URBAN GreenUP

D1.16: Second Methodology Validation

WP 1 , T 1.10

Date of document

September 2020 (M40)

Technical References

Project Acronym	**URBAN GreenUP**
Project Title	New Strategy for Re-Naturing Cities through Nature-Based Solutions – URBAN GreenUP
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[1] PU = Public

PP = Restricted to other programme participants (including the Commission Services)

RE = Restricted to a group specified by the consortium (including the Commission Services)

CO = Confidential, only for members of the consortium (including the Commission Services)

Versions

Version	Person	Partner	Date
01	Magdalena Rozanska	ACC ING	12 November 2018
02	WP1 partners	All	17 December 2018
03	Magdalena Rozanska, Ana Contreras Escribano	ACC ING	28 January 2019
04	Nuria García, Raúl Sánchez	CAR	28 January 2019
05	Magdalena Rozanska	ACC ING	31 January 2019
06	Magdalena Rozanska	ACC ING	06 July 2020
06	WP1 partners discussion	All	15 July 2020
07	Magdalena Rozanska	ACC ING	25 September 2020
08	José Fermoso Domínguez, Esther San José Carreras	CAR	30 January 2019
09	Magdalena Rozanska	ACC ING	30 September 2020
09	Raúl Sánchez	CAR	30 September 2020

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0   Background

The aim of this report is to provide a useful guide to the validation methods of the URBAN GreenUP methodology for the Renaturing Urban Planning concept (RUP). It incorporates the validation proposal to the urban planning aspects directly related to NBS as a part of the Sustainable Urban Planning (SUP), but also to the processes on implementation of one or a set of NBS in a specific area of the city, and finally to deliver the valuable and realistic methodology.

The document explains the GreenUP methodology validation principles and presents its possible methods and focus. In continuation, it provides the validation specific concept definition and includes the descriptions of the main activities improved. The validation proofs the URBAN GreenUP methodology processes proposed and specifies the most important components. It also proposes the validation Committee, linking this one to the activities on methodology social aspects, in continuation improving the same all methodology replication aspects given.

*At this stage of the project (M40), the report D1.16 corresponds the methodology internal validation method and its results. The last validation to be performed during the third and last project stage, according to the feedback gathered from an external stakeholders and city cluster considered in WP6. It will be presented into the report D1.17, together with the final picture to the URBAN GreenUP re-nturing methodology (M60).

1 Introduction

1.1 What is the GreenUP validation?

The URBAN GreenUP methodology is a holistic and complex process, the systematic strategy to reach high level of impacts for climate change mitigation and efficient water management, takes into account a numerous and complex process analysis that are linked between them. The prioritization of the processes, and all aspects related to them, are not always easy to be considered by one singular team of developers.

The validation works in this case as a kind of the "methodology certification", proving its high quality and accuracy of all contents, technical, logistic components, and workflow between them. In order to validate the URBAN GreenUP methodology, and to improve its value, different validation activities are considered during the methodology development process.

1.2 What is the focus of the validation?

URBAN GreenUP aims at the development of a methodology to support the re-naturing of cities increasing the capabilities of local authorities and stakeholders to reach a better implementation of NBS as main priority to mitigate the effects of climate change. The process of methodology development, what follow its validation, focusing two relevant technical aspects of re-naturing:

- Assist to co-develop the **Renaturing Urban Plans (RUPs)** on harmonization and systematization of existing information, creation of procedures to consider not only individual solutions but also integrated approaches going further than technical issues considering as well social and economic aspects as essential to achieve high impact.
- Supporting **co-implementation of NBS** in specific areas, what requires support guidelines, procedures and tools, in order to guarantee that the selected solutions are appropriate on the basis of a predefined expected impact.

The methodology, conceived as a collaborative strategy, supporting the stakeholder´s engagement, from the initial diagnosis to the NBS deployment and evaluation, following innovative co-creation and open innovation strategies. Those same actors are involved during the methodology validation process.

In addition, a set of advanced techniques will be used to assess the impact of the interventions, using the main Key Performance Indicators (KPIs) and rigorous evaluation procedures, paying special attention to get maximum social engagement and acceptance. It is foreseen that the follower cities (Mantova, Ludwigsburg, Quy Nhon, Chengdu and Medellin) will validate this methodology developing their own RUPs and integrating them in the City Strategic Urban Planning. The front-runner cities (Valladolid, Liverpool and Izmir) will validate the second level of the methodology, implementing several pilots of integrated NBS in a large scale demonstration action focused on contributing to the main city challenges.

1.3 Methodology main components to be validated

Methodology validation is strongly dependent the level of the development reached for the methodology specific components (catalogues, guides) and processes (diagnosis, plan, and implementation). The current level of the developments corresponding the second project-reporting period, and the level of developments associated to the deliveries, see indicated below.

Table 1.1: Methodology components development by project reporting stages.

Methodology Component:	1ST reporting period	2ND reporting period	3RD reporting period	Final Reporting
NBS Catalogue *(URBAN GreenUP D1.1)*	**Delivered May 2018**	√ available	√ available	√ available
Societal Challenge Catalogue *(URBAN GreenUP D1.2)*	**Delivered July 2018**	√ available	√ available	√ available
Barriers and Boundaries Guide *(URBAN GreenUP D1.5)*	**Delivered July 2018**	√ available	√ available	√ available
Diagnosis procedure Guide *(URBAN GreenUP D1.3)*	Started	On-going	**Delivered September 2020**	√ available
Baseline Calculation Guide *(URBAN GreenUP D1.4)*	First outline only	On-going	**Delivered September 2020**	√ available
Zoning and Mapping Guide *(URBAN GreenUP D1.6)*	On-going	**Delivered May 2020**	√ available	√ available
NBS scenarios generation Tool *(URBAN GreenUP D1.7)* **with KPIs prioritization criteria Guide** *(URBAN GreenUP D1.8)*	On-going	On-going	**Delivered September 2020**	√ available
Tendering Process Guide *(URBAN GreenUP D1.9)*	First outline only	On-going	To be delivered December 2020	√ available
Scaling UP Guide *(URBAN GreenUP D1.10 with interim version D1.18)*	First outline only	On-going	**Delivered September 2020 (Interim Version D1.18)**	**To be delivered May 2022 Final Version (D1.10)**
Co-creation and Co-development Guide *(URBAN GreenUP D1.11 with interim version D1.19)*	First outline only	**Delivered November 2019 (Interim Version D1.19)**		**To be delivered May 2022 Final Version (D1.11)**
Methodology Guide *(URBAN GreenUP D1.17 with interim versions D1.12, D1.13, D1.14)*	First outline only	**Delivered January 2019 (Interim D1.12)**	Delivered July 2020 (Interim D1.13)	**To be delivered May 2022 Final Version (D1.14, D1.17)**

Out of the WP1, the activities focused demonstration (wp2, 3, 4), monitoring and evaluation (wp5), and replication actions (wp6), contribute significantly to the results of the validation.
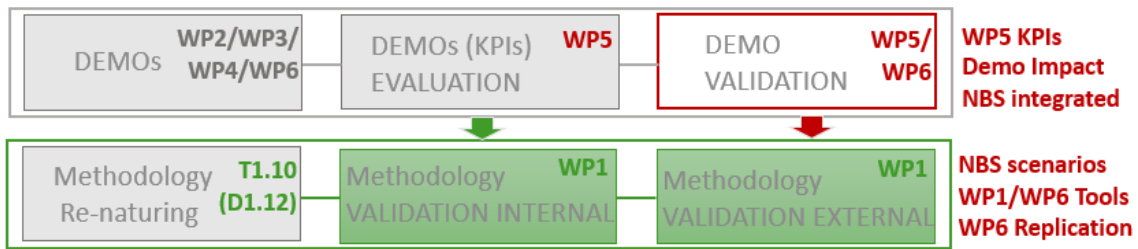
Figure 1.1: URBAN GreenUP validation process from theoretical to empirical

At the first development level, 1st reporting period (month 1-month 18), the key methodology catalogues have been developed. The first methodology structure was defined, describing the main methodology components, and input-output links outlined. The demonstration action have started integrating the NBS solutions identified, the implementation process outlined. At this stage, the list of barriers and boundaries for methodology is identified only. The monitoring, and evaluation strategy outlined, and the key performance indicators listed.

At the second development level, 2nd reporting period (month 19-month 36), all methodology elements are outlined, but only the crucial elements corresponding city diagnosis and NBS Scenarios definition, are at advance stage. The demo cities initiated their NBS implementations and outlined their monitoring strategies, however the data evaluation is still not available. The cities outlined briefly the lessons learnt from their respective processes.

At the final development level, 3rd reporting period (months 37-months 60), all methodology elements development reached the advance stage. **T**he demo cities finalized their implementation and run their monitoring and evaluation. The follower's cities drafted their RUP plans and get into the methodology issued (D1.13).

2   Methodology validation process (update to v1 D1.15)

2.1   Validation steps

The URBAN GreenUP Validation Process objective is to guarantee the RUP (Re-naturning Urban Plan) methodology high value and accuracy, allowing the successful City Planning RUP and the NBS smooth implementation and maintenance, contributing to the Climate Change Challenge of the Cities. The base logic to the validation is proposed:
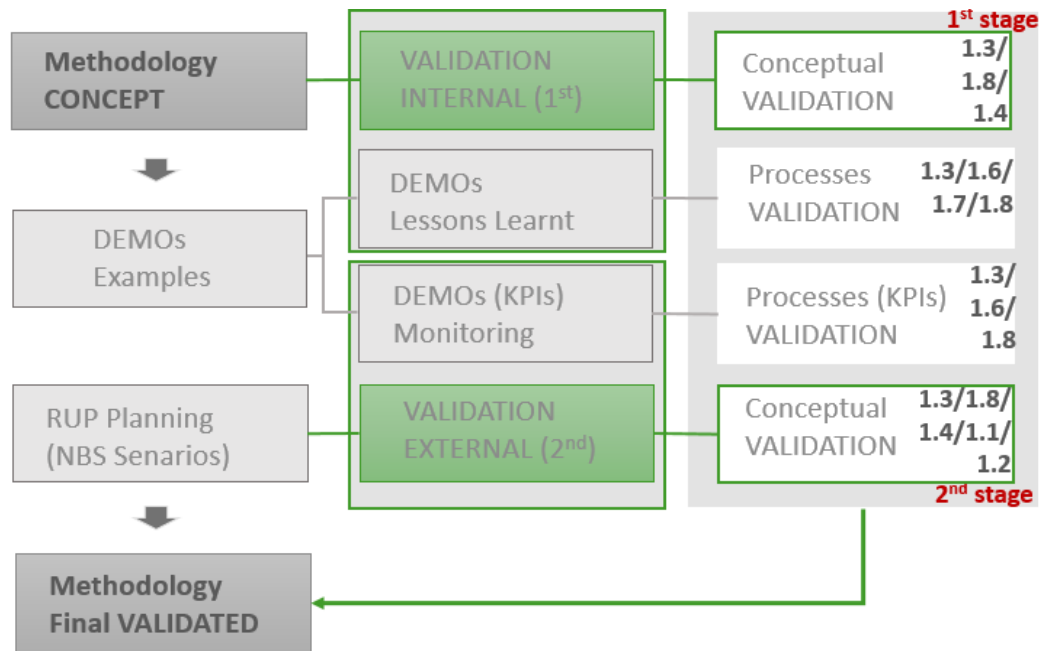
Figure 2.1: URBAN GreenUP validation components

The methodology validation were performed, focussing different methodology aspects:

- **Concept proposed (RUP methodology concept),** where methodology structure is evaluated, its focus to the procedures, the modular character, its steps, implementation phases, and in continuation, the interlinks between both, the main outputs considered and the supporting tools indicated, finally the stakeholder groups, and the first set to the lessons learnt gathered from real demonstration actions according to the procedures needed.
- **Technical background (NBS Scenarios accuracy),** thank to results from implementation actions a large scale and fully replicable demonstration actions of NBS accompanied by innovative business models will provide evidences about the benefits of NBS contributing to the creation of new market opportunities for European companies, and fostering citizen insight and awareness about environmental problems and specific city barriers and boundaries. Two European cities will act as followers to strengthen the replication potential of the results (Ludwigsburg and Mantova) and finally three non-European cities (Medellin, Chengdu and Quy Nhon) will allow to identify the market opportunities for European companies out of Europe and fostering the European leadership in NBS implementation at global level.

- **Implementation background (RUP methodology adoption),** integration between the lessons learnt during the demo process, the results from the validation method procedures (internal and external), all will give the final product on systematized and validated URBAN GreenUP methodology, close to real and different European cases, situation, characteristics, legal and economic situation. It will be checked the integrated way of solving of various problems of the city RUP maintenance and replication. Finally, the step-by-step guide method proposed will be simplified and checked.

2.2   Validation quality

The goal of this part is to discuss and validate the developed methodology, during a systemic process, and involving the relevant stakeholders. The ambition is to provide the deepest and most extensive coverage of expertise and both theoretical and empirical based improvements.
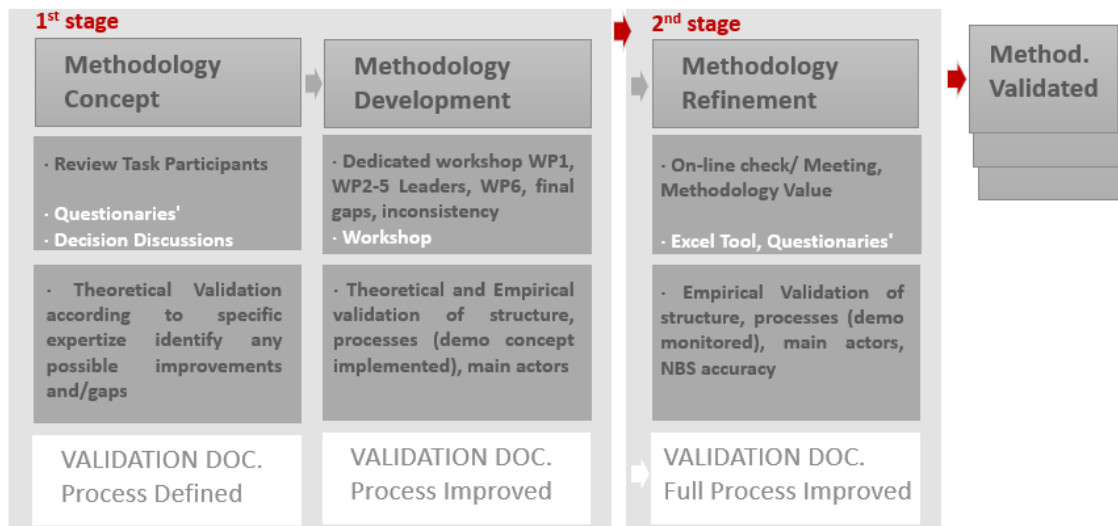
Figure 2.2: URBAN GreenUP validation from internal to external

Firstly, the methodology is validated at qualitative level (theoretical) and then, after the demo execution and evaluation phase, in a quantitative level (empirical).

The first internal stage corresponds to Methodology Concept, both theoretical and then empirical validation, divided in two sub-processes on Methodology Concept and Development.

- **Methodology Concept Validation:** the activity consist on reviewing of the draft methodology version in terms of its structure, processes and workflow between different activities and inputs/outputs generated. The objective is to identify the methodology gaps/inconsistences and to apply the adjustments needed. The method used in this phase are questionaries' and discussions during the regular project calls and meetings. The evaluators are going to be the WP1 Tasks Participants.
- **Methodology Development Validation:** the activity consist on reviewing of the draft methodology version in terms of its structure, processes and workflow but alimented in addition with the lessons learnt from the demonstration process of design and implementation. The objective is to improve the methodology process, and to detail all

its processes and documentation. The method used in this phase is the workshop between different projects WPs. The evaluators are going to be the leaders of the representatives sectors (authorities, industrial, innovation, decision makers…), selected between the project partners.

The second external stage corresponds to Methodology Concept Full Design, where process annexes are developed and the demo results from NBS implementations available, indicated as Methodology Refinement. The evaluators in this case are going to be external stakeholders of the project, or other identified as relevant to the URBAN GreenUP Project (SmartCities Leaders, Citizens).

Table 2.1: Validation Progress cross check, methodology components vs project reporting stages.

Project stages:	1ST reporting period	2ND reporting period	3RD reporting period	Final Reporting
Quality steps	Theoretical	Theoretical/Empirical	Empirical	Market Feedback
Methodology Concept	Internal	Internal	External	EC Commission + Integrated Urban Plan Networking
Methodology Development	-	Internal	Internal	
Methodology Full Design	-	-	Internal	

2.3 Validation methods

The main objective of URBAN GreenUP is the demonstration of an innovative methodology to renaturing cities through piloting different actions, considering advanced technologies towards the adaptation of the cities to fight against the climate change. The methodology that will be developed and validated will foster the replication of the foreseen actions, at different levels, in the follower cities during the project lifetime. In every moment citizens, and the group of relevant stakeholders, are at the heart of a city, the same take part which solutions to be adopted. As a first methodology step, and once identified the key stakeholders groups and their aspirations, the different techniques for engaging these group were considered, as same, some of them directly adopted for methodology validation.

- **Project Brainstorming (project meetings, calls and workshops),** to the methodology Diagnosis and Evaluation processes. To perform a good decision, the first approach is to identify the problem. A city needs requirement process will be followed. In all this process, the active participation of the citizens will be assured.
- **Lessons Learnt (questionaries' and workshops),** through the reports of the key stakeholders. Industry and business partners are essential as technology and

solutions providers. The validation process, apart from industry, will include SMEs, starts-ups and entrepreneurs, but citizens as well along this process to fulfil a shared goal following a collaborative approach.

- **Demo Experience (RUP reporting),** through the demo cases in Valladolid, Liverpool and Izmir. All the technology-based actions, together with the business models and public procurement schemes, are going to be validated. (RUP reporting)
- **Impact Levels (KPIs reporting),** to the methodology Evaluation and Replication at EU level. All interventions will be evaluated through rigorous measurement protocols, monitoring programs and evaluation plans to assess the performance of the solutions envisaged. All these analysis taken from technical perspective, but also economical evaluation to assess the feasability of the proposed technologies.

