D1.1
Project Management Plan

Project Acronym: LIFE22-ENV-ES-BIG4LIFE

Project name: Building-Integrated Greenery (BIG): Collaborative xeriscaping-based maintenance and monitoring in Mediterranean cities (project number: 101114024)

Call ID: LIFE-2022-SAP-ENV

Work Package: WP1. Management, coordination and quality

Task Number: T.1.1 Technical, financial and administrative coordination (M1-M36)

Lead beneficiary: University of Lleida

Contributing beneficiary(ies): All project partners

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1. Introduction

1.1.   Abstract

The BIG4LIFE project aims to achieve the co-design of framework plans for co-maintenance, co-monitoring and co-evaluation of impacts, of Building-Integrated Greenery (BIG) systems, i.e. green roofs and facades, under the demanding conditions of the Mediterranean climate. For this scope, the BIG4LIFE project will demonstrate that by applying xeriscaping and networking approaches, supported by the suitable smart solutions, not only the long-term viability of BIG systems is feasible, but also their positive service life, in terms of ecosystem services provided, is possible to be enhanced. Co-designed with key stakeholders, and following a "by building typology approach", the elaborated plans will be tested and validated in real BIG projects under operational phase, both failed and successful ones. The aim is to demonstrate that by means of establishing "networking approaches" through involving owners, users, maintenance companies, among other, as well as also taking advantage of the Community Service Learning methodologies, it is possible to achieve long-term sustainability for BIG systems. Moreover, by assessing and enhancing their positive service life, it is possible to calculate their cost-effectiveness and feasibility to be subsequently incorporated in the local and national policies and standards. By promoting the re-naturalization of the built environment through sustainable construction systems, the BIG4LIFE project aims to promote the building sector's transition towards a more sustainable, circular, toxic-free, energy-efficient and climate-resilient model, in addition considering the restoration and improvement of life quality. As a result, the BIG4LIFE project will contribute to the New European Bauhaus initiative through the reduction of environmental impacts of new and refurbished buildings, the creation of circular value chains to boost urban economies whilst producing urban and territorial regeneration, as well as

enhancing citizen's well-being and supporting biodiversity in the urban environment.

1.2. Project objectives

1.2.1. General project objective

The general objective of the BIG4LIFE project is to demonstrate that through the application of appropriate collaborative strategies for the management, maintenance and impact's monitoring & evaluation of Building-Integrated Greenery systems (BIG) i.e. green roofs and green walls/facades, it is possible to guarantee the positive service life in terms of long-term sustainability and the optimal and continuous provision of its ecosystem services, with special emphasis on the Mediterranean climate (Figure 1).

The BIG4LIFE project will contribute to the achievement of the established goals in European policies for the built environment, specifically to the New European Bauhaus (NEB), which connects living spaces with the Green Deal strategy. NEB calls for the reduction of environmental impacts of new and refurbished buildings throughout their service life, and will contribute to the creation of circular value chains to boost urban economies whilst producing urban and territorial regeneration. NEB will also contribute to citizen's well-being improvement, to the biodiversity support whitin the urban environment, while providing several benefits at building and at city scales.

1.2.2. Specific project objectives

In order to achieve the general objective, the following specific objectives are considered within the BIG4LIFE project (Figure 2):

- **SO1.** To characterize the current operation of 8 BIG projects, in terms of ecosystems provided, involved stakeholders, and maintenance and monitoring activities (drivers of success and causes of failure). (WP2).
- **SO2**. To co-design two specific "networking plans" for each selected project, integrating xeriscaping and smart approaches: a) Maintenance,

and b) Impacts Monitoring & Evaluation, by defining the tasks to be carried out, which tasks can be automated (smart solutions), the stakeholder's responsibilities, and the needs/possibilities of integrating Community Service Learning activities. (WP2).

- **SO3.** To partially refurbish currently selected BIG projects that have failed, considering circular economy and xeriscaping criteria, to establish the reference conditions (failed vs refurbished). (WP3).

- **SO4.** To install the facilities and smart control systems necessary for those maintenance activities and the monitoring of those ecosystem services/KPIs that can be automated. (WP3).

- **SO5.** Stakeholders capacity building. To carry out awareness raising and training activities on BIG systems, also on their maintenance (xeriscaping and smart approaches) and the monitoring and evaluation of their impacts (ecosystem services), as well as on "networking" and Community Service Learning approaches. (WP4).

- **SO6**. To apply the two networking plans, maintenance and monitoring, for 24 months and to evaluate the positive impact that the new approaches will produce in the operation of the selected BIG systems. (WP5).

- **SO7.** To draft the two definitive EU "framework plans" that can be replicated in the future in any BIG system. (WP5).

- **SO8.** To catalyse the large-scale deployment and application of the BIG4LIFE project achievements, both in the Mediterranean area and worldwide, also guaranteeing the consolidation of BIG4LIFE methodologies, approaches, results and conclusions in the medium and long term, as well as its integration in regulations, policies and professional guides. (WP6).

Figure 1. Project overview. Main gears for the long-term BIG systems "positive" service life
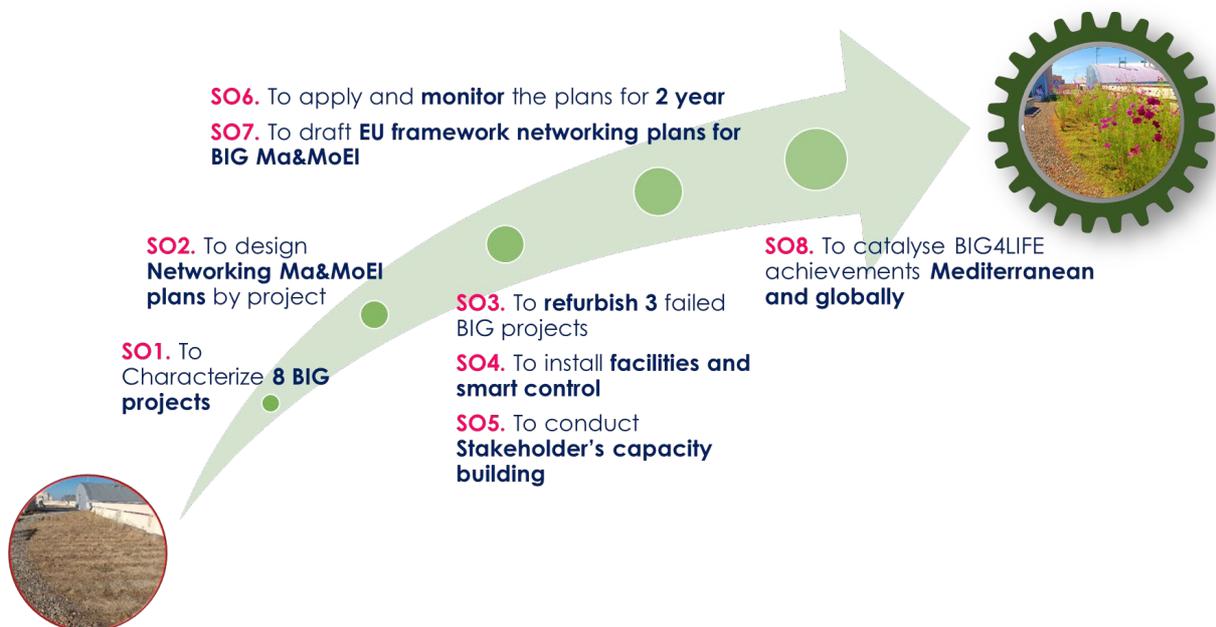
Figure 2. Specific BIG4LIFE project objectives

1.3. Project consortium

For the BIG4LIFE project a perfectly balanced consortium has been set up between academia and companies covering all the areas of expertise and resources necessary to successfully carry out the project (Table 1).

Table 1 Project consortium

Beneficiary number	Beneficiary acronym	Beneficiary name	
P1	UDL	University of Lleida	
P2	CTFC	Forest Science and Technology Centre of Catalonia	
P3	UNIGE	University of Genova	
P4	HOU	Hellenic open university	
P5	TEDVERD	Teb verd sccl	
P6	VERDTICAL	Verdtical ecosistema sl	
P7	SEMPERGREEN	Sempergreen bv	
P8	EIXVERD	Solucions eixverd sl	

2. Organisational Project Structure

2.1. Duration

- Duration: 36 months
- Start date: 01/09/23
- End date: 31/08/26

2.2. Budget

- Total: 1,807,480.38 €
- EC Co-funding: 1,084,488.23 € (60%)

2.3. Work Plan structure

The BIG4LIFE project is structured in seven work packages. Figure 3 shows the flow chart of BIG4LIFE project describing the different work packages and their relationship with the specific objectives of the project.

- Work Package 1: Management, Coordination and quality
- Work Package 2: Preparatory activities
- Work Package 3: Refurbishment and facilities installation
- Work Package 4: Stakeholder capacity building
- Work Package 5: Development, monitoring and evaluation
- Work Package 6: Sustainability, replication and exploitation
- Work Package 7: Dissemination and communication

The project, that will last three years, is structured in three main stages. The first one, lasting six months, will include the WP2.Preparatory activities, WP3. Refurbishment and facilities installation, and WP4. Stakeholder capacity building. A second stage, which will last two years, for WP5. Development, monitoring and evaluation. Finally, a third stage around 6 months will be devoted to WP6.

Sustainability, replication and exploitation, for the capitalization and exploitation of the results and organization of planning beyond the project.
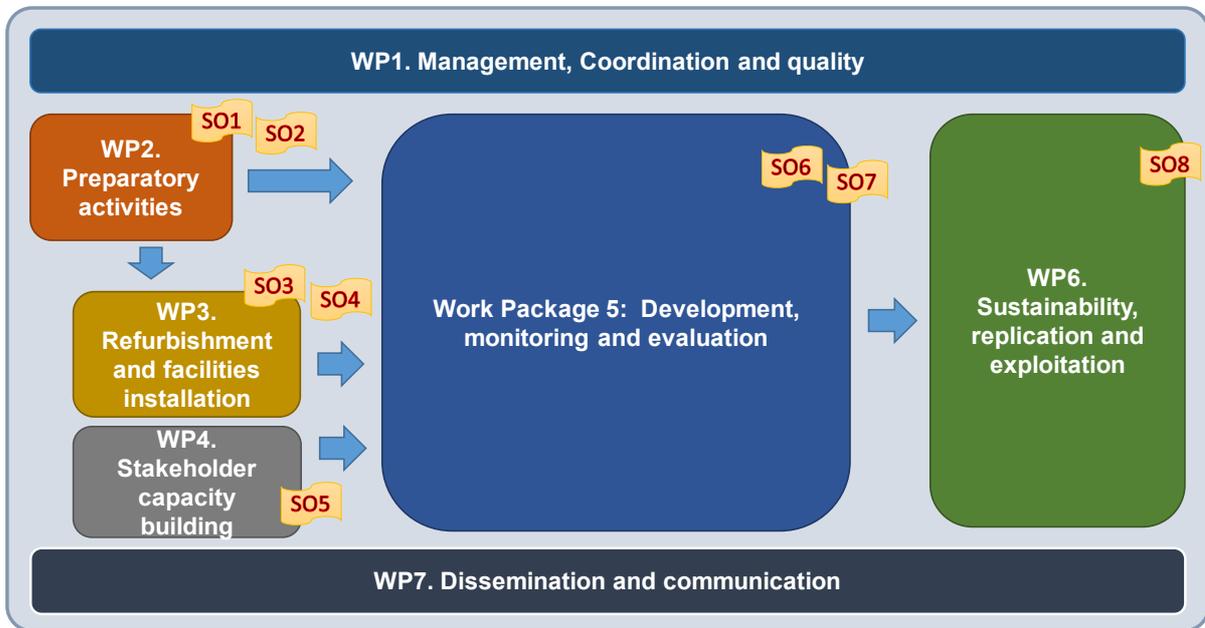
Figure 3. Work Plan chart of BIG4LIFE project

3. Contractual documents

The two contractual documents of the BIG4LIFE project are the the "Grant Agreement" and the "Consortium Agreement".

3.1. Grant Agreement

A Grant Agreement was established between the following parties:

On the one part,

The **European Climate, Infrastructure and Environment Executive Agency (CINEA)** ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission').

And, on the other part, 'the coordinator':

1. **UNIVERSIDAD DE LLEIDA (UdL)**, PIC 999838559, established in Placa Victor Siurana 1 1, LLEIDA 25003, Spain,

and the following other beneficiaries, who duly signed their 'accession form':

2. **CONSORCI CENTRE DE CIENCIA I TECNOLOGIA FORESTAL DE CATALUNYA (CTFC)**, PIC 998519165, established in CTRA SANT LLORENC DE MORUNYS KM 2, SOLSONA 25280, Spain,

3. **UNIVERSITA DEGLI STUDI DI GENOVA (UNIGE)**, PIC 999976687, established in VIA BALBI 5, GENOVA 16126, Italy,

4. **HELLENIC OPEN UNIVERSITY (HOU)**, PIC 999895110, established in PARODOS ARISTOTELOUS 18, PATRAS 26335, Greece,

5. **TEB VERD SCCL (TEB VERD SCCL)**, PIC 888415823, established in CALLE FERNANDO PESSOA 54-64, BARCELONA 08030, Spain,

6. **VERDTICAL ECOSISTEMA SL (Verdtical)**, PIC 908306449, established in CALLE ERNEST LLUCH 32 P. 3 PTA 19, MATARO 08302, Spain,

7. **SEMPERGREEN BV (Sempergreen BV)**, PIC 888377605, established in DEFENSIEWEG 1, ODIJK 3984 LR, Netherlands,

8. **SOLUCIONS EIXVERD SL (Eixverd)**, PIC 930212347, established in BAILEN 75 BAJOS PTA 3, BARCELONA 08009, Spain,

This Agreement sets out the rights and obligations and terms and conditions applicable to the "action grant" awarded for the implementation of the action 101114024 - LIFE22-ENV-ES-BIG4LIFE.

