

Healthy corridors as drivers of social housing neighbourhoods for the co-creation of social, environmental and marketable NBS

KICK-OFF MEETING

Coimbra & Porto, 18-20 June 2018

Colégio das Artes, Coimbra

Quinta das Areias, Porto

Centro de Estudos Sociais

Departamento de Arquitectura da Faculdade de Ciências e Tecnologia da Universidade de Coimbra







UNIVERSIDADE DE COIMBRA



United Nations - University of Coimbra - Alta and Sofia , Scientific and - inscribed on the World Heritage al Organization - List in 2013

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1. Kick-off program

	Monday, 18th June		
Morning	Arrival to Porto or Lisbon & transfer to Coimbra		
12:00 - 14:00) - Reception of participants Light Lunch in the patio of the Colégio das Artes		
13:30 - 14:00	Music Connecting People		
14:00 - 16:00	 S1. Welcome URBiNATs! Welcome address by CES and UC Welcome address by Coordinator and Steering Committee S2. Knowing each other better and strengthening our partnership -Presentation of the Consortium's partners (each partner 2 minutes, not the participants) -Presentation of EU urban calls by Ugo Guarnacci(H2020) 		
16:00 - 16:30	Coffee break in the patio of the Colégio das Artes		
16:30 - 18:30	 S3. Presentation of the WPs and Catalogue S4. Our structure, governance and coordination Implementation structure / work plan Consortium bodies and functioning Coordination: overall description of WP1, including its first steps and deliverables (1st year) 		
19:00	Toast to URBiNAT- Cocktail reception, in the patio of the Colégio das Artes		
	Tuesday, 19th June		
8:30 - 10:30	 S5. Presentation of NBS and Urban Regeneration clustering, by Ugo Guarnacci (H2020) S6. From local diagnostics to the establishment of Living Labs and the integration in a Community of of Practices - WP2 WP2- Presentation of each city, in articulation with local partners Overall description of WP2 by WP leader, in articulation with task leaders 		
10:30 - 10:45	Coffee break, in the patio of the Colégio das Artes		
10:45 - 12:15	S7. Citizen engagement in a living catalogue as a corridor for co-creation - WPs 3 & 4 Overall description of WPs 3 & 4 by WP leaders, in articulation with task leaders		
12:15 - 13:00	S8. First steps and deliverables for WPs 2, 3 & 4 (1st year)		
13:00 - 14:00	00 Lunch, in the patio of the Colégio das Artes		
14:00 - 15:00	 S9. Project Management - information and clarifications of administrative issues with H2020 and CES' project management office - Agnieska Krajewska (H2020) and Rita Pais (CES). [only for project manager and partners coordinators] S10. Project Management - information and clarifications for cities - Agnieska Krajewska (H2020) and Rita Pais (CES). [only for project manager and partners coordinators of the cities - front and followers] 		
15:00 - 16:30	 S11. Measuring and maximizing impacts for replication and scaling - WPs 5, 6 & 7 Overall description of WPs 5, 6 & 7 by WP leaders, in articulation with task leaders First steps and deliverables for WPs 5, 6 & 7 (1st year) Accession of future partners and observers (with Iked) 		
16:30 - 17:00	Coffee break, in the patio of the Colégio das Artes		
17:00 - 18:30	 S12. Parallel working sessions: planning of first steps S12.a. Working group A: WP 2 S12.b. Working group B: WPs 3 & 4 S12.c. Working group C: WPs 5, 6 & 7 		
18:30 - 19:30	Closing session: General Assembly meeting		
20:00	Dinner, in Restaurant Passaporte (with reservation)		
	Wednesday, 20th June		
08:00 - 10:00	Travel to Porto by bus		
10:00 - 11:30	Visiting Porto neighbourhoods		
11:30 - 13:00	Meeting with Porto Municipality and local partners		
13:00 - 15:00	Farewell lunch		
14:00 - 16:00	Steering Committee meeting / WP1 follow-up		
15:00 - 17.00	Visit to Porto by Bus		

2. Music connecting people

By students from Professor André Madeira Coimbra Conservatory of Music and University of Coimbra

Vasco Grãos Heitor Villa-Lobos – "Chôro Típico" Roland Dyens – "Tango en Skai"

Margarida Moura Augustin Barrios Mangoré – "Un Sueño en la Floresta"

Duo de Guitarras from University of Coimbra Manuel de Falla – "La vida breve" Sérgio Assad – "Pinote"

Vasco Grãos, 12, initiated his guitar studies at the age 7 and currently attends the third grade of the Coimbra Conservatory of Music, being a student of Professor André Madeira since 2016. He has participated in 6 national and international guitar contests, being awarded in all of them, including 4 first prizes. He participated in masterclasses with Fabio Montomoli, Antero Pellikka, Dmytro Omelchak e Dejan Ivanovic.

Margarida Moura, 15, initiated her guitar studies at the age 8 and currently attends the sixth grade of the Coimbra Conservatory of Music, being a student of Professor André Madeira since the first grade. She has participated in several guitar contests and in 2017 she awarded the second prize in 2 of them. She participated in masterclasses with Goran Perisic, Juan Almada, Dejan Ivanovic e Fabio Montomolli.

The guitar duo was formed in January 2017 under the orientation of Professor André Madeira. Since then, they performed several times at the Coimbra Conservatory of Music and at the Machado de Castro National Museum. Its members, João Ribeiro and José Martinho, are studying Physics Engineering and Computer Engineering at the University of Coimbra. Both concluded the eighth grade of Classical Guitar at the Coimbra Conservatory of Music with Professor André Madeira and they both graduated with maximum classification. During their artistic path, they have been awarded in several guitar contests and they have been participating in many masterclasses with international renowned guitar players. They have also been performing solo with the Orquestra Clássica do Centro and the Coimbra Conservatory of Music.

3. URBiNAT presentation

URBiNAT focuses on the regeneration and integration of deprived social housing urban developments through an innovative and inclusive catalogue of Nature-Based Solutions (NBS), ensuring sustainability and mobilising driving forces for social cohesion. Interventions focus on the public space to co-create with citizens new urban, social and nature-based relations within and between different neighbourhoods. Taking the full physical, mental and social well- being of citizens as its main goal, URBiNAT aims to co-plan a healthy corridor as an innovative and flexible NBS, which itself integrates a large number of micro NBS emerging from communitydriven design processes.

URBiNAT consists of a worldwide consortium of academic and business partners around 7 European cities (Porto, Nantes and Sofia as 'frontrunners'; Siena, Nova Gorica, Brussels and Høje-Taastrup as followers), that will act as living laboratories to implement healthy corridor solutions. The cities will be supported by local partners, associations and research centres, and by Europe-wide centres, universities and companies. These will develop a participatory process, an NBS catalogue and a healthy corridor, while monitoring impacts, disseminating and marketing results. Together, they form an inclusive community of practice (CoP), collaborating with partners from Iran and China and NBS observers located in Brazil, Oman, Japan and a Chinese city, bringing experiences and an international dimension to the project.

Partners will contribute their innovative NBS experience deployed through an array of transdisciplinary knowledge, methodologies and tools, as nature-based solutions. This will be supplemented by 'smart' digital tools, citizen engagement, solidarity and social economy initiatives, social innovation for value-generation, incubation for business development and capacity building, and ICT governance platforms. The social, economic and urban impacts will be measured and replicated by URBiNAT Observatory.

4. General information

Project title: URBiNAT - Healthy corridors as drivers of social housing neighbourhoods for the co-creation of social, environmental and marketable NBS

Starting date: 01/06/2018

Duration in months: 60

Topic: Demonstrating innovative nature-based solutions in cities

Fixed EC Keywords: Social innovation, Participatory Innovation, Architecture, smart buildings, smart cities, urban engineering, Social structure, inequalities, social mobility, interethnic relations

Free keywords: Urban planning, public space, wellbeing, sustainable design, healthy corridor, active citizenship, democratic innovation, human rights, business model innovation, social and solidarity economy

Coordinator: The Centre for Social Studies of the University of Coimbra is a scientific institution focused on research and advanced training in the social sciences and the humanities from an inter- and transdisciplinary perspective.

Since CES foundation in 1978, it aims at doing research with and for an inclusive, innovative and reflexive society by fostering creative critical approaches to some of the timeliest challenges of contemporary societies.

CES team currently comprises 142 researchers, more than 114 post-doctoral researchers and nearly 478 PhD students, 57 junior researchers and 29 staff members.