All validation methods will follow the methodology structure, and a logical process of development, demonstration and validation and refinement of the renaturing methodology.

Table 2.2: Validation method cross check, methodology components vs project reporting stages.

Project stages:	1ST reporting period	2ND reporting period	3RD reporting period	Final Reporting
Method steps	Theoretical	Theoretical/Empirical	Empirical	Market Feedback
Brainstorming	√	√	-	-
Workshops	√	√	√	-
Questionnaire's	-	√	√	√
RUP reporting	-	-	√	√
KPIs reporting	-	-	√	√

2.4 Validation reporting

The background of the methodology developed is to be validated by several experts, at both stages defined. Two main outputs to be generated, according to the validation stage and level of the development of the methodology:

- URBAN GreenUP Methodology Validation Lunched at Conceptual and Development Level Internally (D1.15 First Methodology Validation)
- URBAN GreenUP Methodology Validated at Conceptual and Development Level Internally (D1.16 Methodology Validation Interim)
- URBAN GreenUP Methodology Validated in All its aspects (D1.17 Final Methodology Validation)

Table 2.3: Validation reporting, methodology development vs project reporting stages.

Project stages:	1ST reporting period	2ND reporting period	3RD reporting period	Final Reporting
Methodology Development	**D1.12 on-going**	**D1.13 on-going**	**D1.14 on-going**	Methodology Fully Developed
Methodology Validation	**D1.15**	**D1.16**	**D1.17**	Methodology Fully Validated
Reporting:	√	√	**Tb completed**	**Tb completed**

The URBAN GreenUP methodology, divided in three development stages, and reported in D1.12, D1.13, D1.14 and D1.17 methodology fully developed and validated. The idea was to maintain the methodology report continuously updated with all the project outcomes and lessons learnt coming from the demonstration and replication actions executed along the project. The final version of the methodology, and externally validated, will be delivered at the end of the project (M60).

2.5 Validation committee

At first stage of internal validation, the project partners and experts in different disciplines, which will take part in validation process.

- **Cities public authorities,** the main actors, assuming mayor responsibilities and workload according their commitment. Front-runners (Valladolid, Liverpool and Izmir) are cities advanced in Green Infrastructure and renaturing strategies, as an authority and expert to legalisation issues, will provide comments to those matters at regional but also European level.
  Five followers cities, with a very good geographical, social, economic and climatic complementarity, acting as a followers (Mantova, Ludwigsburg, Medellin, ChengDu and Quy Nhon), will provide comments to the processes on replication plan and particular challenges for those regions.
- **European Industry,** big companies and SMEs involved as representative, Acciona, Singular Green and GMV in Spain, DEMIR and Bitnet in Turkey and Community Forest in UK represent all together the main targeted expertise, will ensure the validation of the renaturing ecosystems at local levels and functionality of the main methodology processes. CHD, as a main body managing water issues in Valladolid, what will provide high expertise in water challenges.

- **Knowledge entities,** CARTIF, CENTA, Univ. of Liverpool, Ege Univ, Izmir Institute of Tech, Leitat, U.Bocconi, RMIT and SPI, will provide an expertise from technical implementation to the evaluation processes.

At second stage of external validation, the project non-linked partners are going to be defined to evaluate the main processes of the methodology, and to propose the improvements of their main catalogues and guides.

- **City methodology experts,** smart city projects like Remourban, Cityfied, Smartencity, R2Cities…other potential Smarcity Projects or platforms
- **Citizens,** public view to the actions of URBAN GreenUP in their city

The Front-runner and Lighthouse cities, as the main methodology clients, will confirm the final methodology value and accuracy as well.

In the present document, some key questions methodology aspects have been listed, with the objective to guide the validation improvement of the methodology accuracy and value. After every validation stage, as a result, the additional inputs and comments are to be included into the methodology descriptions and structure **(See Annex 4.1.1).**

3   Methodology validation exercises

3.1   Methodology background

At this stage of the project (M40) the second report on the methodology development was presented. This report (D1.13) extends the methodology and structure drafted initially in report D1.12 (M20). In this second report, the WP1 methodology structure has been revised to align fully with the one proposed in WP6 Replication. The concept was validated internally with the project partners through the joint WP1 and WP6 workshop.

The methodology report D1.13 explains the different phases and steps of the methodology. It indicates clearly the objectives of each of actions needed and list all of the outputs considered. It outlines the methodology and defines the specific concepts used in this process, which includes a step-by-step guide to the main processes involved in the methodology. All the processes and actions, when linked together, enable cities to meet the main objective, which is Re-Naturing urban areas with NBS. **To support the validation process, and easily get into the methodology different steps and actions, the executive document report was prepared (See Annex 4.1.2).**

Table 3.1: Graph to the methodology main components by phases, steps, actions and RUP chapters (Source: URBAN GreenUP).

How to start?	1st. Understand your present	2nd. Choose your future aspirations	3rd. Integrate RUP and keep	"Renaturing Urban Plan"
A. Engage and Co-create	Action 1A. Identify and involve stakeholders	Action 2A. Prepare for co-delivery		Chapter I. Introduction to Re-naturing
B. Explore	Action 1B. Understand your "city" needs	Action 2B. Choose your "city" targets	Action 3B. Prepare RUP Plan integration into the Urban Plans of Local Municipality	Chapter II. City Targets
C. Diagnose	Action1C. Understand your "city" capacity	Action 2C. Evaluate NBS Scenarios and select one	Action 3C. Define list of NBS Projects and Actions	Chapter III. City NBS Adopted Scenarios
D. Visualize	Action 1D. Map challenges	Action 2D. Set spatial priorities for NBS	Action 3D. Prepare assessment of the Impact and Risk	Chapter IV. City Impact
E. Plan	Action 1E. Establish Baselines	Action 2E. Choose how success will be monitored	Action 3E. Prepare the Up-scale Plan	Chapter V. Monitoring Program and Action Plan
F. Inform	Action 1F. Promote the initiative	Action 2F. Publish the RUP	Action 3F. Define budget, roles and responsibilities	Chapter VI. Roles and Responsibilities
A. Engage and Co-create	Action 3A. Assess lessons learnt and validate the strategy			Chapter VII. Processes and reforms

3.2   Validation process adopted

The methodology consists of **18 actions**, organized in **phases (1- 3)**, and **strategic steps (A- F)** that leads to the creation of the "Renaturing Urban Plan" (RUP) of the city. The phases deal with the maturity of the objective of the re-naturing in time (from present to future); while the steps develops the specific, technical components of the methodology process (from engagement to plan).

Table 3.2: Methodology structure under validation presented by phases and steps.

Actions organized at horizontal axis by phases:	Actions organized at vertical axis by steps:
i. **Understand your present** ii. **Choose your future aspirations** iii. **Integrate RUP and keep**	A. Engage and Co-create B. Explore C. Diagnose D. Visualize E. Plan F. Inform

Depending on the current status of each municipality, the point of departure can vary as some methodological steps might have been previously completed as part of other planning processes. In addition, the way of following of the methodology by different re-naturing team may vary. They may choose to follow it vertically or mainly in horizontal order. One of the important analysis consist in evaluation of the current situation regarding this process.

During the methodology development process different actions have been implemented:

Table 3.3: Validation progress achieved by project reporting periods.

	Validation Progress	Stakeholders Involved
1st	The validation process is defined, in division to internal and external, the guide to the methods and the stakeholders groups are indicated.	Internal stakeholders groups.
2nd	The validation of the methodology started, applying the internal meeting-calls, workshops, and surveys at internal level, improving the process.	Internal stakeholders groups.
3rd	The validation of the methodology is completed at the internal level, and may be lunched to the external publics. The strategic actions may be taken, including the workshops and surveys at external level, improving the full methodology process.	External stakeholders groups.
Final Review	The methodology development and validation is completed.	EC Commission, Market feedback

3.3   Validation methods adopted

The interactive session where cities worked with the joint WP1:WP6 methodology for RUP development, engaging directly with key steps of the process and sharing their experiences and learn from each other. The discussion allowed the improvement of the methodology structure, accuracy, definitions used, the same it concluded with the validation of the one common URBAN GreenUP methodology vision.

The methods selected for validation at this stage are:

Project Meetings Validation Sessions, Calls: During the project WPS1, regular monthly calls, where methodology development aspects discussed and agreed.

Project Workshops: The WP1 validation workshops (in link to other WPs 2-4 demo, 5 – monitoring, 6 – replication), according the methodology crucial aspects (concept and outline). The workshop included the exercise activities, brainstorming, decision voting.

Accuracy questionnaires: The key questions summaries prepared, containing list of question and answers voted and evaluated, in reference to the Methodology Concept and Structure, assessed thanks to lessons learnt in Demo Design process and implementation.

Experiences Reports Demo Evaluation (KPIs): on-line questionnaires, or/and telephone questionnaire in reference to the demo evaluated (KPIs) and their impact as well as demo Interventions (Public Votes). Still to be planned.

Project Workshops: The WP1 validation workshops (in link to other WPs 7 and 8) concerning the exploitation face of the methodology. Still to be planned.

The validation progress is summarized into the table in continuation.

Table 3.4: Validation Progress cross check, methodology components vs project reporting stages.

Project stages:	1ST reporting period	2ND reporting period	3RD reporting period	Final Reporting
Quality steps	Theoretical	Theoretical/Empirical	Empirical	Market Feedback
Methodology Concept	Calls/Meeting Brainstorming of methodology main components, inputs-outputs	**Workshop session for WP1:WP6 methodology alignment** **Short exercise to diagnosis step.**	tbd	tbd
Methodology Development	-	**Workshop session for WP1, D1.13 Guide Validation.** **Methodology Surveys.** Quick survey to methodology structure and outline proposed. Extended survey to methodology contents by steps and actions.	tbd	tbd
Methodology Full Design	-	-	tbd	

3.4   Validation results – internal validation

3.4.1   Workshop session for WP1:WP6 methodology alignment

The first workshop for methodology validation was executed in form of an interactive session where cities worked with the joint WP1:WP6 methodology for RUP development, engaging

directly with key steps of the process to share their experiences and learn from each other. The discussion allowed the improvement of the methodology structure, accuracy, definitions used, the same concluded with the validation of the one common URBAN GreenUP methodology vision.

The methodology structure was improved, and trying to get the common answers to the pending questions on methodology conceptualization: What will your RUP look like?/ How did you decide what was possible and consider your options?/ How did you identify and engage stakeholders?/ How to integrate the WP5, WP6, WP7, WP8.
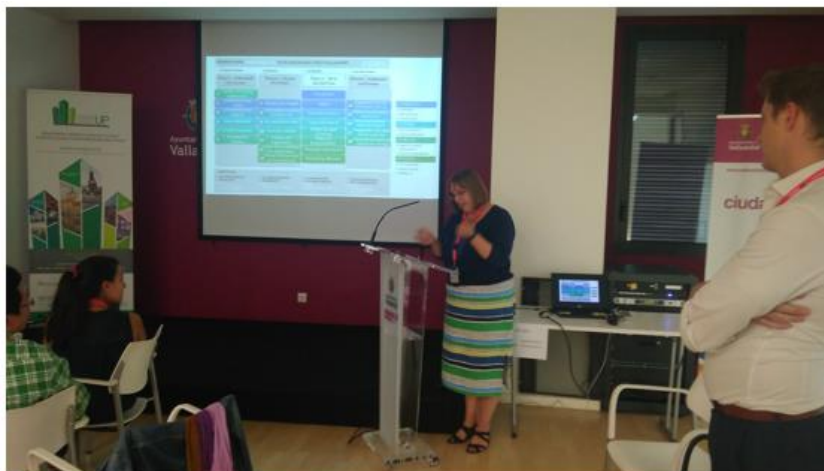
Figure 3.1: URBAN GreenUP workshop WP1:WP6 methodology validation session during the Project Meeting, Valladolid, 2019.

Workshop Program

See attached into the Annexes (See Annex 4.1.2).

Intro and objectives:

The interactive session where cities worked with the joint WP1:WP6 methodology for RUP development, engaging directly with key steps of the process and sharing their experiences and learn from each other. The discussion allowed the improvement of the methodology structure, accuracy, definitions used, the same it concluded with the validation of the one common URBAN GreenUP methodology vision.

Stakeholders: outline workshop plan and prep room by moving to tables:

Table 1: Liverpoool, Quy Nhon, Ludwigsburg

Table2: Izmir, Mantova

Table 3: Valladolid, Medellín

Icebreaker: What will your RUP look like?

Table 1. RUP is the evident –based plan for NBSs. What is the most important aspect is the flexibility and power (?).

Table 2. RUP is part of general urban plan in particular it is related with multifunctional services and rules. The way would be to make the RUP compulsory.

Table 3. RUP is a multilateral green planning tool (urban and rural), a multiscale level. It is important to keep it in time regardless of the government. It is important to generate the one vision long term, articulating the territorial planning.

Table session 1: diagnosis (SWOT based) analysis – How did you decide what was possible and consider your options?

Table 1. Diagnosis Example

> **Objectives:** Heat island
>
> **Solutions:** More trees
>
> **Strengths**: Cooling and Shading
>
> **Weakness:** Take time, hard to plant in the city
>
> **Treats:** Not enough space in the city, Budget
>
> **Opportunity:** use containers above ground, movable, switchable/ for safety (?) the best

Table 2. Diagnosis Example

> **Objectives:** Improvement of air quality
>
> **Solutions:** Green pathways, mobile forest
>
> **Strengths:** heaving roads easy to move easy to apply in historical cities
>
> **Weakness:** Legal, historical areas expensive to maintain
>
> **Treats**: Safety Vandalism
>
> **Opportunity:** Green Awareness

Table 3. Diagnosis Example

> **Objectives:** Improvement of air quality
>
> **Solutions:** Urban Garden Bio-filter, and arboreal around urban areas
>
> **Strengths:** Re-utilization, multifunctional open spaces, high filtration capacity through surface

Weakness: Elevated costs of implementation and maintenance, administrative

Treats: Lack of maintenance

Opportunity: Valorization of health improvement, job creation through new services

Table session 2: How did you identify and engage stakeholders?

Table 1. Solution Example

It is important at least to keep them informed, create "Friends Group", and use social media, monitoring. If you want to obtain more, you have to be their advocate "Best Friend". Tailoring the message for each quartile. Review, and review at each.

Table2. Solution Example

It is important to keep them informed, share the technical expertise, and it is important to do that from early beginning. Through the meetings, focus groups meetings, surveys.

Table 3. Solution Example

Three groups be defined, city council, citizens, business related. The information distributed through database consulting socializing. The involvement has much importance as due to the afterword responsibility and identity with the city or district.

Closing roundtable: Integrating WP5, WP6, WP7, WP8

The interaction between all the WPs is established, where the knowledge gathered in different WPs can cover different methodologies' parts:

WP5: establishment of the baselines (KPIs associated) (step5), monitoring principles (step 13), strategy validation (step17)

WP6: identification and involvement of the stakeholders (step1), understanding of the city needs (step2), promoting the initiative principles (step6), preparing the co-delivery with stakeholders (step12), integrating RUP plan principles (step14), preparing the next steps and up-scaling (step 18)

WP7: understanding the capacity from financial and exploitation point of view (step3), financial analysis (step 10), preparing the next steps and up-scaling from service and exploitation point of view (step18)

WP8: promoting the initiative principles (step6), advertising the list of projects and actions principles (step15)

Workshop Validation Results

The WP1 and WP6 workshop meeting have concluded with the following messages.

T1.10 – the methodology alignment done, between the WP1 and WP6, looking for methodology outline friendlier and its structure simplified. The collaborative actions to WP5, 7, 8 planned and consulted with WP leaders.

The methodology divided in 4 phases, 1. Understand the Present, 2. Choose the Future, 3. Write the RUP Plan, 4. Integrate and Keep, and 18 steps corresponding phases as above, with aim concluding with the step by step city process to get the RUP integrated into the local municipality planning. Beginning now, each step of the methodology it is going be defined in detail, assuming its structure may be re-organized/simplified still.
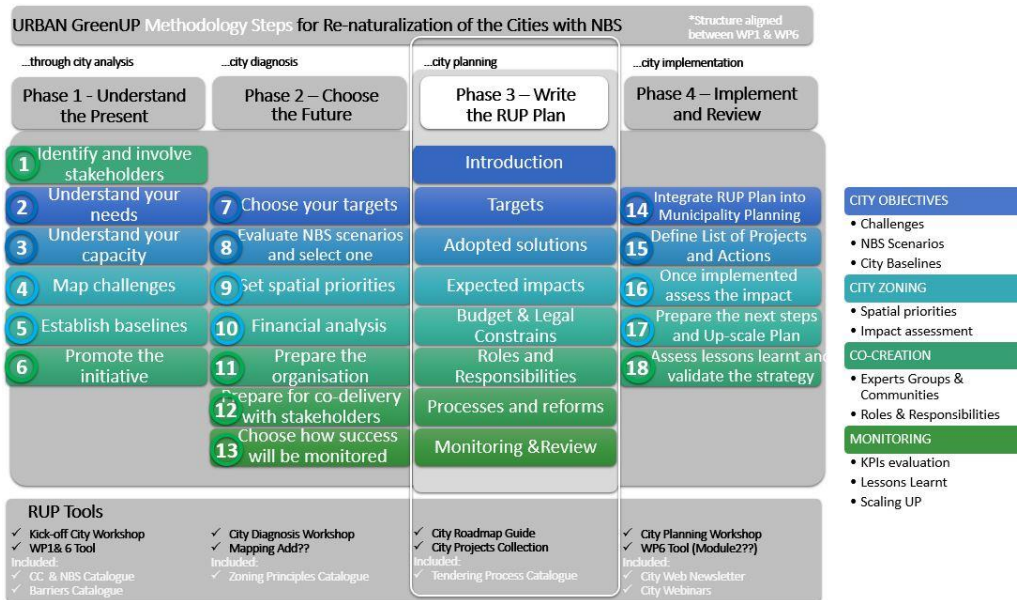

Figure 3.2: URBAN GreenUP methodology picture validated, Valladolid, 2019.