3.2. Consortium Agreement

The purpose of the BIG4LIFE Consortium Agreement is to specify with respect to the Project the relationship among the Parties, concerning the organisation of the work between the Parties, the management of the Project and the rights and obligations of the Parties concerning inter alia liability, Access Rights and dispute resolution.

THIS CONSORTIUM AGREEMENT is based upon Regulation (EU) 2021/783 of the European Parliament and of the Council of 29 April 2021 establishing a Programme for the Environment and Climate Action (LIFE), and repealing Regulation (EU) No 1293/2013 (Text with EEA relevance) laying down its rules for participation and dissemination (hereinafter referred to as "LIFE Regulation"), and on the European Commission's General Model Grant Agreement for Environment and Climate Action and its Annexes.

The Effective Date of this Consortium Agreement was 01/09/2023.

4. Evolution of the consortium

4.1. List of participants

At the beginning of the project, partners were asked to verify the list of participants in the project. The list of participants is detailed in the Table 2.

Table 2. BIG4LIFE list of participants

Beneficiary	Participants
P1 - UDL	Gabriel Pérez
	Julià Coma
	Jose Antonio Bonet
	Tomàs Pallejà
	Marcel Tresanchez
	Astrid Ballesta
P2 - CTFC	Miquel Martí
	Roser Maneja
	Arnau Picó
	Sandra Torrabadella
	Berta Carreño
	Assu Planas
P3 - UNIGE	Katia Perinni
	Adriano Magliocco
	Giulia Mazzucco
	Paolo Rosasco
P4 - HOU	Efthimios Zervas
	Niki Matsouki
	Evangelia Bekou
P5 -TEDVERD	Joan Berruezo
	Ángel Gil
	Mar Marin
	Patricia Morcillo
	Albert Caballè
P6 - VERDTICAL	Daniel Guzmán

	Pilar González
	Antonio Guzmán
P7 - SEMPERGREEN	Toni Amich
	Max de Vos
	Erik Korevaar
P8 - EIXVERD	Lídia Calvo
	Georgina Calvo
	Helena Rovira

4.2. Evolution of the consortium

At the beginning of the project, a Project Manager was hired from the UDL, who together with the project coordinator will set up the Project Coordination Unit (PCU).

After an open selection process, the candidate Laura Herrera has been selected to take up the position of Project manager of the BIG4LIFE project. Annex 1 shows the resolution of this selection process.

5. Project Management

5.1. Roles and responsibilities

5.1.1. Coordinator

The **University of Lleida** is the **coordinating institution** of the BIG4LIFE project. The **main researcher** of the project is **Dr. Gabriel Pérez**, associate professor of the Department of Industrial and Building Engineering at the University of Lleida, and coordinator of the **Innovative Technologies for Sustainability** research group.

For the management of the BIG4LIFE project, the UDL has the **Support to Research** service, whose main objectives are:

- Promote research activities and services to companies.
- Respond to the needs of the researchers.
- Respond to the needs of public and private institutions integrated in the research and innovation system.

The following measures and methods will be implemented to ensure the correct development and quality of the project:

- Transparent information exchange and fluid communication. BIG4LIFE will ensure a transparent and clear communication within and between all parties.
- Early risks detection. Risks listed on section 4.5 will be monitored to ensure the low impact after applying the risk-mitigating measures. Besides, during reporting, special attention will be put in not achieved objectives/impacts and new risk-mitigation strategies will be created and pursued after assessing them with the PMT and PCU.

- Feedback in Annual Panel Discussions. To obtain the highest impact of the project, feedback from all those involved in the Annual Panel Discussions will be asked for.

5.1.2. Project Coordination Unit (PCU)

Project Coordination Unit (PCU) is the higher decision-making body in BIG4LIFE. It will be composed by the representatives of each beneficiary. It is responsible for the overall project coordination and management, represents the Consortium towards the European Commission (EC) and supervises the overall technical and scientific progress of the project. It will be supported by the PMT. Table 3 shows the PCU composition.

Table 3. Project Coordination Unit composition (PCU)

Participant	PCU representatives
P1 - UDL	Gabriel Pérez
	Julià Coma
P2 - CTFC	Miquel Martí
P3 - UNIGE	Katia Perini
P4 - HOU	Efthimios Zervas
P5 - TEDVERD	Joan Berruezo
P6 - VERDTICAL	Daniel Guzman
P7 - SEMPERGREEN	Toni Amich
P8 - EIXVERD	Lidia Calvo

Project Coordination Unit (PCU) tasks are the following:

- Prepare the Consortium Agreement with the help of the Project Manager (part-time).

- Ensure smooth operation of the project: work plan maintenance, monitor project progress, quality of output with respect to deliverables and milestones; enhance interaction between WPs and partners.
- Day-to-day financial, administrative, contractual, and ethical management of the project, including transfer, of payments and monitoring of the partners' compliance with contractual obligations.
- Perform the scientific leadership of the project, together with the Project Management Team (PMT)
- Revise all reports and send them to the EC.
- Ensure quality and relevance of the contents of the project website.
- To resolve any disputes and/or conflicts within the Consortium amicably.
- Communicate with external parties and other EC-funded projects.
- Actively promote gender equality.

5.1.3. Project Management Team (PMT)

Project Management Team (PMT) is the main management and decision-implementing body of BIG4LIFE. PMT will be composed of the project coordinator (i.e., technical coordinator at full time) and the project manager:

- Project Coordinator: Dr. Gabriel Pérez
- Project Manager: Laura Herrera

In addition, the participation of researcher Dr. Julià Coma, as well as members of the Research Support Office of the University of Lleida.

The PMT will develop the following tasks:

- Prepare the Project Management Plan and send it to PCU and then the EC.
- Prepare reports and deliverables to send them to the PCU for later be sent to the EC.
- Approve detailed work plans, as implemented during the project's progress.

- To regularly assess the correct development of the work plan, to communicate the results of the assessment in a short report to all parties and amend it, if necessary, with the PCU.

- Organise, prepare agendas.

- Decide upon the change and exchange of tasks between the project partners and propose respective amendments in Annex I of the EU Contract,

- Propose to the Partners possible amendments of the terms of the EU Contract

- Decide on the long-term detailed work plans, as implemented during the project life.

- Survey ethical and gender issues.

- Actively promote gender equality.

5.1.4. Work Package leaders

The leading partners of the different work packages are those specified in Table 4. These beneficiaries will take care, together with the project coordinator and the rest of the participants, that the planned activities are successfully carried out.

Table 4. Work Package leader institutions

Work Package Nº	Work Package name	Lead Beneficiary
WP1	Management, coordination, and quality	P1 - UDL
WP2	Preparatory activities	P7 - SEMPERGREEN
WP3	Refurbishment and facilities installation	P6 - VERDTICAL
WP4	Stakeholder capacity building	P5 - TEDVERD
WP5	Development, monitoring and evaluation	P1 - UDL
WP6	Sustainability, replication and exploitation	P3 - UNIGE
WP7	Dissemination and communication	P2 - CTFC

5.1.5. Advisory Board structure and composition

According to what was projected in the Grant Agreement, an Advisory Board have been created to receive assessment during the project implementation. This advisory board will be invited to all project coordination meetings and consulted when required.

This advisory council will initially be made up of representatives of the associations and institutions that have supported the project, as well as the owners or managers of the buildings in which the institutions will be developed (Table 5).

The advisory board will be open to the incorporation of other people and representatives of institutions that may be of interest throughout the project, so that the impact of the BIG4LIFE project can be enriched and expanded in the different areas of society.

Table 5. Initial Advisory Board constitution

Institution - association	Representative	Position
CSMON-LIFE (Citizen Science MONitoring)	Dr. Stefano Martellos	Project Manager
ASESCUVE (Spanish Association of Green Roofs and Verdtical Landscaping)	Mr. Andreu Massoni	Dean
COAC (Official Association of Architects of Catalonia. Lleida)	Mr. Lluís de la Fuente	Dean
COEAC (Official Association of Agricultural Engineers of Catalonia)	Mrs. Concepció Villar	Dean
CATEB (Technical Architecture Association of Barcelona. Catalonia)	Mr. Celestí Ventura	President
PCiTAL (Lleida Agri-food Science and Technology Park)	Mr. Miquel Aran	Manager
Lleida City Council. Department of Sustainability and Ecological Transition	Mrs. Esther Fanlo	Sustainability coordinator
MataAlta Estudio	Mr. Sergio Carratalá	CEO Mataalta Estudio SL

URBASER BCN	Mr. Joan Bosch	Delegate
Pérez-Iborra School	Mr. Jordi Casas	Director
El Prat de Llobregat City Council	Mrs. Antònia Molleja	Technician. Gardening service
Tibidabo amusement park SA (PATSA). BCN City Council	Mr. Joan manel Esquius	Head of Maintenance and Security Unit

5.1.6. Data Management Plan (DMP)

The aim of the Data Management Plan is to guarantee the deployment of best practices in DM to ensure its security and availability (for internal and external consortium cooperation). DMP will describe the DM lifecycle for the data generated within the project, from its collection to treatment, storage and sharing processes, always according to the FAIR principles while considering GDPR. DMP is designed to be a living document during the project, which will be reviewed and updated every 6 months by P1-UDL in collaboration with all partners.

A DMP has been created using the CORA-eiNa DPM tool (https://www.csuc.cat/en/serveis/cora-eina-dmp) which is an online tool that allows, easily and through templates, to create, review and share data management plans (Figure 4). The eiNa DMP allows researchers to work collaboratively and online in the creation of these plans by different funding bodies or groups, to consult guidelines and examples, to share plans with other researchers with read/write/coadmin permission, to request the review of plans by the data management support service of the university or research center, and to export these plans in different formats to submit them to the funding bodies.

The tool is free of cost and represents a significant saving of time and effort for the research community.

Figure 4. Data Management Plan for BIG4LIFE project

The DMP of the BIG4LIFE project is public and can be consulted at the following link: https://dmp.csuc.cat/public_plans?page=ALL

5.2. Ethical principles

The path to sustainability is an ethical demand towards society. From the side of research and science, in this case acting on real cases, the BIG4LIFE project will contribute to the improvement of sustainability in the building and architecture sector, improving the construction systems, through the green roofs and vertical greenery. In addition, the BIG4LIFE project will contribute to citizenship awareness on the importance of the re-nature of cities to maintain and improve the well-being and urban lifestyle that society is aiming for.

In this context, the BIG4LIFE project will contribute to the achievement of the established goals in European policies for the built environment, specifically to the New European Bauhaus (NEB), which connects living spaces with the Green Deal strategy.

NEB calls for the reduction of environmental impacts of new and refurbished buildings throughout their service life and will contribute to the creation of circular

value chains to boost urban economies whilst producing urban and territorial regeneration.

NEB will also contribute to citizen's well-being improvement, to the biodiversity support within the urban environment, while providing several benefits at building and at city scales.

With this commitment, the central values that must inspire the activities of the project, as well as the performance of each of the members of the consortium and the joint work in achieving this commitment are the following:

Commitment

The members of the consortium must carry out their activities in line with the project's objective and be actively involved in the achievement of the established objectives.

Specifically, the members of the consortium undertake to:

- Make efforts to achieve the objectives of the project through cooperation with the other members of the consortium and with the rest of society.
- Always act for the general interest of the consortium and put this interest before particular and group interests.
- Collaborate with anyone in the consortium to solve common problems.
- Encourage participation in project activities and meetings.
- Clearly distinguish private points of view from the general position of the consortium.
- To encourage interest in knowledge, research, and training throughout society, specifically on BIG systems and their contribution to urban sustainability.

Dialogue

Each member of the consortium has the right to express an opinion, to participate and to be informed of the decisions that affect him or her, sharing ideas in an atmosphere of transparency and cooperation.

All the people in the consortium commit to:

- Always use reasoning, deliberation, and dialogue in conflict resolution.
- Seek and increase knowledge through respectful and reason-based dialogue.
- Promote initiatives and channels that promote dialogue.
- Be transparent in decision-making processes and objectively inform those affected by them.
- Give reasoned explanations of our decisions.

Efficiency

Each member of the consortium must try to make appropriate use of the resources (physical and material, skills, and knowledge) they must carry out their functions and achieve the project's objectives.

All the people in the consortium commit to:

- Seek quality and excellence in each of the activities we develop.
- Favor the generation of collective synergies to avoid duplication of responsibilities and process management.
- Work to achieve our goals with excellence.
- Seek the best use of time, spaces, and resources.
- Generate a culture of continuous improvement in our activities.
- Always use resources with public service criteria, and never for personal or group benefit.

Integrity

Each member of the consortium must act truthfully and in accordance with the values and principles of this ethical principles section. These values and principles must preside over relations with the people of the consortium and with society as a whole.

All the people in the consortium commit to:

- To direct our efforts to develop research and awareness-raising that contributes to the construction of a more peaceful, fair, and sustainable society.

- Refuse to put our knowledge and abilities at the service of violence, oppression, and tyranny and to cooperate with institutions that violate human rights.
- Transmit to society the results of our research and our knowledge truthfully and honestly, without distortion or manipulation.
- Always avoid the use of illegitimate means to achieve our goals.
- Not to take advantage of our position in the project to obtain illegitimate personal advantages.
- Recognize the work of others and make appropriate use of authorship without appropriating materials or documents without due consent.

Respect

Each member of the consortium must recognize the dignity of all people regardless of sex, race, ideology, religion, culture, and functional diversity, and must promote equal opportunities. The consortium does not accept any type of discrimination.

All the people of the consortium commit to:

- Respect pluralism and cultural diversity.
- Assess, in accordance with criteria of fairness, impartiality and transparency, everyone's effort.
- Promote social responsibility and cultural sensitivity in all our areas of action.
- Establish relationships with each member of the consortium based on dignified treatment, empathy, and consideration towards the other.
- Consider the ecological impact in all our work and activity, as well as take the initiative to promote greater environmental responsibility.
- Respectfully express our opinions and reasoned criticisms, and present different points of view with respect, rigor, and honesty.