Short name	Organisation name	Type of partner	Country
CES	Centro de Estudos Sociais	Coordinator	Portugal
ICETA-CIBIO	Instituto de Ciências, Tecnologias e Agroambiente da Universidade do Porto	Local Partner - Porto	Portugal
Porto	Câmara Municipal do Porto	Frontrunner	Portugal
Domus	Domus Social	Frontrunner support	Portugal
GUDA	Give u design art (GUDA-Innokinetics)	Horizontal Partner	Portugal
UC	Universidade de Coimbra	Horizontal Partner	Portugal
ITEMS	ITEMS	Horizontal Partner	France
CNRS	CNRS-IRSTV	Local Partner - Nantes	France
NMCU	Nantes Métropole NMCU	Frontrunner	France
UASG	University of Architecture Civil Engineering and Geodesy	Local Partner - Sofia	Bulgaria
Sofia	Municipality of Sofia	Frontrunner	Bulgaria
IULM	IULM University	Local Partner – Siena Horizontal Partner	Italy
FGF	Fondazione Giangiacomo Feltrinelli	Horizontal Partner	Italy
Siena	Comune di Siena	Follower	Italy
UA	Univ. Antwerpen	Local Partner – Bruxelles	Belgium
Bruxelles	Ville de Bruxelles	Follower	Belgium
UNG	Univ. Nova Gorica	Local Partner - NGorica	Slovenia
NGorica	Municipality of Nova Gorica	Follower	Slovenia
DTI	Danish Technological Institute	Local Partner - Høje- Taastrup	Denmark
Høje-Taastrup	Høje-Taastrup Kommune	Follower	Denmark
SLA	SLA Architects A/S	Company	Denmark
CF	City Facilitators	Company	Denmark
IKED	IKED	Horizontal Partner	Sweden
OWL	Hochschule OWL	Horizontal Partner	Germany
IAAC	Institut of Advanced Architecture of Catolonia	Horizontal Partner	Spain
NGS	New Growing System	Company	Spain
ICC	Iran Chamber of Commerce	Horizontal Partner	Iran
NSCJL	National Smart City Joint Lab	Company	China
Shenyang	Shenyang Municipality	Observer	China
URBEM	Institute of Urbanism and Studies for the Metropolis – San Paolo	Observer	Brazil
PEIE	Public Establishment for Industrial Estates	Observer	Oman
SU	Setsunan University	Observer	Japan

5. List of organizations participants URBiNAT consortium

6. Frontrunner Cities

PORTO



Proposal HC to link urban areas

Cerco do Porto, Falcão and Lagarteiro are the case study neighbourhoods to be linked with the proposed HC, assuring the articulation between them and the rest of the city of Porto and suppressing its present deprived condition by developing NBS and involving local communities in co-creation and co-designing processes towards the improvement of living standards concerning environmental, urban, housing and health aspects of the inhabitants' daily life.

Future scenario and desirable social condition

To connect the three neighbourhoods and surrounding context, contributing to; i) boost "soft" mobility; ii) to assemble ecologic systems and natural elements in healthy environments; iii) to open the three neighbourhoods to integrated networks of urban flows and dynamics of activities and local business; and, finally, iv) to engage the communities in collaborative processes for the co-creation of urban answers that will be part of co-design and application of NBS.

Participation process and potential stakeholders

Porto City Hall and Domus Social EM will work close to Campanhã Valley local administration institution. Several associations and organizations that will support the engagement are:

Portuguese Association of Disabled People; Solidarity and Social Action Association of Ramalde; Cultural and Sports Association of Falcão Neighbourhood; Ranch of Dances and Songs of Campanhã.

URBiNAT budget

Porto city - FR 1.097.000,00€ Domus Social EM 133.000,00€

Projects for social innovation

Domus BI.[A]: Profiles of Social Housing Data Visualized in Augmented Cartography of Porto. In order to achieve multidisciplinary solutions that encourage people's participation in community life, this project brings together efforts and resources between Domus Social EM, stakeholders and tenants in areas of community engagement and empowerment concerning data tracking, mapping and visualization in online open accesses digital platforms.

New NBS

New NBS will develop actions towards higher levels of thermal comfort in buildings and housing living conditions, adopting passive strategies to reduce energy consumption, to diminish air pollution, to decrease urban heat waves, to boost urban ecostructures (green walls, green roofs, social agriculture, linked green spaces, green economy) and communitarian activities and interaction in healthy public space.

Future participation in national and international networks

Domus Social EM finds interesting the following institutions and/or organizations for future inclusion in national or international networks: Comitê Português de Coordenação da Habitação Social; UN-Habitat; Housing Europe: European Federation of Public, Cooperative and Social Housing; International Association for Housing Science; International Society of City and Regional Planners.

NANTES NORD

Map - Diagram with Healthy Corridor

Proposal HC to link urban areas

The different micro-neighbourhoods and blocks of social housing will be inter-connected through green corridors that will be extended to the surrounding natural areas, prolonging one of the wing of the green star spreading all over the territory of Nantes. A greenway framework will complete the green network.

Future scenario and desirable social condition Improve the quality of life: and rehabilitate dwellings, green spaces will be linked to great landscape features by itinerary and cycling routes, urban agriculture will allow access to healthy food. **Improve the social cohesion**: a network of secondary roads will be completed to avoid dead-ends, larger urban roads will be more comfortable for all users (cyclists, pedestrians, cars) and safer. **Support the economic development:** shops will be renovated, develop employment, links with the university.

Projects for social innovation

Our proposal for Nantes city urban plan (or evaluation/adaptation of urban plan) is to study by scenarios (modelling and simulations) the impacts of NBS on microclimate and cooling effect (reduction of heat island) and also on the integrated water management at the district scale.

Participation process and potential stakeholders

From June 2016 to June 2017, inhabitants, companies, associations and the city set up a diagnosis of the district and started an overall reflection on the future of the neighbourhood. 900 persons were involved directly on public space. 745 participants took part in public events. The city also involved 155 participants from "specific public", meaning they are representatives of associations or companies. This database of potential stakeholders within the Nantes Nord district will be useful for the participation process within the Urbinat project.

New NBS

- Watercourse restoration (re-opening of a stream)
- Bike line stations
- Urban vegetable gardens and urban farming
- tree lined streets
- multi-channel democratic innovations

- Study on the possibility of developing a wood sector in the district: link between the important wood available on the district and the district heat system, a wood-fired plant.

URBiNAT budget 1.416.000,00	Future participation in national and international networks
	Nantes Métropole is involved in European and
	international networks: president of Eurocities in 2015 and 2016, and leads the local authority international negotiation group on climate change (UCLG – United Cities and Local Governments) since November 2009. The green spaces unit is involved in various french networks as "Plante et cité", center for landscape and urban horticulture : http://www.plante-et-cite.fr/; Association des jardins botaniques francophones:
	http://jbf-pf.org/ -Botanical Gardens Conservation International: - International Society of Camellia.

NORTH PARK E SVOBODA NEIGHBOURHOOD NADEZHDA NEIGHBOURHOOD G TOLSTOY E ENERGY WWATER G GREEN / NATURE F FOOD / NATUR

Proposal HC to link urban areas

Nine neighbourhoods are in the city boundaries: "Nadezhda" I, II, III and IV parts; "Tolstoy"; "Svoboda"; "Triagalnika"; "Iliyantsi" and "Trebich". A bike lane connects Nadezhda along Lomsko shose boulevard to the Central railway station and the centre of Sofia. Tolstoy neighbourhood is characterized with even deeper problems of all kinds so it was appointed to be special intervention area both in connection to Nadezhda.

Future scenario and desirable social condition

Healthy corridor linking the North Park to Sofia centre encompassing Nadezhda neighbourhoods; providing healthier t urban environment, nature inspired; pedestrian and bike-friendly area, with intensified greenery and improved street scale landscape applying innovative and smart technical solutions; new sports facilities based on local natural assets; improved nature and healthy life understanding and better personal habits for local pupils regarding food growth and preparing in combination with increasing physical activity; smart approach to create healthy life 'green fashion' for community young people;

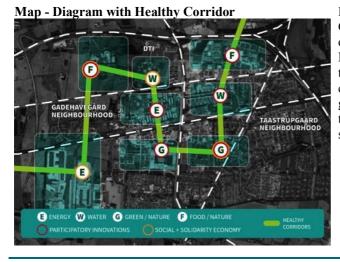
Projects for social innovation

The Bread Houses Network creates and unites centers for community-building, creativity, and social entrepreneurship, as the Nadezhda Crisis centre for children at risk "Faith, Hope and Love" Other new projects led by Sofia Municipality Social Activities Directorate; New Strategy and Action plan co-design for developing accessible urban environment in Sofia Municipality - Vice-Mayor for social activities initiative 2017 Green Industry Innovation Programme Bulgaria project - GIS platform for green crowdsourcing services

Participation process and potential stakeholders New NBS Local schools and kindergartens, mothers; local NGOs; Innovative technologies for thermal water usage: Nadezhda Home of culture; Nadezhda Social services heating systems for public buildings – piping, insulations, thermal regulation etc.; Swimming pool office; Locomotive sports club; UACG, Technical university Sofia; Sofia University St. Kliment Ohridski, water purification; Smart SPA procedures; Secondary Bulgarian academy of Science, Sofia Agency for Energy usage of cooled water; Methodology for adapting to Efficiency, Sports Sofia 2000, business providing local climate innovative solutions for green roofs; innovative technical solutions; Sofia Tech Park. Innovative methodology for evaluation of the efficiency of landscape measures for reducing traffic noise and air pollution. **URBiNAT** budget Future participation in national and international 1.191.000,00€ networks ICLEI - Local Governments for Sustainability, the leading global network of more than 1,500 cities, towns and regions committed to building a sustainable future.