T1.3 –progress to the diagnosis process done, taking advantage of the SWOT principles, and linking the city challenges and NBS to the potential barriers and future city opportunities. In addition, the link to the tool´s matrix analyzed so far.

T1.5 –progress to the zoning process done, identifying the role of the zoning and mapping into the methodology process, and assigning it to the diagnosis and impact steps. As a next step, the potential assets to the NBS going be defined, determining the functionality, and identifying the areas of city needs (pinch points).

T1.6 –progress to the NBS scenarios generation tool done, the matrix CC vs NBS proposed, including the evaluation of the potential impact of each NBS to the CC and CC sub-challenge as well. The tool is able now to list the NBS according to each CC. Future improvements planned, a part of attaching the barriers evaluation, checking also the zoning and mapping features attachment.

T1.9 –progress to the definition of the co-creation aspects, a set of co-creation approaches that cities may wish to replicate, and preparation of the template for planning of co-creation.

Two tasks, T1.7 and T1.8 according to the legal and up-scaling aspects, it is pending be opened still, and once the previous work is finally defined.

3.4.2 Workshop session making the WP1 methodology user-friendly

Internal workshop regarding WP1 activities was organized. The workshop aims to provide partners with the capability to show how it is possible to use the URBAN GreenUP methodology in an easy way.

Workshop Program

See attached into the Annexes Quick Validation Form (See Annex 4.1.3).

Intro and objectives:

The interactive session where cities worked with the WP1 Renaturing Urban Planning Process assessment, according to the methodology-updated guide (D1.13), analyzing the methodology user-friendly aspects improvement.

Quick Validation Survey, Key questions?

The survey was prepared in advance, according the quick methodology validation, see attached into Annexes (See Annex 4.1.4).

1. Is it helpful to have a vertical and horizontal grid layout?
2. Is the current number of steps good?
3. Does the sequence make sense?
4. Do you find useful the tools included?
5. Overall: do you find the methodology useful in your city?

Stakeholder data:

The data analysis was performed, identifying the methodology potential client interest and profile briefly (character, business model on behind and specific NBS interests). In advance, the stakeholders group were identified identifying the potential client profile between the project partners: Municipality Representative, Large Company, SME Designer, Engineer, Service, R&D Designer, Engineer, Service, Demo support Lighthouse, Follower, Technology Provider, NBS Designer, NBS Designer, Marketing.
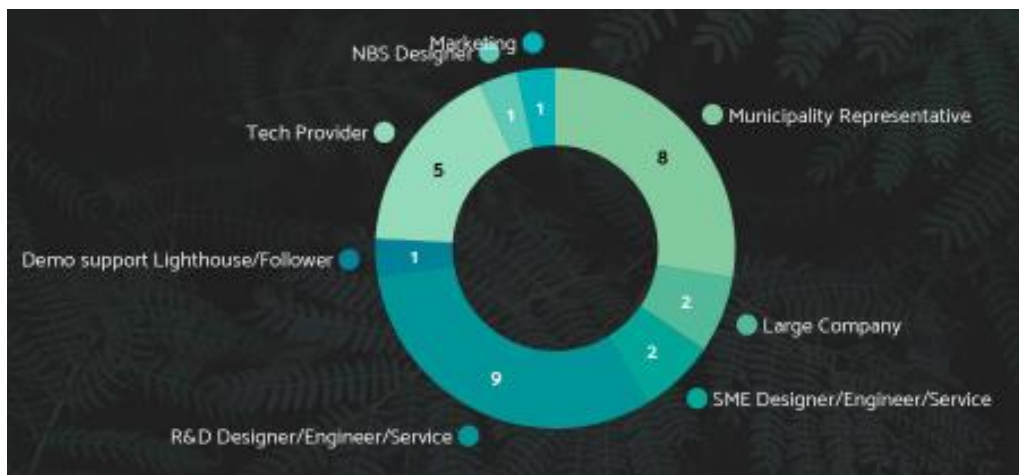

Figure 3.3: URBAN GreenUP stakeholders profile, WS1 on-line, 2020 September.

The specific stakeholder interests were identified: NBS Catalogues service and related, City Challenges and target definition, Diagnosis Process for the cities, NBS Scenario Supporting tools, Monitoring Process and data for the cities, Evaluation Process for the cities, KPIs Information Process and re-naturing legal, other specific (the possibility to tick up to 3 choises).

Choices	Votes
NBS Catalogues service and related	13
City Challenges and target definition	7
Diagnosis Process for the cities	9
NBS Scenario Supporting tools	10
Monitoring Process and data for the cities	12
Evaluation Process for the cities (KPIs)	14
Information Process and re-naturing legal	3

Table session 1: Is it helpful to have a vertical and horizontal grid layout?
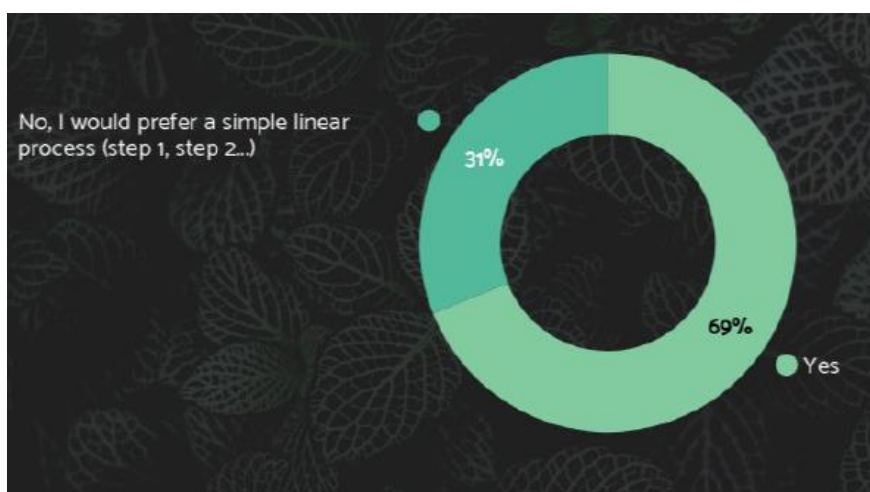

Figure 3.4: URBAN GreenUP stakeholders profile, WS1 on-line, 2020 September.

Table session 2: Is the current number of steps good?

Choices	Votes
Yes	9
I would add more...	1
I would group or remove some steps...	15

Table session 3: Does the sequence make sense?

- I think the order is fine.
- Looks fine
- It is OK.
- Looks fine
- Maybe

- Is fine
- Scaling up more importance?
- looks fine
- looks ok
- Steps may be too reductionist as methodology staeps may not be always sequential
- The order is right
- Happy with it
- A baseline should be part of diagnosis.
- We need fewer pages of text in deliverables, and more rapid appraisal tools. An online decision support tool would be good.

Table session 4: Are there any more tools or templates you need to help you through the process?

Choices	Votes
No, not really, nope, no thanks…similar	8
Yes, I would suggest	12

- Yes, please make a diagram to make it easier to understand
- Decision tree
- Network info. Whibto ask
- Who provides expert support?
- Maybe a full template For the whole process and a kind of algorithm
- decision tree, pareto
- "Yes, brief descripción of each option
- Key options"
- Less text and more simple templates. An online decision support tool and a rapid appraisal tool would be useful
- Decision tree - if not one path what is another that can take - basis of expert system - negates human advice
- Flowchart

Closing roundtable:

- Make it simpler
- Simple overview of process for non experts
- It's fine!
- More understable For general public
- This is just a generic planning process that has been presented in a more complicated way. It doesn't clearly show it's unique contribution or what makes it new.
- Networking with other cities?
- Less words
- I think it should be tested by cities not in the project - the cities who might use it later.
- Make as simple as we can. Good start now we can home it
- it is fine
- simpler and less words

Table session 5: Overall: do you find the methodology useful in your city?
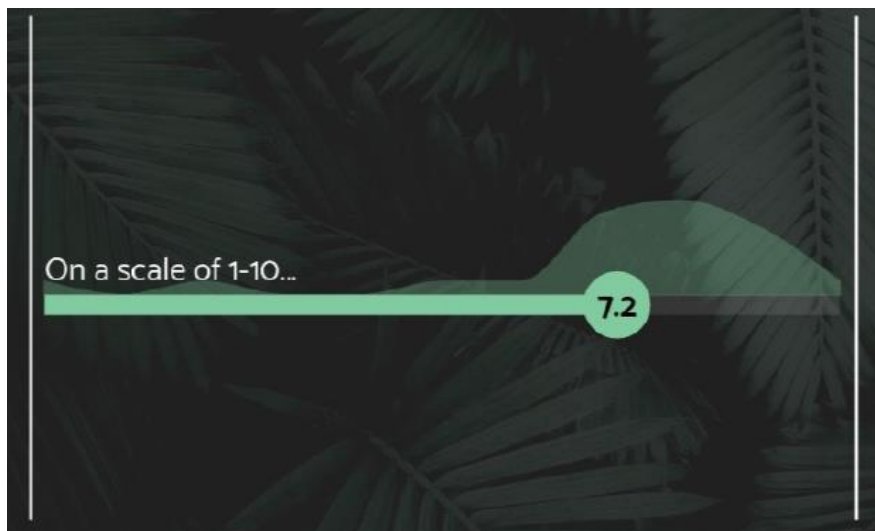
Figure 3.5: URBAN GreenUP methodology validated value, WS1 on-line, 2020 September.

Workshop Validation Results

The WP1 and WP6 workshop meeting have concluded with the following messages.

At this stage of the project (M40) we present the second report on the methodology development. This report (D1.13) extends the methodology and structure drafted initially in report D1.12 (M20). In this second report, the WP1 methodology structure has been revised to align fully with the one proposed in WP6 Replication.

The methodology consists of 18 actions, organized in phases (1- 3), and strategic steps (A- F). The phases deal with the maturity of the objective of the re-naturing in time (from present to future), while the steps develops the specific technical components of the methodology process (from engagement to plan).

Depending on the current status of each municipality, the point of departure can vary as some methodological steps might have been previously completed as part of other planning processes. In addition, the way of following of the methodology by different re-naturing team may vary. They may choose to follow it vertically or mainly in horizontal order. One of the important analysis consist in evaluation of the current situation regarding this process.

Figure 3.6: URBAN GreenUP methodology picture validated, WS1 on-line, 2020 September.

T1.10 – the methodology issued in D1.13 validated with value 7.2 on a scale of 1-10. The correction measures should be still adopted as to the comments indicated into the closing table.

The last validation to be performed during the third and last project stage, according to the feedback gathered from an external stakeholders and city cluster considered in WP6. It will be presented into the report D1.17, together with the final picture to the URBAN GreenUP re-nturing methodology (M60).

3.4.3 Renaturing Urban Planning (RUP) Assestment

Extended Validation Survey, Key questions?

The survey was prepared in advance, according the quick methodology validation, see attached into Annexes (See Annex 4.1.5).

The survey, we have prepared to be interactive and on-line adapted, consists of 28 questions. It is requiring some previous information concerning the methodology main contents. For that reason, the executive summary to methodology concept and main contents was prepared, to allow quick methodology overview (20 pages in pdf document attached!) see attached into Annexes (See Annex 4.1.6).

Intro and objectives:

To continue with our Project WP1 validation, in continuation of the WS1 session our GA this morning (28th September), and the overall aim of the methodology "to support the cities in their local RUP planning", the on-line survey was prepared to gather the feedback allowing the gathering of the answers with two objectives:

- different feedback opinions gathering according to the progress made in local RUP development, and city capacity to adopt it, depending city's different environments, its local city capacities and culture
- the methodology concept and structure proper adjustment and its better adoption in the future, thanks to the link between the methodology structure descriptions and questions given

The stakeholders just followed the link, proposing the multiple answers!

https://docs.google.com/forms/d/e/1FAIpQLSeg8itbI_XCpXY609YvTWAk8j045h_il2r2dmIfLFRL XfWeWQ/viewform?usp=pp_url

Figure 3.7: Survey outline, in continuation to WS1 on-line, 2020 September.

Stakeholder data:

Partners from our front runners and follower cities focused. Being their role in the project as city/municipality representative.

It is also required some previous city base information, allowing the city specification, allowing the stakeholder, and city specific characteristics definition in terms of specific climate, barriers…etc. The survey allowing the empirical answers to be included according the city profile, in cases where the specific analysis still have not been done.

Cities main characteristics

Country:
8 responses
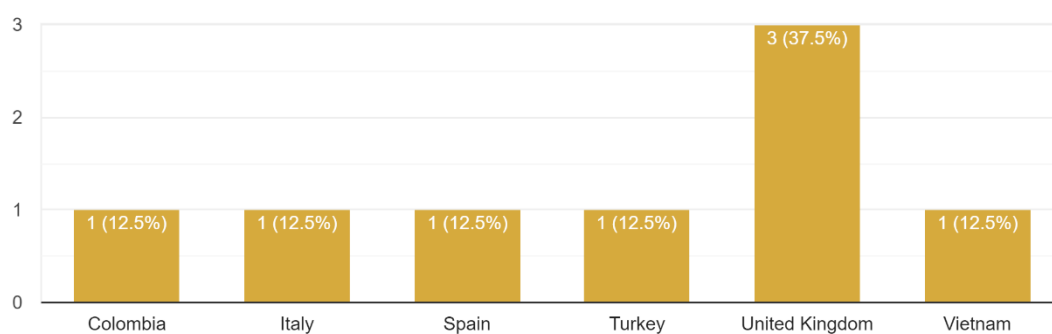
Name of the city:
8 responses
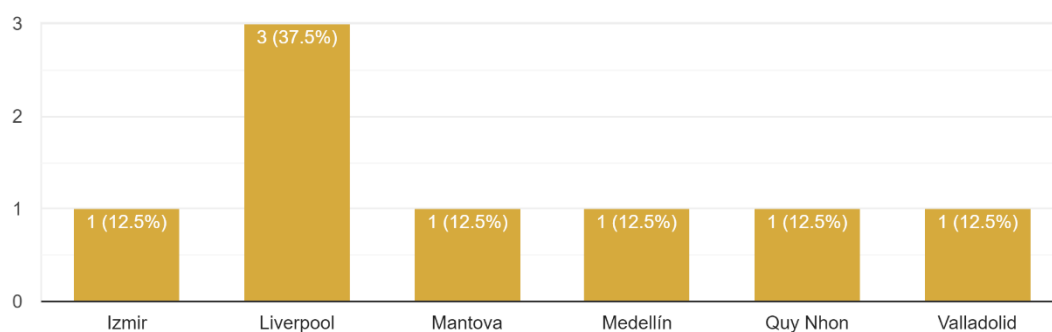
City Climate:*Köppen-Geiger Climatic Zones Classification
8 responses
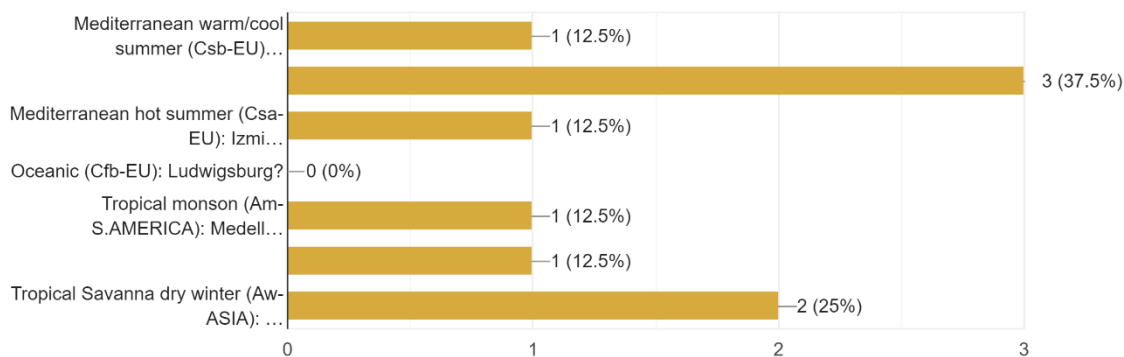
City main barriers:In your feeling, what is the most important barrier in your city, having in mind the innovative growth NBS focused?

8 responses
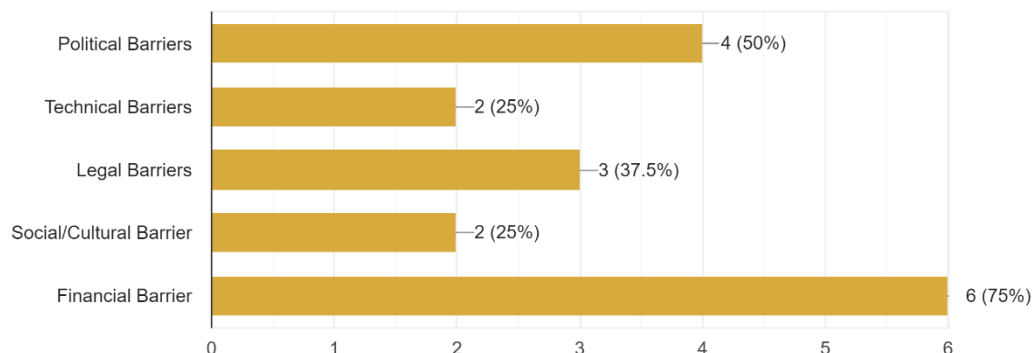
Methodology Assessment by specific steps and actions:

Action 1A dealing with identification and involvement of stakeholders.

