guidelines and strategies based on indicator framework to assess the influence of CC and benefit of sustainable groundwater management solutions. |
| Vivaqua, HYDRIA-Brussels Capital Region, Veolia Eau, Ministry of Infrastructure and Water Management Implementation of updated management tools to consider groundwater dynamics in CC context, implementation of innovative monitoring concept and application of modelling tools. |
| State institute for the environment Baden-Württemberg, Artois Picardie water agency (France), Regional consultative body RIVUS, Climate Campus - greater Zwolle region (including universities, NGO's, project developers, housing corporation, consultants, etc.) Implementation of project results in Guidance Documents, knowledge transfer to decision-makers, general public, consulting agencies, NGOs, etc. |
| Deltares, TU Dortmund University, University of Stuttgart, Université Libre de Bruxelles. French Geological Survey BRGM Upgrade of scientific knowledge, dissemination of project results to students and the international scientific community. |
| Training association for soil and contaminated sites, Baden-Württemberg, Germany Dissemination of project results to environmental departments of local administrations and consulting engineers. |
| Private companies for innovative measuring techniques like ToekomstSterk, SMEs of the innovation cluster bw-engineers from Baden-Württemberg (17 SMEs as members) Chance to develop and test innovative solutions for monitoring techniques, new market opportunities. |
| Citizens, users of public areas, private landowners, vulnerable population groups Improved quality of life reducing disaster risks and creation of greened areas for leisure and recreation, greater awareness on the effectiveness of BGI /NBS solutions. |
| Rijkswaterstaat, Ministry of infrastructure and water (NL), German Federal Institute for Research on Building, Urban Affairs and Spatial Development, French biodiversity agency Rising awareness of political actors to reduce groundwater exploitation and foster artificial groundwater recharge and release with respect to land use aspects. Provide guidelines, legal regulations and financial incentives for private landowners to implement BGI/NBS on their land. |
| |

| Target Group | Specification |
|----------------------------------|--|
| International organisation, EEIG | Groundwater group of the International Schelde Commission, International Association of Hydrogeologists (IAH) Upgrade of scientific knowledge, practical application of project results. |
| Interest groups including NGOs | Coördinatie Zenne-Coordination Senne, herbronnen.ressources |

C.2.6 Which synergies with past or current EU and other projects or initiatives will the project make use of?

| Project or Initiative Synergy | |
|-------------------------------|--|
|-------------------------------|--|

C.2.7 How does the project build on available knowledge?

Please describe what the project draws on e.g., from EU and/or other projects, and other available knowledge, and how the project capitalises on this knowledge.

The project's multidisciplinary nature requires inputs from various domains and is built on baseline knowledge provided by the project partners gained through their participation in a wide range of research projects. Key knowledge links exist to:

Interreg NSR project CATCH (2017-2022) & Thirsty Cities (2023-present), a study under the DroBE (Droughts in the Built Environment) program of the Dutch Research Council through PP Zwolle + Deltares. Measures focussing on the differentiation of water demand and water supply in the urban water balance and the transition towards water-sensitive cities will be applied and adjusted in the wider context of RAINBOW.

City of Brussels and the ULB will transfer results from the collaboration on the project BrusseauBis (Water-Sensitive Brussels), project 2020-EPF-17g, funded by Innoviris Brussels.

TU Dortmund will transfer land policy strategies providing access to private land developed in COST ACTION LAND4FLOOD to the wider context of RAINBOW.

C.3 Project partnership

Describe the structure of your partnership and explain why these partners are needed to implement the project and to achieve project objectives.

The climatic developments are governing the natural processes of rainwater infiltration, groundwater recharge and groundwater release, nowadays mainly influenced by land use, infrastructure and water management. Project objectives and key drivers are well reflected in the project partnership with partners from NL, BE, FR and DE, covering the core area of NWE. Participation of City of Luxembourg is under negotiation yet.

Project partners are:

- cities, striving for local solutions in close context with urban design and living conditions
- regional/national institutions, tackling aspects of infrastructure and water management at regional scale
- academic partners, working on solutions for practical application based on sound scientific-technical, architectural and participation research
- knowledge and engineering partners providing relevant solutions in cooperation with researchers and end-users
- civil society, elaborating methods of participation and co-creation with the general public. With respect to the quadruple helix, SMEs and business support organisations are missing. Their participation is not required as the project is focussing on the public domain and not on market relevant technology aspects. However the private sector, mainly urban planners, engineering and consultancy firms are a key target group for dissemination and training, to be approached through the project partners.

Developing strategies and solutions for sustainable groundwater resource management on the way towards the "Sponge City", there are a number of challenges to be tackled, when considering groundwater bodies as foundational. Each partner's activities are focussed on specific aspects for groundwater release or recharge. The different partner's expertise, experience and needs will contribute to cooperation on a transnational level so that jointly a comprehensive strategic approach and three solutions are reached.

Zwolle and Deltares will be focussing on comprehensive planning processes/a holistic view on groundwater at the city and neighborhood level, through exploration of monitoring strategies and scenario modelling, enabling prognosis for extreme events.

LHS and USTUTT will be focussing on the urban design process for a new urban quarter on a historically polluted area and restrictions for groundwater recharge and infiltration both by the pollution of the subsoil and land use principles.

BRGM and CALL will be focussing on the impact of the infrastructures and public policies to improve water cycle in the urban context.

VBX will focus on interventions in groundwater recharge and release areas via urban renovation in public spaces and public buildings, for addressing barriers like land-use conflict in dense urban areas, increased maintenance and conflicts of competence. The ULB explores design solutions for the transformation and adaptation and CZ-CS will address public perception of water sources as release points of groundwater, focusing on community co-creation and participatory methodologies.

TUDO forms the spatial planning links to land management and policy, flood risk management and resilience. As all strategies and solutions need land, tackling institutional barriers and effectiveness of governance structures is their focal point supporting the implementation of technical project results.

Working on capacity building is a joint transnational key element of the project. Stimulated by the academic partners, trainings will be implemented for technical experts and service providers as well as civil servants and staff of sities and further public entities in general. Further communication and training is foreseen for outreach and scale-up the project results to all NWE territory.

The LP City of Stuttgart is well experienced in EU-funded and specifically INTERREG projects since decades, covering all aspects of leading partnerships in terms of administration, project and financial management and communication.

C.4 Project work plan

A maximum of 3 work packages is allowed in every project work plan in a regular call. In the case of a small-scale projects call, maximum 1 work package is allowed. Please be aware that you will not be able to submit your AF if you are above those limits.

| Number | Work package name |
|--------|---|
| 1 | Roadmap for Sponge Cities in Northwest Europe |
| 2 | Transdisciplinary piloting to implement sustainable groundwater management in four urban districts |
| 3 | Establish targeted training modules for specific expert disciplines and stakeholder groups involved |

Work package 1

Work package title

Roadmap for Sponge Cities in Northwest Europe

Project Specific Objectives

Your objectives should be:

- realistic and achievable by the end of the project;
- specific (who needs project outputs delivered in this work package, and in which territory);
- measurable indicate the change you are aiming for.