Responsibility

Each member of the consortium must fulfil their professional obligations, and must answer diligently and transparently for their actions and decisions and for the consequences that arise from them.

All the people in the consortium commit to:

- Fully comply with our obligations defined in the project.
- Attend and respond in a timely manner to the legitimate demands of others.
- Promote the responsible use of knowledge and technology, considering the ecological and social impact of our activity.
- Accept one's mistakes and criticism in good faith.
- Bringing to the attention of the appropriate people the abuses or illicit behaviour of any member of the consortium.
- Give the explanations that are necessary to facilitate a fair evaluation of our effort.
- Take care of facilities and public resources and use them sustainably.

Transparency

Each member of the consortium has the obligation to provide accurate and impartial information about their actions and decisions to those affected by them following objective and justifiable criteria.

All the people in the consortium commit to:

- Promote transparency and the communication and dissemination of both the information and the processes that are vital for the achievement of the project's objectives.
- Communicate within the appropriate time and form any information relevant to deliberations and decision-making.
- Generate and distribute information prioritized by its relevance and importance and always avoid information saturation.

- Develop accessible, clear, and transparent information systems so that people can develop their own judgment and participate in the decision-making of their competence.
- Review the basic procedures and protocols of the project under the criteria of publicity, clarity, accuracy, and anticipation.
- Ensure transparency in the consortium and point out, where appropriate, the opacity or lack of publicity that the members of the partnership may incur.

Vocation of service

Each member of the consortium must seek maximum excellence and professionalism in each of the activities it develops, to respond to the needs of our social environment.

All the people in the consortium commit to:

- Articulate our particular interests, recognition and individual prestige with the benefit of the consortium as a whole and society.
- Develop our activities and tasks in line with the project's objectives.
- Always seek the ideal of a job well done as a service to society.
- Cultivate our professionalism by developing its double dimension: scientific-technical and professional skills and competences, and ethical commitment in the performance of our functions.
- Develop our own functions in collaboration with others.
- Promote adequate and permanent training for the correct performance of our duties.

This section "Ethical Principles" is based on the "Ethical Code" of the University of Lleida, which must serve as a guide for any of the activities promoted by this institution whose mission is "the generation, dissemination and application of knowledge", mission which contributes to the improvement of citizens' living conditions.

5.3. Green principles

According to the call requirements and the LIFE Programme aims (EU Programme for Environment and Climate Action), BIG4LIFE will contribute to the European Green Deal which aims to transform the EU into a fair and prosperous society, with a modern, resource-efficient and competitive economy where there are no net emissions of greenhouse gases in 2050 and where economic growth is decoupled from resource use and protect, conserve and enhance the EU's natural capital, and protect the health and well-being of citizens from environment and climate related risks and impacts.

It will specifically consider the environmental strategies: Biodiversity strategy for 2030, Chemicals strategy, Circular economy action plan, Zero pollution action plan, and the topics: Air, Chemicals, Circular Economy, Nature and Biodiversity, Noise, Urban environment and Water.

Green Management (WP1) will consider the following principles:

- **Commitment and accountability.** Recognize the essential rights of all to healthy, clean, and safe environments and equal opportunities.
- **Ethics and Decision Making.** Support organizational ethics and decision making with respect for universal principles through the prevention of adverse impacts on society and environment.
- **Principles and values**. Conserve and enhance the natural resources by improving the ways in which technologies and resources are developed and used.
- **Social and Ecological Equity.** Consider human vulnerability in ecologically sensitive areas and centres of population.
- **Economic prosperity.** Balance the needs of stakeholders, including current needs and those of future generations.

Specific activities to consider during BIG4LIFE project development will be the following:

- All materials used for the establishment of the plantations will be aimed to be biodegradable.

- Most of meetings will be online to reduce our carbon footprint.
- All paper used for the in-person meetings will be 100% recycled.
- At least 50% of the food provided in the informative sessions and workshops will be organic.
- We will minimize travels and transports to the necessary ones and when needed, road transport vehicles will meet the operational energy use and environmental impacts decreed by the Directive 2009/33/EC on the promotion of clean and energy-efficient road transport vehicles.
- Any chemicals used during the project will use will have the EU Ecolabel.We will disseminate all our Green management principles in our social media and website to make our activities visible.
- All materials for BIG systems will be respectful with biodiversity and no-harming.
- Also BIG4LIFE is based on xeriscaping techniques, meaning the use of the minimum resources as possible, especially regarding water and fertilizers supply, avoiding artificial pollutants and reducing the carbon footprint to the maximum. As said, this also save energy as a result, while promoting job creation.

Green Principles Management

In addition, and based on the guide of good environmental practices of the University of Lleida, the "Green Principles Management" document has been drawn up detailing tips that will help minimize the environmental impact, reduce consumption of energy and water, reduce the generation of waste and facilitate its reuse. In addition, these measures will reduce costs, since the rationalization of raw materials is encouraged, as well as good management.

5.4. Communication principles

Good communication, both internal, between the members of the consortium, and external, towards society and the scientific community, is crucial for the success of the project.

WP7 is dedicated to the communication and dissemination of the results of the BIG4LIFE project. The Dissemination and Communication Plan (T7.1; D7.1) will ensure the management of all scheduled activities and the achievement of the maximum impact of communication and dissemination, including the gradual incorporation of the different stakeholders' group to the LIFE project and being updated regularly accordingly to the latest communication progress.

Dissemination and Communication Plan

The Dissemination and Communication Plan collects all the information regarding the dissemination and communication of the BIG4LIFE project.

For the BIG4LIFE project, a Dynamic-Strategic Communication Plan model[1] has been selected (Figure 5), which is based on an iterative process of reviewing a set of questions. This process of review and evaluation is carried out periodically, in the case of the BIG4LIFE project in the annual coordination meetings (M12, M24), so that the communication strategy can be readjusted throughout the project in order to achieve the desired impact.

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[1] Campos, Alejandra; Codina, Lluís. (2020). "Planes de comunicación efectiva para proyectos de ciencia e innovación". En: Sotelo González, J. & Gallardo Camacho, J. (ed.). Comunicación especializada: historia y realidad actual (pp. 1215-1244). McGraw-Hill (ISBN 987-84-486-2430-9)
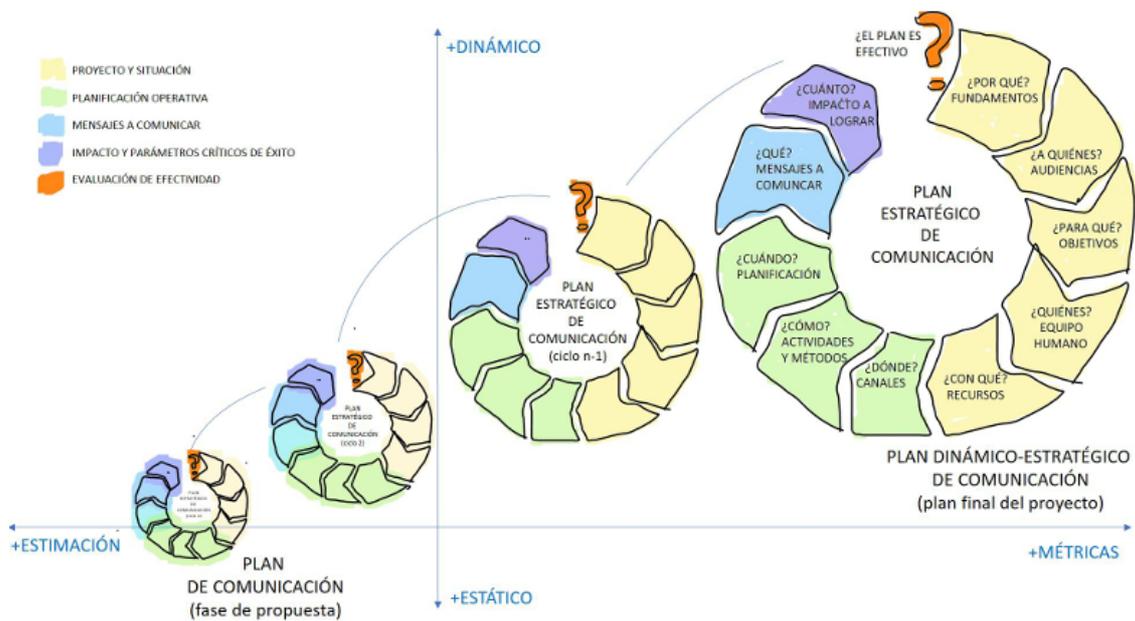
Figure 5. Evolutionary cycle of the dynamic-strategic plan for effective communication

The questions that are considered for the definition and review of a dynamic-strategic communication plan are:

1. **Why?** This question forces us to explain the bases, the foundation of the strategic communication plan to be developed. The origin of the project's existence, its scope and the reason why we will implement this plan must be known.

2. **To whom?** This question makes us define the audiences of interest, as a set of segmentations or target groups to whom we direct the communication plan. It is expected to reach society, the media and strategic partners of interest.

3. **For what?** This question connects us with the partial and final objectives of the communication that we will plan and then review periodically.

4. **Who?** This question helps us define the human team, in the broad sense, that will carry out the communication activities and the way in which they will be coordinated among themselves.

5. **With what?** This question helps us define, apart from human resources, what other economic, material and technical resources we have to communicate.

6. **Where?** This question helps us size the variety and type of communication activities to plan and conduct, to define the different communication channels to use.

7. **How?** This question makes us think about what type of activities and methods we will use for each channel we have selected.

8. **When?** Esta pregunta nos lleva a definir el cronograma de las acciones de comunicación que hayamos definido.

9. **What?** This question focuses us on the messages we want to transmit to audiences and their segments. It is vitally important to define the best message, according to the channel and medium, for each of them.

10. **How much?** This question connects us both with the dimension of the impact that we want to achieve and with the dimension of the funded action and in proportion to the planned communication tasks.

Visual Identity

A logo for the BIG4LIFE project has been created, with different compositions to be included in all official documents and presentations (Figure 6). The files are available to project partners in the shared UNIDISC folder, and have been incorporated into the project's official templates.

Figure 6. Visual Identity – logo of BIF4LIFE project

5.5. Management organization

5.5.1. Collaborative tool (UNIDISC)

For the BIG4LIFE project, a workspace has been created to which all members of the consortium have access via password. This space is based on UNIDISC cloud services. UNIDISC is the service for storing, synchronizing and sharing files in the cloud in an easy, secure and reliable way, aimed at universities and research centers in Catalonia.

This shared space has been organized into folders according to the project's work packages. The system allows users to upload, download and edit any document (Figure 7). This is a secure service as backups remain accessible to data managers.

Figure 7. Collaborative tool (UNIDISC) for BIG4LIFE project

All the information regarding the management and organization of files is specified in the Data Management Plan.

For communications via e-mail, different actions and rules have been established:

- A "distribution list" project has been created, which facilitates the sending of e-mails and also allows the long list of recipients to be voluntarily hidden.

- It has been established that the e-mails of the project will always begin the sentence of the "subject" with the acronym "BIG4LIFE_" in order to facilitate its location and subsequent archiving thereof.

As part of WP7, templates have been designed for the different project documents, both for reports and for slide presentations. These have been placed in a specific folder, within the work package 7 folder in the UNIDISC shared space, so that any member of the consortium can use them freely at any time (Figure 8).
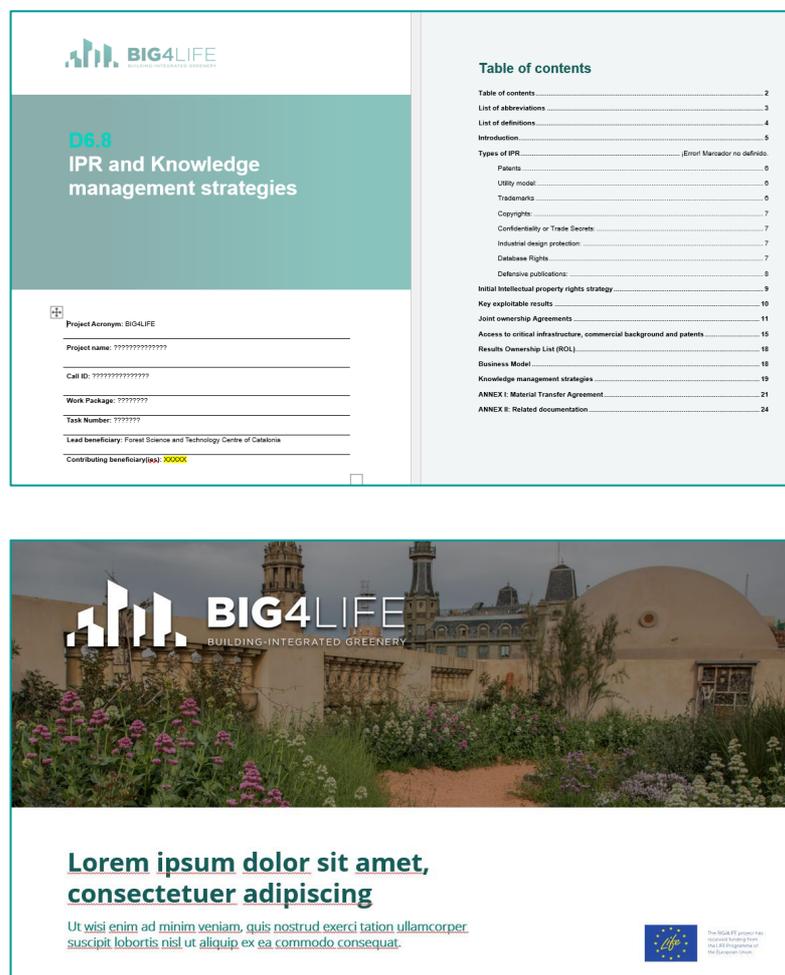
Figure 8. Report and presentation templates for BIG4LIFE project

5.5.2. Meetings

The Project Management Team (PMT) meets continuously, at least weekly, for the coordination and development of the project.