1. **Will you have a stakeholder coordination group our panel for your RUP?**

1. Will you have a stakeholder coordination group our panel for your RUP?

8 responses
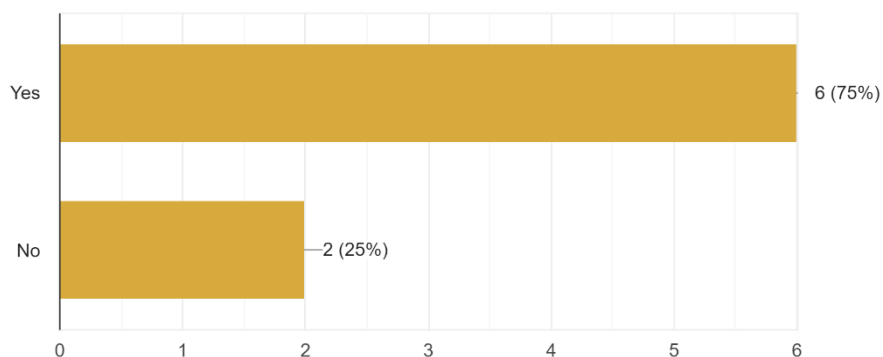
2. **Which groups will you engage?**

2. Which groups will you engage?
8 responses
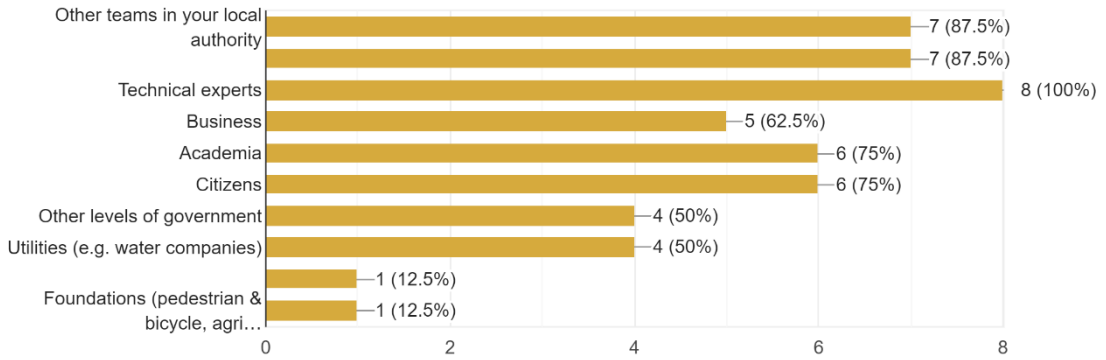
3. Which parts of co-creation plan you find difficult in its execution?

3. Which parts of co-creation plan you find difficult in its execution?
8 responses
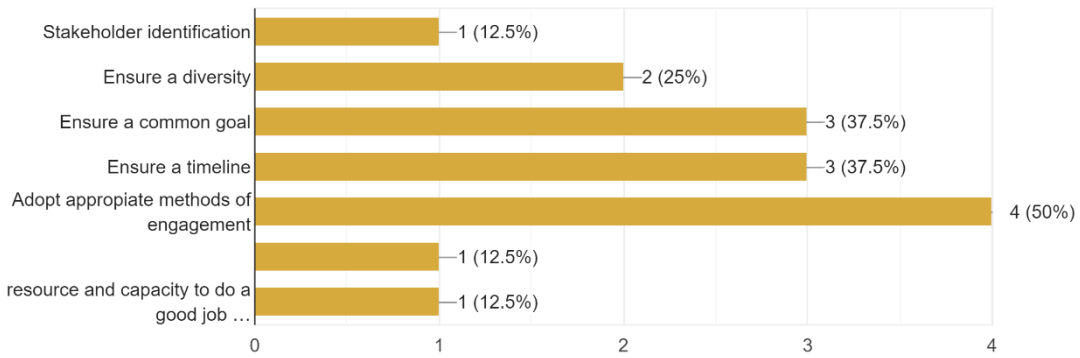
Action 2A of the methodology dealing with preparation for co-delivery.

4. Do you have currently co-creation plan in your municipality?

4. Do you have currently co-creation plan in your municipality?
8 responses
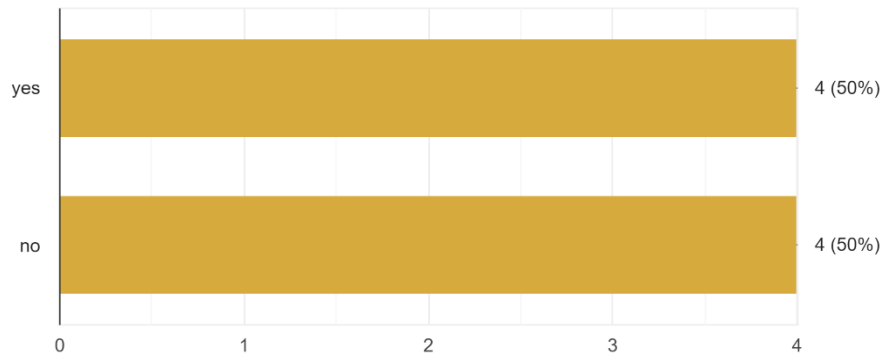
5. **Will you retain this group in the implementation of the plan, or is it mainly for developing the RUP? [Implementation / RUP only]**

5. Will you retain this group in the implementation of the plan, or is it mainly for developing the RUP?

8 responses
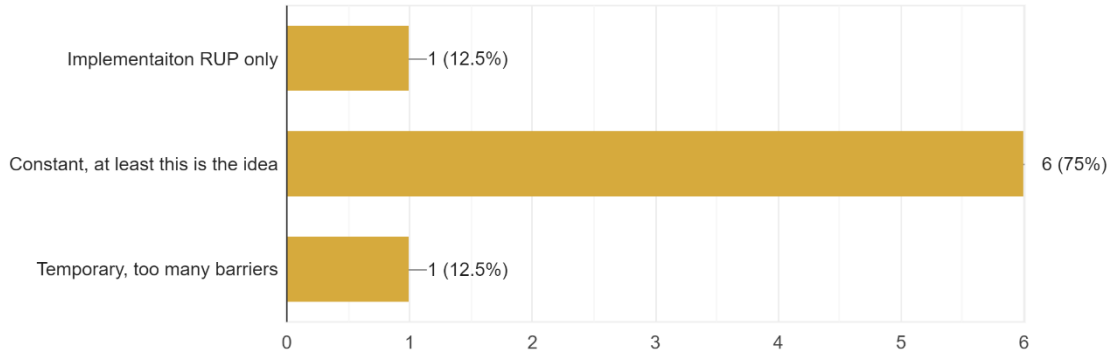
6. **Do you have a clear idea of how you will involve your stakeholders in the RUP development?**

6. Do you have a clear idea of how you will involve your stakeholders in the RUP development?

8 responses
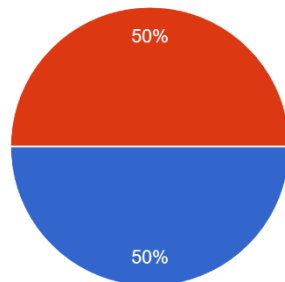
- Mainly in reviewing materials we prepare, and commenting on our decisions
- We will negotiate with stakeholders to make decisions
- We will enable our stakeholders make the decisions

7. **How will you carry out your co-creation activities**

7. How will you carry out your co-creation activities?

8 responses
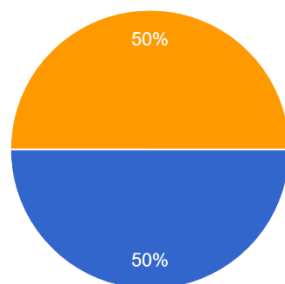
- We will do it ourselves
- We have an internal citizen creation specialist team that will help us
- We have employed specialist firms to help us works with our stakeholders

8. Do you have any preference on how to finance this group?

8. Do you have any preference on how to finance this group?
8 responses

- Fully financed by municipality
- National/ Regional fundings
- EU fundings
- Public-Private

12.5%
12.5%
75%
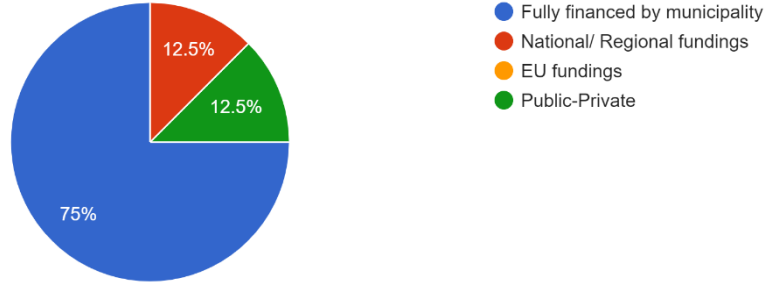
9. Do you think is important the understanding of the value of re-naturing at the beginning?

9. Do you think is important the understanding of the value of re-naturing at the beginning?
8 responses

- Yes, it can be useful to visualise different scenarios
- No, it is obvious the re-naturing is needed
- I don´t have opinion

100%

10. How will you approach understanding and prioritising your city´s NBS needs?

10. How will you approach understanding and prioritising your city´s NBS needs?
8 responses

Asking key experts or stakeholders	4 (50%)
Reviewing existing strategy	5 (62.5%)
Organizing brainstorming/ workshop with …	6 (75%)
Mapping/GIS	6 (75%)
political aspirations	1 (12.5%)
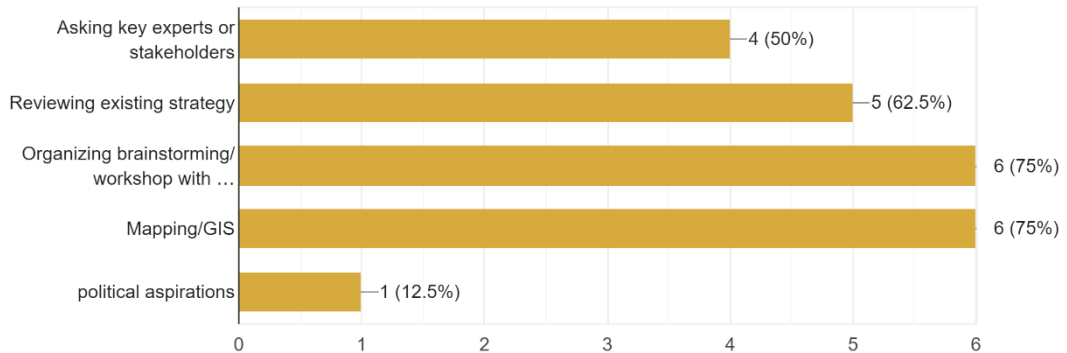
11. How will you present your targets to show what you want to achieve?

11. How will you present your targets to show what you want to achieve?

8 responses
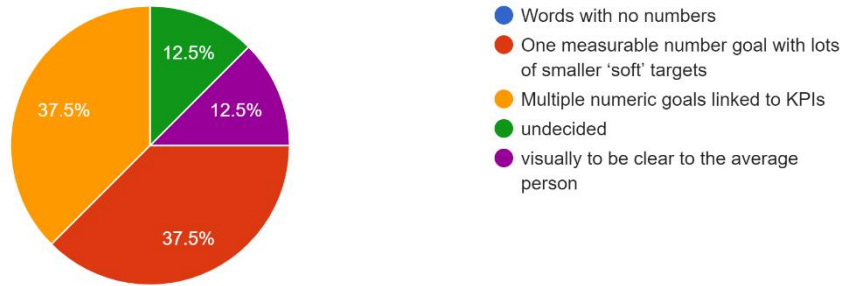
- ● Words with no numbers
- ● One measurable number goal with lots of smaller 'soft' targets
- ● Multiple numeric goals linked to KPIs
- ● undecided
- ● visually to be clear to the average person

12. Do you know how to link the city societal challenges with the NBS that better supporting them?

12. Do you know how to link the city societal challenges with the NBS that better supporting them?

8 responses
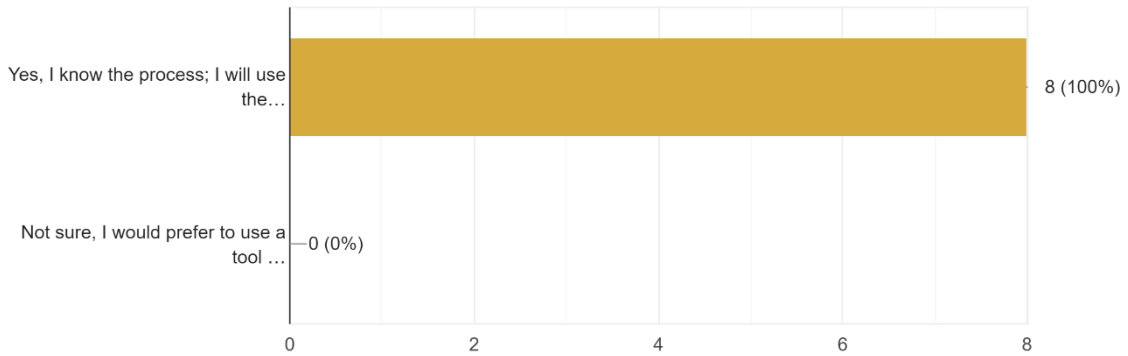
Yes, I know the process; I will use the… — 8 (100%)

Not sure, I would prefer to use a tool … — 0 (0%)

13. Is there any special interest to any group of NBS in your city, independently, those yes or not linked to the city challenges?

13. Is there any special interest to any group of NBS in your city, independently, those yes or not linked to the city challenges?

8 responses
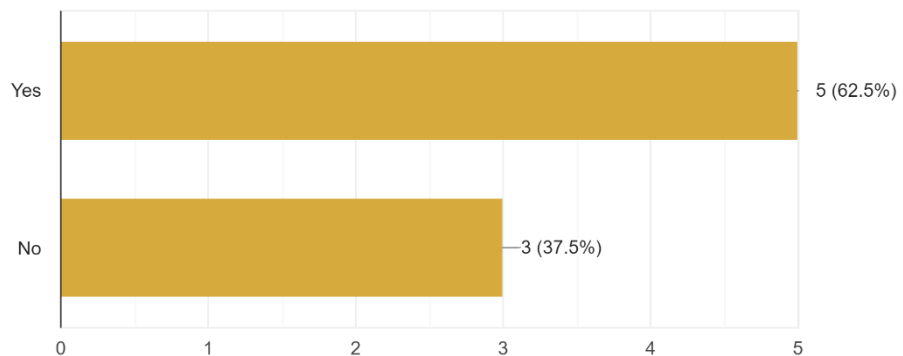
Yes — 5 (62.5%)

No — 3 (37.5%)

Action 3B of the methodology dealing with the preparation of the municipality for integration of the RUP plan.

14. How will your RUP be implemented?

14. How will your RUP be implemented?
8 responses

- The plan will be used to direct a program of works carried out by the local authority
- The plan will add to the city's urban development plan to direct new NBS
- Both

75%
25%
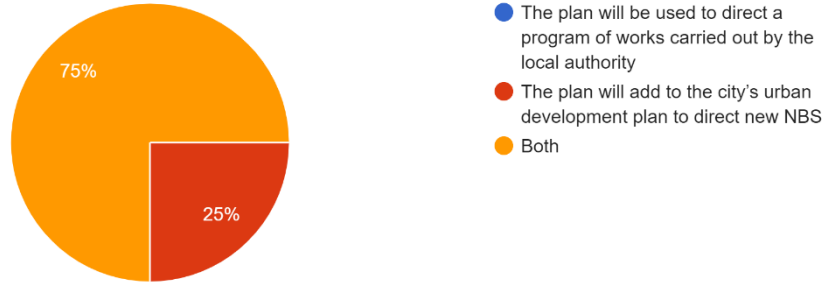
15. Which kind of standards you currently following (included re-naturing)?

15. Which kind of standards are you currently following (included re-naturing)?
8 responses

- Only local standards and normative
- We follow the European standards
- local standards and normative and eupean standards
- question not clear on which types of standards meant ?

12.5%
12.5%
25%
50%
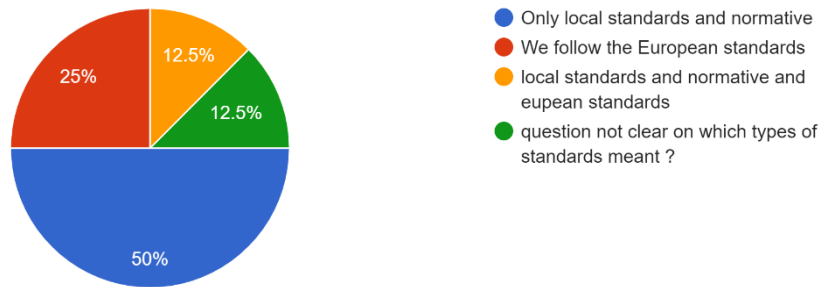
16. What is the most interesting/necessary part for you to be explained?

16. What is the most interesting/necessary part for you to be explained?
8 responses
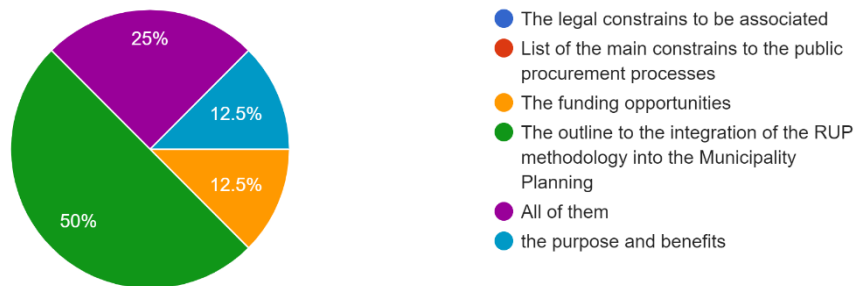
- The legal constrains to be associated
- List of the main constrains to the public procurement processes
- The funding opportunities
- The outline to the integration of the RUP methodology into the Municipality Planning
- All of them
- the purpose and benefits

25%
12.5%
12.5%
50%

Action 1C of the methodology dealing with the city environmental, social and economic profile definition.

17. Have you done a city analysis and diagnosis in connection with the re-naturing aspects?

17. Have you done a city analysis and diagnosis in connection with the re-naturing aspects?
8 responses
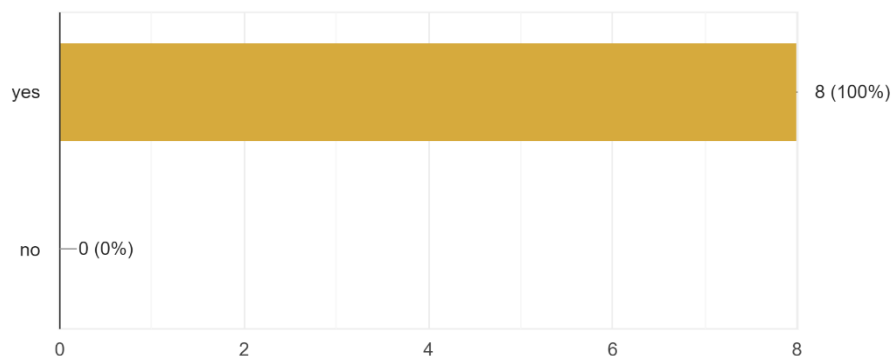
18. If so, what kind of data you use to perform this analysis and diagnosis?