7. Follower Cities

HØJE-TAASTRUP



Proposal HC to link urban areas

Gadehavegård has 2153 inhabitants. It is one of three deprived neighbourhoods in Høje-Taastrup Municipality. It is built in a classical, modernistic style typical of the Northern European tradition. Long concrete blocks sit alongside large parking lots and green spaces that are unfit for regular use. Major traffic arteries separate the neighbourhood from the surrounding city on all four sides.

Future scenario and desirable social condition

The desired future is one where the social balance is on par with the surrounding city, and where the physical setup is made not for cars but for the human scale. The institutional setup will be accompanied by a change in the urban fabric. There plans for creating a central park, giving the neighbourhood the much-needed space. It is into this project, that NBS solutions can be integrated.

Projects for social innovation

Due to the fact that the municipality has a long history of deprived neighbourhoods, the City Council has deemed it necessary to find sustainable and permanent solutions. The plan focuses on five main themes: 1. Urban restructuring, 2. Reformation from housing area to neighbourhood, 3. A proactive housing policy, 4. Holistic family planning programmes and 5. Priority programmes for schools and institution.

Participation process and potential stakeholders

Citizens of Gadehavegård (2152 inhabitants plus 2500 in surrounding blocks); Domea – The housing association of Gadehavegård; Sports and recreational groups of Høje-Taastrup Municipality; Gadehave School; Familiens Hus – The family planning house; Gadehavegårds boligsociale helhedsplan; The youth club

URBiNAT budget €482.000,00

New NBS

Høje-Taastrup Municipality will choose solutions that support already existing strategies for rain water management and physical restructuring of urban fabric in deprived areas. There will also be emphasis on choosing participatory solutions that help give a better understanding of citizen involvement thus expanding on the municipality's existing knowledge base.

Future participation in national and international networks

Danske parkdage Realdania – By I balance Boligsocial national ERFA Covenant of Mayors for Climate & Energy

BRUXELLES



Proposal HC to link urban areas Connect Neder Over Heembeek (NOH) with Laeken and Haren.

Future scenario and desirable social condition	Projects for social innovation
To connect Neder Over Heembeek (NOH) to the Laeken and Haren districts via corridors in order to remove it from its isolation even symbolically. Corridors should make people want to use active means of transport (bike, walking) to get out of the neighbourhood more easily instead of using public transportation.	 Projects for social innovation Project PERSPECTIVES Monitoring and support program of personalized coaching for young people (12 to 26 yo) to prevent recidivism.Goals :- Autonomy and emancipation - Accountability + Project Dream + To recover unsold fresh fruit and vegetables (1 ton per day) from merchants and to redistribute them to Bruxelles food aid associations. + Project Pens (i) onsQuartier + To reinforce mutual assistance between neighbours through the creation of local networks in order to: 1) create neighbourhood dynamics; 2) getting the elderly out of isolation; 3) fostering bonds of solidarity; 4) fostering well-being
Participation process and potential stakeholders Neder-Over-Heembeek associative platform: this platform brings together 37 associations active in the neighbourhood The digital platform for exchange and cooperation. "Bruxelles Participation", the service dedicated to the participation of citizens	New NBS The Healthy Corridor (Urban Plan) to connect NOH with Laeken and Haeren will identify and describe the existing green areas to improve the identified social and environmental problems, mainly: mobility accessibility and social cohesion in combination with green economy, improvement of employment and commercial activities
URBiNAT budget 406.000,00€	Future participation in national and international networks ICLEI Local Governments for sustainability Green digital charter

NOVA GORICA

Map - Diagram with Healthy Corridor

Future scenario and desirable social condition

NBS may improve the local situation in 2 different ways:

- 1. enhancing the flood safety of the area and it landscape quality.
- 2. Improving the mobility to/from old Gorizia, having a better social integration, despite the recent border.
- 3. It should be also stated that a valorisation of the cultural resources through NBS pathways may also enhance the cultural life of the two cities.

Participation process and potential stakeholders

Participatory experiences have been already tested in the area, also by the University of Nova Gorica in different project (Gotawrama, SUSTCULT, etc.).

Social movements in Slovenia, especially if related to health, security and environment, are very strong.

URBiNAT budget 316.800,00€

Proposal HC to link urban areas

Nova Gorica and Gorizia are presently 2 different local authorities, although historically were one. The proposed solution wants to connect both cities through an historic river, Koren, making it a healthy corridor for the Slovenian and Italian inhabitants. A way to connect cultural sites from both sides of the border to make people aware of them in a healthy environment. The dialogue between two different but common cultures is an opportunity to implement innovative NBS

Projects for social innovation

The Municipality has already started important initiatives that can be easily integrated and enhanced with the activities of the project. The participatory processes and the collaborative

meetings with stakeholders will be essential to build up a new commitment in the area.

The planning of Gorizia and of the GECT, presently very focused on the health improvement along the border, especially on the unification of health system.

New NBS

Considering the location in the Koren stream/river area, the NBS shall of a strong water impact. The river needs to be regenerated to become completely clean from pollution.

The main ecosystem-based approach applied could be:

- 1. Green infrastructure (GI)
- 2. Ecosystem based adaptation (EbA) -
- Natural Water Retention Measures (NWRM) this may include the entire range of solutions, including the green roofs in the socialist building blocks. All solutions are welcome, as Green Roofs, rainwater harvesting, permeable paving, Sustainable Drainage Systems.

Future participation in national and international networks

The city of Nova Gorica is very active in the participation in EU projects and networks, so there is really no limit in this regard and this is even more validated by the presence of the University of Nova Gorica and other important international centres in the area, including the GECT with Gorizia and Šempeter.

SIENA

Map -	Diagram	with	Healthy	Corridor



Future scenario and desirable social condition

Create social inclusion: To reduce solitude among the elderly by enhancing their skills that could be transferred to the target of young people included in project activities. Create social interaction networks that can be profitable for social inclusion and to connect with the resources of the city, also through the enhancement of cyclo-pedestrian path.

Proposal HC to link urban areas

The identified area is represented by facing neighbourhood in the valley of Follonica: Ravacciano, Vivaldi area and part of the historic centre. The neighboring population affected by the green area to be retraced is about 2900 inhabitants. Returning the area to Siena and the prospective population for social inclusion activities and improving the quality of life.

Projects for social innovation

The project of ANCI (National Association of Italian Municipalities) on urban peripheries presented 2016 dedicated to actions which improve the urban quality reuse public areas and existing building structures, the realization of new urban welfare models, sustainable mobility and cultural and educational activities. Project 'Operatori di strada', to promote the use of services by subjects, regular residents of the city center, who pay in particular social conditions, avoiding situations of degradation or bivouac for residents and beyond.

Participation process and potential stakeholders

University' of Siena - Botanical Garden; Contrade; The Social Department of the City- co-design for the activities where social inclusion is planned.

URBINAT budget 381.000,00

New NBS

Pedestrian and bike paths, gym circuit in the green area included in the project. This area could be connected with other bike routes actually in design and public transport system to facilitate the use also to other neighbourhoods.

Future participation in national and international networks

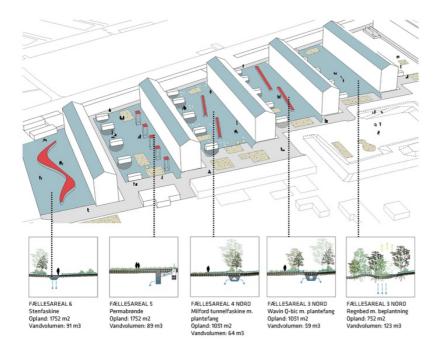
8. NBS Catalogue

8.1 Technological NBS



ENERGY		
Biophotovoltaic System - vertical and horizontal	System for producing energy from plants	
elements IAAC	growing process	
WATER/FOOD		
Supernutrients Bioreactors IAAC	Technological	
-	Spirulina algae bioreactors toolkits.	
Hydroponic Digital Winter Gardens IAAC	Technological	
	Rooftop or public space hydroponic orchard- community agriculture	

8.2 Territorial NBS













GRE	EN NATURE		MOBILITY
Wildlife Park (Includes Urban Park, Urban Wetlands) CIBIO	Biodiversity park for recreational use	Bike Lines and Stations UA	Bike Lines and Stations promote a fast and secure link between different mobility points, green spaces, residential and commercial areas of the city.
Autochthonous Urban Forest (Includes Tree lined streets) CIBIO	Urban woodland, designed and managed according to ecological, aesthetic and economic principles.	Electrical Charging Stations UA	Electrical Charging Stations promote a fast and secure link between different mobility points, green spaces residential and commercial areas of the city.
Green Roof (includes Public Green Roof, Green Roof - Intensive/ extensive) SLA	Roof of a building covered by vegetation that grows over an impermeabilization membrane and a soil substrate.	Urban- Mobility- Charing based on renewable energies UA	Charing of different mobility systems (car, bike, bus) that allow for a more flexible and individual participation in mobility.
	TER/NATURE		BIODIVERSITY
Rainwater management and recirculation in residential areas (Includes SUDS) SLA	Rainwater management with nature and techs, replicating the drainage patterns of the natural systems	Bee hive provision and adoption IKED	The provision of beehives, biodiversity gardens and habitat creation for the purpose of stimulating the proliferation of pollinating insects and birds.
	DD/NATURE		WATER
Urban Vegetable Gardens (Includes Intercultural Garden, Tasty Gardens, Rooftop Farming) UA/UASG	Social spaces that serve urban recreational purposes, supply organic fruit and vegetables and pursue intercultural communication and integration on the basis of a resource-oriented approach.	Water-course Restoration CIBIO	A forced underground watercourse is brought back to surface and its flowing canal recreated.
		/NATURE	
Renaturalization of brownfields, abandoned infrastructures and degraded ecosystems (Includes Permeabilization of Impervious Surfaces) CIBIO	Industrial areas, abandoned city buildings or infrastructures can be renaturalized and upcycled to provide important ecological and social functions.	Treesolution IKED	The Groasis system mimics mother nature in the way trees are planted.