Depending on the need, the members of the Support to Research service of the University of Lleida join the coordination meetings.

The Project Coordination Unit (PCU) will meet virtually on a monthly basis and in person at least once a year.

Meeting calendar

A meeting calendar has been established for the duration of the project, so that members can reserve these dates and times for the monthly project monitoring meeting (Figure 9). The calendar is available in a specific folder in the management Work Package 1 folder, in the UNIDISC shared space, available at any time to any member of the consortium.
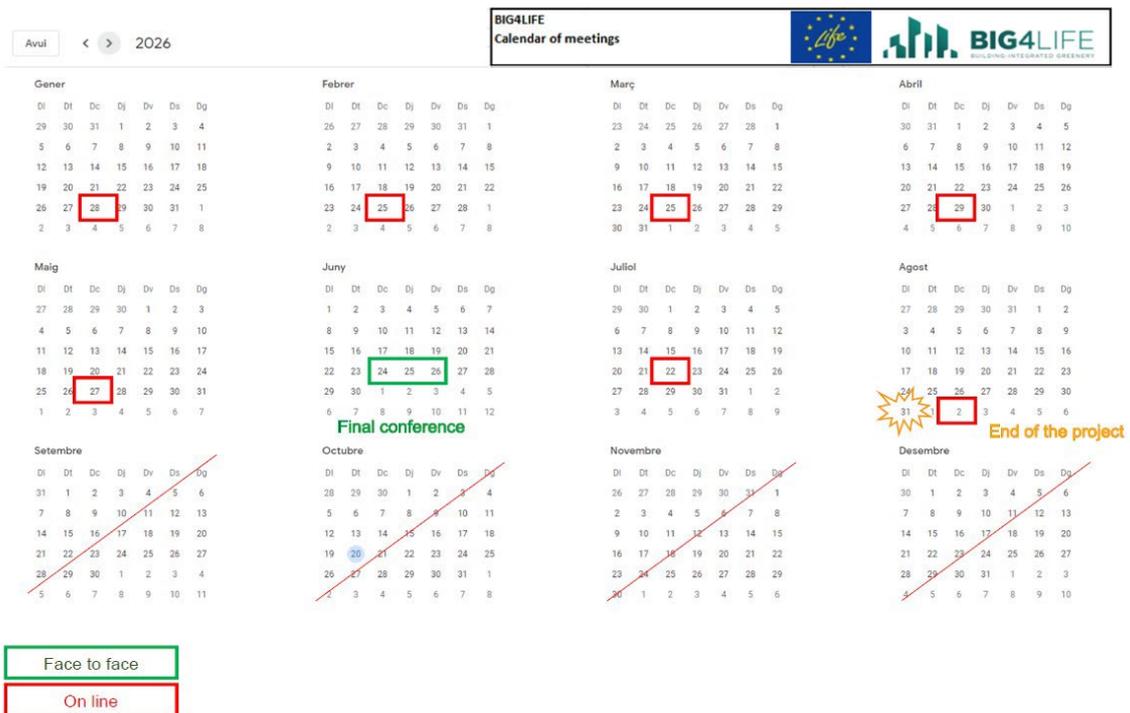
Figure 9. Meetings calendar for BIG4LIFE project (example for 2026)

Minutes template

A working template has been created for meeting minutes that will be approved and shared by all PCU members at consecutive meetings. This will include, at least, Scope, location and general information, meeting minutes, annexes, agenda, list of attendees.

Kick-off meeting

The kick-off meeting took place on the 26th and 27th of October 2023 in person with the participation of representatives of all the beneficiary partners.

The agenda and the list of participants was as showed in Annex 2. During the kick-off meeting, the Consortium Agreement was signed, and a hand-signed paper copy was distributed to each of the partners.

5.5.3. Risk Management

As described in the BIG4LIFE project proposal, an "early warning" system related to risk management has been established.

Table 6 summarize the identified potential risks for BIG4LIFE project during the proposal phase.

Table 6. BIG4LIFE project proposal list of risks

Risk Nº	Description	WP Nº	Proposed risk-mitigation measures
1	Delays in project tasks (Medium)	All	An "early warning" system to resolve risks as part of Project Management Plan (PMP)
2	Coordinating issues across WPs (Low)	WP1	A strong internal communication strategy has been drafted (WP7) to address this issue. In addition, a successful past collaboration among most of the BIG4LIFE partners in previous projects will allow to lower this risk.
3	Difficulties in the design of monitoring and maintenance plans in the different demonstrative BIG projects (medium)	WP2	Enough specialized personnel have been planned to manage this risk. Both the companies and the UDL have specialist staff and sufficient experience to overcome this risk. If any parameter could not be monitored in one of the projects, it should not be a problem to monitor it in the other projects. However, this must be foreseen in the initial characterization in order to correct it.
4	Delay in the execution of the BIG refurbishment tasks	WP3	Works site visits are planned to monitor the pace of work and to avoid delays. The business partners have great experience in the

	and facilities installation (high)		execution of BIG projects. The WP5 schedule can be adapted to any delays in the execution of the works during WP4
5	Coordination difficulties within the networks with stakeholders created (medium)	WP5	The establishment of the roles for each member within the network will be very well defined in the framework plan. If one member does not meet the assigned tasks, these will be referred to another in the network and/or the consortium partners. The awareness and training sessions planned in WP4 should help to motivate everyone involved in the common project.
6	Lack of continuity of the stablished networks beyond the end of the project (medium)	WP6	The project aims to create work networks that are self-sufficient, therefore enduring over time, beyond the end of the project. The After BIG4LIFE Plan will define the procedures to be followed and a specific workshop will be held to create awareness on the importance of the continuous application of networking procedures to BIG long-term sustainability.
7	Lack of integration of BIG4LIFE results into local, regional and national policies (low)	WP6	There are specific tasks addressing this issue in WP5, including the draft of specific recommendation letters to be addressed to suitable key external stakeholders. BIG4LIFE project is supported by professional associations linked to BIG systems and the building sector.
8	Lack of dissemination and communication (low)	WP7	The set of actions planned is very comprehensive and covers many areas and levels, i.e. scientific dissemination and dissemination to society in general.

Based on these risks, a review process has been carried out and a risk detection system has been established according to these steps:

a) revising the list of risks and related mitigation strategies,

b) prioritising them regarding their importance, and

c) associating them with specific monitoring procedures.

The applied risk-mitigation measures are detailed in Table 7.

Table 7. BIG4LIFE project prioritized list of risks and applied risk-mitigation measures

Risk Nº	Description	WP Nº	Applied risk-mitigation measures
1	Delay in the execution of the BIG refurbishment tasks and facilities installation **(high)**	WP3	• Prioritization of WP3 tasks • The WP5 schedule can be adapted to any delays in the execution of the works during WP3
2	Delays in project tasks **(Medium)**	All	• An "early warning" system to resolve risks as part of Project Management Plan (PMP)
3	Difficulties in the design of monitoring and maintenance plans in the different demonstrative BIG projects **(medium)**	WP2	• The characterization of real cases will allow monitoring to be adapted to each case. • Characterization will be carried out in more detail than expected and may take longer than expected (only 3 months)
4	Coordination difficulties within the networks with stakeholders created **(medium)**	• WP5	• The roles of each identified stakeholder must be correctly defined. • The WP4 awareness sessions are key.
5	Lack of continuity of the stablished networks beyond the end of the project **(medium)**	WP6	• The After BIG4LIFE Plan will define the procedures to be followed. • A specific workshop will be held to create awareness on the importance of the continuous application of networking procedures to BIG long-term sustainability.
6	Coordinating issues across WPs (Low)	WP1	• A strong internal communication strategy has been drafted (WP7).

7	Lack of integration of BIG4LIFE results into local, regional and national policies (low)	WP6	• There are specific tasks addressing this issue in WP5, including the draft of specific recommendation letters to be addressed to suitable key external stakeholders.
8	Lack of dissemination and communication (low)	WP7	• The set of actions planned is very comprehensive and covers many areas and levels, i.e. scientific dissemination, and dissemination to society in general.

"early warning" system

Since the greatest concern lies in the possible delays in the execution of the tasks and especially in the execution of the rehabilitations and the installation of the monitoring equipment, a spreadsheet has been prepared that contains all the tasks and its temporary planning, which will be reviewed weekly by the Project Management Team and presented periodically to the Project Coordination Unit in the monthly project coordination meetings.

If delays are detected that could put the development of the project at risk, the corresponding decisions will be analysed and taken in order to respond to the risk in question.

On the other hand, the table of risks will be periodically reviewed before each monthly coordination meeting, and in the event that any risk is detected, either from the table or a new one, it will be presented at the meeting for joint analysis. One of the fixed points on the agenda of the monthly meetings will be "project risk analysis".

5.5.4. Reporting and payments

The BIG4LIFE project is very demanding in terms of resources during the first year, as it is necessary to address the partial rehabilitation of the failed green roofs, as well as the acquisition and installation of the monitoring equipment. For

this reason, it has been structured in three financing periods, which correspond to three reporting periods, according to the following allocation distribution:

- Initial prefinancing: 30%
    - Reporting period M1-M9
- Additional prefinancing (M9): 25%
    - Reporting period M10-M18
- Prefinancing (M18): 25%
    - Reporting period M19-M36
- Final Payment: 20%

Annex 3 details the timeline of the BIG4LIFE project, specifying the reporting periods and payments, as well as the deliverables delivery schedule.

6. Resources allocation

For the management of the resources assigned to the project, both personnel and material resources and other expenses, a monitoring and certification spreadsheet has been developed that will be reviewed continuously in order to adjust the expenses and the execution of the planned tasks.

Annex 4 details the resource management system of the BIG4LIFE project.

In this spreadsheet, the allocation of resources has been distributed chronologically for each of the partners, so that each of them can continuously review the planned allocation.

The fulfilment of the tasks and the expenses executed will be periodically reviewed in order to offset and balance the project budget.

Annex 1. Resolution of the hiring process of BIG4LIFE Project Manager

Universitat de Lleida

Co-funded by the European Union

RESOLUCIÓ

Del concurs de selecció per la qual es convoca concurs de mèrits i capacitats per formalitzar un contracte laboral de Personal d'Administració i Serveis a càrrec d'activitats de recerca i transferència (Referència 64/2023 projecte G23008).

En data 19 de setembre de 2023 es va publicar el concurs de selecció 64/2023 per a contractar una persona per realitzar les tasques concretes relacionades amb l'activitat de recerca i transferència G23008 - BIG4LIFE (Building-integrated Greenery): Collaborative xeriscaping-based maintenance and monitoring in Mediterranean cities (GA: 101114024)" vinculat amb els fons The European Climate, Infrastructure and Environment Executive Agency (CINEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'), amb la modalitat contractual de durada indefinida, vinculada al finançament específic del projecte.

D'acord amb l'informe de valoració del/de la professor/a responsable del projecte, tal com consta al punt 5.1 de les bases de la convocatòria i atès que la gerència i el comitè han donat el vistiplau a la proposta de contractació, en virtut de les atribucions que em confereixen la Llei 1/2003, de 19 de febrer, d'universitats de Catalunya, el Conveni col·lectiu del personal d'administració i serveis laboral de les universitats públiques catalanes i els Estatuts de la Universitat de Lleida, resolc fer públic el nom de la persona que ha superat aquest concurs de selecció i que es detalla a continuació:

Projecte	Grup	Adjudicació
64/2023 projecte G23008	2 (U)	Herrera Diez, Laura

D'acord amb l'article 124 de la Llei 39/2015, d'1 d'octubre, del procediment administratiu comú de les administracions públiques, contra aquesta resolució, les persones interessades poden interposar, potestativament, recurs de reposició davant el rector en el termini d'un mes, o bé directament demanda davant el Jutjat Social de Lleida en el termini de dos mesos des de la publicació. Aquests terminis es comptaran a partir de l'endemà de la publicació d'aquesta resolució.