18. If so, what kind of data you use to perform this analysis and diagnosis?
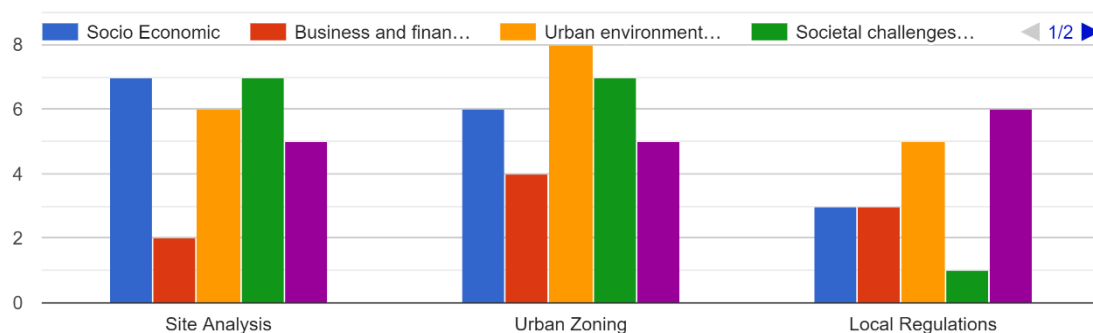
19. Which methods did you use to perform a city diagnosis?

19. Which methods did you use to perform a city diagnosis?
8 responses
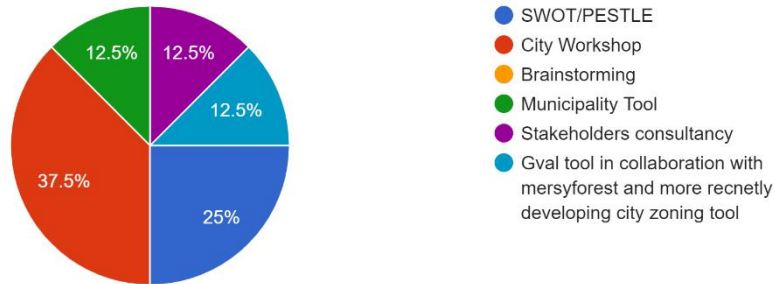
Legend:
- SWOT/PESTLE
- City Workshop
- Brainstorming
- Municipality Tool
- Stakeholders consultancy
- Gval tool in collaboration with mersyforest and more recnetly developing city zoning tool

Pie chart values: 12.5%, 12.5%, 12.5%, 25%, 37.5%

20. Do you generate the potential city scenarios re-naturing/other with use any kind of GIS tool?

20. Do you generate the potential city scenarios re-naturing/other with use any kind of GIS tool?
8 responses
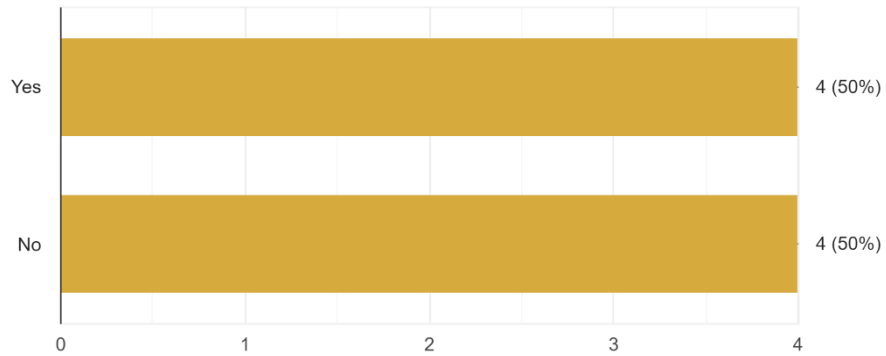
Yes	4 (50%)
No	4 (50%)

Action 1E of the methodology dealing with the establishment of the city baseline condition in the locations where the interventions will be implemented, e.g. within a region, city, or neighbourhood.

21. Have you established city baseline in connection with the re-natuting aspects?

21. Have you established city baseline in connection with the re-natuting aspects?
8 responses

Legend:
- Yes
- No

Pie chart values: 87.5%, 12.5%
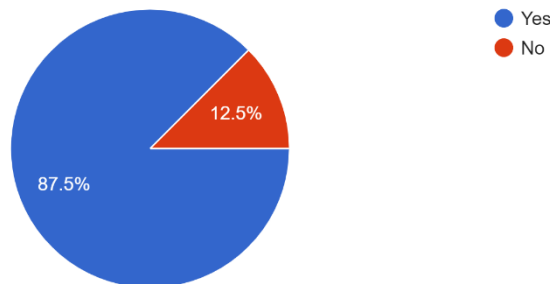
22. If so, what kind of data did you use to perform this analysis and diagnosis?

22. If so, what kind of data did you use to perform this analysis and diagnosis?
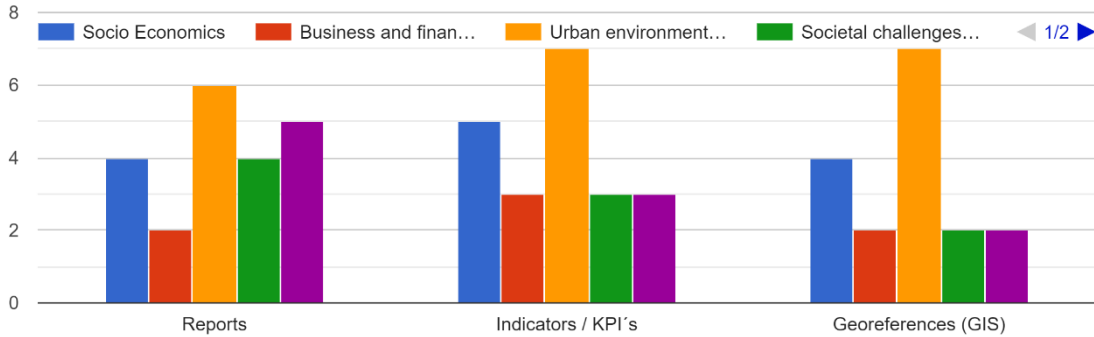
Action 2E of the methodology dealing with KPIs indicators selection and prioritization.

23. Do you collaborate with other cities regarding re-naturing ambition?

23. Do you collaborate with other cities regarding re-naturing ambition?
8 responses
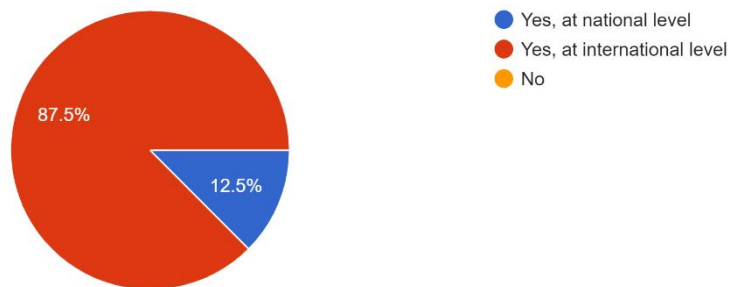
Action 3E of the methodology dealing with the preparation of scaling up plan.

24. Do you have a long-term vision in re-naturing topics?

24. Do you have a long-term vision in re-naturing topics?
8 responses
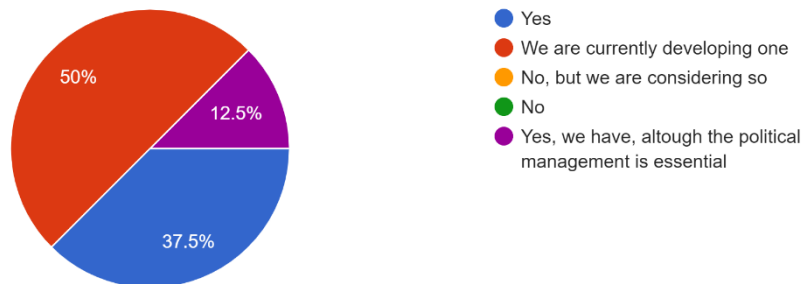
Action 1F-3F. The objective of this step, a part of defining of the information channels for the RUP, is definition of the organizational structure of the Municipality for the implementation and promotion of the RUP.

25. **Does your city have a strategic plan on re-naturing or related?**

25. Does your city have a strategic plan on re-naturing or related?
8 responses
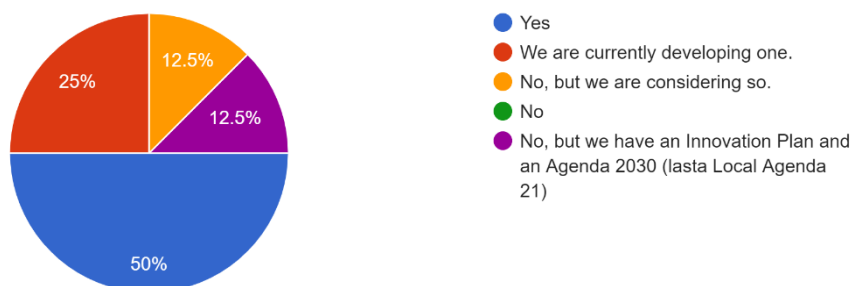
- Yes
- We are currently developing one.
- No, but we are considering so.
- No
- No, but we have an Innovation Plan and an Agenda 2030 (lasta Local Agenda 21)

26. **Is there any procedure to integrate the results of local city initiatives into the Municipal Planning?**

26. Is there any procedure to integrate the results of local city initiatives into the Municipal Planning?
8 responses

- yes
- No
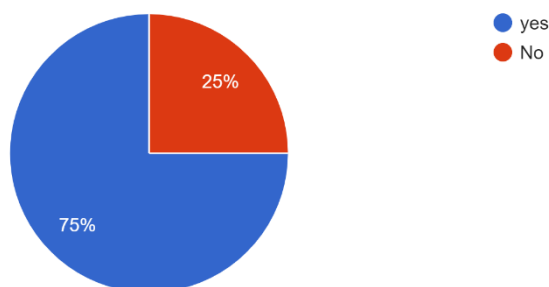
27. **Is there any procedure to integrate the citizens/local public-private comments to the local city initiatives into the Municipal Planning?**

27. Is there any procedure to integrate the citizens/local public-private comments to the local city initiatives into the Municipal Planning?

8 responses
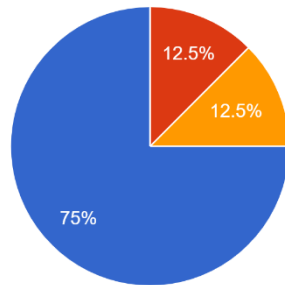
- ● yes
- ● no
- ● not any specific procedure, their opinones are collected on the 010 telephone, but also through speficic meetins with the stakeholders (commerce, university, citizens associations, etc.)

28. What is in your opinion the role of assessment of the lessons learnt into planning process?

28. What is in your opinion the role of assessment of the lessons learnt into planning process?

8 responses
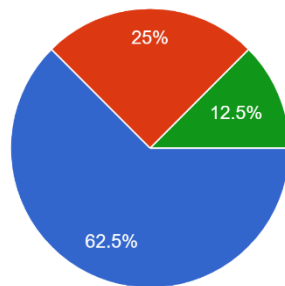
- ● Relevant, it should be a starting point to the process
- ● It is useful to summary the process and decide on scaling up
- ● Not so relevant, I don´t agree with above sentences
- ● direct lessons learnt from a short term project are very useful at the project delivery level but less so at the strategic planning and programme level which…

Workshop Validation Results

The total 6 Cities taken part into the survey from total 8 options. The cities that are represented are Mantova, Quy Nhon, and Medellin, Valladolid, Liverpool and Izmir. The data from Chengdu and Ludwigsburg still have to be completed.

The cities covering the range of the different world climates, from Mediterranean warm/cool summer (Csb-EU): Valladolid; Oceanic Marine West Coast (Cfb-EU): Liverpool; Mediterranean hot summer (Csa-EU): Izmir; Tropical monson (Am- S.AMERICA): Medellin; Mediterranean hot summer (Csa-EU): Mantua according to Köppen-Geiger Climatic Zones Classification, and representing different urban and socio-economic profiles according to main barriers consideration, and city urban structure. This is important for guarantying of the RUP methodology future scaling up and replication potential.

The data gathered allowing the deep analysis according the cities current level of preparation for RUP adoption, the same allowing the preparation of the teaching program still, and methodology proper material preparation. The methodology development materials successfully distributed and analysed with the cities, and concept to RUPs and integrating renaturing disseminated.

4   Validation conclusions

The document explains the URBAN GreenUP methodology validation principles and presents its possible methods and focus. In continuation, it provides the validation specific concept definition and includes the descriptions of the main activities improved. The validation proofs the URBAN GreenUP methodology processes proposed and specifies the most important components. It also proposes the validation Committee, linking this one to the activities on methodology social aspects, in continuation improving the same all methodology replication aspects given.

The current level of validation, internally performed, corresponds to Methodology Concept, both theoretical and then empirical validation, divided in two sub-processes on Methodology Concept and Development.

The report to the URBAN GreenUP methodology it will be updated with new project outcomes related to the validation, delivering at the end of the project the document fully described by methodology validation steps, analysis, results, lessons learnt, and impact graphs. The final external validation involves the external public, and performed once the project methodology is fully concluded.

4.1 Annexes

4.1.1 Key Questions Aspects List.

Table 4.1: Key Questions Aspects List – Validation 1st Stage – Methodology Concept

1st Stage - Internal

Methodology Concept · Output: Validation Document to Method. Process Defined		
Methodology Components to be Validated	**Method/Doc**	**Evaluators**
·General Structure		
·· Components Missing, to be Delayed ·· Processes Considered ·· Processes Inputs Accuracy ·· Processes Outputs Accuracy ·· Methodology Workflow ·· Other	Questionnaires/ Discussion/ Decisions	WP1 Task Leaders, WP1 All
·Gaps Identification and Possible Improvements		
·· Conceptual and Structure ·· Graphic, Names and Processes Systemized ·· Other	Questionnaires/ Discussion/ Decisions	WP1 All
·Partner Role Identification		
·· Processes vs Roles ·· Missing Roles ·· Management Structure ·· Other	Questionnaires/ Discussion/ Decisions	WP1 All
·Validation Process and Workshop Objectives Results		
·· Pending Aspects for next stage validation ·· Main Actors ·· Other	Questionnaires/ Discussion/ Decisions	WP1 All

Table 4.2: Key Questions Aspects List – Validation 1st Stage – Methodology Development

Methodology Development ·Validation Document Methodology Process Improved		
Methodology Components to be Validated	**Method/Doc**	**Evaluators**
· Main Aspects of Methodology to be Improved		
·· Components Missing, to be Delayed ·· Sub-Processes Considered ·· Sub-Processes Inputs Accuracy ·· Sub-Processes Outputs Accuracy ·· Processes and Sub-Processes Detailed Workflow ·· Methodology Tools Considered ·· Other	Workshop Exercise/ Discussion/ Voting	WP1, WP2-5, WP6
· Restructure the Methodology Workflow		
·· Demo Design Aspects Lessons Learnt ·· Demo Implementation Aspects LL ·· Demo Legal Construction Aspects LL ·· Demo Economic Aspect LL (Catalogues NBS) ·· Demo Evaluation Aspects LL (KPIs NBS Considered) ·· Demo Evaluation Aspects LL (CC considered) ·· Other	Workshop Exercise/ Discussion/ Voting	WP1, WP2-5, WP6
·Main Actors Identification		
·· Demo Replication Aspects (Social Involvement) ·· Other	Workshop Exercise/ Discussion/ Voting	WP1, WP2-5, WP6
· Restructure the Methodology Phasing (Demo)		
·· Tendering Models ·· Organisational Models ·· Business Models ··Other	Workshop Exercise/ Discussion/ Voting	WP1, WP2-5, WP6

Table 4.3: Key Questions Aspects List – Validation 2nd Stage – Methodology Refinement

2nd Stage - External

Methodology Refinement · Validation Document Full Process Improved		
Methodology Components to be Validated	**Method/Doc**	**Evaluators**
· Main Aspects of Methodology to be Improved		
·· Components Specification ·· Sub-Processes Specification ·· Sub-Processes Inputs Specification ·· Sub-Processes Outputs Specification ·· Detailed Workflow Specification ·· Tools Considered Specification ·· Other	On-line/Telephone Questionaries/ Dissemination Meeting	Citizens, Craft People, Smart Cities Experts
· Restructure the Methodology Workflow		
·· Demo Evaluation Aspects LL (Catalogues NBS) ·· Demo Evaluation Aspects LL (Implementation Problems) ·· Demo Evaluation Aspects LL (Replication Opportunities) ·· Other	On-line/Telephone Questionaries/ Dissemination Meeting	Citizens, Craft People, Smart Cities Experts
·Main Actors Identification		
·· Demo Replication Aspects (Social Involvement) ·· Other	On-line/Telephone Questionaries/ Dissemination Meeting	Smart Cities Experts
· Restructure the Methodology Phasing (Demo)		
·· Tendering Models ·· Organisational Models ·· Business Models ··Other	On-line/Telephone Questionaries/ Dissemination Meeting	Smart Cities Experts

4.1.2 Methodology Validation Workshop Program, Project Meeting, Valladolid, 2019

Table 4.4: Workshop Program Agenda to WP1:WP6 ACC-RMI (Part I and II) (1,5h 1,5h)

Step	Time	Activity	Notes	Lead
1	14:00-14:15	What is a RUP? (15min)		*ACC ING, Magdalena*
2	14:15 – 14:35	Review Aligned WP1 – WP6 methodology (20 min)	To share prior Add integration of 5.6.7.8 Add validation Show	*ACC ING, Magdalena, RMIT Thami*
3	14:35 – 14:45	Outline workshop plan and prep room by moving to tables (10min)	Table 1: Liverpool, Quy Nhon, Ludwigsburg Table 2: Izmir, Mantova Table 3: Valladolid, Medellín (ACC/RMI to facilitate each table)	*RMIT Thami*
4	14:45 – 15:00	Quick case study: a RUP for Liverpool (15min)	Paul/Juliet discussion	*CFT, LIV Paul/Juliet*
5	15:00-15:30	Icebreaker: What will your RUP look like? (30min)	20min chat at each table 2-3min min report back from each facilitator	*RMIT Thami*
		Coffee break – 15:30 – 16:00		
6	16:00 – 16:30	Table session 1: SWOT Analysis - How did you decide what was possible and consider your options? (30min)	20min chat at each table 2-3min min report back from each facilitator	*ACC ING Magdalena*

7	16:30 – 17:00	Table session 2: How did you identify and engage stakeholders? (30min)	Co-creation guidelines based 20min chat at each table 2-3min report back from each facilitator (identify internal/external)	*RMIT Thami*
8	17:00 – 17:30	Closing roundtable: Integrating WP5,6,7,8	Panel – Jesús, Francisco, Benedetta, Giulio Linked to process- Magdalena to propose links	*ACC ING, Magdalena*

4.1.3 Methodology Validation Workshop Program, Project Virtual Meeting, on-line, 2020

Table 4.5: Workshop Program Agenda to WP1:D1.13 validation (Part I) (45min)

Step	Time	Activity	Notes	Lead
1	10:00-10:20	Methodology Overview, updated version D1.13 (20min)	Methodology Structure Methodology by steps and phases	*ACC ING, Magdalena*
2	10:20 – 10:30	Quick Survey Validation WP1 – D1.13 (20 min)	To share prior the interactive link	*ACC ING, Magdalena, RMIT Thami*
3	10:30-10:45	Survey Results, brief discussion	Methodology Improvements	*ACC ING, Magdalena, RMIT Thami*

4.1.4 Methodology Quick Validation Form

Renaturing Urban Planning (RUP) Assessment

Quick validation Form - Workshop

Contact information

Stakeholder data – Consortium internally

Main role in the project:

☐ Municipality Representative

☐ Large Company

☐ SME Designer/Engineer/Service

☐ R&D Designer/Engineer/Service

☐ Demo support Lighthouse/Follower

☐ Technology Provider

☐ NBS Designer

☐ Marketing

☐ Other………….