Define one project specific objective that will be achieved when all activities in this work package are implemented and outputs delivered.

Developing a joint strategy and an unified framework for action planning for developing sustainable dynamic groundwater resource management.

Think about the communication objective that will contribute to the achievement of the specific objective. Communication objectives aim at changes in a target audience's behaviour, knowledge or belief.

The roadmap will be made available for municipalities (engineers, planners, decision makers) and home-/ landowners.

Work package summary

This joint work package will steer the transnational cooperation to develop a roadmap for Sponge Cities in Northwest Europe. This means applied research into: (i) preliminary roadmap design, (ii) pathways: city pilots/ use cases, (iii) intersections: decision support, (iv) action perspectives, (v) reflection/ testing/ reporting of roadmap. The final deliverable is a Sponge City roadmap for municipalities (engineers, planners, decision makers) and home-/ landowners, which include lessons learned, guidance, next steps for scaling up the pilot and implementation of the local action plans.

Activities

| Activity 1.1 | | |
|--------------|--|--|
| Title | Preliminary roadmap design | |
| Start period | Period 1, 1 - 6 | |
| End period | Period 3, 13 - 18 | |
| Description | 1. Product definition of SC-roadmap for professionals (engineers, planners), decision makers and homeowners. | |

| Activity 1.1 | |
|--------------|---|
| | Determine framework and contours based on needs, such as solutions (i.e. NbS) to enhance sponge effect. What determines the solution (technically), what does that mean for the urban design process and what can you do as a homeowner. |

| Deliverables 1.1 | | | |
|------------------|-------------------|-------------|-----------------|
| Running number | Deliverable title | Description | Delivery period |
| D.1.1.1 | | | |

| Activity 1.2 | |
|--------------|---|
| Title | Pathways: city pilots/ user cases |
| Start period | Period 2, 7 - 12 |
| End period | Period 4, 19 - 24 |
| Description | Policy analysis of urban adaptation strategies and long-term goals in the areas of water extremes, climate change and urban development. In addition to partner cities, also cases outside the RAINBOW coalition. How do the city pilots manifest/contribute to these strategies? And what is the position in the so-called adaptation paths, via intermediate goals to the long-term goal/situation. Special attention is paid to public and private land ownership. `Most land is privately owned (not owned by those who implement). This is where most opportunities for sponge city concepts are! Interviews per city/counterparts. And dialogue with land/ property owners. |

| Deliverables 1.2 | | | |
|------------------|-------------------|-------------|-----------------|
| Running number | Deliverable title | Description | Delivery period |

| Activity 1.3 | |
|--------------|---------------------------------|
| Title | Intersections: decision support |

| Activity 1.3 | |
|--------------|---|
| Start period | Period 3, 13 - 18 |
| End period | Period 5, 25 - 30 |
| Description | 1. Intermediate destinations, intersections: how do you determine which exit to take at the intersection. Making a well-considered choice, this is the approach. (a) putting together experience cases (see Work Package 2). But also collect issues. (b) Where do you start, with the goal/technical solution (task/risk), the location where the opportunity lies (linking opportunity for redevelopment) OR with the willingness/support. 2. What intersections are there, and what is needed to walk through them/take the exit. Legitimacy, what to prioritize, based on of which, actions, strategies. Certain choices, strategies, cookbook, ingredients, tools, skills, sources, experiences, etc. 3. How: (risk informed) Land use planning and strategies. Buying and expropriation etc. is an option, but combining functions with existing land uses and cooperation with land users is more efficient! So, how to mobilize land for sponge cities? |

| Deliverables 1.3 | | | |
|------------------|-------------------|-------------|-----------------|
| Running number | Deliverable title | Description | Delivery period |

| Activity 1.4 | |
|--------------|--|
| Title | Action perspectives |
| Start period | Period 5, 25 - 30 |
| End period | Period 7, 37 - 42 |
| Description | Engaging with landowners and homeowners. Who are they? Explore their motivations to get them on board. How to engage and motivate them? Solutions on private property: how do you do that? How do the insights/findings from 1.2 and 1.3 help with this? Also about maintenance. How do you involve the neighbourhood and motivate (land) owners? Land use policy instruments. Maintenance by residents, out of the hands of the municipality. New |

| Activity 1.4 | |
|--------------|--|
| | roles, shifting responsibilities. Different per country /social-political. |

| Deliverables 1.4 | | | | |
|------------------|-------------------|-------------|-----------------|--|
| Running number | Deliverable title | Description | Delivery period | |

| Activity 1.5 | |
|--------------|--|
| Title | Reflection/ testing/ reporting of roadmap |
| Start period | Period 6, 31 - 36 |
| End period | Period 8, 43 - 48 |
| Description | Round reflection / testing / within the case studies -> conference or workshop? Interactive website/game. Guidance/training on how to use the document. Short route versus full route. Final deliverable: reporting or road map. For municipalities (engineers, planners, decision makers) and home-/ landowners! Form yet to be determined, such as PDF, brochure/cookbook, online /interactive website, card game, infographic/poster. Available in Dutch, English, German and French. |

| Deliverables 1.5 | | | |
|---|-------------------|-------------|-----------------|
| Running number | Deliverable title | Description | Delivery period |
| D.1.5.1 Roadmap for Sponge Cities in Northwest Europe | | | |

Investments

Work package 2

Work package title

Transdisciplinary piloting to implement sustainable groundwater management in four urban districts

Project Specific Objectives

Your objectives should be:

- realistic and achievable by the end of the project;
- specific (who needs project outputs delivered in this work package, and in which territory);
- measurable indicate the change you are aiming for.

Define one project specific objective that will be achieved when all activities in this work package are implemented and outputs delivered.

Technical, spatial planning and community engagement solutions to strengthen and rebalance sustainable groundwater recharge and release,

Collectively designing, testing, and up-scaling solutions within the framework of WP1 through a multistakeholder approach to strengthen and rebalance sustainable groundwater recharge and release, encouraging follower projects in NWE.

Think about the communication objective that will contribute to the achievement of the specific objective. Communication objectives aim at changes in a target audience's behaviour, knowledge or belief.

Exchanging local practices in stakeholder engagement, project development (design, testing, upscaling groundwater solutions), and urban strategies to enhance pilot collaboration for project partners. Communicating sustainable groundwater recharge/release principles to stakeholders and communities, inspiring best practices, and promoting a groundwater-centric urban water cycle across NWE cities.

Work package summary

WP2 enables transnational cooperation in four pilot cities via collective activities for design, test, and upscale solutions. Collaborative testing sites engage actors to enhance protection and preservation of groundwater quality and recharge and release dynamics. Pilot cities develop activities to (i) engage multi-scalar actors, (ii) design tailor-made groundwater management devices in diverse urban settings (urban, peri-urban, industrial, polder), (iii) learn from and assess testing of devices for groundwater, and (iv) ultimately inspire other stakeholders to replicate processes and solutions. WP2 leverages trans-disciplinarity of partners and diversity of urban contexts to foster mutual learning and draft (i) a process tool-box for activating pilots and stakeholder participation, (ii) a technical tool-box of groundwater solutions, (iii) and Spatial recommendations and tailored land-use, land policy strategies, finally collected in the Roadmap for Sponge Cities.