8.3 Participatory NBS





SUPERBARRIO





PARTICIPATION			
Forum Theatre CES	Forum Theatre is a methodology based on techniques, games and exercises that promote dialogue among participants by dissolving the limits among stage and audiences.	Motivational Interviewing IKED	Behavioural change methodology used to initiative a dialogue for the purpose of building understanding about outstanding needs.
Cultural mapping CES	Brings together democratic and artistic methodologies to make visible and situate cultural assets, practices, knowledges, memories, and stories within a specific territory.	Super Barrio IAAC	Augmented reality application designed to give to the users the opportunity to design their own neighbourhood.
Photovoice CES	Photovoice documents and reflects reality in an empowering and inclusive process.	Multichannel Democratic Innovations CES	Design and management of multi- channel innovations to combine traditional in person processes and online means of interaction between participants
World café CES	Embodies the principles and practices of collective conversation to access community wisdom.	Serious games and gamification for NBS CES	Simulates the deliberative processes underlying NBS solutions in an imaginary setting

Focus groups <i>in</i> situ CES	Creates an accepting environment that puts a small number of participants at ease allowing then to thoughtfully answer questions.	Participatory budgeting CES	Non-elected citizens are involved in a complex and extended deliberative process and dialogue with local authorities to decide how to allocate part of a public budget
Public Libraries / Community Centers UA	Serve as a neutral space for urban encounter, a creative space and a stimulator and active networker of social cohesion.	Municipal regulations for inclusive participation CES	Collectively define the rules and the incentives to support the participative process that will be implemented at local context
Community workshops CES	Open meetings facilitated and organized in small groups in which participants are invited to debate a specific thematic. Participatory innovations	Community- Based Monitoring CES	Social accountability tool that promote an organized way of collecting ongoing or recurring information at the local level for planning, budgeting and implementing local development programs, as well as for monitoring and evaluating their performance.
Design Thinking GUDA	Founded on the ability to combine empathy for the context of a problem, creativity in generating ideas, insights and solutions, and rationality to analyse and match solutions to the context.	Most Significant Change Technique CES	Tool for assessing the changes and impacts of a program from the perspective of program participants.
LearnForLife (LfL) IKED	Methodology to inspire an adjustment in behaviour using natural interests and trigger.	Deliberative Democratic Evaluation CES	Participatory monitoring and evaluation tool that focuses on inclusion, dialogue, and deliberation by the whole community.

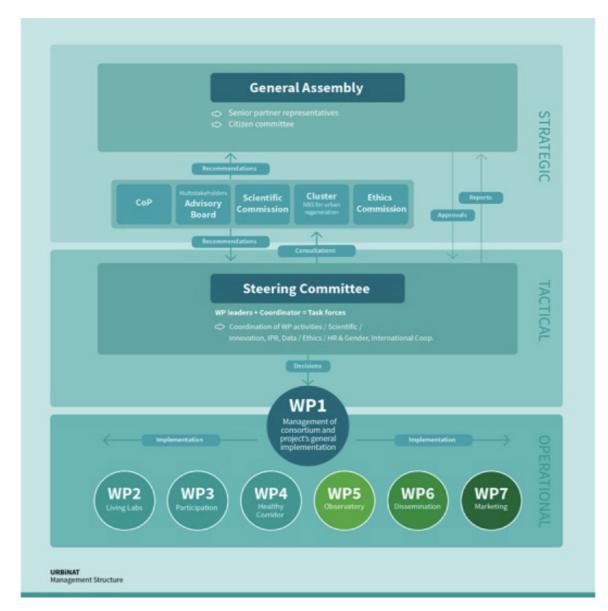
8.4 Solidarity Economy



SOLIDARITY ECONOMY			
Solidarity fairs/markets CES	Values the diverse knowledge of the community members and creates a circuit of integration and self- economic and social organization	Repair-Cafés UA	Free meeting places to learn all about and practise repairing things (together).
Social currencies CES	Created and managed by a community, with the objective of promoting local economy	Recycling Exchange UA	To collect, store and reuse of used materials and products.
Time bank CES	Solidarity exchanges that promote the meeting between the offer and the demand of services made available by its members.	Professional Training Centers UA	Provide practical skills related to the NBS (urban gardening/farming, maintenance and craftmanship, digital fabrication, sales and trade).
Production chains CES	The chains comprise all the stages carried out to develop, distribute and market a good or service until its consumption.	Local exchange trading system (LETS) CES	Local community-based mutual aid networks in which people exchange all kinds of goods and services with one another, without the need for money or with a complementary currency.

9. Organisational structure

The defined management structure will ensure clarity and responsibilities for participants, providing a framework for reporting and advising within and beyond the consortium. The key management organs and their functions are described below. A more detailed description will be provided in the consortium agreement. The above figure illustrates the organisational structure for URBiNAT project, conceived to ensure its efficient management, and designed as a participative and collaborative structure, in line with its vision of inclusion and its mission of co-creation.



The main decision body is the general assembly (GA), composed of the partners representatives, and a citizen committee issued from the CoP. For decision-making processes, the following strategies will be considered: consensus on the matter, requirement for the presence of 2/3 of representatives, each member entitled to one vote, qualified majority (²/₃ or ³/₅ of votes). The decisions will be executed by the participants of the work packages, under the supervision of the corresponding work package leaders and in collaboration with the steering committee. The steering committee is composed of the coordinator and all work packages leaders, as well as task leaders who are invited to participate according to the issues to be managed. The steering committee reports quarterly to the GA on developments, progress and results of activities. It also shares the project's progress and results with the CoP in an annual conference to be organized in partnership with Living Labs. Proposals for

decision will be submitted by the steering committee. Issues leading to a contractual change will be forwarded to the EC by the project coordinator.

Specific reporting and consultations procedures enable that at all levels of management the views and recommendations of partners, stakeholders and citizens of the concerned areas/neighbourhoods are considered (general assembly composed of partners representatives and citizen; CoP; invitation of representatives of the European Commission on the occasion the GA's meetings). External representatives of different sectors of society, external experts and other NBS actors will be consulted to share knowledge and advice: multi-stakeholder advisory board, scientific commission, ethics commission and, cluster of successful consortiums of the 2017 round. These four advisory bodies have consultative roles. They receive consultations from the GA and/or the steering committee and reply with recommendations, which will help in the decision-making process.

9.1 Advisory board

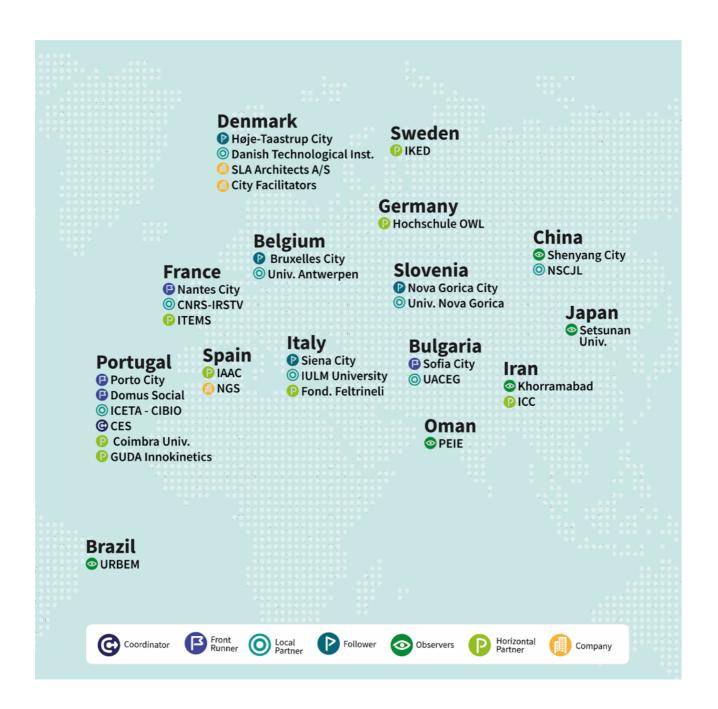
The members of the multi-stakeholder advisory board, the scientific commission and the ethics commission are a core group of scholars, researchers and professionals, as well as coordinators of the European research projects, as the successful consortiums of the H2020/2016 round on NBS (UNALAB, URBAN GreenUP, CONNECTING Nature). The members who already confirmed their interest in the planning stage of URBiNAT are:

- 1. Alessandra Capuano Professor of Architecture and Urban Design at the Faculty of Architecture Sapienza University;
- 2. Ana Tostões Professor of Architecture at the Instituto Superior Técnico of Lisbon;
- 3. Antonio Tavares Associate Professor at the School of Economics and Management of the University of Minho; Adjunct Associate Professor at United Nations University EGOV;
- 4. **Caroline Andrew** Professor Emeritus, Director of the Centre on Governance at the University of Ottawa;
- 5. **Costanza La Mantia** Honorary Research Fellow and Lecturer at the School of Architecture and Planning of the University of the Witwatersrand;
- 6. Edésio Fernandes Professor at the Development Planning Unit of the University College London, Professor at the Lincoln Institute of Land Policy in Cambridge MA, US;
- 7. Francesco Molinari PI of Designscapes, Horizon 2020 project CO-CREATION-02-2016;
- 8. **José Luiz Fernández-Pacheco** Member of the technical team of Economías BioRegionales EBR, collaborator of the Instituto de Moneda Social IMS;
- 9. Katriina Soini Sustainability Science Fellow at University of Helsinki, Center for Environment, HENVI;
- 10. **Konstantina Demiri** Professor of Architectural Design at the School of Architecture of the National Technical University of Athens;
- 11. Lars Hulgård sociologist Professor at the University of Roskilde (RUC), Center for Social Entrepreneurship;
- 12. Luciane Lucas dos Santos Visiting Scholar at the Federal University of the Southern Bahia, in Brazil, other economies, feminist approach;
- 13. Luigi Fusco Girard Professor of Department of Architecture at the University Federico II Naples;
- 14. **Marcos Cruz** Professor of Innovative Environments, Director of BiotA Lab, The Bartlett School of Architecture, University College London;
- 15. **Marcus Collier** PI of Connecting Nature, Horizon 2020 project SCC-NBS-2stage-2016, and Professor at the School of Natural Sciences Trinity College Dublin of the University of Dublin;
- 16. **Mauro Antonio Moraes Victor** Brazilian agronomist specializing in forestry science, previous Director of Instituto Florestal in Sao Paulo;
- 17. **Michael Melenhorst** PI of RMB Reuse of Modernist Buildings, and Professor of Architecture at Hochschule Ostwestfalen-Lippe of the University of Applied Sciences;
- 18. **Miimu Airaksinen** PI of UNALAB, Horizon 2020 project SCC-NBS-2stage-2016, and Professor Ecoefficient Built Environment, VTT, Technical Research Centre of Finland;
- 19. **Milena Dragicevic Sesic** Head of the UNESCO Chair in Studies of Interculturalism, Art and Cultural Management and Mediation in the Balkans at the University of Arts in Belgrade;

- 20. **Mike Ameko Lippert** is a strategic advisor with in-depth knowledge of global trends and sound experience in driving sustainable change and branding processes. For more than a decade, he has advised The City of Copenhagen on setting an international green agenda and realising its sustainable urban development goals.
- 21. Patrizia Messina Professor of Political Science at the University of Padua;
- 22. Pedro Hespanha Professor at the Faculty of Economics of the University of Coimbra;
- 23. **Peter Nijkamp** Emeritus Professor in regional and urban economics, and in economic geography at Vrije Universiteit Amsterdam;
- 24. **Raul Sanchez** PI of URBAN GreenUP, Horizon 2020 project SCC-NBS-2stage-2016, and Researcher at Cartif Technology Centre;
- 25. **Roberta Della-Pica** social justice advocate/activist in Canada for issues facing aboriginals, especially violence against women, traditional / Aboriginal healing and wellness consultant, designer and facilitator;
- 26. **Rogério Roque Amaro** Professor at ISCTE, member of RIPESS Europe, investigator at CEI-IUL, solidarity economy;
- 27. Teresa Caldeira Professor of City and Regional Planning at the University of California, Berkeley;
- 28. Teresa Heitor OECD expert, Professor of Architecture at the Instituto Superior Técnico of Lisbon;
- 29. Thomas Kleefeld senior expert and specialist in Occupational Health, Safety and Environmental Management, project director at Qualies;
- 30. Wanda Capeller Professor of Sociology of Law at Sciences Po Toulouse;
- 31. Xavier Greffe Professor of Economics at the University of Paris I;
- 32. Yves Cabannes Emeritus Professor of Development Planning at the Bartlett Development Planning Unit of the University College London;
- 33. Hiroshi Okano Professor at Osaka City University OCU, Urban Research Plaza;
- Paolo Massimo Buscema Director of Semeion Research Center of Sciences of Communication, Rome, Italy; Full Professor Adjoint at the Department of Mathematical and Statistical Sciences, University of Colorado, Denver, USA;

10. Community of Practices (CoP): from a Community of Partners to a Community of Practice

10.1 Together we form an inclusive Community of Practices



10.2 One of URBiNAT's major goal: promote social cohesion through the activation of living labs and engagement of a Community of Practices

The CoP will be established, at a transversal level, with each of the seven URBiNAT's cities and with URBiNAT's observers. The CoP will gather participants from each Living Lab, including citizens, local partners, associations, research centres, and companies, applying inclusive methodologies and activities.

The main objective of the CoP will be to establish a communication and ideas sharing protocol to identify transversal principles and methods used during the process of NBS co-creation, co-development co-implementation and co-assessment, to study the impact of the NBS on deprived districts, methodologies for the replication and up-scaling of NBS, and methodologies for NBS implementation in urban plans.

It activates coaching and mentoring on NBS between frontrunner and follower cities (EU and non-EU). More specifically, URBiNAT establishes a CoP in order to:

- feed international networks for cross pollination;
- develop mentoring processes on good practices;
- promote exchange and twinning between frontrunner and follower cities.

Through annual Conference of URBiNAT's CoP hosted in different URBiNAT's cities and with the permanent support of an open platform within URBiNAT's website, the CoP will share experiences and learned knowledges from the local Living Labs. On the occasion of the annual conference the Steering Committee will share the project's progress and results with the CoP.

The CoP will also be supported by URBiNAT's dissemination and communication, namely by building a broad CoP with potential end-user's stakeholders and experts, which is a concrete instrument to increase and enhance networking and capacity building into other cities. This will permit stakeholders to concretely perform networking activities in their target areas, taking into account their own and real needs related to the identified societal challenges in urban planning.

These practice's knowledges resulting from CoP's interactions will benefit each city individually, within a dynamic loop of feedback. They will also constitute high relevant references for the EU-wide Reference Framework for NBS based on the lessons learned with the main aim of strengthening EU leadership. Moreover, it is expected that the CoP's interactions will continue beyond the project's lifetime and its impacts will be replicated and disseminated through the Observatory's actions.

11.Resume of WPs

WP1	Management of consortium and project's general implementation
M01 – M60	CES, ICETA, ITEMS, IULM, UNG, DTI, CF, IKED
Coordinator	Gonçalo CANTO MONIZ – <u>gmoniz@ces.uc.pt</u>

Tasks list and participants:

Task 1.1 Coordinate and monitor the implementation of activities (M01 - M60). **Participants:** CES, WP leaders (ICETA-CIBIO, UNG, DTI, IULM, ITEMS, CF), and IKED (as task leader of the Non-European partners participation)

Task 1.2 Scientific coordination (M01 - M60). **Participants:** CES, WP leaders, and task leaders according to issues (ICETA-CIBIO, UNG, DTI, IULM, ITEMS, CF), and IKED (as task leader of the non-European partners participation)

Task 1.3 Innovation, IPR and data management (M01 - M60). **Participants:** CES, WP leader, and task leaders according to issues (ICETA-CIBIO, UNG, DTI, IULM, ITEMS, CF), and IKED (as task leader of the Non-European partners participation)

Task 1.4 Ethics analysis (M01 - M60). **Participants:** CES, WP leader, and task leaders according to issues (ICETA-CIBIO, UNG, DTI, IULM, ITEMS, CF), and IKED (as task leader of the Non-European partners participation)

Task 1.5 Inclusion of cross cutting dimensions: human rights and gender, international cooperation (M01 - M60). **Participants:** CES, WP leader, and task leaders according to issues (ICETA-CIBIO, UNG, DTI, IULM, ITEMS, CF), and IKED (as task leader of the Non-European partners participation)

Task 1.6 Administrative and financial coordination (M01 - M60). Participants: CES