Ramon Saladrigues Solé
Gerent

Per delegació de competències del rector
en diferents òrgans unipersonals de la Universitat
per Resolució de 22.06.23, publicada al DOGC 8947 de 29.06.23

Lleida, a data de la signatura electrònica

Annex 2. Kick-off meeting agenda and participants

BIG4LIFE Face-to-face kick-off meeting 26-27 October 2023			
Agenda			Address/coments
Time	**26 October (PCiTAL, Lleida)**		**Agri-food Scientific and Technologic Park of Lleida (PCiTAL). Parc Gardeny, 0, 25003 Lleida**
08:30 h	Reception (PCiTAL)		
09:00 -09:15 h	Partners presentation - introductions		Please prepare 2 slide presentation each partner with institution presentation and team members involved in the project
09:15 - 09:30h	Project overview		
9:30h - 10:30h	Project Details		
10:30h -11:30h	Coffee-break		
11:30h -12:30h	Roles and Responsibilities		
12:30h -13:30h	Next Steps and actions		
13:30h - 14:00h	Visit BIG1-PCiTAL green roofs		
14:00h - 16:00h	Lunch-break		**Belen de Plablo** will be there. We can ask her about **financial-administrative procedures/doubts**
16:00h - 18:00h	Visit to Cappont Campus		
	27 October (BCN)		
7:30h	Leaving Lleida, to BCN		
10:30h - 11:30h	Visit BIG3 - Porxos d'en Xifré		Porxos d'en Xifré, Llauder 1, 08003 Barcelona
12:00h - 13:30h	Visit BIG5 - URBASER		Urbaser, Carrer de Fra Juníper Serra, 75, 08030 Barcelona
14:00 - 16:30h	Visit BIG4 - TEBVerd		TEB Verd SCCL, Carrer de Fernando Pessoa, 54-64, 08030 Barcelona
	Lunch in TEBVerd headquarters		
16:30h	End of the KO meeting		

BIG4LIFE
BUILDING-INTEGRATED GREENERY

The BIG4LIFE project has received funding from the LIFE Programme of the European Union

SURNAME	NAME	INSTITUTION	26 October PCiTAL (Lleida)	27 October Green roofs (BCN)
Pérez	Gabriel	University of Lleida (UdL)		
Coma	Julià	University of Lleida (UdL)		
Pallejà	Tomàs	University of Lleida (UdL)		
Tresanchez	Marcel	University of Lleida (UdL)		
Ballesta	Astrid	University of Lleida (UdL)		
Miquel	Martí	Forest Science and Technology Centre of Catalonia (CTFC)		
Roser	Maneja	Forest Science and Technology Centre of Catalonia (CTFC)		
Carreño	Berta	Forest Science and Technology Centre of Catalonia (CTFC)		
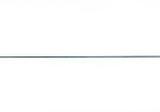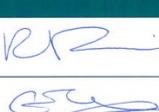
BIG4LIFE
BUILDING-INTEGRATED GREENERY

The BIG4LIFE project has received funding from the LIFE Programme of the European Union

SURNAME	NAME	INSTITUTION	26 October PCiTAL (Lleida)	27 October Green roofs (BCN)
Perinni	Katia	University of Genova (UNIGE)		
Zervas	Efthimios	Hellenic Open University (HOU)		
Berruezo	Joan	TEB VERD SCCL (TEBVERD)		
Gil	Angel	TEB VERD SCCL (TEBVERD)		
Navarro	Teresa	TEB VERD SCCL (TEBVERD)		
Guzman	Daniel	Verdtical Ecosistma S.L. (Verdtical)		
Amich	Toni	SEMPERGREEN BV (Sempergreen)		
de Vos	Max	SEMPERGREEN BV (Sempergreen)		

BIG4LIFE
BUILDING-INTEGRATED GREENERY

The BIG4LIFE project has received funding from the LIFE Programme of the European Union

SURNAME	NAME	INSTITUTION	26 October PCiTAL (Lleida)	27 October Green roofs (BCN)
Calvo	Lídia	SOLUCIONS EIXVERD SL (Eixverd)		
Aran	Miquel	PCiTAL (Manager)		
Herrera	Laura	UDL		

Annex 3. Reporting and payments

101114024
LIFE22-ENV-ES-BIG4LIFE
BIG4LIFE (Building-integrated Greenery): Collaborative xeriscaping-based maintenance and monitoring in Mediterranean cities

Year	2023	2024	2025	2026

| Month | 1 S | 2 O | 3 N | 4 D | 5 J | 6 F | 7 M | 8 A | 9 M | 10 J | 11 J | 12 A | 13 S | 14 O | 15 N | 16 D | 17 J | 18 F | 19 M | 20 A | 21 M | 22 J | 23 J | 24 A | 25 S | 26 O | 27 N | 28 D | 29 J | 30 F | 31 M | 32 A | 33 M | 34 J | 35 J | 36 A |

Reporting periods

Prefinancing	01.09.23	31.05.24
30%		
325,346.47 eur		

Additional prefinancing	01.06.24	28.02.25
25%		
271,122.06 eur		

Additional prefinancing	01.03.25	31.08.26
25%		
271,122.06 eur		

Final payment
20%
216,897.64 eur

Deliverables

D9, D1, D2, D12, D7, D26, D31, D3
D5, D10, D13, D35, D4
D11, D14, D6
D29, D15, D8
D32, D22
D33, D23
D34, D24
D21, D25
D27, D28
D30, D36
D37
D16, D17, D18, D19, D20

BIG4LIFE

101114024
LIFE22-ENV-ES-BIG4LIFE
BIG4LIFE (Building-integrated Greenery): Collaborative xeriscaping-based maintenance and monitoring in Mediterranean cities

Number	Relative Number in WP	Name	Lead Beneficiary	Due Date (in months)	
D9	D2.1	BIG4LIFE projects characterization	Sempergreen BV	3	November 23
D1	D1.1	Project Management Plan	UdL	4	December 23
D5	D1.5	Green Management principles	UdL	4	December 23
D2	D1.2	Data Management Plan	UdL	6	February 24
D10	D2.2	EU Networking Plan for Monitoring and Evaluation of BIG4LIFE systems Impacts	UdL	6	February 24
D11	D2.3	EU Networking Maintenance Plan for BIG4LIFE systems	Sempergreen BV	6	February 24
D29	D7.1	Dissemination and Communication Plan	CTFC	6	February 24
D32	D7.4	Dissemination materials Project Leaflet	CTFC	6	February 24
D33	D7.5	Dissemination materials Notice boards	CTFC	6	February 24
D34	D7.6	Dissemination materials Roll-ups	CTFC	6	February 24
D12	D3.1	Refurbishment of failed-case BIG4LIFE projects	Verdtical	9	March 24
D13	D3.2	Facilities for monitoring and maintenance of BIG4LIFE projects	Verdtical	9	March 24
D14	D4.1	BIG4LIFE Community Service Learning (CSL) organization	TEB VERD SCCL	9	March 24
D15	D4.2	Educational material for capacity building of BIG4LIFE	TEB VERD SCCL	9	March 24
D7	D1.7	Extract of the project data from the LIFE KPI webtool at month 9	UdL	10	June 24
D31	D7.3	Layman's report	CTFC	27	November 25
D26	D6.5	Study on Networking with existing NBS platforms	Verdtical	30	February 26
D35	D7.7	Seminars	CTFC	30	February 26
D16	D5.1	Cost-benefit analysis of BIG systems within BIG4LIFE project.	UNIGE	33	March 26
D17	D5.2	Framework "EU Networking Plan for Monitoring and Evaluation of BIG systems Impacts".	UdL	33	March 26
D18	D5.3	Guideline for Cost-benefit analysis of BIG systems service life.	UNIGE	33	March 26
D19	D5.4	Framework "EU Networking Maintenance Plan for BIG systems".	TEB VERD SCCL	33	March 26
D20	D5.5	Professional guide of best practices for BIG systems maintenance	Sempergreen BV	33	March 26
D21	D5.6	Report on the "Environmental performance of the 8 BIG selected projects for BIG4LIFE"	UdL	33	March 26
D27	D6.6	After BIG4LIFE Plan	UdL	33	March 26
D30	D7.2	Video	CTFC	33	March 26
D37	D7.9	BIG Congress Final Conclusions	UdL	33	March 26
D3	D1.3	Main meetings minutes	UdL	36	August 26
D4	D1.4	BIG4LIFE Project Outcomes	UdL	36	August 26
D6	D1.6	Green Management summary report	UdL	36	August 26
D8	D1.8	Extract of the project data from the LIFE KPI webtool at month 36	UdL	36	August 26
D22	D6.1	Study about International replicability of BIG4LIFE project	UNIGE	36	August 26
D23	D6.2	Study about the Integration of EU Networking Plans into regulations and technical standards	Sempergreen BV	36	August 26
D24	D6.3	Proposal of "municipal incentive for BIG systems"	UdL	36	August 26
D25	D6.4	Recommendation letter to be send to policy makers, municipal technicians, and other stakeholders	UdL	36	August 26
D28	D6.7	Exploitation and Replication Plan	UdL	36	August 26
D36	D7.8	Scientific publications	UdL	36	August 26

Annex 4. Resources allocation

BIG4LIFE

Work Package 1: Management, Coordination and quality	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd		
Task 1.1. Technical, financial and administrative coordination										
To set up the Consortium Agreement										
Kick off meeting (PCU establishment) (M1)	10	1	3	3	1	1	1	1		
In-person meeting Lleida										
Elaboration Project Management Plan (PMP)	20									
2 project progress meetings (M12, M24)	10	2	6	6	2	2	2	2		
In-person meeting Barcelona + In-person meeting Lleida										
Final meeting (M36)	5	1	3	3	1	1	1	1		
In-person meeting Barcelona										
Monthly PMT video conferences	36	18	18	18	18	18	18	18		
1/2 per reunió virtual, UdL, sencera que l'ha de preparar										
To create a project virtual login-protected workspace								UNIDISC		
Task 1.2. Quality Control and Reporting										
Semester reports	50	5								
Update KPIs (M9, M36)	20									
Data Management Plan (DMP)	40									
Annual reports (visits) to project officer from EC	40									
Final Report of the Project	20									
	251	27	30	30	22	22	22	22	days	
	14,0	1,5	1,7	1,7	1,2	1,2	1,2	1,2	Person month	days/17.92

WP2: Preparatory activities	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd		
Task 2.1. Selected BIG projects characterization										
Subtask 2.1.1. Stakeholder recognition, by selected BIG project	8	8			8	8	8	8		
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project	16	8			8	8	8	8		
2 meetings in Lleida and 6 meeting in Barcelona										
Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project	10	5	1	1	1	1	2	1		
Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project	10	5	2	2						
Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization	10	5					10			
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization	5	1			1	2	2	1		
In person 1 in Lleida and 1 in Barcelona										
Task 2.2 Plans co-design by selected project										
Subtask 2.2.1. To draft the "Networking Plan for Monitoring and Evaluation of BIG systems Impacts" by selected project.	10	5	2	2	1	1	1	1		
Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project	10	5			1	1	10	1		
Subtask 2.2.3. Workshop with stakeholders to review the designed plans	5	1			1	1	1	5		
In person 1 in Lleida and 1 in Barcelona										
	84	43	5	5	21	22	42	25	days	
	4,7	2,4	0,3	0,3	1,2	1,2	2,3	1,4	Person month	days/17.92

WP3. Refurbishment and facilities installation	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd		
Task 3.1. Refurbishment of "failed-case" BIG projects										
Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects	10				5	5	5	10		
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects	20				12	12	15	50		
20 days PCiTAL, 20 days Ronda, 10 Days El Prat										
Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects										
Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project	10				5	5	5	10		
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects	160				20	80	20	20		
8 projectes x 10 dies x projecte x 2 persones										
Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project	20				8	8	8	8		
Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project	20				8	8	8	8		
	240	0	0	0	58	118	61	106	days	
	13,4	0,0	0,0	0,0	3,2	6,6	3,4	5,9	Person month	days/17.92

WP4. Stakeholder capacity building	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd		
Task 4.1. Community Service Learning (CSL) organization										
Subtask 4.1.1. To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project	20		20		20					
Subtask 4.1.2 To select the candidates to participate in the CSL activities	10				10					
Task 4.2. Awareness and training activities on Axis 1. Technical aspects										
Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects	30	10	30	20	30	10	10	10		
Subtask 4.2.2. Awareness sessions on Axis 1. Technical aspects	5	1	2	2	3	1	1	1		
Two seminars, 1 day, in Lleida and Barcelona										
Subtask 4.2.3. Training course on Axis 1. Technical aspects	5	2	5	2	5	2	2	2		
Two trainings, 5 days, in Lleida and Barcelona										
Task 4.3. Training activities on Axis 2….Axis 3...Axis 4….										
Subtask 4.3.1. To design the educational material about Axis 2...Axis 3...Axis 4...	30	10	30	15	30	10	10	10		
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4...	10	2	8	2	5	2	2	2		
Two trainings, 5 days, in Lleida and Barcelona										
	110	25	95	41	103	25	25	25	days	
	6,1	1,4	5,3	2,3	5,7	1,4	1,4	1,4	Person month	days/17.92

Work Package 5: Development, monitoring and evaluation	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd		
Task 5.1. Development of network monitoring and evaluation of impacts activities										
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing, by selected BIG project (Manual/Smart)										
Management, supervision and support to monitoring data acquisition and processing, 4 day/month	144	72	72	72	36	36	36	36		
Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits; 6 projects in Barcelona x24 visits = 144 visits	48	24			24	24	24	24		
Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project										
Management, supervision and support impact's evaluation	144	72	72	72	36	36	36	36		
visits included in 5.1.1										
Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project	20	5	40	5	5	5	5	5		
Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts"	20	10	5	5	5	5	5	5		
Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life	10	5	20	5	5	5	5	5		
Task 5.2. Development of networking maintenance activities										
Subtask 5.2.1. Management, supervision and support to maintenance activities, by selected BIG project	0	0	0	0	0	0	0	0		
Management, supervision and support to maintenance activities following the defined network approach	36	36			72	72	72	72		
Visits included in 5.1.1										
Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project	10				5	10	5	5		
Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems"	10				20	5	5	5		
Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance	10				5	5	10	10		
	452	224	209	159	213	203	203	203	days	
	25,2	12,5	11,7	8,9	11,9	11,3	11,3	11,3	Person month	days/17.92

Work Package 6: Sustainability, replication and exploitation	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd		
Task 6.1. International replication (Catalytic effect - spatial)										
Subtask 6.1.1. International replicability of BIG4LIFE	20	5	20	14						
Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE	5	1	5	5	1	1	1	1		
Virtual								1		
Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)										
Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations	5		5	5	5	5	10	5		
Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance	20		10	10	5	5	5	5		
Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards	20		10	10	5	5	5	5		
Task 6.3. Networking with existing NBS platforms	40		20	20		20				
Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)										
Subtask 6.4.1. After BIG4LIFE Plan elaboration	30	10	13	10	5	5	5	5		
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan	10	1	1	1	5	1	1	1		
Two workshop, 1 day, in Lleida and Barcelona										
	150	17	84	75	26	42	28	22	days	
	8,4	0,9	4,7	4,2	1,5	2,3	1,6	1,2	Person month	days/17.92

Work Package 7: Dissemination and communication	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd		
T.7.1 Design and develop the Disemination and Communication Plan, channels and tools										
Subtask 7.1.1 Internal-Consortium communication	24	24								
Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity	10	10								
Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels	36	72								
T.7.2 Communication activities										
Subtask 7.2.1 Press communications and publications	18	36								
Subtask 7.2.2 Short film/video about BIG positive impacts	10	10								
Subtask 7.2.3 Newsletters	36	72								
Subtask 7.2.4 Layman's report	5	5								
Subtask 7.2.5 Awareness talks to the large public	20	10	4	4	5	5	5	5		
2 in-person in Lleida and Barcelona (Eixverd), and 1 on-line										
Subtask 7.2.6 Dissemination materials										
T.7.3 Dissemination activities										
Subtask 7.3.1 Seminars	20	10	5	5	5	5	5	5		
2 events First and Final, in Lleida x2 and in Barcelona x2										
Subtask 7.3.2 Conferences	10	5	5	5						
4 Conferences x 2 people x registration + travelling										
Subtask 7.3.3 Scientific publications	20	20	10	10						
4 publicacions open acces 2 UdL; 2CTFC										
Subtask 7.3.4 BIG4LIFE international conference	20	10	5	5	5	5	5	5		
2 days International Forum on BIG systems in Barcelona										
T.7.4 Networking with related LIFE projects	30	10								
	259	294	29	29	15	15	15	15	days	
	14,5	16,4	1,6	1,6	0,8	0,8	0,8	0,8	Person month	days/17.92