Activities

| Activity 2.1 | |
|--------------|---|
| Title | Co-analysis to engage Groundwater Recharge and Release Pilot Sites |
| Start period | Period 1, 1 - 6 |
| End period | Period 2, 7 - 12 |
| Description | A2.1 focuses on analysing groundwater dynamics and engaging stakeholders across the four pilot sites. This action integrates site managers, developers, urban planners, citizens, and associations to assess groundwater quality and quantity at various scales, addressing both local and urban factors relevant to pilot development, as determined by A1.1. Lens-Liévin and Stuttgart pilots investigate quantity and quality of (ground)water, while Brussels and Zwolle include participatory activities (e.g. guided groundwater source walks and inventory) to raise awareness of groundwater dynamics and foster community solidarity between recharge and release. Results are shared with professionals and institutions to aid informed decision-making in the pilots and through the pathways of A1.2. A2.1 ultimately enhances local networks, captures valuable experiences, and builds a shared language on groundwater management. A2.2 matches pilot local conditions with designs for groundwater recharge and release. Mapping conditions and the analysis of A.2.1 provides context-based information to enhance the design of principles and devices for groundwater, crucial for climate change adaptation. Transdisciplinary approach is based on collaboration between researchers (ULB, TU Dortmund, Deltares) and institutions through work sessions and interviews. Principles and devices are designed based on reviewing existing projects in similar contexts and on the capacity building of A3.1. Local conditions are explored by mapping urban features in four pilots, by intertwining urban morphology, typologies, ownership with soil infiltration rates and ecosystems, enabling the identification of key issues and challenges for the trainings of A3.2. This comprehensive mapping identifies urban spaces where principles and devices are most suitable for groundwater recharge or release, aiding to navigate intersections of A1.3 and support changes in pilot |

| Activity 2.1 | |
|--------------|--------|
| | cases. |

| Deliverabl | es 2.1 | | |
|-------------------|---|--|----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.2.1.1 | Report on the (preliminary) analysis of the pilot cases | D2.1.1 compiles experiences from all pilot cases on the co- analysis process and results, drawing from desk research (GIS data, statistical databases, site contexts, previous studies, existing computer models) and participatory workshops (multi- stakeholder input, local knowledge, and terrain work). | Period 2 , 7 - 12 |
| D.2.1.2 | Report on the stakeholder engagement and activation of pilot cases | D2.1.2 will compile experiences from all pilot cases on stakeholder engagement, bringing into image the initiation phases of the pilot projects, covering political support, negotiations, meetings, etc., including the documentation of participatory activities with citizens and their outcomes. | Period 2 , 7 - 12 |
| D.2.1.3 | | | |

| Activity 2.2 | |
|--------------|--|
| Title | Mapping of pilot local conditions and design adaptive and resilient principles and devices for groundwater recharge and release |
| Start period | Period 2, 7 - 12 |
| End period | Period 3, 13 - 18 |
| Description | Mapping of pilot local conditions and design adaptive and resilient principles and devices for groundwater recharge and release A2.2 matches pilot local conditions with designs for groundwater recharge and release. Mapping conditions and the analysis of A.2.1 provides context-based information to enhance the design of principles and devices for groundwater, crucial for climate change adaptation. Transdisciplinary approach is based on collaboration between researchers (ULB, TU Dortmund, Deltares) and institutions through work sessions and interviews. Principles and devices are designed based on reviewing existing projects in similar contexts and on the capacity building of A3. |

| Activity 2.2 | |
|--------------|---|
| | 1. Local conditions are explored by mapping urban features in four pilots, by intertwining urban morphology, typologies, ownership with soil infiltration rates and ecosystems, enabling the identification of key issues and challenges for the trainings of A3.2. This comprehensive mapping identifies urban spaces where principles and devices are most suitable for groundwater recharge or release, aiding to navigate intersections of A1.3 and support changes in pilot cases. |

| Deliverab | les 2.2 | | |
|-------------------|---|--|-----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.2.2.1 | Research on context based designs of groundwater devices and principles for pilot sites | D2.2.1 details transdisciplinary research on groundwater device design, documenting partner worksessions and interviews with local actors. It compiles reviewed projects in similar contexts and presents proposed adapted groundwater devices and principles tailored to diverse pilot conditions. | Period 3 , 13 - 18 |
| D.2.2.2 | Report on the mapping of urban features to identify challenges and opportunities for the pilot sites | D2.2.2 presents the local conditions and mapping features in the pilot cases based on urban morphology, typology, ownership status, soil values and infiltration rates. The deliverable presents the identified key issues, challenges and opportunities for the diverse pilot conditions and urban spaces | Period 3 , 13 - 18 |

| Activity 2.3 | |
|--------------|---|
| Title | Co-design to implement Groundwater Recharge and Release Pilot Sites |
| Start period | Period 3, 13 - 18 |
| End period | Period 4, 19 - 24 |
| Description | A2.3 enables a multi-actor method to develop shared visions for pilot sites. Supported by A1.3 decisions support, the co-design action involves engaging stakeholders—such as citizens, professionals, and institutions—in discussions to reach collective decisions aimed at improving the quality and acceptance of groundwater |

| Activity 2.3 | |
|--------------|---|
| | implementations. It utilizes the adapted principles and devices of A2.2 to facilitate these discussions. Local conditions vary, allowing for a wide-range testing of principles and devices to enhance collaborations among four pilots. The process begins with drafting and adapting visions and strategies for each site, followed by in-depth design work for specific pilot spaces and subjects that applies devices and interventions for groundwater recharge and release, while integrating social practices and biodiversity. This process is accompanied by the trainings of A.3.2, tackling key issues and local challenges and contributing to the D3.2.1-D3.2.4. A2.3 is further supported by two codesign workshops in Brussels and Zwolle, where institutions are dedicated to creating inclusive, circular water districts by actively engaging citizens. |

| Deliverab | les 2.3 | | |
|-------------------|--|--|-----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.2.3.1 | Report on the co- designed groundwater solutions (visions, strategies, devices and interventions) | D2.3.1 presents visions and strategies as well as in-depth design for specific pilot cases for groundwater interventions, tackling the diverse local key issues. It describes the multi-actor design process, results of codesign sessions and how the governance process was institutionalised. | Period 4 , 19 - 24 |
| D.2.3.2 | Report on the two co-diagnostic sessions of VBX and Zwolle | D2.3.2 details the two co-design workshops in Brussels and Zwolle and their citizens engagement, as well as how their results have shaped and were integrated in the design process in D2.3.1. | Period 4 , 19 - 24 |