Task 1.7 Communication with EC, among partners, and day-to-day point of contact (M01 - M60). **Participants:** CES, ITEMS

List of Deliverables:

D1.1 Handbook on workflow and standard quality procedures (R, PU, M6)

D1.2 Handbook on the theoretical and methodological foundations of the project (R, PU, M6)

D1.3 Data Management Plan (R, PU, M6)

D1.4 Report with the composition of the ethics commission, submission of additional requirements/approvals, and ethical principles guidelines (R, PU, M6)

D1.5 Compilation and analysis of human rights and gender issues (R, PU, M12, M24 [D1.8], M36 [D1.9], M48 [D1.10], M60 [D1.11])

D1.6 Guide/manual on preliminary ethical guidelines, and communication and reporting procedures (R, PU, M2) D1.7 Dissemination package: basic set of dissemination material for the project (R, PU, M6)

WP 2	Living labs in frontrunner and follower cities		
M01 – M60	ICETA, CES, CMP, Domus Social, ITEMS, CNRS, NMCU, UASG, SOFIA		
	MUNICIP, IULM, FGF, COMUNE DISIENA, UANTWERPEN, STAD		
	BRUSSEL, UNG, NOVA GORICA, DTI, HTK, SLA A/S, IKED, IAAC,		
	ICCIMA, NSCJL		
Coordinator	José Miguel LAMEIRAS - josemlameiras@gmail.com		

Tasks list and participants:

Task 2.1 Local diagnostics in Frontrunner and Follower (M1-M18 in frontrunner cities / M24-M36 in follower cities). **Participants:** IULM, Frontrunner cities – Porto (CMP), Nantes (NMCU) [and LTP Ville de Nantes], Sofia (Sofia Municip); CNRS [and TLP UN, IFFSTAR and Agrocampus]; UASG and IAAC, Follower Cities - Nova Gorica, Høje-Taastrup, Siena, Bruxelles, UNG, DTI, UA, CES, ICETA-CIBIO.

Task 2.2 Networking (M12-M54). **Participants:** ICETA-CIBIO + UNG, Frontrunner cities – Porto (CMP), Domus, Nantes (NMCU) [and TLP Ville de Nantes], Sofia (Sofia Municip); CNRS [and TLP IFFSTAR]; UASG, IAAC, Follower Cities - Nova Gorica, Høje-Taastrup, Siena, Bruxelles, DTI, IULM, UA, ITEMS.

Task 2.3 Coaching and Sharing to create the CoP (M18-M54). **Participants:** IKED, Frontrunner cities – Porto (CMP), Nantes (NMCU) [and TLP Ville de Nantes], Sofia (Sofia Municip), Domus; ICETA-CIBIO; CNRS, UASG, IAAC, FGF, Follower Cities - Nova Gorica, Høje-Taastrup, Siena, Bruxelles, UNG, DTI, IULM, UA, ITEMS, IKED, Non-European partners - ICC, NSCJL, Observers.

Task 2.4 Local Urban Plans for URBiNAT cities (M18-M30 in frontrunner cities / M36-M54 in follower cities). **Participants:** CES task leader, Frontrunner cities – Porto (CMP), Nantes (NMCU) [and TLP Ville de Nantes], Sofia (Sofia Municip), Domus; ICETA-CIBIO; CNRS; UASG; IAAC, Follower Cities - Nova Gorica, Høje-Taastrup, Siena, Bruxelles, UNG, DTI, IULM, UA, SLA.

Task 2.5 Common Road Map for NBS (M36-M60). **Participants:** ICETA-CIBIO + UNG, Frontrunner cities – Porto (CMP), Nantes (NMCU) [and TLP Ville de Nantes], Sofia (Sofia Municip), Domus; CNRS [and TLP IFFSTAR]; UASG; IAAC, Follower Cities - Nova Gorica, Høje-Taastrup, Siena, Bruxelles, DTI, IULM, UA

List of Deliverables:

- **D2.1** Diagnosis report for each frontrunner city (R, PU, M18)
- D2.2 Local reports on multi-stakeholder meetings/events and partnerships (R, PU, M48)
- D2.3 Establishment of the Community of Practices (CoP) (DEC, PU, M24)
- D2.4 Urban plans (DEM, PU, M30)
- D2.5 Road map for NBS and healthy corridors planning and implementation (R, PU, M60)
- **D2.6** Diagnosis report for each follower city (R, PU, M36)

WP 3 Citizen engagement in support of NBS			
M01 – M54	DTI, CES, ITEMS, IULM, CF, IKED, IAAC, GUDA		
Coordinator	Knud Erik HILDING-HAMANN - khi@teknologisk.dk		

Tasks list and participants

Task 3.1 Stocktaking and research on participatory culture (M1 - M12). **Participants:** DTI, IKED, CES

Task 3.2 Design of community-driven processes (M6 - M18). Participants: CES, DTI, IKED, GUDA, CF

Task 3.3 Content for digital communication support (M6 – M24). **Participants:** IKED, DTI, GUDA, ITEMS

Task 3.4 Application and sharpening of digital communication support (M18 – M32). **Participants:** IKED, DTI, GUDA, ITEMS

Task 3.5 Participatory training workshops (M6 – M54). **Participants:** GUDA, DTI, IKED, IAAC, CES

Task 3.6 Amplifying participatory solutions (M36 - M54). Participants: DTI, IULM, GUDA, CES

List of deliverables:

D3.1 Report on strategic design and usage of participatory solutions and relevant digital tools in support of NBS uptake (R, PU, M12)

D3.2 Report on community-driven processes to co-design and co-implement NBS (R, PU, M18)

D3.3 Portfolio of methods for operationalizing interactive communication in support of NBS uptake (OTHER, PU, M24)

D3.4 Report presenting lessons of implementing smart digital tools in NBS, along with guidelines and manuals (R, PU, M32)

D3.5 Report on pilot participatory workshop on community-driven process for the co-creation of healthy corridors and NBS (DEM, PU, M36)

D3.6 Assessment reports on progress, results and insights for the combination of methods, citizen engagement, and usage of digital tools. (R, PU, M36)

D3.7 Participatory Handbook for NBS (R, PU, M54)

D3.8 Assessment reports on progress, results and insights for the combination of methods, citizen engagement, and usage of digital tools. (R, PU, M54)

WP4	Healthy corridors and URBiNAT's NBS catalogue		
M06 – M54	CES, ICETA, CMP, Domus Social, CNRS, NMCU, UASG, SOFIA MUNICIP,		
	IULM, COMUNE DI SIENA, UA, STAD BRUSSEL, UNG, NOVA GORICA,		
	DTI, HTK, SLA A/S, CF, IKED, IAAC, UC, NGS		
Coordinator	Gonçalo CANTO MONIZ - gmoniz@ces.uc.pt		

Tasks list and participants:

Task 4.1 Review of URBiNAT NBS catalogue (M6-M30). **Participants:** CES task leader with IAAC, ICETA-CIBIO, IKED, UA, IULM, SLA, DTI, CNRS [and TLP UN, IFFSTAR and Agrocampus].

Task 4.2 Territorial and technological NBS Co-design (M6-M30). **Participants:** IAAC task leader, ICETA-CIBIO, SLA, CES, DTI, NGS, UA.

Task 4.3 Manufacturing of technological NBS prototypes for testing and demonstration (M18-M30). **Participants:** DTI task leader, IAAC, ICETA-CIBIO, SLA, NGS, UA.

Task 4.4 Healthy Corridor concept. Urban co-planning methodology for territorial and technological NBS (M6-M30 in frontrunner cities / M36-M48 in follower cities). **Participants:** CES, UC, SLA, ICETA-CIBIO, UASG, CNRS [and TLP UN, IFFSTAR and Agrocampus], IULM, UNG, DTI, Porto, Nantes [and TLP Ville de Nantes], Sofia, Siena, NGorica, Høje-Taastrup, Bruxelles.

Task 4.5 Models, diagrams, and technical drawings to characterize / define urban planning (M24-M30 in frontrunner cities / M36-M42 in follower cities). **Participants**: CES, UC, SLA, ICETA-CIBIO, UASG, CNRS, IULM, UNG, DTI, Porto, Nantes, [and TLP Ville de Nantes], Sofia, Siena, NGorica, Høje-Taastrup, Bruxelles.

Task 4.6 Co-implementation in the frontrunners of the healthy corridor (M30-M48 in frontrunner cities). **Participants:** CES, UC, SLA, NGS, ICETA-CIBIO, UASG, IAAC, Porto (CMP), Domus, Sofia (Sofia Municip), Nantes (NMCU) [and TLP Ville de Nantes], Høje-Taastrup, Bruxelles, Nova Gorica, Siena, UA, UNG, DTI, IULM, UC, CNRS [and TLP IFFSTAR].

Task 4.7 Healthy Corridor market potential for social and solidarity economy (M30-M54). **Participants:** CES, IULM, UA, CF.