	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd		
Total days	1546	630	452	339	458	447	396	418	4686	
Person month	86,3	35,2	25,2	18,9	25,6	24,9	22,1	23,3	261,5	days/17.92
	86	35	25	19	26	25	22	23		

	1-UDL	2-CTFC	3-UNIGE	4-HOU	5-TEB Verd	6-Verdtical	7-Sempergreen	8-Eixverd	
Staff Cost x Av. Daily salary rate	426.875,34	170.753,94	111.158,55	89.441,42	99.804,15	97.407,11	86.359,68	100.534,43	1.182.334,63
Staff Cost x Av. monthly salary rate	426.875,45	170.753,91	111.158,71	89.441,52	99.471,88	97.407,09	86.359,82	100.534,60	
Other costs (the other excel file)	265.344,00	20.978,00	23.529,00	15.184,00	38.940,00	43.080,00	35.390,00	61.300,00	503.745,00
Parcial	692.219,45	191.731,91	134.687,71	104.625,52	138.411,88	140.487,09	121.749,82	161.834,60	1.685.747,96
7% indirectes	48.455,36	13.421,23	9.428,14	7.323,79	9.688,83	9.834,10	8.522,49	11.328,42	
Total	740.674,81	205.153,14	144.115,84	111.949,30	148.100,71	150.321,18	130.272,31	173.163,02	1.803.750,31
40%	296.269,92	82.061,26	57.646,34	44.779,72	59.240,28	60.128,47	69.265,21		
60%	444.404,88	123.091,88	86.469,51	67.169,58	88.860,42	90.192,71	78.163,39	103.897,81	1.082.250,19

![BIG4LIFE logo]

	23				24											25											26							
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
	1-UDL	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Work Package 1: Management, Coordination and quality

Task 1.1. Technical, financial and administrative coordination
To set up the Consortium Agreement
Kick off meeting (PCU establishment) (M1) — 10
In-person meeting Lleida
Elaboration Project Management Plan (PMP) — 20
2 project progress meetings (M12, M24) — 10
In-person meeting Barcelona + In-person meeting Barcelona
Final meeting (M36) — 5
In-person meeting Barcelona
Monthly PMT video conferences — 36
1/2 per reunió virtual, Udl, sencera que l'ha de preparar
To create a project virtual login-protected workspace

Task 1.2. Quality Control and Reporting
Semester reports — 50
Update KPIs (M9, M36) — 20
Data Management Plan (DMP) — 40
Annual reports (visits) to project officer from EC — 40
Final Report of the Project — 20
251 / 14,0

WP2: Preparatory activities

Task 2.1. Selected BIG projects characterization
Subtask 2.1.1. Stakeholder recognition, by selected BIG project — 8
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project — 16
2 meetings in Lleida and 6 meeting in Barcelona
Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project — 10
Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project — 10
Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization — 10
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization — 5
In person 1 in Lleida and 1 in Barcelona

Task 2.2 Plans co-design by selected project
Subtask 2.2.1 To draft the "Networking Plan for Monitoring and Evaluation of BIG systems impacts" by selected project — 10
Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project — 10
Subtask 2.2.3. Workshop with stakeholders to review the designed plans — 5
In person 1 in Lleida and 1 in Barcelona
84 / 4,7

WP3. Refurbishment and facilities installation

Task 3.1. Refurbishment of "failed-case" BIG projects
Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects — 10
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects — 20
20 days PCiTAL, 20 days Ronda, 10 Days El Prat

Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects
Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project — 10
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects — 160
8 projects x 10 dies x projecte x 2 persones
Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project — 20
Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project — 20
240 / 13,4

WP4. Stakeholder capacity building

Task 4.1. Community Service Learning (CSL) organization
Subtask 4.1.1. To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project — 20
Subtask 4.1.2 To select the candidates to participate in the CSL activities — 10

Task 4.2. Awareness and training activities on Axis 1. Technical aspects
Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects — 30
Subtask 4.2.2. Awareness sessions on Axis 1. Technical aspects — 5
Two seminars, 1 day; in Lleida and Barcelona
Subtask 4.2.3. Training course on Axis 1. Technical aspects — 5
Two trainings, 5 days, in Lleida and Barcelona

Task 4.3. Training activities on Axis 2...Axis 3...Axis 4...
Subtask 4.3.1. To design the educational material about Axis 2...Axis 3...Axis 4... — 30
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... — 10
Two trainings, 5 days, in Lleida and Barcelona
110 / 6,1

Work Package 5: Development, monitoring and evaluation

Task 5.1. Development of network monitoring and evaluation of impacts activities
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing, by selected BIG project (Manual/Smart)
Management, supervision and support to monitoring data acquisition and processing. 4 day/month — 144
Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits, 6 projects in Barcelona x24 visits = 144 visits — 48
Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project
Management, supervision and support impact's evaluation — 144
visits included in 5.1.1
Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project — 20
Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts" — 20
Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life — 10

Task 5.2. Development of networking maintenance activities
Subtask 5.2.1. Management, supervision and support to maintenance activities, by selected BIG project — 0
Management, supervision and support to maintenance activities following the defined network approach — 36
Visits included in 5.1.1
Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project — 10
Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems" — 10
Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance — 10
452 / 25,2

Work Package 6: Sustainability, replication and exploitation

Task 6.1. International replication (Catalytic effect - spatial)
Subtask 6.1.1. International replicability of BIG4LIFE — 20
Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE — 5
Virtual

Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)
Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations — 5
Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance — 20
Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards — 20

Task 6.3. Networking with existing NBS platforms — 40

Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)
Subtask 6.4.1. After BIG4LIFE Plan elaboration — 30
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan — 10
Two workshop, 1 day, in Lleida and Barcelona
150 / 8,4

Task 6.5. Exploitation and Replication Plan (new during Grant Agreement process)

Work Package 7: Dissemination and communication

T.7.1 Design and develop the Dissemination and Communication Plan, channels and tools
Subtask 7.1.1 Internal-Consortium communication — 24
Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity — 10
Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels — 36

T.7.2 Communication activities
Subtask 7.2.1 Press communications and publications — 18
Subtask 7.2.2 Short film/video about BIG positive impacts — 10
Subtask 7.2.3 Newsletters — 36
Subtask 7.2.4 Layman's report — 5
Subtask 7.2.5 Awareness talks to the large public — 20
2 in-person in Lleida and Barcelona (Eixverd), and 1 on-line

T.7.3 Dissemination activities
Subtask 7.2.6 Dissemination materials

T.7.3 Dissemination activities
Subtask 7.3.1 Seminars — 20
2 events First and Final, in Lleida x2 and in Barcelona x2
Subtask 7.3.2 Conferences — 10
4 Conferences x 2 people x registration + travelling
Subtask 7.3.3 Scientific publications — 20
4 publicacions open acces 2 UdL; 2CTFC
Subtask 7.3.4 BIG4LIFE international conference — 20
2 days International Forum on BIG systems in Barcelona

T.7.4 Networking with related LIFE projects — 30
259 / 14,5

	Total days	1546
	Person month	86,3
		86

	23			24										25										26						
	S	O N D	J	F M A M J	J A S O N D	J F M A M J	J A S O N D	J F M A M J	J A																					

Other direct costs

Justification | **Cost**

Travel & subsistence
Task 1.1. Technical, financial and administrative coordination. Project progress meeting (M12), Barcelona. 2 people — 180
Task 1.1. Technical, financial and administrative coordination. Project Final meeting (M24), Barcelona. 2 people — 180
Subtask 2.1.2. Meeting, by selected BIG project. 6 meetings in Barcelona. 2 People — 1.080
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Barcelona. 2 People — 180
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Barcelona. 2 people — 180
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. 2 days. Barcelona. 2 people — 360
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects. 60 days. Barcelona. 2 people — 10.800
Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected — 1.080
Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project. 6 days. Barcelona. 2 people — 1.080
Subtask 4.2.3. Training course on Axis 1. Technical aspects. 1 day. Barcelona. 2 people — 180
Subtask 4.2.3. Training course on Axis 2...Axis 3...Axis 4... 1 day. Barcelona. 2 people — 180
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing + Subtask 5.1.2 ... impact's evaluation + Subtask 5.2.1. ... maintenance activities. Barcelona. 6 days. 2 people — 1.080
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Barcelona. 2 people — 180
Subtask 7.2.5 Awareness talks to the large public. Barcelona. 2 people — 180
Subtask 7.3.1 Seminars. Barcelona. 2 seminars Initial and Final. 2 people — 360
Subtask 7.3.2 Conferences. 1 international conference. 2 People — 360
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. 3 days. Organitation. 4 people — 1.080
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. 2 days. Attendance. 4 people — 720

Equipment (incl. infrastructure)
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects. Equipments
Air quality. 10 compact air quality stations (full cost) — 50.000
Climate vulnerability. UHI/Runof control. 8 full local meteorological station (Temperature at two heights, RH at two heights, Barometer, Solar global — 21.600
GHS sequestration. 2 Eddy Covariance stations (full cost) — 120.000
Noise. 5 sonometers (full cost) — 5.000

Other goods, works and services
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1. PCU establishment). Lleida. Catering service, rental space, office material — 300
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. Catering service, rental space, office material — 300
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Lleida. Catering service, rental space, office material — 300
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Lleida. Catering service, rental space, office material — 300
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects. Equipments
Biodiversity. 8 camera trap — 2.000
Climate vulnerability. Urban Heat Island/Runof control.
8 sets of Soil temperature (RT-1), volumetric water content (VWC%) of the substrate and Electrical Conductivity (GS3) + datalogger (ZL6) with Zentra Cloud services and remote acces, two replications plus reference — 14.904
5 sets five sets for measuring the water cycle on the roof, 2 water level (Hydros 21) + 2 water inlet flux meter + datalogger (ZL6) with Zentra Cloud services and remote access — 8.960
Participation, 6 pairs of people counting sensors (accesses) — 1.900
Water quality. Leachates in runoff water will be analyzed, in 4 projects, every three months, with two repetitions and the reference. A total of 80 analyses — 800
Subtask 4.2.3. Training course on Axis 1. Technical aspects. Lleida. Rental space, office material — 300
Subtask 4.2.3. Training course on Axis 2...Axis 3...Axis 4... Lleida. Rental space, office material — 300
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Lleida. Catering service, rental space, office material — 300
Subtask 7.2.5 Awareness talks to the large public. Lleida. Catering service, rental space, office material — 2.000
Subtask 7.3.2 Conferences. 1 international conferences. Registration to the conference. 2 People — 2.000
Subtask 7.3.3 Scientific publications. Cost of two open acces licence — 6.000
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. Organitation. Catering service, rental space, office material — 8.000

BIG4LIFE

	23			24												25												26							
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A

	2-CTFC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Work Package 1: Management, Coordination and quality
Task 1.1. Technical, financial and administrative coordination
To set up the Consortium Agreement
Kick off meeting (PCU establishment) (M1) — 1
In-person meeting Lleida
Elaboration Project Management Plan (PMP)
2 project progress meetings (M12, M24) — 2
In-person meeting Barcelona + In-person meeting Lleida
Final meeting (M36) — 1
In-person meeting Barcelona
Monthly PMT video conferences — 18 / 0.5 (0.5 each month)
1/2 per reunió virtual, UdL sencera que l'ha de preparar
To create a project virtual login-protected workspace
Task 1.2. Quality Control and Reporting
Semester reports — 5
Update KPIs (M9, M36)
Data Management Plan (DMP)
Annual reports (visits) to project officer from EC
Final Report of the Project
— 27
— 1,5

WP2: Preparatory activities
Task 2.1. Selected BIG projects characterization
Subtask 2.1.1. Stakeholder recognition, by selected BIG project — 8
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project — 8
2 meetings in Lleida and 6 meeting in Barcelona
Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project — 5
Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project — 5
Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization — 5
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization — 1
In person 1 in Lleida and 1 in Barcelona
Task 2.2 Plans co-design by selected project
Subtask 2.2.1 To draft the "Networking Plan for Monitoring and Evaluation of BIG systems Impacts" by selected project. — 5
Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project — 5
Subtask 2.2.3. Workshop with stakeholders to review the designed plans — 1
In person 1 in Lleida and 1 in Barcelona
— 43
— 2,4

WP3. Refurbishment and facilities installation
Task 3.1. Refurbishment of "failed-case" BIG projects
Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects
20 days PCiTAL, 20 days Ronda, 10 Days El Prat
Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects
Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects
8 projects x 10 dies x projecte x 2 persones
Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project
Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project
— 0
— 0,0

WP4. Stakeholder capacity building
Task 4.1. Community Service Learning (CSL) organization
Subtask 4.1.1 To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project
Subtask 4.1.2 To select the candidates to participate in the CSL activities
Task 4.2. Awareness and training activities on Axis 1. Technical aspects
Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects — 10
Subtask 4.2.2 Awareness sessions on Axis 1. Technical aspects — 1
Two seminars, 1 day, in Lleida and Barcelona
Subtask 4.2.3. Training course on Axis 1. Technical aspects — 2
Two trainings, 5 days, in Lleida and Barcelona
Task 4.3. Training activities on Axis 2...Axis 3...Axis 4....
Subtask 4.3.1. To design the educational material about Axis 2...Axis 3... Axis 4... — 10
Subtask 4.3.2. Training course on Axis 2...Axis 3... Axis 4... — 2
Two trainings, 5 days, in Lleida and Barcelona
— 25
— 1,4