| Activity 2.4 | |
|--------------|--|
| Title | Co-testing of pilot projects |
| Start period | Period 5, 25 - 30 |
| End period | Period 7, 37 - 42 |
| Description | A2.4 combines testing of groundwater recharge and release devices with future planning for the Sponge City concept. Building on co-design insights from A2. 2 and A2.3, A2.4 evaluates devices like infiltration |

| Activity 2.4 | |
|--------------|---|
| | zones and urban ponds/rivers and tests different land-use and property solutions and perspectives proposed by A1.4. A2.4 will engage local communities through hands-on activities to promote proactive management and reinforce collaborations. Co-evaluation workshops are organised to share results and enhance cooperation across the four pilot sites, feeding the transnational sessions of A3. 3. This involves a transdisciplinary approach with researchers and institutions, fostering mutual learning through collective sessions and presentations. Concurrently, A2.4 develops scenarios for groundwater management impacts, using findings from A2.1. Basic recommendations are crafted to maintain net infiltration rates and ensure water quality in urban planning, aiding the long-term implementation of the Sponge City concept and contributing to A2.5. |

| Deliverables 2.4 | | | |
|-------------------|--|---|-----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.2.4.1 | Report on the tested groundwater solutions (visions, strategies, devices and interventions) | D2.4.1 describes the testing of groundwater solutions in the pilot cases, as well as the testing of different land-use and property strategies. The deliverable further details the collective sessions and presentations between the partners for mutual learning on pilot implementation. | Period 7 , 37 - 42 |
| D.2.4.2 | Report on the collaborative activities with local stakeholders and the co-evaluation workshops | D2.4.2 reports the different local activities for community engagement in pilot implementation and activities that contributed towards pilot collaboration, as well as the results of the co-evaluation workshops between the stakeholders on the tested solutions and strategies. | Period 7 , 37 - 42 |

| Activity 2.5 | | |
|--------------|---|--|
| Title | Recommendations and solutions for the Roadmap for sponge cities | |
| Start period | Period 6, 31 - 36 | |
| End period | Period 8, 43 - 48 | |

| Activity 2.5 | | |
|--------------|--|--|
| Description | A2.5 integrates learnings from pilot sites with recommendations to replicate effective groundwater recharge and release principles, advancing the Sponge City concept. This action synthesises assessment results from the pilots with local institutional and technical knowledge, broadening the scope and refining planning mechanisms to facilitate further implementations. It involves strong collaboration with research institutions (ULB, TU Dortmund, Vegas, Deltares) and local authorities (Brussels, Lens-Liévin, Stuttgart, Zwolle) to draft recommendations that address institutional, spatial, and technical barriers. A2.5 consolidates results from previous phases into a deliverable which includes deepened evaluations via interviews with pilot participants to assess processes, limits, and opportunities, and disseminates findings through accessible podcasts to inspire other contexts and stakeholders in sustainable groundwater management. These recommendations and experiences will contribute to A1.5, supporting the Roadmap for Sponge Cities, and A3.3, supporting the transnational trainings for upscaling successful practices. | |

| Deliverables 2.5 | | | |
|-------------------|--|--|-----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.2.5.1 | Synthesis on the asse ssment results from the pilots cases | D2.5.1 gives a synthesis on the assessment results from the four pilots to engage stakeholders to replicate a sustainable dynamic groundwater management. It collects processes, design solutions, spatial implementation plans, along with pilot-story podcasts and interviews to reach a broader audience. | Period 8 , 43 - 48 |

Outputs

Regarding the drop-down list of Programme output indicators:

For every project output you define, you must choose one Programme output indicator to contribute to from the drop-down list and quantify your contribution.

Overall, as a project you must contribute to a minimum of 2 out of the 4 following output indicators. Important: Please note that if you choose output indicator 0.2 then you must also choose output indicator 0.3 AND one more output indicator for a total of 3 out of 4 (e.g., 0.2, 0.3 and 0.4).

- 0.1: Strategies and action plans jointly developed
- 0.2: Pilot actions developed jointly and implemented in projects

- 0.3: Jointly developed solutions
- 0.4: Participations in joint training schemes

| Output 2.1 | |
|----------------------------|---|
| Output Title | Process Toolbox for activating pilots and stakeholder participation for Groundwater Recharge and Release Sites |
| Programme Output Indicator | 2.4.0.3: Jointly developed solutions |
| Measurement Unit | solutions |
| Target Value | 1,00 |
| Delivery period | Period 7, 37 - 42 |
| Output Description | Output 1 is a toolbox designed to activate pilot projects by engaging multiple actors through participative processes toward the Sponge City concept. The output outlines specific procedures and tools to engage multi-level public players for various purposes, ranging from raising awareness to conducting collective on-site analyses for new developments. |
| Output 2.2 | |
| Output Title | Technical toolbox for groundwater management and designing principles and devices for Groundwater Recharge and Release Sites |
| Programme Output Indicator | 2.4.0.3: Jointly developed solutions |
| Measurement Unit | solutions |
| Target Value | 1,00 |
| Delivery period | Period 7, 37 - 42 |
| Output Description | Output 2 compiles principles and devices to enable the Sponge City concept in urban districts with specific spatial and ecological conditions. The output is a technical toolbox that showcases potential technical design instruments and practices for groundwater recharge and release implementations in pilot sites. The output is developed through a multidisciplinary and participative approach. |

| Output 2.3 | |
|----------------------------|--|
| Output Title | Spatial recommendations and tailored land-use, land policy and ownership strategies for implementation of Groundwater Recharge and Release Sites |
| Programme Output Indicator | 2.4.0.3: Jointly developed solutions |
| Measurement Unit | solutions |
| Target Value | 1,00 |
| Delivery period | Period 7, 37 - 42 |
| Output Description | Output 3 defines spatial recommendations and strategies to implement the Sponge City concept by compiling learnings and evaluations. The output outlines pathways for enabling changes, drawing on experiences from the four pilot projects. The spatial recommendations also reflect on inclusive climate actions and collective management strategies. |

Investments

Work package 3

Work package title

Establish targeted training modules for specific expert disciplines and stakeholder groups involved

Project Specific Objectives

Your objectives should be:

- realistic and achievable by the end of the project;
- specific (who needs project outputs delivered in this work package, and in which territory);
- measurable indicate the change you are aiming for.

Define one project specific objective that will be achieved when all activities in this work package are implemented and outputs delivered.

From science to practice: Upskill professionals of public sector in city and regional administration and related service providing community (e.g. urban planners, civil engineers, decision/policy makers) by capacity building initiatives

Think about the communication objective that will contribute to the achievement of the specific objective. Communication objectives aim at changes in a target audience's behaviour, knowledge or belief.

Striving for a wider application of the strategy and solutions to be developed, communication aims at reaching other cities and a comprehensive expert and service providing community serving public administration in environmental and spatial development.

Work package summary

In the early phase of the project training of staff of the project partners will be done, serving also as a frontrunner of the training modules offered in the second half of the project to wider regional networks in cooperation with regional training providers. Training includes modules on strategy development, methodology of action planning and the solutions to be transnationally developed in the project.