Deliverables list:

D4.1 New NBS (R, PU, M30)

D4.2 Project for the Healthy Corridor Concept (Drawing, Models, Specifications) to support Urban Plans. (DEM, PU,

M30)

D4.3 NBS implementation strategy (R, PU, M30)

D4.4 Handbook for Urban Plan Healthy Corridor. (R, PU, M48)

D4.5 Social incubators and corresponding promoted initiatives. (DEM, PU, M54)

WP 5	Observatory for Urban Inclusive and Innovative Nature – OURBiNAT		
M06 – M60	IULM, CES, ITEMS, CNRS, UASG, UA, UNG, IKED, OWL		
Coordinator	Guido FERILLI - guido.ferilli@iulm.it		

Tasks list and participants:

Task 5.1 Data management (M7-M30). Participants: IULM, ITEMS, UA, IKED, OWL, CNRS.

Task 5.2 Monitoring and evaluation and simulations (M19-M36)

Participants: IULM, CES, ITEMS, CNRS [and TLP IFFSTAR], UASG, UNG, IKED, OWL.

Task 5.3 Health effects and impact on well-being of nature-based solutions (M37-M60). **Participants:** OWL, CES, CNRS [and TLP UN].

Task 5.4 Economic and social impact of nature-based solutions (M36-M60). Participants: UA, CES, IKED.

Task 5.5 Role and effect of difference local/regional governances where NBS are implemented (M36-M60). **Participants:** CES, ITEMS.

Task 5.6 Action-research and systematization for the development of an EU-wide reference framework for NBS (M06-M60). **Participants:** CES, ITEMS.

List of deliverables:

D5.1 Long-term sustainable data platform(s), enabling measurements, responses, in real time (DEC, CO, M12)

D5.2 Ongoing monitoring and evaluation platform (DEC, PU, M24)

D5.3 Research report on health effects and impact on well-being of nature-based solutions (R, PU, M60)

D5.4 Research report on economic and social impact of nature-based solutions (R, PU, M60)

D5.5 Evaluation report on the implementation, replicability and up-scaling of NBS (R, PU, M60)

D5.6 Scientific report on the establishment of an EU-wide reference framework for NBS (R, PU, M60)

D5.7 Systematization report with community validation (R, PU, M60)

WP6	Dissemination and Communication		
M01 – M60	ITEMS, CES, CNRS, UASG, IULM, FGF, UANTWERPEN, UNG, IKED,		
Coordinator	HOCHSCHULE OWL, GUDA, ICCIMA, NSCJL Sebastien LEVY - <u>slevy@items-int.eu</u>		

Tasks list and participants

Task 6.1 Develop and implement a communication and dissemination plan (M1-M6). **Participants:** ITEMS, GUDA, CES, all WP leaders for monthly meetings.

Task 6.2 Development of material and tools (M1-M60). Participants: CES, ITEMS, GUDA.

Task 6.3 Dissemination of publications and the NBS Catalogue (M1 – M60). **Participants:** ITEMS, CES, CNRS [and TLP UN, IFFSTAR and Agrocampus], UASG, FGF, UA, UNG, OWL, NSCJL, IKED, GUDA, IULM, ICCIMA.

Task 6.4 Networking and participation in events and conferences (M1– M60). **Participants:** ITEMS, CES, CNRS [and TLP UN, IFFSTAR and Agrocampus].

List of deliverables:

D6.1 Dissemination and communication plan (R, PU, M6)

D6.2 Website and newsletter (DEC, PU, M6)

D6.3 Short report on scientific publications (R, PU, M60)

D6.4 Short report on proceedings of conferences and workshops (R, PU, M60)

WP 7	Market Assessment and Business Case Development for NBS
M06 – M60	CF, CES, ITEMS, IULM, UA, UNG, IKED, NGS, ICCIMA, NSCJL

Coordinator Luise NORING - <u>lno.msc@cbs.dk</u>

Tasks list and participants:

Task 7.1 Select best practice NBS projects within the three frontrunner cities based on their market potential (M6-M30). **Participants:** CF, ITEMS.

Task 7.2 Conduct interviews with local stakeholders who are engaged in implementation of the NBS to identify and validate costs, benefits and key enabling features (M18-M30). **Participants:** CF, CES.

Task 7.3 Write up business cases for the most marketable and bankable NBS solutions (M30-M42). **Participants:** CF, NGS, UNG.

Task 7.4 Select business cases for replication and scaling (M36-M48). Participants: CF, CES.

Task 7.5 Derive policy recommendations for replication and scaling best practice NBS business cases (M36-M60). **Participants:** IKED, CES, ICC, IULM, UA, CF, NSCJL.

List of deliverables:

D7.1 Report identifying market potential for different NBS solution, determine criteria for selection of NBS projects and shortlist of NBS projects in each of the three frontrunner cities (R, PU, M30).

D7.2 Document with main findings of interviews (R, CO, M30).

D7.3 Business cases for the most marketable and bankable NBS solutions in frontrunner cities (R, CO, M42). D7.4 Proceedings of workshops on the selection of business cases for replication and scaling in follower cities (R, PU, M48).

D7.5 Report analysing best policy practice presenting a "map" of measures and actions recommended in support of business and value creation from NBS for different circumstances (R, PU, M60)

D7.1 Report identifying market potential for different NBS solution, determine criteria for selection of NBS projects and shortlist of NBS projects in each of the three frontrunner cities [M30]

D7.2 Document with main findings of interviews [M30]

WP 8	Ethics requirements	
M01 – M60	CES	
Coordinator	Gonçalo CANTO MONIZ - gmoniz@ces.uc.pt	

Task list and participants:

Task 1. Ethics requirements: This work package sets out the 'ethics requirements' that the project must comply with.

List of deliverables:

D8.1: H - Requirement No. 1 [M06] D8.2: POPD - Requirement No. 2 [M06] D8.3: EPQ - Requirement No. 4 [M06]

D8.4: H - POPD - Requirement No. 5 [M06]

12.WP coordinator contact

WP	Participant leader	Coordinator	Contact
WP1	CES	Gonçalo CANTO MONIZ	gmoniz@ces.uc.pt
WP2	ICETA-CIBIO	José Miguel LAMEIRAS	jmlameiras@fc.up.pt
		-	josemlameiras@gmail.com
WP3	DTI	Knud Erik HILDING-HAMANN	khi@teknologisk.dk
WP4	CES	Gonçalo CANTO MONIZ	gmoniz@ces.uc.pt
WP5	IULM	Guido FERILLI	guido.ferilli@iulm.it
WP6	ITEMS	Sebastien LEVY	slevy@items-int.eu
WP7	CF	Luise NORING	lno.msc@cbs.dk

13. List of deliverables

n°	Deliverable title	Due date (month)
D1.6	Guide/manual on preliminary ethical guidelines, and communication and reporting procedures	02
D1.1	Handbook on workflow and standard quality procedures	06
D1.2	Handbook on the theoretical and methodological foundations of the project	06
D1.3	Data Management Plan	06
D1.4	Report with the composition of the ethics commission, submission of additional requirements/approvals, and ethical principles guidelines	06
D1.7	Dissemination package: basic set of dissemination material for the project	06
D6.1	Dissemination and communication plan	06
D6.2	Website and newsletter	06
D8.1	H - Requirement No. 1	06
D8.2	POPD – Requirement No. 2	06
D8.3	EPQ - Requirement No. 4	06
D8.4	H - POPD - Requirement No. 5	06
D1.5	Compilation and analysis of human rights and gender issues (Y1)	12
D3.1	Report on strategic design and usage of participatory solutions and relevant digital tools in support of NBS uptake	12
D3.1	Report on strategic design and usage of participatory solutions and relevant digital tools in support of NBS uptake	12
D5.1	Long-term sustainable data platform(s), enabling measurements, responses, in real time	12
D2.1	Diagnosis report for each frontrunner city	18
D3.2	Report on community-driven processes to co-design and co-implement NBS	18
D1.8	Compilation and analysis of human rights and gender issues (Y2)	24
D2.3	Establishment of the Community of Practices - CoP	24
D3.3	Portfolio of methods for operationalizing interactive communication in support of NBS uptake	24
D5.2	Ongoing monitoring and evaluation platform	24