Work Package 5: Development, monitoring and evaluation
Task 5.1. Development of network monitoring and evaluation of impacts activities
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing, by selected BIG project (Manual/Smart) — 72
Management, supervision and support to monitoring data acquisition and processing, 4 day/month — 24
Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits; 6 projects in Barcelona x24 visits = 144 visits
Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project — 72
Management, supervision and support impact's evaluation
visits included in 5.1.1
Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project — 5
Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts" — 10
Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life — 5
Task 5.2. Development of networking maintenance activities
Subtask 5.2.1 Management, supervision and support to maintenance activities, by selected BIG project — 0
Management, supervision and support to maintenance activities following the defined network approach — 36
Visits included in 5.1.1
Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project
Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems"
Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance
— 224
— 12,5

Work Package 6: Sustainability, replication and exploitation
Task 6.1. International replication (Catalytic effect - spatial)
Subtask 6.1.1. International replicability of BIG4LIFE — 5
Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE — 1
Virtual
Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)
Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations
Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance
Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards
Task 6.3. Networking with existing NBS platforms
Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)
Subtask 6.4.1. After BIG4LIFE Plan elaboration — 10
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan — 1
Two workshop, 1 day, in Lleida and Barcelona
— 17
— 0,9

Task 6.5. Exploitation and Replication Plan (new during Grant Agreement process)

Work Package 7: Dissemination and communication
T.7.1 Design and develop the Disemination and Communication Plan, channels and tools
Subtask 7.1.1 Internal-Consortium communication — 24
Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity — 10
Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels — 72
T.7.2 Communication activities
Subtask 7.2.1 Press communications and publications — 36
Subtask 7.2.2 Short film/video about BIG positive impacts — 10
Subtask 7.2.3 Newsletters — 72
Subtask 7.2.4 Layman's report — 5
Subtask 7.2.5 Awareness talks to the large public — 10
2 in-person in Lleida and Barcelona (Eixverd), and 1 on-line
Subtask 7.2.6 Dissemination materials
T.7.3 Dissemination activities
Subtask 7.3.1 Seminars — 10
2 events First and Final, in Lleida x2 and in Barcelona x2
Subtask 7.3.2 Conferences — 5
4 Conferences x 2 people x registration + travelling
Subtask 7.3.3 Scientific publications — 20
4 publicacions open acces 2 UdL, 2CTFC
Subtask 7.3.4 BIG4LIFE international conference — 10
2 days International Forum on BIG systems in Barcelona
T.7.4 Networking with related LIFE projects — 10
— 294
— 16,4

Total days — 630
Person month — 35,2
— 35

	23			24												25												26							
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Other direct costs
Justification — Cost
Travel & subsistence
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1. PCU establishment). Lleida. 2 people — 161,2
Task 1.1. Technical, financial and administrative coordination. Project progress meeting (M12). Barcelona. 2 people — 161,2
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. 2 people — 161
Task 1.1. Technical, financial and administrative coordination. Project Final meeting (M36). Barcelona. 2 people — 161,2
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project. 2 meetings in Lleida. 2 people — 161,2
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project. 6 meetings in Barcelona. 2 people — 967,2
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Lleida. 2 People — 161
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Barcelona. 2 People — 161
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Lleida. 2 people — 161
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Barcelona. 2 people — 161
Subtask 4.2.3. Training course on Axis 1. Technical aspects. 1 day. Lleida. 2 people — 161
Subtask 4.2.3. Training course on Axis 1. Technical aspects. 1 day. Barcelona. 2 people — 161
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... 1 day. Lleida. 2 people — 161
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... 1 day. Barcelona. 2 people — 161
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing + Subtask 5.1.2 ... impact's evaluation + Subtask 5.2.1... maintenance activities. Barcelona. 6 days. 2 people — 1.080
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Lleida. 2 people — 161
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Barcelona. 2 people — 161
Subtask 7.2.5 Awareness talks to the large public. Lleida. 2 people — 161
Subtask 7.2.5 Awareness talks to the large public. Barcelona. 2 people — 161
Subtask 7.3.1 Seminars. 2 seminars Initial and Final. Lleida. 2 people — 322
Subtask 7.3.1 Seminars. 2 seminars Initial and Final. Barcelona. 2 people — 322
Subtask 7.3.2 Conferences. 1 international conferences. 2 People — 2.000
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. 3 days. Organization. 2 people — 484
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. 2 days. Attendance. 2 people — 322
Other goods, works and services
Subtask 7.3.2 Conferences.1 international conferences. Registration to the conference for 2 People — 1.000
Subtask 7.3.3 Scientific publications. 1 open acces — 3.000
Dissemination materials. Roll-ups and information panels (1.200€), project leaflets (1.000€) (WP7) — 2.200
Layman's report (WP7) — 1.000
Survey server (WP6) — 500
EU mail domain for the project (WP7) — 40
"Professional guide of best practices for BIG systems maintenance" (Subtask 5.2.4.) — 5.000
Subcontracting
Video aiming at disseminating the beauty, benefits, and values of Building-Integrated Greenery, recorded using drones. It also will present the overall project scope and impacts and promoting the LIFE programme. — 5.000

	23		24			25			26	
	S	O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A

	3-UNIGE	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36
Work Package 1: Management, Coordination and quality					
Task 1.1. Technical, financial and administrative coordination					
To set up the Consortium Agreement					
Kick off meeting (PCU establishment) (M1)	3	3			
In-person meeting Lleida					
Elaboration Project Management Plan (PMP)					
2 project progress meetings (M12, M24)	6		3	3	
In-person meeting Barcelona + In-person meeting Lleida					
Final meeting (M36)	3				1
In-person meeting Barcelona					
Monthly PMT video conferences	18	0.5 0.5 0.5	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5	0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
1/2 per reunió virtual, UdL sencera que l'ha de preparar					
To create a project virtual login-protected workspace					
Task 1.2. Quality Control and Reporting					
Semester reports					
Update KPIs (M9, M36)					
Data Management Plan (DMP)					
Annual reports (visits) to project officer from EC					
Final Report of the Project					
	30				
	1,7				

	3-UNIGE	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36
WP2: Preparatory activities					
Task 2.1. Selected BIG projects characterization					
Subtask 2.1.1. Stakeholder recognition, by selected BIG project					
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project					
2 meetings in Lleida and 6 meeting in Barcelona					
Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project	1	1			
Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project	2	1 1			
Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization					
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization					
In person 1 in Lleida and 1 in Barcelona					
Task 2.2 Plans co-design by selected project					
Subtask 2.2.1 To draft the "Networking Plan for Monitoring and Evaluation of BIG systems Impacts" by selected project.	2	1 1			
Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project					
Subtask 2.2.3. Workshop with stakeholders to review the designed plans					
In person 1 in Lleida and 1 in Barcelona					
	5				
	0,3				

	3-UNIGE	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36
WP3. Refurbishment and facilities installation					
Task 3.1. Refurbishment of "failed-case" BIG projects					
Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects					
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects					
20 days PCiTAL, 20 days Ronda, 10 Days El Prat					
Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects					
Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project					
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects					
8 projectes x 10 dies x projecte x 2 persones					
Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project					
Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project					
	0				
	0,0				

	3-UNIGE	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36
WP4. Stakeholder capacity building					
Task 4.1. Community Service Learning (CSL) organization					
Subtask 4.1.1. To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project	20				
Subtask 4.1.2 To select the candidates to participate in the CSL activities					
Task 4.2. Awareness and training activities on Axis 1. Technical aspects					
Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects	30				
Subtask 4.2.2 Awareness sessions on Axis 1. Technical aspects	2				
Two seminars, 1 day, in Lleida and Barcelona					
Subtask 4.2.3. Training course on Axis 1. Technical aspects	5				
Two trainings, 5 days, in Lleida and Barcelona					
Task 4.3. Training activities on Axis 2....Axis 3...Axis 4....					
Subtask 4.3.1. To design the educational material about Axis 2...Axis 3...Axis 4...	30				
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4...	8				
Two trainings, 5 days, in Lleida and Barcelona					
	95				
	5,3				

	3-UNIGE	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36
Work Package 5: Development, monitoring and evaluation					
Task 5.1. Development of network monitoring and evaluation of impacts activities					
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing. by selected BIG project (Manual/Smart)					
Management, supervision and support to monitoring data acquisition and processing. 4 day/month	72		3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3
Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits, 6 projects in Barcelona x24 visits = 144 visits					
Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project					
Management, supervision and support impact's evaluation	72		3 3 3 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 3 3 3
visits included in 5.1.1					
Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project	40				10 10 10 10
Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts"	5				1 1 1 2
Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life	20				10 10
Task 5.2. Development of networking maintenance activities					
Subtask 5.2.1. Management, supervision and support to maintenance activities, by selected BIG project	0				
Management, supervision and support to maintenance activities following the defined network approach					
Visits included in 5.1.1					
Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project					
Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems"					
Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance					
	209				
	11,7				

	3-UNIGE	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36
Work Package 6: Sustainability, replication and exploitation					
Task 6.1. International replication (Catalytic effect - spatial)					
Subtask 6.1.1. International replicability of BIG4LIFE	20				3 3 2 2 2 2 2 2
Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE	5				3 2
Virtual					
Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)					
Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations	5				2 3
Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance)	10				1 1 1 1 1 1
Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards	10				1 1 1 1 1 1 1 2
Task 6.3. Networking with existing NBS platforms	20			3 3 3 4 4	
Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)					
Subtask 6.4.1. After BIG4LIFE Plan elaboration	13			5 5 3	
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan	1			1	
Two workshop, 1 day, in Lleida and Barcelona					
	84				
	4,7				
Task 6.5. Exploitation and Replication Plan (new during Grant Agreement process)					

	3-UNIGE	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36
Work Package 7: Dissemination and communication					
T.7.1 Design and develop the Dissemination and Communication Plan, channels and tools					
Subtask 7.1.1 Internal-Consortium communication					
Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity					
Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels					
T.7.2 Communication activities					
Subtask 7.2.1 Press communications and publications					
Subtask 7.2.2 Short film/video about BIG positive impacts					
Subtask 7.2.3 Newsletters					
Subtask 7.2.4 Layman's report					
Subtask 7.2.5 Awareness talks to the large public	4		1	1	2
2 in-person in Lleida and Barcelona (Eixverd), and 1 on-line					
Subtask 7.2.6 Dissemination materials					
T.7.3 Dissemination activities					
Subtask 7.3.1 Seminars	5		2		3
2 events First and Final, in Lleida x2 and in Barcelona x2					
Subtask 7.3.2 Conferences	5		2	2	
4 Conferences x 2 people x registration + travelling					
Subtask 7.3.3 Scientific publications	10			2 3	2 3
4 publicacions open acces 2 UdL, 2CTFC					
Subtask 7.3.4 BIG4LIFE international conference	5		1	1 1	1 1
2 days International Forum on BIG systems in Barcelona					
T.7.4 Networking with related LIFE projects					
	29				
	1,6				

Total days	452				
Person month	25,2				
	25				

	23		24			25			26	
	S	O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A
	1 2 3		4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28	29 30 31 32 33 34 35 36

Other direct costs		
Justification		Cost
Travel & subsistence		
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1. PCU establishment). Lleida. 1 person	1.100	
Task 1.1. Technical, financial and administrative coordination. Project progress meeting (M12). Barcelona. 1 person	900	
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. 1 person	1.100	
Task 1.1. Technical, financial and administrative coordination. Project Final meeting (M36). Barcelona. 1 person	900	
Subtask 7.3.2 Conferences. 1 international conferences. 2 People	2.200	
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. 2 days. Attendance. 2 people	2.200	
Other goods, works and services		
Subtask 7.3.2 Conferences. 1 international conferences. Registration. 2 People	1.000	
Subtask 7.3.3 Scientific publications. 2 open acces	3.000	
Dissemination materials creation and printing such as project informative small panels, leaflets, roll-ups, translated copies of the Layman's report, training material and guidelines, room booking and catering services related to events. (WP4. 6.000€ / WP6. 5.129€)	11.129	

BIG4LIFE

Timeline header (months 1–36):

Year	23				24											25												26							
Month	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A
#	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Work Package 1: Management, Coordination and quality

Task 1.1. Technical, financial and administrative coordination
- To set up the Consortium Agreement
- Kick off meeting (PCU establishment) (M1) — 4-HOU: 3 — (month 1: 3)
  - *In-person meeting Lleida*
- Elaboration Project Management Plan (PMP)
- 2 project progress meetings (M12, M24) — 4-HOU: 6 — (month 12: 3; month 24: 3)
  - *In-person meeting Barcelona + In-person meeting Lleida*
- Final meeting (M36) — 4-HOU: 3 — (month 36: 1)
  - *In-person meeting Barcelona*
- Monthly PMT video conferences — 4-HOU: 18 — 0.5 each month (months 1–36)
  - *1/2 per reunió virtual, UdL, sencera que l'ha de preparar*
- To create a project virtual login-protected workspace

Task 1.2. Quality Control and Reporting
- Semester reports
- Update KPIs (M9, M36)
- Data Management Plan (DMP)
- Annual reports (visits) to project officer from EC
- Final Report of the Project

Total: 30 / 1,7

WP2: Preparatory activities

Task 2.1. Selected BIG projects characterization
- Subtask 2.1.1. Stakeholder recognition, by selected BIG project
- Subtask 2.1.2. Meeting with stakeholders, by selected BIG project
  - *2 meetings in Lleida and 6 meeting in Barcelona*
- Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project — 4-HOU: 1 — (month 3: 1)
- Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project — 4-HOU: 2 — (month 2: 1; month 3: 1)
- Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization
- Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization
  - *In person 1 in Lleida and 1 in Barcelona*