These include training of technical and administrative staff, water managers and urban planners, experts and service providers on monitoring and modelling of climate change related impacts, targeted measures and technical solutions as well as strategy and action planning

Activities

| Activity 3.1 | |
|--------------|---------------------------------------|
| Title | Capacity building of the project team |
| Start period | Period 1, 1 - 6 |

| Activity 3.1 | |
|--------------|--|
| End period | Period 3, 13 - 18 |
| Description | Transnational workshops on relevant key issues for the solutions to be developed, organised for the project team. Workshop 1 shall deal with the technical tools used in the project (modelling approaches, processes of and technical approaches for infiltration of rainwater, hydro-geochemical aspects like mobilisation of pollutants on contaminated sites). Workshop 2 focusses on multi-actor community involvement aspects and 3 shall deal with the spatial planning and land-use related solutions. Workshop 4 shall deal with the strategy and compilation of action plans. We plan these 4 workshops for the project team in the first project year scheduled at semi-annual partner meetings. Each workshop approx. 20 participants, in total 80 participants. |

| Deliverables 3.1 | | | |
|-------------------|---|---|----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.3.1.1 | Joint report of transnational workshops on solution development | Summary report solution development The report will comprise the documentation of four workshops (agenda, minutes of meetings, attendance lists, presentations and training documentation, major conclusions) | Period 2 , 7 - 12 |

| Activity 3.2 | |
|--------------|---|
| Title | Mutual-learning and reflective monitoring, Capacity building of project partner staff |
| Start period | Period 3, 13 - 18 |
| End period | Period 4, 19 - 24 |
| Description | A3.2 comprises mutual-learning activities across all partner cities to support WP 1 and 2. Collaborative problem-solving, strategic planning, and mentorship pairings will foster ongoing collaboration in pilot actions. An online mutual-learning platform will facilitate continuous knowledge sharing throughout the pilot's process of co-analysis, co-design and cotesting. |

| Activity 3.2 | |
|--------------|--|
| | Key events are workshops at each pilot site with project partners' staff and related institutions, to present methodology and procedures, first results, discuss the key issues and local challenges. This wider audience enables a first review of the activities, approaches and solutions envisaged. Trainers from the transnational partnership will be involved, safeguarding twinning of pilot sites within new contexts. The workshops shall also function as "enabling trainings", qualifying and motivating PPs staff for a wider application of the solutions beyond the pilot actions. The activities will include ca. 60 participants |

| Deliverables 3.2 | | | |
|-------------------|---|--|-----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.3.2.1 | Report of the local workshop in Stuttgart pilot | Documentation of the local workshop in Stuttgart pilot (agenda, minutes of meetings, attendance lists, presentations, major conclusions) | Period 4 , 19 - 24 |
| D.3.2.2 | Report of the local workshop in Zwolle pilot | Documentation of the local workshop in Zwolle pilot (agenda, minutes of meetings, attendance lists, presentations, major conclusions) | Period 4 , 19 - 24 |
| D.3.2.3 | Report of the local workshop in Brussels pilot | Documentation of the local workshop in Brussels pilot (agenda, minutes of meetings, attendance lists, presentations, major conclusions) | Period 4 , 19 - 24 |
| D.3.2.4 | Report of the local workshop in Lens Lievin pilot | Documentation of the local workshop in Lens Lievin pilot (agenda, minutes of meetings, attendance lists, presentations, major conclusions) | Period 4 , 19 - 24 |
| D.3.2.5 | online learning platform | | Period 8 , 43 - 48 |

| Activity 3.3 | |
|--------------|--|
| Title | Transnational trainings on joint project results |
| Start period | Period 6, 31 - 36 |
| End period | Period 8, 43 - 48 |
| Description | Transnational trainings will be jointly organised in |
| | |

| Activity 3.3 | |
|--------------|--|
| | different regions and in cooperation with regional training organisations to present key project results to public regional & local expert community. These trainings will broaden the scope of pilots as demonstration projects, inspiring other contexts and institutionsSuch trainings will be • Key issues in strategy and action planning for climate resilient urban development • Modelling and prognosis of subsoil processes related to infiltration and groundwater recharge • Decision support tool for the management of urban water cycles • Tools and procedures for community participation in water related issues • Legal and administrative options for public welfare-oriented land-use principles 5 trainings á 35 participants, 175 participants Public final project event in Stuttgart, ca. 125 participants |

| Deliverables 3.3 | | | |
|-------------------|--|--|-----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.3.3.1 | Modelling and prognosis of subsoil processes related to infiltration and groundwater recharge | Transnational training at Training Centre for Contaminated Sites Baden-Württemberg Documentation of the training on transnational key project results (agenda, attendance lists, presentations, major conclusions) including presentations of all pilot sites | Period 8 , 43 - 48 |
| D.3.3.2 | | | |

| Activity 3.4 | |
|--------------|--|
| Title | National and international conferences |
| Start period | Period 5, 25 - 30 |
| End period | Period 8, 43 - 48 |
| Description | As most partners are active in scientific-technical associations and water networks at international (IAH, EWA, EurEau etc.) and national (FH-DGG DWA,) level, project solutions and results will be communicated to the expert community at various |

| Activity 3.4 | |
|--------------|---|
| | conferences and workshops organised within these networks. This dissemination channel will facilitate uptake of project results effectively, however it is difficult to estimate a total number of audience to be reached. A specific RAINBOW session is planned to be integrated into the AquaConSoil 2027 conference, a biennial European premium event for knowledge dissemination and collaboration among scientists, policymakers, decision-makers and industry representatives. Ca. 75 participants. |

| Deliverab | les 3.4 | | |
|-------------------|--|--|-----------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.3.4.1 | Transnational training at AquaConSoil international event | Documentation of the Session including programme, presentations and texts for the conference proceedings | Period 6 , 31 - 36 |
| D.3.4.2 | conference collection | summary report collating all conference related activities, the presentations held plus a summary of the conferences concerning audience and key contacts reached | Period 8 , 43 - 48 |

| Activity 3.5 | |
|--------------|--|
| Title | RAINBOW awareness campaign |
| Start period | Period 1, 1 - 6 |
| End period | Period 8, 43 - 48 |
| Description | Communication activities to keep the related city and expert communities aware of progress and results of the project, announcing events and training activities and |

| Deliverable | es 3.5 | | |
|----------------|------------------------|---|--------------------|
| Running number | Deliverable title | Description | Delivery period |
| D.3.5.1 | Communication Plan and | summary report collating all communicaion | Period 8, |

| Deliverable | es 3.5 | | |
|-------------------|-------------------|---------------------|-----------------|
| Running number | Deliverable title | Description | Delivery period |
| | monitoring report | related activities, | 43 - 48 |

Outputs

Regarding the drop-down list of Programme output indicators:

For every project output you define, you must choose one Programme output indicator to contribute to from the drop-down list and quantify your contribution.