In which part of the methodology you are interested especially:

☐ NBS Catalogues service and related

☐ City Challenges and target definition

☐ Diagnosis Process for the cities

☐ NBS Scenario Supporting tools

☐ Monitoring Process and data for the cities

☐ Evaluation Process for the cities (KPIs)

☐ Information Process and re-naturing legal

☐ Other…………

Methodology Improvement

Do you find the methodology useful

1. Is it helpful to have a vertical and horizontal grid layout?

☐ Yes

☐ No, I preferred the simple linear process

2. Is the current number of steps good?

☐ Yes

☐ I think there are key steps missing…….

☐ No, too many steps. I suggest deleting the following steps……..

☐ No, too many steps. Could we group some of the steps?

3. Does the sequence make sense?

☐ Yes

☐ I would expect the following steps to occur later………..

☐ I would expect the following steps to occur later………..

4. Do you find useful the tools included?

☐ Yes

☐ I would expect the scenario tool would include ………

☐ I would expect some templates/other in addition to …………

5. Overall: do you find the methodology useful in your city?

☐ Yes

☐ No

☐ Maybe………….(justify)

4.1.5 Survey to Methodology Validation at Municipality Level

Renaturing Urban Planning (RUP) Assessment

Intro to methodology validation.

The overall aim of the methodology is to support the cities in their local RUP planning. But, is it effectively useful in your local environment? Is the methodology clear for you? Do you see and other possible improvement be implemented?

Your feedback is important so that we can improve our RUP methodology, support its fluent interpretation and adoption, having in mind the municipality environments that are different depending the local city capacities and culture!

The survey consist on 28 questions (10 pages), after previous and brief city profile definition.

To help you with methodology understanding, and if it is needed, please remember we have also prepared the 20 pages executive summary document to let you easily cross the survey! See *pdf* document attached!

Thank you in advance for your collaboration! We really appreciate your time!

Survey information

Data thanks to

Please indicate your contact email/other:

City Profile Base Data

Stakeholder data.

Name of the City:

Country:

Role (for ex. Municipality department):

City main Goal (Challenge):

City Climate:

Köppen-Geiger Climatic Zones Classification

☐ Mediterranean warm/cool summer (Csb-EU): *Valladolid?*

☐ Oceanic Marine West Coast (Cfb-EU): *Liverpool?*

☐ Mediterranean hot summer (Csa-EU): *Izmir?*

☐ Oceanic (Cfb-EU): *Ludwigsburg?*

☐ Tropical monson (Am- S.AMERICA): *Medellin?*

☐ Mediterranean hot summer (Csa-EU): *Mantua?*

☐ Tropical Savanna dry winter (Aw-ASIA): *Quy Nhon?*

Other:

City main barriers:

In your feeling, what is the most important barrier in your city, having in mind the innovative growth NBS focused?

☐ Political Barriers

☐ Technical Barriers

☐ Legal Barriers

☐ Social/Cultural Barrier

☐ Financial Barrier

Depending on the barrier indicated previously, please write down the latest problem occurred, that might suppose barrier in supposed NBS implementation.

In your feeling, NBS can bring solutions to any of the barrier.

☐Yes

☐No

☐Maybe

☐I don´t know

Can you justify your answer?

City Urban Structure:

Having in mind your city main characteristic, or the characteristic existence in most of the city surface, what is the domain urban structure?

You may select more than one option.

☐ Coast Existence

☐ River Existence

☐ Lakes/Canals Existence

☐ Parks in Urban Structure Existence

☐ Historical Construction (Protected)

☐ Historical Construction (Non-Protected)

☐ New Construction

☐ New Districts Existence

☐ High Urban Density

☐ Low-Medium Density

☐ Public Open Spaces/ Squares

☐ Open Streets Existence

☐ Other

Please specify.

A. Engage and Co-create

How to start?

The objective of this step is to deliver trans-disciplinary and community-based stakeholder engagement strategy including the social sciences and humanities best practices in the co-design, co-development and co-implementation of the city´s NBS projects.

Action 1A dealing with identification and involvement of stakeholders.

1. Will you have a stakeholder coordination group our panel for your RUP?

☐ Yes

☐ No

2. Which groups will you engage?

☐ Other teams in your local authority

☐ Politicians

☐ Technical experts

☐ Business

☐ Academia

☐ Citizens

☐ Other levels of government

☐ Utilities (e.g. water company)

Other:

3. Which parts of co-creation plan you find difficult in its execution?

☐ Stakeholder identification

☐ Ensure a diversity

☐ Ensure a common goal

☐ Ensure a timeline

☐ Adopt appropriate methods of engagement

Other:

Action 2A of the methodology dealing with preparation for co-delivery.

4. Do you have currently co-creation plan in your municipality?

☐ Yes

☐ No

5. Will you retain this group in the implementation of the plan, or is it mainly for developing the RUP? [Implementation / RUP only]

☐ Constant, at least this is the idea

☐ Temporary, too many barriers

6. **Do you have a clear idea of how you will involve your stakeholders in the RUP development?**

☐ Mainly in reviewing materials we prepare, and commenting on our decisions

☐ We will negotiate with stakeholders to make decisions

☐ We will enable our stakeholders make the decisions

7. **How will you carry out your co-creation activities**

☐ We will do it ourselves

☐ We have an internal citizen creation specialist team that will help us

☐ We have employed specialist firms to help us works with our stakeholders

8. **Do you have any preference on how to finance this group?**

☐ Fully financed by municipality

☐ National/ Regional fundings

☐ EU fundings

☐ Public-Private

B. Explore

How to define the city Targets

The objective of this step is to define the aspirations for re-naturing process of the city. The Societal Challenges and NBS solutions are proposed, to answer the city/area different criteria, characteristics, problems, targets, budget, social issues, climate, previous experiences, etc.

Action 1B of the methodology dealing with the understanding of the city needs.

9. **Do you think is important the understanding of the value of re-naturing at the beginning?**

☐ Yes, it can be useful to visualise different scenarios

☐ No, it is obvious the re-naturing is needed

☐ I don´t have opinion

10. **How will you approach understanding and prioritising your city´s NBS needs?**

☐ Asking key experts or stakeholders

☐ Reviewing existing strategy

☐ Organizing brainstorming/workshop with key stakeholders

☐ Mapping/GIS

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GA nº 730426

☐ Other

Which

Action 2B of the methodology dealing with the definition of the city targets.

11. How will you present your targets to show what you want to achieve?

☐ Words with no numbers

☐ One measurable number goal with lots of smaller 'soft' targets

☐ Multiple numeric goals linked to KPIs

☐ Other

Which

12. Do you know how to link the city societal challenges with the NBS that better supporting them?

☐ Yes, I know the process; I will use the NBS catalogue and link to the Societal Challenges

☐ Not sure, I would prefer to use a tool generating the list of NBS automatically

13. Is there any special interest to any group of NBS in your city, independently, those yes or not linked to the city challenges?

☐ Yes

☐ No

Which

Action 3B of the methodology dealing with the preparation of the municipality for integration of the RUP plan.

14. How will your RUP be implemented?

☐ The plan will be used to direct a program of works carried out by the local authority

☐ The plan will add to the city's urban development plan to direct new NBS

☐ Both

15. Which kind of standards you currently following (included re-naturing)?

☐ Only local standards and normative

☐ We follow the European standards

☐ Other

Which

16. What is the most interesting/necessary part for you to be explained?

☐ The legal constrains to be associated

☐ List of the main constrains to the public procurement processes

☐ The funding opportunities

☐ The outline to the integration of the RUP methodology into the Municipality Planning

☐ All of them

☐ Other

Which

C. Diagnose and D. Visualize

How to define the city NBS Scenario

The objective of this step is to deliver a detailed diagnosis of the city/area in respect to the societal challenges selected for a city in the previous step. The deep analysis on barriers, boundaries and opportunities for corresponding NBS indicated will complete the study. The zoning constrains and specific rules will complete the diagnosis from special perspective. The information will allow the selection of the city societal challenge scenarios with selected NBS.

Action 1C of the methodology dealing with the city environmental, social and economic profile definition.

17. Have you done a city analysis and diagnosis in connection with the re-naturing aspects?

☐ Yes

☐ No

18. If so, what kind of data you use to perform this analysis and diagnosis?

	Socio-economic	Business and financial	Urban environment and quality of life	Societal challenges or strategies	Existing policies and regulations
Site analysis	☐	☐	☐	☐	☐
Urban zoning	☐	☐	☐	☐	☐
Local regulations	☐	☐	☐	☐	☐

☐ Other

Which

Action 2C of the methodology dealing with the city NBS selection in link to city targets established, NBS selected, and particular capacities analysed previously.

19. Which methods did you use to perform a city diagnosis?

☐ SWOT/PESTLE

☐ Brainstorming

☐ City Workshop

☐ Municipality Tool

☐ Audit/Certyfication

☐ Other

Which

Action 2D of the methodology setting the spatial priorities for NBS. The main goal of this action is to identify the priority precincts for action where will the NBS go.

20. Do you generate the potential city scenarios re-naturing/other with use any kind of GIS tool?

☐ Yes

☐ No

Which/ Why

E. Plan

How to evaluate the city NBS Scenario

The objective of this step is to deliver the evaluation plan for the NBS scenarios generated. It will include the KPIs prioritization criteria. The information generated will allow the calculation of the KPI´s corresponding each NBS. The level reached with respect to the targets defined and the baseline calculation is identified.

Action 1E of the methodology dealing with the establishment of the city baseline condition in the locations where the interventions will be implemented, e.g. within a region, city, or neighbourhood.

21. Have you established city baseline in connection with the re-natuting aspects?

☐ Yes

☐ No

22. If so, what kind of data did you use to perform this analysis and diagnosis?

	Socio-economic	Business and financial	Urban environment and quality of life	Societal challenges strategies	Existing policies and regulations
Reports	☐	☐	☐	☐	☐
Indicators/KPIs	☐	☐	☐	☐	☐
Georeferences (GIS)	☐	☐	☐	☐	☐

Action 2E of the methodology dealing with KPIs indicators selection and prioritization.

23. Do you collaborate with other cities regarding re-naturing ambition?

☐ Yes, on national level

☐ Yes, on international level

☐ No

Which/ Why

_____

Action 3E of the methodology dealing with the preparation of scaling up plan.

24. Do you have a long-term vision in re-naturing topics?

☐ Yes

☐ We are currently developing one

☐ No, but we are considering so

☐ No

☐ Other related re-naturing

Which

_____

F. Inform

How to integrate the RUP plan

The objective of this step, a part of defining of the information channels for the RUP, is definition of the organizational structure of the Municipality for the implementation and promotion of the RUP.

25. Does your city have a strategic plan on re-naturing or related?

☐ Yes

☐ We are currently developing one

☐ No, but we are considering so

☐ No

☐ Other related re-naturing

Which

_____

26. Is there any procedure to integrate the results of local city initiatives into the Municipal Planning?

☐ Yes

☐ No

☐ Maybe

Which

27. Is there any procedure to integrate the citizens/local public-private comments to the local city initiatives into the Municipal Planning?

☐ Yes

☐ No

☐ Maybe

Which

28. What is in your opinion the role of assessment of the lessons learnt into planning process?

☐ Relevant, it should be a starting point to the process

☐ It is useful to summary the process and decide on scaling up

☐ Not so relevant, I don´t agree with above sentences

Why

4.1.6 Methodology Executive Summary

URBAN GreenUP cities engagement

The cities compromise to create the local RUP plans.

*The cities are facing currently different situations, starting with cities of **Liverpool (UK), Izmir (Turkey), Valladolid (Spain),** which ´leading´ the NBS real implementations currently, following with cities of **Mantova (Italy), Ludwigsburg (Germany), Medellin (Colombia), Changdu (China), and Quy Nhon (Vietnam)** which preparing their local Re-naturing Urban Plans at the planning level.*

The aim of this report is to provide the URBAN GreenUP cities with a useful guide to the re-maturing methodology and its process. The Public Authorities of the local municipality can initially take the role of a leader and coordinate all of the re-naturing actions, in parallel linking them to the local goals established, identifying the team, its communication channels, and taking care about the proper dissemination and evaluation of all the results. The guide is created with this audience in mind.

The method produces a RUP outline, which should be fully integrated in the city's urban planning and land use planning processes. The method also enables cities to specify a set of NBS to mitigate one or several societal challenges, ready to the tendering process. The methodology will support the direct implementation of one or a set of NBS in city or/a specific area of the city addressed the specific challenges in a more effective way.

The document explains **the different phases** and **steps** of the methodology. It indicates clearly **the objectives of each of actions needed** and **list all of the outputs considered**. It includes **a step-by-step guide to the main processes** involved in the methodology. **All the processes and actions, when linked together, enable cities to meet the main objective, which is Re-Naturing urban areas with NBS.**

- **What is the purpose?** – Development of the local (RUP) Renaturing Urban Plan answering the city challenges established.
- **What is new?** – The focus on NBS, projects and initiatives, as an integral part of the plan and a solution to local city barriers and functions.
- **How to focus your actions?** – Linked to the current city strategy and planning, in specific city environment, traditions, local character.
- **What should be the process?** – Cities develops the RUP plan being supported by easy to follow step-by step procedures and tools.
- **Who should be involved?** – City re-naturing key partners including citizens.
- **How far should be considered?** – This is an iterative process starting with assessment, and adjusting responses based on the lessons learnt. Proper monitoring, evaluation, and appropriate timing should be established in the planning process.

At this stage of the project (M40) we present the results of the second development stage on the methodology development (from a total of four). *This report (D1.13) extends the methodology and structure drafted initially in report D1.12 (M20).*

URBAN GreenUp re-naturing strategy

A journey towards the Cities Re-naturing with Nature Based Solutions (NBS)

To support **re-naturing journey of the cities**, URBAN GreenUP developed **a systematic strategy to reach high level of impacts through the use of NBS**. It aims to provide **an integrated methodology to support the Urban Planning of NBS at the local city level,** as a powerful strategy **to contribute to increase sustainability, addressing a range of societal challenges.**

URBAN GreenUP introduces the concept of Renaturing Urban Planning (RUP), which **incorporates NBS alongside** the traditional urban planning aspects **to generate a more sustainable approach to Urban Planning.** In parallel to traditional planning processes, the methodology supports cities in the direct implementation of one or more NBS in a specific area or across the city to address specific societal challenges in a more effective and ecologically sustainable way.

The **social aspects** are considered one of the main key elements, and **the economic issues** complementing the environmental one, fostering **the creation of good business cases to solve the general lack of budget of the public administration**. To achieve good outcomes, **a co-creation approach is adopted in the definition of the methodology**, from the definition and design of the technical solutions to the final assessment. This ensures that NBS are adapted to the local context, that they address local priorities and needs of stakeholders, and work within the opportunities and constraints of the local context.

With this final objective for European cities, and wishing to spread the re-naturing good practices across the World, the following guide to the strategy has been developed.

What is the real value of re-naturing in your city?

Nature Based Solution (NBS) definition adopted

The methodology outlined in this report provides a way to implement Nature-Based Solutions (NBS) in urban areas, "solutions that are inspired and supported by nature (Cohen-Shacham et al., 2016), which are cost-effective, simultaneously provide environmental, social and economic benefits and help build resilience. (Maes J et al., 2015)" (Source: Sustainability 2020).

The governance of urban areas is directly linked to the decisions being made regarding economic and social stability which are all tied to the inclusiveness, functionality and quality of life of urban landscapes (Kabisch et al., 2016). **NBS are offered as a mechanism to promote resilience within socio-political discussions of landscape and urban development.**

But, what is the real value of re-naturing in my city? How to establish the goals? How can NBS be designed and implemented? What is the step by step action plan that can help you to achieve the goals you have in your city? This document addresses these questions, and is directed toward cities who are developing plans to re-nature their cities through the use of NBS.

Why I am doing this? How to consider the value of NBS?