D2.4	Urban plans	30
D4.1	New NBS	30
D4.2	Project for the Healthy Corridor Concept (Drawing, Models,	30
	Specifications) to support Urban Plans	
D4.3	NBS implementation strategy	30
	Report identifying market potential for different NBS solution,	30
D7.1	determine criteria for selection of NBS projects and shortlist of NBS	
	projects in each of the three frontrunner cities	
D7.2	Document with main findings of interviews	30
D3.4	Report presenting lessons of implementing smart digital tools in NBS,	32
	along with guidelines and manuals	
D1.9	Compilation and analysis of human rights and gender issues (Y3)	36
D2.6	Diagnosis report for each follower city	36
D3.5	Report on pilot participatory workshop on community-driven process	36
	for the cocreation of healthy corridors and NBS	
D3.6	Assessment reports on progress, results and insights for the	42
	combination of methods, citizen engagement, and usage of digital tools	
D7 2	Business cases for the most marketable and bankable NBS solutions in	42
D7.3	frontrunner cities	
D1.1	Compilation and analysis of human rights and gender issues (Y4)	48
0		
D2.2	Local reports on multistakeholder meetings / events and partnerships	48
	formalised	
D4.4	Handbook for Urban Plan Healthy Corridor	48
D7.4	Proceedings of workshops on the selection of business cases for	48
D7.4	replication and scaling in follower cities	
D3.7	Participatory Handbook for NBS	54
D3.8	Assessment reports on progress, results and insights for the	54
	combination of methods, citizen engagement, and usage of digital tools	
	(Y5)	
D4.5	Social incubators and corresponding promoted initiatives	54
D1.1	Compilation and analysis of human rights and gender issues (Y5)	60
1		
D2.5	Roadmap for NBS and healthy corridors planning and implementation	60
	Research report on health effects and impact on well-being of nature-	60
D5.3	based solutions	
D7.4	Research report on economic and social impact of nature-based	60
D5.4	solutions	
	Evaluation report on the implementation, replicability and upscaling of	60
D5.5	NBS	
DEC	Scientific report on the establishment of an EU-wide reference	60
D5.6	framework for NBS	
D5.7	Systematization report with community validation	60
D6.3	Short report on scientific publications	60
D6.4	Short report on proceedings of conferences and workshops	60
	Report analysing best policy practice presenting a "map" of measures	60
D7.5	and actions recommended in support of business and value creation	
	from NBS for different circumstances	

14.List of milestones

MS	Title	WP	Lead beneficiary	Due date (month)
MS1	URBINAT Theoretical and methodological foundations	WP1	CES	06
MS6	URBiNAT website	WP6	ITEMS	06
-				
MS2	Living labs & CoP	WP2	ICETA	24
MS3	Digital platforms & Participatory Handbook	WP3	DTI	24
MS4	Urban plans	WP4	CES	30
MS5	Monitoring of the NBS and Healthy Corridor	WP5	IULM	36
MS7	Market potential	WP7	CF	42
MS8	Policy recommendations	WP7	CF	60

15. Critical implementation risks and mitigations actions

WP2 - Delay in the establishment of Living Labs with its CoP: Constant monitoring and strengthening the articulation and alignment with technical team in municipalities (collaborative mitigation risk plan). Compromise agreement with local councils, or others permanent arrangements for citizen participation.

WP-2 - Weak engagement of follower cities in the roadmap methodology: Establish with the city the goals to be achieved periodically; demonstrate the advances and opportunities in the other cities involved.

WP3 - Weak engagement of citizens in participative process and civic engagement, measured through evaluation and baseline: Review of strategies and methodology for social mobilization, including new strategies to promote the citizen invitation and places for public meetings.

WP3 - Imbalance between citizens needs and NBS goals: To consider in design thinking process permanent citizen participation to co-creation process finding new solutions in equilibrium between the NBS proposed and citizen's needs.

WP3 - Weak impact in local public policies: Develop / strengthen forums and mechanisms of multi-stakeholder dialogue, negotiation and cooperation to address responsiveness and accountability

WP4 - Underestimation of economic and material resources to create and test the Healthy Corridor: Periodical and systematic monitoring of the financial/budget plan and activities.

WP4 - Lapse risk of municipalities partnership agreement to create healthy corridor (infrastructure) in the public space: Despite the expertise of the URBiNAT's partners, local monitoring to predict lapse risk, in this case emergency strategies may require to adapt the project to the new conditions;

WP1, WP2, WP3, WP4, WP5, WP6, WP7 - Presence of similar projects in the frontrunners and followers: Detect the differential aspects and the intersection issues to review the focus and redesign the strategies to achieve the maximum complementarity between the projects. Swot Analysis and identify the opportunities.

WP4 - Difficulties in implementation of economic solidarity initiatives: Develop contextualization, with concept fundamentals.

WP5 - Low tack in the data collection process: Regular monitoring; data measures control; application of statistical tests to check results; training and motivation of local teams to report the information.

WP5 - Difficulties in data management: Map the software options on the market and test/ prototyping and quality control.

WP6 - Weak dissemination: Review the strategies and target audience segmentation to implement specific tactics for each target public.

WP6 - Delay in the URBiNAT platform development and implementation: Adoption of new tools and software.

WP7 - NBS low marketable: Review business plan and amplify incubation process.

WP7 - Difficulties in up scaling and exploiting of NBS model:

Promote a diagnostic context and increase the integration in the business networks.

WP1, WP2, WP3, WP4, WP5, WP6, WP7 - Internal communication problems: Review communication plan; improve the channel communication and focal point for communication.

WP1, WP2, WP3, WP4, WP5, WP6, WP7 - Discontinuance of the partnership with the entities involved: Revise the possibility of integration new entities.

16. Ethics issues: from principles to management and compliance

16.1Ethics management

The structure of URBiNAT's consortium is multi stakeholder and multi-level (general assembly, CoP, advisory board, scientific commission, cluster of NBS for urban regeneration, steering committee), and brings together a cultural and social diversity of ethical issues specific to each country, region and city involved.

URBiNAT's organisational structure comprises an **Ethics Commission** composed of external experts from the countries of the cities involved in the project. This advisory body supports the coordination activities of the steering committee, focusing compliance of ethical principles (gender equity, best interest of the Collective, intellectual freedom, human dignity, transparency), and resolution and intermediation of conflicts. Citizens' representatives are also member of general assembly to guarantee the effective control/monitoring and ethics issues protection (citizen committee).

According to its vision of inclusion and mission of co-creation, the consortium will have to adopt as preliminary strategic orientations, a **set of fundamental ethical principles**, which will apply to all technical aspects of the development of the project's activities, interpersonal relations, social relations with the citizens of the communities of the areas where the project will take place, the protection of environment/nature, the protection of human rights, in particular the guarantee of the right to participate. In addition to the members of the consortium, all stakeholders (e.g. associations, private companies, universities) involved will have to share and adopt URBiNAT's ethical principles.

The following principles are already key in the elaboration stage of URBiNAT's proposal: human dignity, gender equity, respect for nature, best interest of the collective, transparency, intellectual freedom. Additionally, URBiNAT's partners are guided by EU legislation and international conventions and declarations, namely the Charter of Fundamental Rights of the European Union, and the 2030 Agenda for Sustainable Development. Considering the collaborative and participatory structure of the consortium, other principles can be aggregated throughout the implementation process, especially articulated with the actions foreseen in WP3.

The **task force of the steering committee dedicated to "Ethics analysis"** will monitor all aspects of the project and identify issues that may require additional attention. It will start by providing social, ethics and legal guidelines, recommendations, methods and procedures to be adopted throughout the project and for future reference, including:

- - preparing informed consent forms and information sheet templates and the definition of guidelines and procedures for involving human participants in activities, namely in the case of vulnerable groups and children;
- - preparing policy on incidental findings (e.g. critical finding concerning an individual participant discovered in the course of conducting project but is beyond its aims).
- The steering committee will **report on ethics issues** to the **General Assembly** in its quarterly reports, and to the **European Commission** in its period and final reports. It will also have to analyse and report on ethics issues if required by any partner of the project.
- In addition to the support of the Ethics Commission, the steering committee will have the opportunity to be supported and advised by **CES's ethics committee, and an interdisciplinary one at the University of Coimbra**. Both gather experts in addressing social, ethics and legal issues in research activities such as EU and national projects.

- Principles, guidelines, recommendations, methods and procedures related to ethics will be disseminated among partners, participants, stakeholders, and in all activities. These aspects and contents will be introduced into all activities, and specific training and material will be provided to partners and participants.
- The project consortium places paramount importance on the need to protect citizens' data and privacy. Therefore, each consortium partner agrees to comply with all respective EU regulations and main Data Protection Principles, individually and jointly. These principles consider, but are not limited to:

- Proportionality principle / Data minimization - Only use adequate, relevant and no more data than strictly necessary;

- Purpose limitation principle – Limit data to specified/pre-defined/explicit/legitimate initial purpose; prohibition of secondary use/use for purposes not compatible with the initial purpose;

- Assessment – Analysis of the proportionality between public and private interests to be protected, means to be used and invasion/harm resulting from data collection;

- Accuracy/Reliability – Clear distinctions between 1) personal data from i) survey participants, ii) pilot participants and iii) third parties; and 2) degrees of accuracy and reliability of personal data (evidence, assessment, etc.);

- Time-limited identifiable information – Data kept in a form that allows identification of data subjects for no longer than it is necessary, for the purposes for which the personal data are processed;

- Security of storage and access rights – Design and implementation of appropriate measures and processes.

- *Ethics and security management is further detailed under section 5 Part B of the project: p.182-187 of part B, which corresponds to p.323-327 of the grant agreement.*
- <u>These details cover ethics issues of URBiNAT, concerning the ten H2020 EC-defined ethics questions,</u> namely: Humans, Personal data, Environment & Health and Safety.

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