Overall, as a project you must contribute to a minimum of 2 out of the 4 following output indicators. Important: Please note that if you choose output indicator 0.2 then you must also choose output indicator 0.3 AND one more output indicator for a total of 3 out of 4 (e.g., 0.2, 0.3 and 0.4).

- 0.1: Strategies and action plans jointly developed
- 0.2: Pilot actions developed jointly and implemented in projects
- 0.3: Jointly developed solutions
- 0.4: Participations in joint training schemes

| Output 3.1 | |
|----------------------------|---|
| Output Title | Training of project team and PPs staff and key stakeholders |
| Programme Output Indicator | 2.4.0.4: Participations in joint training schemes |
| Measurement Unit | participations |
| Target Value | 140,00 |
| Delivery period | Period 4, 19 - 24 |
| Output Description | |
| Output 3.2 | |
| Output Title | Training of international experts and decision making community by final project conference |
| Programme Output Indicator | 2.4.0.4: Participations in joint training schemes |
| Measurement Unit | participations |
| Target Value | 200,00 |
| Delivery period | Period 8, 43 - 48 |
| Delivery period | 1 61100 0, 40 |

| Output 3.3 | |
|----------------------------|---|
| Output Title | Training of local, regional and national expert community by 5 joint trainings in the partner regions |
| Programme Output Indicator | 2.4.0.4: Participations in joint training schemes |
| Measurement Unit | participations |
| Target Value | 175,00 |
| Delivery period | Period 8, 43 - 48 |
| Output Description | |

Investments

C.5 Project Results

What do you expect to change because of the activities you plan to implement and the outputs you plan to deliver? Please take a look at the programme result indicators and select those that you will contribute to.

| Result 1 | | |
|---|---|--|
| Programme result indicator | 2.4.R.1: Joint strategies and action plans taken up by organisations | |
| Measurement unit | joint strategy/action plan | |
| Baseline | 0,00 | |
| Target value | 5,00 | |
| Delivery period | Period 1, 1 - 6 | |
| Describe in more detail the change expected [recommended in Step 1: 500 characters] | The project team will jointly develop a general strategy and roadmap for Sponge Cities in NWE, which provides a framework for action planning for deploying sustainable dynamic groundwater resource management and tailored land policy strategies facilitating access to private land. Based on that and in transnational cooperation with the partnership each participating city will set in place during the lifetime of the project an action plan to be fully implemented in the upcoming years, increasing its CC related resilience. | |

| Result 2 | |
|---|--|
| Programme result indicator | 2.4.R.2: Solutions taken up or up-scaled by organisations |
| Measurement unit | solutions |
| Baseline | 0,00 |
| Target value | 4,00 |
| Delivery period | |
| Describe in more detail the change expected [recommended in Step 1: 500 characters] | Three solutions tested, verified and demonstrated in 4 pilot actions for climate adaptive water management in a variety of specific local situations Decision-support tool for technical groundwater management Recommendations for action on tailored land policy strategies that contribute to get access to (private) land for Sponge City infrastructure |

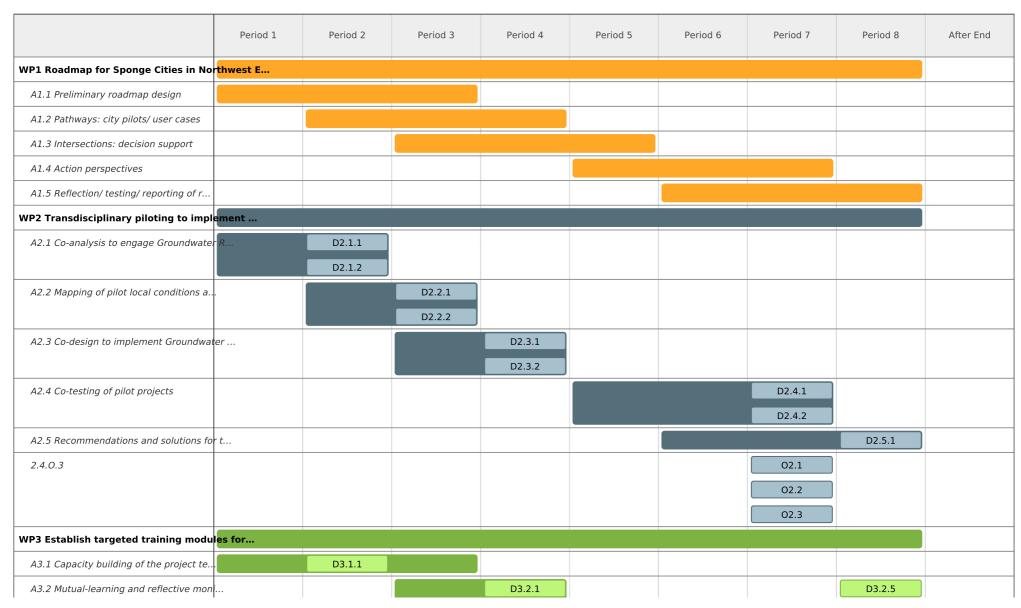
| Result 2 | |
|----------|--|
| | Tool-box for community participation processes on groundwater related issues The solutions jointly developed are tackling key challenges and barriers for implementation of the Sponge City concept. |

| Result 3 | |
|---|---|
| Programme result indicator | 2.4.R.3: Completion of joint training schemes |
| Measurement unit | participants |
| Baseline | 0,00 |
| Target value | 75,00 |
| Delivery period | |
| Describe in more detail the change expected [recommended in Step 1: 500 characters] | In the early phase of the project training of staff of the project partners will be done, serving also as a frontrunner of the training modules offered in the second half of the project to wider regional networks in cooperation with regional training providers. Training includes modules on strategy development, methodology of action planing and the three solutions as there are decision-support-tool, land policy strategies and community participation. These include training of technical and administrative staff, water managers and urban planners, experts and service providers on monitoring and modelling of climate change related impacts, targeted measures and technical solutions as well as strategy and action planning. |

| Result 4 | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| Programme result indicator | 2.4.R.4: Organisations with increased institutional capacity due to their participation in cooperation activities across borders | | | | | | | | |
| Measurement unit | Organisation | | | | | | | | |
| Baseline | 0,00 | | | | | | | | |
| Target value | 25,00 | | | | | | | | |
| Delivery period | | | | | | | | | |
| Describe in more detail the change expected | Organisations of the 10 partners will promote | | | | | | | | |
| | | | | | | | | | |

| Result 4 | |
|---|--|
| [recommended in Step 1: 500 characters] | transnational cooperation, exchange knowledge and experience through active participation in project workshops and trainings, thus strengthening their capabilities in groundwater resources management and increasing their institutional capacity. Though the trainings and the dissemination activities especially among the regional city networks of the partners, also other cities (estimated around 15 in total) will significantly benefit, take-over and so increasing their capacities too. |

C.6 Project Time Plan



| 1 | | | | | | |
|--|----|--|--------|--------|--------|--|
| | | | D3.2.2 | | | |
| | | | D3.2.3 | | | |
| | | | D3.2.4 | | | |
| A3.3 Transnational trainings on joint pr | | | | | D3.3.1 | |
| A3.4 National and international conferen | | | | D3.4.1 | D3.4.2 | |
| A3.5 RAINBOW awareness campaign | | | | | D3.5.1 | |
| 2.4.0.4 | | | 03.1 | | 03.2 | |
| | | | | | 03.3 | |
| Result indicator | | | | | | |
| 2.4.R.1 | R1 | | | | | |

C.7 Project management

In addition to the thematic work you will do in your project, you will need time and resources for coordination and internal communication. Please describe below how you plan to organise yourself to ensure the project work runs smoothly.