To begin to answer these questions, let´s try to answer the opposite question, what would be a potential scenario of growth for our city without consideration of re-naturing? How would your city address challenges related to climate mitigation and adaptation? How would you address public health and well-being, air quality, urban regeneration and space management? What about the potential for a better economy? The nature-based solutions (NBS) are solutions to a number of societal challenges and not only climate change issues, but also water management, coastal resilience, urban green space management, air/ambient quality, urban regeneration, participatory planning and governance, social justice and social cohesion, public health, economic opportunities and green jobs (Source: based on classification created by the EKLIPSE initiative).

This guide will help you with the process on exploration, diagnosis and evaluation, as well with the definition of the impact that process on re-naturing may have on your city. Using NBS as a means of climate change adaptation and to mitigate carbon emissions can provide more resilient responses than conventional approaches. Improving risk management and resilience using NBS can lead to greater benefits than conventional engineered methods and offer synergies in reducing multiple risks.

How to read the methodology structure?

The documents supporting it.

Urban GreenUP methodology is developed as a modular procedure in order to achieve a clear, easy to follow method, a **step-by-step procedure** for re-naturing urban areas.

List of Catalogues and Guides will help to specify the particular methodology components:

- NBS Catalogue *(URBAN GreenUP D1.1)*
- Societal Challenge Catalogue *(URBAN GreenUP D1.2)*
- Diagnosis procedure Guide *(URBAN GreenUP D1.3)*
- Baseline Calculation Guide *(URBAN GreenUP D1.4)*
- Barriers and Boundaries Guide *(URBAN GreenUP D1.5)*
- Zoning and Mapping Guide *(URBAN GreenUP D1.6)*
- Tendering Process Guide *(URBAN GreenUP D1.9)*
- Scaling UP Guide *(URBAN GreenUP D1.10)*
- Co-creation and Co-development Guide *(URBAN GreenUP D1.11)*

List of the Tools

- NBS scenarios generation Tool *(URBAN GreenUP D1.7) with KPIs prioritization criteria Guide (URBAN GreenUP D1.8)*
- Co-creation and Co-development Tools *(URBAN GreenUP D1.11)*

RUP – Re-naturing Urban Plans – which incorporates the urban planning aspects directly related with nature-based solutions as major strategy to fight against climate change. It will be part of

the Sustainable Urban Planning and totally integrated with the urban strategy for dealing with the main city challenges.

Methodology Component – All components needed for methodology developments, those could be activities, but also, catalogues, guides, decisions.

Methodology Processes – methodology activities that analyse/ define/ evaluate the methodology concept, and create corresponding outputs, in many cases, basing also on inputs from different activities.

Methodology Procedure – methodology output related to the systemized step-by-step activity for Re-naturing Methodology Implementation.

Input – Information coming from other project processes, or external, not developed in the project but needed for methodology definition.

Output – Information created in a project process, could be an input to other project process.

Work Flow – relation among different project processes and components. It also indicates the correct direction to implement the methodology.

Zoning – The term "zoning" has a number of meanings and can often be used to identify areas that have statutory policy in place for their development and management. In other cases, zoning can be a generic term for identifying "areas of focus" or interest that have no statutory implications. In this document the term zoning is used to refer to targeting areas for NBS.

Assets – green infrastructure that is delivering a function or functions in an area of identified need. For example, woodland that is intercepting and storing water in an area of flood risk is a water management asset; it is providing functions that help to reduce the risk of flooding.

Pinch Points - Area where a need has been identified and where green infrastructure could provide part of the solution to address the need but at present is not.

Co-creation - an advanced, modern form of community engagement.

Scaling up – The term "scaling up" in its pure definition it is to make something larger in size, amount etc. In this document the term "scaling up" referring, the set of processes, methodology based, providing a larger scale of implementation of NBS strategies. The viability of the scaling up, will be identified according to how, "Credible, Relevant, Relative advantage over existing practices have, Easy to adopt, Compatible and Able to be tested" the methodology is.

Who is it for the RUP planning?

"Citizens are at the heart of a city and also at the heart of the challenges cities face through on-going urbanisation and demographic mix, consumption habits as well as increasing expectations as regards quality of life. Citizens must therefore also be at the heart of the solution" (Source: European Innovation Partnership on Smart Cities and Communities - Strategic Implementation Plan, 2013).

Co-creation is an advanced, modern form of community engagement. Collaboration of diverse stakeholders such as governments, NGOs, scientists, interest-groups, philanthropists and charities are likely to enhance the social and environmental outcomes of NBS. Involving of the residents, business and other groups of society taking part in the development and implementation of your Renaturing Urban Plan can also greatly improve its chances of success. **When citizens are engaged in shaping their public spaces, services, and there is a true culture of empowerment and co-creation between citizen and local authorities,** then NBS are thought to be more effective in addressing societal challenges. **Citizens are central stakeholders because they not only help to build the cities and the services to better focused their (users) interest, but also will automatically protect the environment once created.** Collaboration of diverse stakeholders such as governments, NGOs, scientists, interest-groups, philanthropists and charities are likely to enhance the social and environmental outcomes of NBS.

As a first step, and once identified the key stakeholder groups and their aspirations, the different techniques for engaging these groups need to be considered. The choice of each method or technique should come from an examination of approaches that are likely to be beneficial for the stakeholders as well as supporting the desired decision or co-creation outcome.

The team involved in developing the RUP can then start to define the main targets for the city, and to translate them into the language of challenges, and select the ones that will most positively affect the city environment and its habitants. The process will allow the identification of the different nature-based solutions that are the best option to the city environmentally, socially, technically and economically.

Once proposed the city re-naturing objective, you can start!

Remember, the URBAN GreenUP methodology process is referring to the strategic planning framework of the city, with the aim to introduce the re-naturing concept by means of NBS, towards the EU sustainable politics. It enables the city administration to perform an effective step by step RUP urban action plan, and once defined, **it will be followed by project ´design´ stage and real intervention and assessment ´project 'stage.**

The methodology consists of **18 actions**, organized in **phases (1- 3)**, and **strategic steps (A- F)** that leads to the creation of the "Renaturing Urban Plan" (RUP) of the city. The phases deal with the maturity of the objective of the re-naturing in time (from present to future); while the steps develops the specific, technical components of the methodology process (from engagement to plan).

Actions organized at horizontal axis by phases:	Actions organized at vertical axis by steps:
iv. **Understand your present** v. **Choose your future aspirations** vi. **Integrate RUP and keep**	G. Engage and Co-create H. Explore I. Diagnose J. Visualize K. Plan L. Inform

How to start?	1st. Understand your present	2nd. Choose your future aspirations	3rd. Integrate RUP and keep	"Renaturing Urban Plan"
A. Engage and Co-create	**Action 1A. Identify and involve stakeholders**	**Action 2A. Prepare for co-delivery**		**Chapter I.** Introduction to Re-naturing
B. Explore	**Action 1B. Understand your "city" needs**	**Action 2B. Choose your "city" targets**	**Action 3B. Prepare RUP Plan integration into the Urban Plans of Local Municipality**	**Chapter II.** City Targets
C. Diagnose	**Action1C. Understand your "city" capacity**	**Action 2C. Evaluate NBS Scenarios and select one**	**Action 3C. Define list of NBS Projects and Actions**	**Chapter III.** City NBS Adopted Scenarios
D. Visualize	**Action 1D. Map challenges**	**Action 2D. Set spatial priorities for NBS**	**Action 3D. Prepare assessment of the Impact and Risk**	**Chapter IV.** City Impact
E. Plan	**Action 1E. Establish Baselines**	**Action 2E. Choose how success will be monitored**	**Action 3E. Prepare the Up-scale Plan**	**Chapter V.** Monitoring Program and Action Plan
F. Inform	**Action 1F. Promote the initiative**	**Action 2F. Publish the RUP**	**Action 3F. Define budget, roles and responsibilities**	**Chapter VI.** Roles and Responsibilities
A. Engage and Co-create	**Action 3A. Assess lessons learnt and validate the strategy**			**Chapter VII.** Processes and reforms

Depending on the current status of each municipality, the point of departure can vary as some methodological steps might have been previously completed as part of other planning processes. In addition, the way of following of the methodology by different re-naturing team may vary. They may choose to follow it vertically or mainly in horizontal order. One of the important analysis consist in evaluation of the current situation regarding this process.

The re-naturing process followed in a particular city will depend on a number of factors. For example, it will vary depending on the specific structure of the municipality, e.g. the execution of the re-naturing plan, and its different phases, steps and actions, can be associated to different departments of municipality, or selected multidisciplinary groups, supported by key experts or a team leader (RUP coordinator). In addition, the interactive and co-creation activities between them established will support the coherence between all the actions, its outputs and inputs needed.

You may follow the methodology in different ways:

1. **Vertically, gradually by steps (Steps A→StepsB→StepsC...→StepsF)**
2. Horizontally, systematically by phases (Actions1→Actions2→Actions3)
3. Diagonally, progressively both the phases and steps

In this document, the methodology is described following the vertical order, and the action plan to RUP is described according to the results achieved in each methodology step (Outputs from A-F).

The names and contents proposed for the chapters are:

- Chapter I. Introduction to Re-naturing– collects the actions description and main outputs for Step A. Engage and Co-create step initial actions.
- Chapter II. City Targets – collect the actions description and main outputs for Step B. Explore
- Chapter III. City NBS Adopted Scenarios – collects the actions description and main outputs for Step C. Diagnose.
- Chapter IV. City Impact – collects the actions description and main outputs for Step D. Visualize.
- Chapter V. Monitoring Program and Action Plan - collects the actions description and main outputs for Step E. Plan.
- Chapter VI. Roles and Responsibilities - collects the actions description and main outputs for Step F. Inform.
- Chapter VII Process and reforms – collects the actions description and main outputs for Step A. Engage and Co-create step, but this time the evaluation actions and lessons learnt.

All the descriptions contains the indication to the potential helping tools, and most important tips and links.

The methodology proposes **the outputs (phase and step linked)** to be delivered once you have completed the specific action. The link between the different actions is indicated in detailed in D1.13 below the section *List the Action/s linked,* which describes the Action Inputs and Outputs. The supporting tools, in preparation of the outputs of the step B. Explore, step C. Diagnose, Step D. Visualize, are listed.

How to start?	1st. Understand your present	2nd. Choose your future aspirations	3rd. Integrate RUP and keep	"Renaturing Urban Plan"
A. Engage and Co-create	• List of key stakeholders groups. • List of capabilities, interests, relationships for each group.	• Co-creation plan.		**Chapter I.** Introduction to Re-naturing
B. Explore	• The city re-naturing goal.	• The city challenges and sub-challenges and why they're prioritised.	• The legal constrains. • The public procurement processes. • The funding opportunities. • The outline to the integration of the RUP methodology into the Municipality Planning	**Chapter II.** City Targets
C. Diagnose	• City profile definition.	• NBS scenario. Use the URBAN	• NBS Scenario Report	**Chapter III.** City NBS Adopted Scenarios
D. Visualize	• Key focus areas for NBS	• List of green assets and pinch points	• NBS Risk Assessment	**Chapter IV.** City Impact
E. Plan	• Plan for collecting baseline data across a defined set of indicators	• KPIs prioritization for NBS	• The up-scale plan	**Chapter V.** Monitoring Program and Action Plan
F. Inform	• Internal stakeholders, external groups and community groups. • Promotion of the initiative among the stakeholders. • The early list of NBS for consideration.	•Plan to Urban Renaturing (RUP)	• The organizational structure of the Municipality for the implementation of the RUP. • Local Communication and Dissemination plan. • Define the financial plan.	**Chapter VI.** Roles and Responsibilities
A. Engage and Co-create	•Assess lessons learnt and validate the strategy.			**Chapter VII.** Processes and reforms

The URBAN GreenUP project includes **the tools and guides that supporting the methodology process**, and help in the development of the outputs in actions 1B, 2B, 1C, 2C, 3C, 3D, 3A.

How to start?	1st. Understand your present	2nd. Choose your future aspirations	3rd. Integrate RUP and keep	"Renaturing Urban Plan"
A. Engage and Co-create		**Action 2A.** • **Co-creation plan.** *(Source UGU D1.11)* *! Supporting all the actions!*		**Chapter I.** Introduction to Re-naturing
B. Explore	**Action 1B.** • The city re-naturing goal. **Supported by:** • **1st Kick-off Workshop of the City** *(Source UGU D1.3)*	**Action 2B.** • The city challenges and sub-challenges and why they're prioritised. **Supported by:** • **URBAN GreenUP Societal Challenges Catalogue** *(Source UGU D1.2)*		**Chapter II.** City Targets
C. Diagnose	**Action 1C.** • City profile definition. **Supported by:** • **2nd Workshop of the City** *(Source UGU D1.3)*	**Action 2C.** • NBS scenario. Use the URBAN **Supported by:** • **URBAN GreenUP NBS Scenario Tool** *(Source UGU D1.7)*	**Action 3C.** • NBS Scenario Report **Supported by:** • **URBAN GreenUP NBS Catalogue** *(Source UGU D1.1)*	**Chapter III.** City NBS Adopted Scenarios
D. Visualize			**Action 3D.** • NBS Risk Assessment **Supported by:** • **URBAN GreenUP NBS Selection Tool** (Source UGU WP6 Tool, D1.11)	**Chapter IV.** City Impact
E. Plan		**Action 2E.** • **KPIs prioritization for NBS** **Supported by:** • **URBAN GreenUP NBS Scenario Tool** *(Source UGU D1.7)*		**Chapter V.** Monitoring Program and Action Plan
F. Inform	**Action 1F.** • **Promotion of the initiative among the stakeholders.** **Supported by:** • **URBAN GreenUP Info Channel** *(Source UGU D1.11)*			**Chapter VI.** Roles and Responsibilities
A. Engage and Co-create				**Chapter VII.** Processes and reforms

How to maintain the methodology over time?

The role of evaluation actions and assessment of lessons learnt.

This step-by-step methodology is not conceived as linear process, but as circular one. The step A (Engage and co-create step) is considered at the beginning and at the end of vertical actions.

Engage
- Identify and involve stakeholders
- Preare for co-delivery

Explore
- Understand your "city" needs
- Choose your "city" targets
- Prepare Rup Plan integration into the Urban Plans of Local Municipality

Co-create, implement the strategy, and scale it up
- Assess lessons learnt and validate the strategy

Diagnose
- Understand your "city" capacity
- Evaluate NBS Scenarios and select one
- Define list of NBS Projects and Actions

Inform
- Promote the initiative
- Publish the RUP
- Define budget, roles and responsabilities

Visualize
- Map challenges
- Set spatial priorities for NBS
- Prepare assestment of the Impact and Risk

Plan
- Establish Baselines and KPIs
- Choose how success will be monitored
- Prepare the Up-scale Plan

Scaling up for NBS

URBANGreenUP applies the term "scaling up" the set of processes, methodology based, providing a larger scale of implementation of NBS strategies. You may follow the guide according the specific methodology **Action 3E Prepare the upscale plan** set of specific scaling up procedures of evaluation of economic, technical, social and environment matters in different city scales and the way in which a successful scaling up will be done. **Its viability of the scaling up, will be identified according to how, "Credible, Relevant, Relative advantage over existing practices have, Easy to adopt, Compatible and Able to be tested" the methodology is.**

The information generated will allow the calculation for the KPI´S corresponding city baselines (NBS based) and the level reached with respect to the targets defined. Thanks to monitoring procedures integrated to the City Urban Plans RUP, the scaling up to the city zones, districts, cities will be continuously improved.

RUP plan: Chapter I. Introduction to Re-naturing

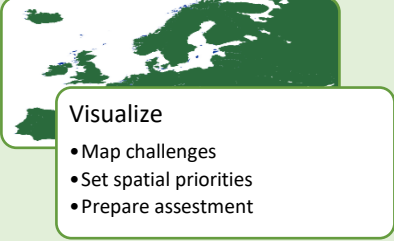| STEP A. Engage and Co-create	
Which level of development of the RUP we are?	I II III IV V VI VII
STEP A Main Objective: **The objective of this step is to deliver trans-disciplinary and community-based stakeholder engagement strategy including the social sciences and humanities best practices in the co-design, co-development and co-implementation of the city´s NBS projects.** **The engagement-oriented program focuses on the social benefits of engaging with nature, biodiversity and green spaces in cities. Key elements of this program are the development and execution of BioBlitz type activities in which citizens are encouraged to observe, document and provide feedback on the biodiversity and other ecological elements present in the project´s NBSs.** **This methodology step establishes the bases on co-creation and co-developments to all the steps in continuation.**	**Engage and Co-create** **Identify and involve stakeholders** ◦ **Preare for co-delivery** ◦ **Lessons learnt (included in Action 3A)**
Phase 1. Understand your present	**Action 1A. Identify and involve stakeholders**
Main outputs: • **Output 1A-1.** List of key stakeholders groups. • **Output 1A-2.** List of capabilities, interests, relationships for each group.	Identify all key stakeholders for your RUP, including teams inside your organization, the general public, businesses and relevant agencies in other levels of government.
Phase 2. Choose your future aspirations *Phase 3. Integrate RUP and keep*	**Action 2A. Prepare for co-delivery**
Main outputs: • **Output 2A-1.** Co-creation plan.	This Action involves preparing a clear engagement Plan which outlines clearly how your stakeholders will be involved in preparing and delivering the RUP.