C.7.1 How will you coordinate your project?

Who will be responsible for coordination? Will you have any other management structures (e.g., thematic groups, WP managers)? How will the internal communication work?

Lead Partner LHS will be responsible for project coordination, thus securing an efficient organizational structure and internal communication flow with the JS and between PPs and LP. This includes a sound financial management and cost planning structure. LHS has decades of experience in managing EU-funded projects and a lot of expertise in INTERREG, hereby acting as a lead partner several times. We foresee two levels of management:

- 1. Strategic: Project Steering Committee (PSC) will be the body consisting of one representative of each Project Partner duly authorised to represent the respective LP and PP institutions. The PSC will be formally established at the project kick-off. The PSC will be responsible for monitoring of project implementation, validation of content & finance and reviewing the project management in periodic meetings. In case of necessary changes to the work plan PSG will make decisions. PSC will be taking decisions for RAINBOW project consortium by a majority of 4/5 votes. The PSC will come together in semi-annual meetings and on demand online.
- 2. Operational: Project Management Team (PMT): According to the thematic structure of the WPs the operational level of project management will be done by project management team PMT, meeting bimonthly and formed by the overall project manager of LP and its financial manager, communication manager and each WP-leader. This reflects the interrelation and integration of WP activities and The PMT will be formally established at the project kick-off meeting. The PMT will meet usually online to discuss performed and planned activities/deliverables, and to monitor project implementation. The PMT will communicate with PSC by e-mails, phones and online meetings according to demand. The LP takes the overall responsibility for sound implementation and coordination via its role as the head of the project management bodies PSG and PMT. Associated partners will be involved as observers and advisers in the project.

C.7.2 Which measures will you take to ensure quality in your project?

Quality management: How will you ensure project quality (quality control measures)? Risk management: List the three main risks of your project and potential mitigation measures.

Quality of RAINBOW project will be monitored at two levels. During each period day-to-day quality monitoring and support will be performed by WP-leaders, who will stay in full contact with all PP involved in the WP and responsible for the individual deliverables & outputs. WP-leaders are already identified at preparation stage the partners responsible for each deliverable & output within their WPs. Regular meetings during each period are foreseen for each WP.

WP-leaders will also stay in day-to day e-mail contact with LP and PMG, especially in case of any correction measures at project level are needed. The partners responsible for leading the individual WPs are:

PP10 (NL) for WP1 PP2 (BE) for WP2

LP (DE) for WP3

At the end of each reporting period a partner meeting will be organized and then the WP-leaders will report on the overall progress of the WP, i.e. all deliverables & outputs within their WPs. PMG will give an assessment of deliverables & outputs within each WP and will propose correction measures whenever applicable. PP being the meeting host will prepare (with help of LP) minutes from each project meeting & send it to all PPs. One kick-off and eight semi-annual meetings (the last in combination with final conference) will be organised within the partnership.

Evaluation of RAINBOW project progress will be done twice in a year during partner meetings by PSC directly involved in day-to day project implementation able to evaluate the project progress. From today's perspective three main risks should be considered:

• Staff risk: loss of key skills due to inactive periods of project staff due to sick leaves, resignation, internal shifting, etc.

We encounter this risk by anticipatory acting enabling strategic decisions in due time to achieve replacements by equally skilled and qualified staff.

• Management risk: Failure to comply with time limits for processing WPs due to unexpected situations like delayed administrative acting, etc.

We are confident to tackle this risk by continuous monitoring and steady assessment executed by PMT, enabling early reporting of delays and decisions on reasonable adjustments if necessary.

 Technical implementation risk: Implementation in the pilots is hampered due to lacking accessibility of field areas, data availability not according to expectations, not enough sampling material, etc.

To manage this risk, all required information has been identified in the proposal stage. With start of WP 2, stakeholders like land owners, residents, site staff, etc. will be engaged and involved in the process enabling early coordination and adjustment if necessary.

C.7.3 What will be the general approach you will follow to communicate about your project?

Who will coordinate project communication and how will he/she ensure the involvement of all partners? How will the communication function contribute to uptake and scale up of your project results? Please note that all communication activities, including a compulsory communication strategy as first deliverable, should be included in the work packages as an integral part of your project. There is no need to repeat this information here.

According to the project specific objectives and related target groups the general communication approach focusses on

- Municipalities and developers/land owners in relation to the sponge city strategy and roadmap
- Sensibilisation of citizens and city administrations for climate change related effects, especially the general public and residents of the pilot cities in relation to measures and solutions which can be implemented
- Technical experts in administrations and related service providing community which should be reached with the training and capacity building activities to facilitate the uptake of project outputs

The role of communication manager (CM) will be taken by an external expert of LP, an experienced communication expert for Interreg Programme. A communication strategy describing communication objectives and target groups in detail and elaborating recommendations how to reach them efficiently will be compiled within the first three months of project lifetime. A communication plan with a specified time schedule listing all planned activities in an implementation table will be part of the strategy. The strategy will be reviewed once a year and adjusted if needed. It will be done in close cooperation with all partners and will ensure an ongoing outreach after project lifetime to achieve uptake of project results.

To ensure involvement of all partners each PP will assign a person responsible for communication. The CM will advise the PP communication specialists to ensure adherence to programme requirements take care of proper branding of project activities, A project communication team (PCT) will be established at kick-off meeting involving all PPs to be coordinated by the CM. The PCT will meet on demand and online to coordinate all major issues related to the project communication plan and the general approach. CM will instruct and support the partner communities with local activities and events, transferring project information to the national language, etc.

CM will establish standard communication channels and activities such as project website and social media eg. establishing RAINBOW LinkedIn community. PP will deliver their contributions to the CM who will integrate them in appropriate media like the weekly newsletter and the Linkedin community, thus ensuring regular updates on project achievements. CM constantly inviting them to contribute and to deepen specific aspects via the PMT will facilitate all partners' involvement. The team will also ensure the transfer of deliverables & outputs to reach target groups through the most impactful and well-established channels in their regions for ongoing information about RAINBOW activities. CM will ensure an outreaching communication with the wider public finding an appropriate communication style and language. To create a project recognition factor, slogans and "catchy messages" will be collected and different types of messages labelled to achieve specific target groups.

C.7.4 How do you foresee the financial management of the project and reporting procedures for activities and budget (within the partnership and towards the programme)?

| _ (· | *1 *1*** | 1 111 | | | | | 1 . | _ | | |
|-----------|-----------------|-----------|--------|-----------------|------------------|----------------|----------|--------|------------------|-----|
| I)etine r | esponsibilities | deadlines | : IN 1 | financial flows | reporting flows, | project relate | ed frans | ters r | eclaims <i>e</i> | -1C |

to be developed...

C.7.5 Cooperation criteria

Please select all cooperation criteria that apply to your project and describe how you will fulfil them.

| Cooperation criteria | | Description |
|----------------------|-----|--|
| Joint development | Yes | The project has been jointly developed by the consortium of PP. We have started the project preparation in December 2023. The intervention logic, project aim and scope of pilot actions have been identified jointly. |
| Joint implementation | Yes | All PP will be actively involved in project implementation and communication. Within WP 1 all PP will jointly work on roadmap, strategy and action plans, WP2 jointly implementing pilot actions, and WP 3 jointly organizing trainings and workshops. |
| Joint staffing | Yes | In all WPs the staff of respective PP will be working jointly in international teams on all pilot actions: PA Stuttgart together with LP, PP2, PP9, PP 4; PA Brussels with LP, PP2, PP6, PP7, PP8; PA |
| Joint financing | Yes | LP will submit a regular Joint Finance Report based on certificated costs of all PP. After acceptance the total amount of ERDF will be transferred to LP. Respective amounts will be distributed as soon as possible by LP towards the PP. |

C.7.6 Horizontal principles

Please indicate which type of contribution to horizontal principles applies to the project, and justify your choice.

| Horizontal principles | Type of contribution | Description of contribution |
|--|----------------------|---|
| Sustainable development | positive effects | In line with UN SDGs 6, 11 and 13 we mitigate the influence of climate change in urban environments. By developing a holistic strategy for protection and restoration of water-related ecosystems and involving stakeholders we act as a role model |
| Equal opportunities and non-discrimination | neutral | General non-discrimination principles will be obtained. PP will give special attention to equal access to project events and information and to prevent any discrimination because of age, gender, religion, ethnicity or sexual orientation. |
| Equality between men and women | neutral | All partners are fulfilling gender equality policies. All genders (men, women, diverse) contributors have equal opportunities to be involved in the project. |

C.8 Long-term plans

As a programme, we would like to support projects that have a long-lasting effect in the territory and those who will benefit from them. Please describe below what you will do to ensure this.

C.8.1 Ownership

Please describe who will ensure the financial and institutional support for the outputs/deliverables developed by the project (e.g., tools), and explain how these outputs/deliverables will be integrated in the work of the institutions.

C.8.2 Durability

Some outputs/deliverables should be used by relevant groups (project partners or others) after the project's lifetime, in order to have a lasting effect on the territory and the population. For example, new practices in urban transport need to be used by local authorities to have cleaner air in the city, and the whole population will benefit from this. Please describe how your outputs/deliverables will be used after the project ends and by whom.

D - Project budget

D.1 Project budget per fund

| Partner number | Status | Organisation abbreviation | Country (click in cell to access drop-down list) | ERDF | ERDF % Rate | % of total ERDF | Public Contribution | Auto Public Contribution | Private Contribution | Total partner contribution | Total eligible budget | % of Total eligible budget |
|-------------------|--------|---------------------------|--|--------------|-------------------|-----------------------|------------------------|-----------------------------|-------------------------|----------------------------------|-----------------------------|-------------------------------------|
| LP1 | Active | LHS | Deutschland (DE) | 566.328,00 | 60.00 | 27.31 | 377.552,00 | 0,00 | 0,00 | 377.552,00 | 943.880,00 | 27.31 |
| PP2 | Active | USTUTT | Deutschland (DE) | 593.949,87 | 60.00 | 28.64 | 395.966,58 | 0,00 | 0,00 | 395.966,58 | 989.916,45 | 28.64 |
| PP3 | Active | TUDO | Deutschland (DE) | 0,00 | 0.00 | 0.00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0.00 |
| PP4 | Active | BRGM | France (FR) | 0,00 | 0.00 | 0.00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0.00 |
| PP5 | Active | CALL | France (FR) | 0,00 | 0.00 | 0.00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0.00 |
| PP6 | Active | VBX | Belgique/België (BE) | 695.592,20 | 60.00 | 33.54 | 463.728,14 | 0,00 | 0,00 | 463.728,14 | 1.159.320,34 | 33.54 |
| PP7 | Active | CZ-CS | Belgique/België (BE) | 0,00 | 0.00 | 0.00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0.00 |
| PP8 | Active | ULB | Belgique/België (BE) | 217.933,11 | 60.00 | 10.51 | 145.288,74 | 0,00 | 0,00 | 145.288,74 | 363.221,85 | 10.51 |
| PP9 | Active | Zwolle | Nederland (NL) | 0,00 | 0.00 | 0.00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0.00 |
| PP10 | Active | Deltares | Nederland (NL) | 0,00 | 0.00 | 0.00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0.00 |
| Total | | | | 2.073.803,18 | | | 1.382.535,46 | 0,00 | 0,00 | 1.382.535,46 | 3.456.338,64 | 100.00 |

D.2 Overview partner / cost category

| Partner number | Organisation abbreviation | Country (click in cell to access drop-down list) | Staff cost | Office and administrative costs | Travel and accommodation | External expertise and services | Equipment | Infrastructure and works | Other costs | Lump sum | Total eligible budget |
|-------------------|------------------------------|--|--------------|---------------------------------|--------------------------|---------------------------------|-----------|-----------------------------|-------------|-------------|-----------------------------|
| LP1 | LHS | Deutschland (DE) | 428.000,00 | 64.200,00 | 25.680,00 | 426.000,00 | 0,00 | 0,00 | 0,00 | 0,00 | 943.880,00 |
| PP2 | USTUTT | Deutschland (DE) | 707.083,18 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 282.833,27 | 0,00 | 989.916,45 |
| PP3 | TUDO | Deutschland (DE) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| PP4 | BRGM | France (FR) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| PP5 | CALL | France (FR) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| PP6 | VBX | Belgique/België (BE) | 685.592,20 | 102.838,83 | 41.135,53 | 7.500,00 | 10.000,00 | 312.253,78 | 0,00 | 0,00 | 1.159.320,34 |
| PP7 | CZ-CS | Belgique/België (BE) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| PP8 | ULB | Belgique/België (BE) | 294.563,52 | 44.184,52 | 17.673,81 | 2.800,00 | 4.000,00 | 0,00 | 0,00 | 0,00 | 363.221,85 |
| PP9 | Zwolle | Nederland (NL) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| PP10 | Deltares | Nederland (NL) | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 | 0,00 |
| Total | | | 2.115.238,90 | 211.223,35 | 84.489,34 | 436.300,00 | 14.000,00 | 312.253,78 | 282.833,27 | 0,00 | 3.456.338,64 |