RUP plan: Chapter II. City Targets

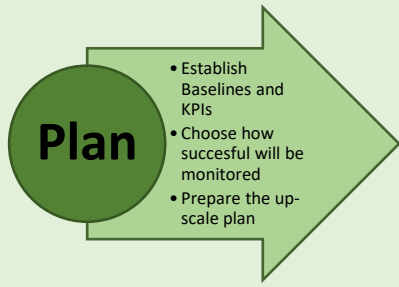| STEP B. Explore	
Which level of development of the RUP we are?	I II III IV V VI VII
STEP B Main Objective: **The objective of this step is to define the aspirations for re-naturing process of the city. The Societal Challenges and NBS solutions will be proposed, to answer the city/area different criteria, characteristics, problems, targets, budget, social issues, climate, previous experiences, etc. Those analyses is somehow the brainstorming base to the next methodology step on Diagnosis, where the societal challenges will be crossed with the barriers and boundaries of the city.**	**Explore** • Understand your "city" needs • Choose your targets • Prepare Rup integration
Phase 1. Understand your present	**Action 1B. Understand your "city" needs**
Main output: • **Output 1B-1.** **The city re-naturing goal.** Supported by: **Organization of the 1st Kick-off City Workshop** *(Source: UGU D1.3)*	Understand the "value" of the re-naturing for your particular city. Identify the main "city" tendency and the main goal.
Phase 2. Choose your future aspirations	**Action 2B. Choose your "city" targets**
Main output: • **Output2B-1.** **The city challenges and sub-challenges and why they're prioritised.** **Specific targets will be selected for each challenge.** Supported by: Societal Challenge Catalogue *(Source: UGU D1.2)*	Identify the "city" targets and translate them into the URBAN GreenUP language of challenges and sub-challenges.
Phase 3. Integrate RUP and keep	**Action 3B. Prepare RUP Plan integration into the Local Municipality Urban Planning Legal Elements.**
Main output: • **Output 3B-1.** **Output 3B-1. The legal constraints associated with the adoption of the NBS proposed.** • **Output 3B-2.** **List of the main constrains to the public procurement processes.** • **Output 3B-3.** **The funding opportunities.** • **Output 3B-4.** **The outline to the integration of the RUP methodology into the Municipality Planning.**	Identify the regulatory framework that restricts the implementation of the City Urban Plan – RUP – with NBS selected. This includes all the legal elements for the municipality including international and national level (standards, laws, regulations) and local level (rule, norm, ordinance, plan), identify the procurement processes and the funding's opportunities.

RUP plan: Chapter III. City NBS Adopted Scenarios

STEP C. Diagnose	
Which level of development of the RUP we are?	I | II | III | IV | V | VI | VII
STEP C Main Objective: **The objective of this step is to deliver a detailed diagnosis of the city/area in respect to the societal challenges selected for a city in the previous step. The deep analysis on barriers, boundaries and opportunities for corresponding NBS indicated will complete the study. The information will allow the selection of the city societal challenge scenarios with selected NBS. The systemic method proposed and the tools developed with will support the process.** **As a result, we will get the NBS Catalogue offer adapted to the local city conditions. The URBAN GreenUP NBS catalogue, as a base, it includes all possible characteristics of each NBS identified (technical, economic, environmental, and social). The features considered into the catalogue indicating also the potential scale of value for each societal challenges selected in the previous step.**	Diagnose — Understand your capacity / Evaluate NBS Scenarios and select one / Define list of NBS Projects and Actions
Phase 1. Understand your present	**Action1C. Understand your "city" capacity.**
Main output: • **Output 1C-1.** City profile definition. <u>Supported by:</u> **Organization of the 2nd City Diagnosis Workshop** *(Source: UGU D1.3)*	The main goal of this action is to detail the city profile and to prepare it for deep analysis in respect to the NBS implementation.
Phase 2. Choose your future aspirations	**Action 2C. Evaluate NBS Scenarios and select one**
Main output: • **Output 2C-1.** NBS scenario. <u>Supported by:</u> **Use of the URBAN GreenUP NBS Scenario Tool** *(Source: UGU D1.7)*	The main goal of this action is to provide the user with a list of the best NBS for the needs, targets and capacities of the city (diagnosis/challenges/barriers/enablers). Using this list the user will refine the NBS list if needed.
Phase 3. Integrate RUP and keep	**Action 3C. Define list of NBS Projects and Actions**
Main output: • **Output 2C-1.** NBS Scenario Report <u>Supported by:</u> **Use the URBAN GreenUP NBS Catalogue** *(Source: UGU D1.1)*	The mail goal of this action is to generate a report with all the needed information that the user needs to define the project.

RUP plan: Chapter IV. City Impact

STEP D. Visualize	
Which level of development of the RUP we are?	I II III IV V VI VII
STEP D Main Objective: **The objective of this process is to visualize the re-naturing process objectives considered in the previous step B and C. The zoning constrains and specific rules will complete the diagnosis from special perspective.** **The information will allow the definition of different kind of zone, getting as result, a multipurpose zoning that can be visualized through a GIS tool.** **In consequence, the accuracy and functionality of the NBS solution intervention will be checked. The risk associated the NBS implementation will be assessed and the final impact of the NBS scenario will be evaluated.**	Visualize • Map challenges • Set spatial priorities • Prepare assestment
Phase 1. Understand your present	**Action 1D. Map challenges**
Main output: • **Output 1D-1.** **Key focus areas for NBS**	The main goal of this action is to define the green infrastructure picture, identifying the key areas of focus for each challenge and NBS.
Phase 2. Choose your future aspirations	**Action 2D. Set spatial priorities for NBS**
Main output: • **Output 2D-1.** **List of green assets and pinch points**	Action Objective: The main goal of this action is to identify the priority precincts for action – where will the NBS go.
Phase 3. Integrate RUP and keep	**Action 3D. Prepare assessment of the impact and Risk**
Main output: • **Output 3D-1.** **NBS Risk Assessment** Supported by: **Use the URBAN GreenUP NBS Selection Tool** *(Source: UGU WP6, D1.11)*	The main goal of this action is to prepare the assessment of the Risk and potential Impact for selected NBS.

RUP plan: Chapter V. Monitoring Program and Action Plan

STEP E. Plan	
Which level of development of the RUP we are?	I II III IV V VI VII
STEP E Main Objective: **The objective of this step is to deliver the evaluation plan for the NBS scenarios generated. It will include the KPIs prioritization criteria. The information generated will allow the calculation of the KPI´s corresponding each NBS. The level reached with respect to the targets defined and the baseline calculation will be identified. The procedure implementation will allow the continues monitoring of the NBS integrated into the City Urban Plans RUP and its evaluation, Scaling UP and replication to the other City Zones, Districts, Cities.** **The process is based on the diagnosis procedures developed into the previous steps B-D, and takes into account the social, economic and more specific technical criteria.**	**Plan** • Establish Baselines and KPIs • Choose how succesful will be monitored • Prepare the up-scale plan
Phase 1. Understand your present	**Action 1E. Establish Baselines**
Main output: • **Output 1E-1.** Plan for collecting baseline data across a defined set of indicators	The main objective of this task is to establish the baseline condition in the locations where the interventions will be implemented, e.g. within a region, city, or neighbourhood.
Phase 2. Choose your future aspirations	**Action 2E. Choose how success will be monitored**
Main output: • **Output 2E-1.** KPIs prioritization for NBS **Supported by:** Use of the URBAN GreenUP NBS Scenario Tool *(Source: UGU D1.7)*	The main goal of this action is to help cities to choose and prioritize KPIs. In addition, with this action, a framework will be drawn on monitoring the results of NBSs to be implemented, taking into account the challenges and needs of the cities.
Phase 3. Integrate RUP and keep	**Action 3E. Prepare the up-scale plan**
Main output: • **Output 3E-1.** The up-scale plan	The main goal of this action is to prepare the up-scale action plan in accordance to the assessment of the Risk and potential Impact for selected NBS.

RUP plan: Chapter VI. Roles and Responsibilities

STEP F. Inform	
Which level of development of the RUP we are?	I | II | III | IV | V | VI | **VII**
STEP F Main Objective: **The objective of this step is to define the RUP informing channels for the RUP promoting initiative at the municipality level and from the early beginning. In addition, the information and discussion channels will be performed, to gather the feedback and propositions from different stakeholder groups, and to assess the NBS scenario adopted.** **The currently identified legal aspects, tendering process, but also the technical constrains, should be specified with the roles and responsibilities, and articulated the different stakeholders that will take part in it, allowing the correct implementation and maintenance of the RUP.**	**Inform** Promote the initiative Publish the RUP Prepare the organization and define the roles
Phase 1. Understand your present	**Action 1F. Promote the initiative**
Main output: • **Output 1F-1.** Review the internal stakeholders, external groups and community groups. • **Output 1F-2.** Promote the initiative among the stakeholders. • **Output 1F-3.** Validate the early list of NBS for consideration. Supported by: **Use the URBAN GreenUP Info Channel (Source: UGU D1.11)**	The main objective of this action is to review the list of stakeholders identified in the beginning of the process (Action 1F) and to promote actions to disseminate the initiative to implement an RUP, through the different means of communication (internal promotion, media and dissemination, etc.)
Phase 2. Choose your future aspirations	**Action 2F. Publish the RUP**
Main output: • **Output 2F-1.** Plan to Urban Renaturing (RUP)	The main goal of this action is publish the plan to Urban Renaturing (RUP), summarizing all the conclusions from all the previous steps and outputs. In addition to this step, the budget and identification of roles and responsibilities will need to be defined to complete this step.
Phase 3. Integrate RUP and keep	**Action 3F. Define budget, roles and responsibilities**
Main output: • **Output 3F-1.** Define the organizational structure of the Municipality for the implementation of the RUP. Roles and responsibilities (internal).	The objective of this action is to carry out an implementation plan for the RUP designed in Action 2F, to integrate it into the municipality, defining roles and

• **Output 3F-2.** Publish a Local Communication and Dissemination plan with the final list of stakeholders (co-creation and plan implementation). • **Output 3F-3.** Define the financial plan. Innovative financial tools. Annual budget.	responsibilities, and designing a financial plan.

RUP plan: Chapter VII. Processes and reforms

STEP A. Engage and Co-create	
Which level of development of the RUP we are?	I II III IV V VI VII
STEP A Main Objective: The objective of this step is to maintain the re-naturing process in time. The strategy template will help to establish structures to leverage the experiences of stakeholder committees to identify and overcome key barriers, drawing on learnings from other processes of the methodology. Citizens can play a role in research to support RUP development, as well as ongoing monitoring of RUP success; it is important that these programs are carefully selected and tailored for local contexts. The template strategy will offer guidance and best practice examples to develop locally appropriate citizen science programs. The template will also offer broader guidance and case studies on helping people connect with the natural values they find important.	**Engage and Co-create** **Actions 1A and 2A** ○ **Assess lessons learnt and validate the strategy**
Phase 1. Understand your present *Phase 2. Choose your future aspirations* *Phase 3. Integrate RUP and keep*	**Action 3A. Assess lessons learnt and validate the strategy**
Main output: • **Output 3A-1.** Assess lessons learnt and validate the strategy.	To collect the feedback on the implementation process of the RUP methodology and assess the strategy of the RUP development to inform any revision and/or tailoring the process.

Methodology diagram of actions by steps and phases

How to start?	1st. Understand your present	2nd. Choose your future aspirations	3rd. Integrate RUP and keep	"Renaturing Urban Plan"
A. Engage and Co-create	**Action 1A.** Identify and involve stakeholders • Output 1A-1. • Output 1A-2	**Action 2A.** Prepare for co-delivery • Output 2B-1.		**Chapter I.** Introduction to Re-naturing
B. Explore	**Action 1B.** Understand your "city" needs • Output 1B-1.	**Action 2B.** Choose your "city" targets • Output 2B-1	**Action 3B.** Prepare RUP Plan integration into the Urban Plans of Local Municipality • Output 3B-1. • Output 3B-2 • Output 3B-3. • Output 3B-4.	**Chapter II.** City Targets
C. Diagnose	**Action1C.** Understand your "city" capacity • Output 1C-1	**Action 2C.** Evaluate NBS Scenarios and select one • Output 2C-1.	**Action 3C.** Define list of NBS Projects and Actions • Output 2C-1.	**Chapter III.** City NBS Adopted Scenarios
D. Visualize	**Action 1D.** Map challenges • Output 1D-1.	**Action 2D.** Set spatial priorities for NBS • Output 2D-1.	**Action 3D.** Prepare assessment of the Impact and Risk • Output 3D-1.	**Chapter IV.** City Impact
E. Plan	**Action 1E.** Establish Baselines • Output 1E-1	**Action 2E.** Choose how success will be monitored • Output 2E-1.	**Action 3E.** Prepare the Up-scale Plan • Output 3E-1.	**Chapter V.** Monitoring Program and Action Plan
F. Inform	**Action 1F.** Promote the initiative • Output 1F-2. • Output 1F-2. • Output 1F-3	**Action 2F.** Publish the RUP • Output 2F-1.	**Action 3F.** Define budget, roles and responsibilities • Output 3F-1 • Output 3F-2 • Output 3F-3	**Chapter VI.** Roles and Responsibilities
A. Engage and Co-create	**Action 3A.** Assess lessons learnt and validate the strategy • Output 3A-1			**Chapter VII.** Processes and reforms

The work flow between the outputs

Work Flow	1st Understand your present		2nd Choose your future asprations		3rd Integrate RUP and keep	RUP Plan
A. Engage and Co-create	**Action 1A.** Identify and involve stakeholders	⇨2A	**Action 2A.** Prepare for co-delivery			Chap. I
	⇩1B		⇩2B-F		⇩3A	
B. Explore	**Action 1B.** Understand your "city" needs	⇨2B	**Action 2B.** Choose your "city" targets	**No direct link.**	**Action 3B.** Prepare RUP Plan integration	Chap. II
	⇩1C		⇩2C		⇩3C, 1F, 3F	
C. Diagnose	**Action1C.** Understand your "city" capacity	⇨2C	**Action 2C.** Evaluate NBS Scenarios and select one	⇨3C	**Action 3C.** Define list of NBS Projects and Actions	Chap. III
	No direct link.		⇩2D, 2E		⇩3D, 3E, 1F	
D. Visualize	**Action 1D.** Map challenges	⇨2D	**Action 2D.** Set spatial priorities for NBS	⇨3D	**Action 3D.** Prepare assessment of the Impact and Risk	Chap. IV
	⇩1E, 1F		⇩2E, 3E		⇩3E	
E. Plan	**Action 1E.** Establish Baselines	⇨2E, 3E	**Action 2E.** Choose how success will be monitored	⇨3E	**Action 3E.** Prepare the Up-scale Plan	Chap. V
	⇩1F		⇩3F		⇩3F	
F. Inform	**Action 1F.** Promote the initiative	**No direct link.**	**Action 2F.** Publish the RUP	⇨3F	**Action 3F.** Define budget, roles and responsib.	Chap. VI
	⇩3A		⇩3A		⇩3A	
	Action 3A. Assess lessons learnt and validate strategy					Chap. VII
	⇩1A, 2A, 1B, 2B					

Level of developments to city local RUP Plan

	Level of development of RUP:
Chapter I. Introduction to Re-naturing	I | II | III | IV | V | VI | VII
Action 1A. Identify and involve stakeholders. **Action 2A.** Prepare for co-delivery.	
Chapter II. City Targets	I | II | III | IV | V | VI | VII
Action 1B. Understand your "city" needs. **Action 2B.** Choose your "city" targets. **Action 3B.** Prepare RUP Plan integration into the Local Municipality Urban Planning Legal Elements.	
Chapter III. City NBS Adopted Scenarios	I | II | III | IV | V | VI | VII
Action1C. Understand your "city" capacity. **Action 2C.** Evaluate NBS Scenarios and select one. **Action 3C.** Define list of NBS Projects and Actions.	
Chapter IV. City Impact	I | II | III | IV | V | VI | VII
Action 1D. Map challenges. **Action 2D.** Set spatial priorities for NBS. **Action 3D.** Prepare assessment of the impact and Risk.	
Chapter V. Monitoring Program and Action Plan (Budget)	I | II | III | IV | V | VI | VII
Action 1E. Establish Baselines. **Action 2E.** Choose how success will be monitored. **Action 3E.** Prepare the up-scale plan.	
Chapter VI. Roles and Responsibilities	I | II | III | IV | V | VI | VII
Action 1F. Promote the initiative. **Action 2F.** Publish the RUP. **Action 3F.** Prepare the organization, define roles and responsibilities Municipality Structure.	
Chapter VII. Processes and reforms	I | II | III | IV | V | VI | VII
Action 3A. Assess lessons learnt and validate the strategy.	

References

Methodology full guide

- **Methodology Guide** *(URBAN GreenUP D1.14), Source: URBAN GreenUP, May 2022 (on-going);* ***URBAN GreenUP, July 2020 Second ver. D1.13,*** *currently available,* https://www.urbangreenup.eu/resources/deliverables/

List of Catalogues and Guides will help to specify the particular methodology components:

- **NBS Catalogue *(URBAN GreenUP D1.1), Source: URBAN GreenUP, May 2018,*** https://www.urbangreenup.eu/resources/deliverables/
- **Societal Challenge Catalogue *(URBAN GreenUP D1.2) , Source: URBAN GreenUP, July 2018,*** https://www.urbangreenup.eu/resources/deliverables/
- Diagnosis procedure Guide *(URBAN GreenUP D1.3), Source: URBAN GreenUP, September 2020 (on-going)*
- Baseline Calculation Guide *(URBAN GreenUP D1.4), Source: URBAN GreenUP, September 2020 (on-going)*
- **Barriers and Boundaries Guide *(URBAN GreenUP D1.5), Source: URBAN GreenUP, July 2018,*** https://www.urbangreenup.eu/resources/deliverables/
- **Zoning and Mapping Guide *(URBAN GreenUP D1.6), Source: URBAN GreenUP, May 2020,*** https://www.urbangreenup.eu/resources/deliverables/
- Tendering Process Guide *(URBAN GreenUP D1.9) , Source: URBAN GreenUP, December 2020 (on-going)*
- **Scaling UP Guide *(URBAN GreenUP D1.10),*** *Source: URBAN GreenUP, May 2022,* ***URBAN GreenUP, September 2020 Interim ver. D1.18*** *currently available,* https://www.urbangreenup.eu/resources/deliverables/
- **Co-creation and Co-development Guide** *(URBAN GreenUP D1.11), Source: URBAN GreenUP, May 2022 (on-going);* ***URBAN GreenUP, December 2019 Interim ver. D1.19,*** *currently available,* https://www.urbangreenup.eu/resources/deliverables/

List of the Tools

- NBS scenarios generation Tool *(URBAN GreenUP D1.7) with KPIs prioritization criteria Guide (URBAN GreenUP D1.8), Source: URBAN GreenUP, September 2020 (on-going)*
- Co-creation and Co-development Tools *(URBAN GreenUP WP6), Source: URBAN GreenUP, May 2022 ,* https://www.urbangreenup.eu/resources/nbs-selection-tool/nbs-selection-tool.kl