Task 2.2 Plans co-design by selected project
- Subtask 2.2.1 To draft the "Networking Plan for Monitoring and Evaluation of BIG systems Impacts" by selected project. — 4-HOU: 2 — (month 5: 1; month 6: 1)
- Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project
- Subtask 2.2.3. Workshop with stakeholders to review the designed plans
  - *In person 1 in Lleida and 1 in Barcelona*

Total: 5 / 0,3

WP3. Refurbishment and facilities installation

Task 3.1. Refurbishment of "failed-case" BIG projects
- Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects
- Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects
  - *20 days PCiTAL, 20 days Ronda, 10 Days El Prat*

Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects
- Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project
- Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects
  - *8 projectes x 10 dies x projecte x 2 persones*
- Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project
- Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project

Total: 0 / 0,0

WP4. Stakeholder capacity building

Task 4.1. Community Service Learning (CSL) organization
- Subtask 4.1.1. To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project
- Subtask 4.1.2.To select the candidates to participate in the CSL activities

Task 4.2. Awareness and training activities on Axis 1. Technical aspects
- Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects — 4-HOU: 20
- Subtask 4.2.2. Awareness sessions on Axis 1. Technical aspects — 4-HOU: 2
  - *Two seminars, 1 day, in Lleida and Barcelona*
- Subtask 4.2.3. Training course on Axis 1. Technical aspects — 4-HOU: 2
  - *Two trainings, 5 days, in Lleida and Barcelona*

Task 4.3. Training activities on Axis 2....Axis 3...Axis 4....
- Subtask 4.3.1. To design the educational material about Axis 2...Axis 3...Axis 4... — 4-HOU: 15
- Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... — 4-HOU: 2
  - *Two trainings, 5 days, in Lleida and Barcelona*

Total: 41 / 2,3

Work Package 5: Development, monitoring and evaluation

Task 5.1. Development of network monitoring and evaluation of impacts activities
- Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing, by selected BIG project (Manual/Smart)
  - Management, supervision and support to monitoring data acquisition and processing. 4 day/month — 4-HOU: 72 — (3 per month from month 7 to 35)
  - *Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits; 6 projects in Barcelona x24 visits = 144 visits*
- Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project
  - Management, supervision and support impact's evaluation — 4-HOU: 72 — (3 per month from month 7 to 35)
  - *visits included in 5.1.1*
- Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project — 4-HOU: 5 — (month 29: 1; 30: 1; 31: 1; 32: 2)
- Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts" — 4-HOU: 5 — (month 29: 1; 30: 1; 31: 1; 32: 2)
- Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life — 4-HOU: 5 — (month 33: 2; 34: 3)

Task 5.2. Development of networking maintenance activities
- Subtask 5.2.1. Management, supervision and support to maintenance activities, by selected BIG project — 4-HOU: 0
  - Management, supervision and support to maintenance activities following the defined network approach
  - *Visits included in 5.1.1*
- Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project
- Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems"
- Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance

Total: 159 / 8,9

Work Package 6: Sustainability, replication and exploitation

Task 6.1. International replication (Catalytic effect - spatial)
- Subtask 6.1.1. International replicability of BIG4LIFE — 4-HOU: 14 — (month 29: 3; 30: 3; 31: 2; 32: 2; 33: 2)
- Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE — 4-HOU: 5 — (month 33: 3; 34: 2)
  - *Virtual*

Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)
- Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations — 4-HOU: 5 — (month 33: 2; 34: 3)
- Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance) — 4-HOU: 10 — (months 29–36: 1,1,1,1,1,1,1,1)
- Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards — 4-HOU: 10 — (months 29–36: 1,1,1,1,1,1,1,2)

Task 6.3. Networking with existing NBS platforms — 4-HOU: 20 — (month 25: 3; 26: 3; 27: 3; 28: 3; 29: 4; 30: 4)

Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)
- Subtask 6.4.1. After BIG4LIFE Plan elaboration — 4-HOU: 10 — (month 25: 5; 26: 5)
- Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan — 4-HOU: 1 — (month 31: 1)
  - *Two workshop, 1 day, in Lleida and Barcelona*

Total: 75 / 4,2

Task 6.5. Exploitation and Replication Plan (new during Grant Agreement process)

Work Package 7: Dissemination and communication

T.7.1 Design and develop the Dissemination and Communication Plan, channels and tools
- Subtask 7.1.1 Internal-Consortium communication
- Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity
- Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels

T.7.2 Communication activities
- Subtask 7.2.1 Press communications and publications
- Subtask 7.2.2 Short film/video about BIG positive impacts
- Subtask 7.2.3 Newsletters
- Subtask 7.2.4 Layman's report
- Subtask 7.2.5 Awareness talks to the large public — 4-HOU: 4 — (month 7: 1; 20: 1; 33: 2)
  - *2 in-person in Lleida and Barcelona (Eixverd), and 1 on-line*
- Subtask 7.2.6 Dissemination materials

T.7.3 Dissemination activities
- Subtask 7.3.1 Seminars — 4-HOU: 5 — (month 7: 2; 30: 3)
  - *2 events First and Final, in Lleida x2 and in Barcelona x2*
- Subtask 7.3.2 Conferences — 4-HOU: 5 — (month 13: 2; 26: 3)
  - *4 Conferences x 2 people x registration + travelling*
- Subtask 7.3.3 Scientific publications — 4-HOU: 10 — (month 21: 2; 22: 3; 35: 2; 36: 3)
  - *4 publicacions open acces 2 UdL, 2CTFC*
- Subtask 7.3.4 BIG4LIFE international conference — 4-HOU: 5 — (month 18: 1; 22: 1; 28: 1; 35: 1; 36: 1)
  - *2 days International Forum on BIG systems in Barcelona*

T.7.4 Networking with related LIFE projects

Total: 29 / 1,6

Total days	339
Person month	18,9
	19

Other direct costs

Justification	Cost
Travel & subsistence	
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1. PCU establishment). Lleida. 1 person	1.100
Task 1.1. Technical, financial and administrative coordination. Project progress meeting (M12). Barcelona. 1 person	900
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. 1 person	1.100
Task 1.1. Technical, financial and administrative coordination. Project Final meeting (M36). Barcelona. 1 person	900
Subtask 7.3.2 Conferences. 1 international conferences. 2 People	2.200
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. 2 days. Attendance. 2 people	2.200
Other goods, works and services	
Subtask 7.3.2 Conferences. 1 international conferences. Registration. 2 People	1.000
Subtask 7.3.3 Scientific publications. 2 open acces	3.000
For dissemination materials creation and printing such as project informative small panels, leaflets, roll-ups, translated copies of the Layman's report, room booking and catering services related to events. All at WP6	2.784

BIG4LIFE

	23	24	25	26
	S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A
	5-TEB Verd	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27	28 29 30 31 32 33 34 35 36

Work Package 1: Management, Coordination and quality

Task 1.1. Technical, financial and administrative coordination
- To set up the Consortium Agreement
- Kick off meeting (PCU establishment) (M1) — 1 | *1*
  - *In-person meeting Lleida*
- Elaboration Project Management Plan (PMP)
- 2 project progress meetings (M12, M24) — 2 | *1 ... 1*
  - *In-person meeting Barcelona + In-person meeting Lleida*
- Final meeting (M36) — 1 | *1*
  - *In-person meeting Barcelona*
- Monthly PMT video conferences — 18 | 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5
  - *1/2 per reunió virtual, UdL, sencera que l'ha de preparar*
- To create a project virtual login-protected workspace

Task 1.2. Quality Control and Reporting
- Semester reports
- Update KPIs (M9, M36)
- Data Management Plan (DMP)
- Annual reports (visits) to project officer from EC
- Final Report of the Project — 22 / 1,2

WP2: Preparatory activities

Task 2.1. Selected BIG projects characterization
- Subtask 2.1.1. Stakeholder recognition, by selected BIG project — 8 | 2 2 4
- Subtask 2.1.2. Meeting with stakeholders, by selected BIG project — 8 | 2 2 4
  - *2 meetings in Lleida and 6 meeting in Barcelona*
- Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project — 1 | 1
- Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project
- Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization
- Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization — 1 | 1
  - *In person 1 in Lleida and 1 in Barcelona*

Task 2.2 Plans co-design by selected project
- Subtask 2.2.1 To draft the "Networking Plan for Monitoring and Evaluation of BIG systems Impacts" by selected project — 1 | 1
- Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project — 1 | 1
- Subtask 2.2.3. Workshop with stakeholders to review the designed plans — 1 | 1
  - *In person 1 in Lleida and 1 in Barcelona*
- 21 / 1,2

WP3. Refurbishment and facilities installation

Task 3.1. Refurbishment of "failed-case" BIG projects
- Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects — 5 | 3 2
- Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects — 12 | 2 5 5
  - *20 days PCiTAL, 20 days Ronda, 10 Days El Prat*

Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects
- Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project — 5 | 3 2
- Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects — 20 | 2 8 10
  - *8 projectes x 10 dies x projecte x 2 persones*
- Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project — 8 | 4 4
- Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project — 8 | 4 4
- 58 / 3,2

WP4. Stakeholder capacity building

Task 4.1. Community Service Learning (CSL) organization
- Subtask 4.1.1. To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project — 20 | 5 5 5 5
- Subtask 4.1.2 To select the candidates to participate in the CSL activities — 10 | 5 5

Task 4.2. Awareness and training activities on Axis 1. Technical aspects
- Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects — 30 | 10 10 10
- Subtask 4.2.2. Awareness sessions on Axis 1. Technical aspects — 3 | 3
  - *Two seminars, 1 day, in Lleida and Barcelona*
- Subtask 4.2.3. Training course on Axis 1. Technical aspects — 5 | 3 2
  - *Two trainings, 5 days, in Lleida and Barcelona*

Task 4.3. Training activities on Axis 2...Axis 3...Axis 4....
- Subtask 4.3.1. To design the educational material about Axis 2...Axis 3...Axis 4... — 30 | 10 10 10
- Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... — 5 | 2 3
  - *Two trainings, 5 days, in Lleida and Barcelona*
- 103 / 5,7

Work Package 5: Development, monitoring and evaluation

Task 5.1. Development of network monitoring and evaluation of impacts activities
- Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing, by selected BIG project (Manual/Smart) — 36 | 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2
  - *Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits; 6 projects in Barcelona x24 visits = 144 visits* — 24 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project — 36 | 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2
  - *visits included in 5.1.1*
- Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project — 5 | 1 1 1 2
- Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts" — 5 | 1 1 1 2
- Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life — 5 | 2 3

Task 5.2. Development of networking maintenance activities
- Subtask 5.2.1. Management, supervision and support to maintenance activities, by selected BIG project — 0
  - *Management, supervision and support to maintenance activities following the defined network approach* — 72 | 2 2 2 2 2 2 2 2 2 2 2 4 4 4 4 4 4 4 4 4 4 4
  - *Visits included in 5.1.1*
- Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project — 5 | 1 1 1 1 1
- Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems" — 20 | 5 5 5 5
- Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance — 5 | 1 1 1 1 1
- 213 / 11,9

Work Package 6: Sustainability, replication and exploitation

Task 6.1. International replication (Catalytic effect - spatial)
- Subtask 6.1.1. International replicability of BIG4LIFE
- Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE — 1 | 1
  - *Virtual*

Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)
- Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations — 5 | 2 3
- Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance) — 5 | 1 1 1 1 1
- Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards — 5 | 1 1 1 1 1

Task 6.3. Networking with existing NBS platforms — | 1 1 1 1 1

Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)
- Subtask 6.4.1. After BIG4LIFE Plan elaboration — 5 | 2 3
- Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan — 5 | 2 3
  - *Two workshop, 1 day, in Lleida and Barcelona*
- 26 / 1,5

Task 6.5. Exploitation and Replication Plan (new during Grant Agreement process)

Work Package 7: Dissemination and communication

T.7.1 Design and develop the Dissemination and Communication Plan, channels and tools
- Subtask 7.1.1 Internal-Consortium communication
- Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity
- Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels

T.7.2 Communication activities
- Subtask 7.2.1 Press communications and publications
- Subtask 7.2.2 Short film/video about BIG positive impacts
- Subtask 7.2.3 Newsletters
- Subtask 7.2.4 Layman's report
- Subtask 7.2.5 Awareness talks to the large public — 5 | 1 ... 1 ... 3
  - *2 in-person in Lleida and Barcelona (Eixverd), and 1 on-line*
- Subtask 7.2.6 Dissemination materials

T.7.3 Dissemination activities
- Subtask 7.3.1 Seminars — 5 | 2 ... 3
  - *2 events First and Final, in Lleida x2 and in Barcelona x2*
- Subtask 7.3.2 Conferences
  - *4 Conferences x 2 people x registration + travelling*
- Subtask 7.3.3 Scientific publications
  - *4 publicacions open acces 2 UdL, 2CTFC*
- Subtask 7.3.4 BIG4LIFE international conference — 5 | 1 ... 1 ... 1 ... 1 1
  - *2 days International Forum on BIG systems in Barcelona*

T.7.4 Networking with related LIFE projects — 15 / 0,8

Total days	458
Person month	25,6
	26

	23	24	25	26
	S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A
	1 2 3	4 5 6 7 8 9 10 11 12 13 14 15	16 17 18 19 20 21 22 23 24 25 26 27	28 29 30 31 32 33 34 35 36

Other direct costs

Justification	Cost
Travel & subsistence	
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1. PCU establishment). Lleida. 1 person	180
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. 2 people	180
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project. 2 meetings in LLeida. 2 people	360
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Lleida. 2 People	180
Subtask 2.2.3 Workshop with stakeholders to review the designed plans. Lleida. 2 people	180
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. 10 days. Lleida. 2 people	1.800
Subtask 4.2.3. Training course on Axis 1. Technical aspects. 1 day. Lleida. 2 people	180
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... 1 day. Lleida. 2 people	180
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing + Subtask 5.1.2... impact's evaluation + Subtask 5.2.1... maintenance activities. Lleida. 6 days. 2 people	1.080
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Lleida. 2 people	180
Subtask 7.2.5 Awareness talks to the large public. Lleida. 2 people	180
Subtask 7.3.1 Seminars. 2 seminars Initial and Final. Lleida. 2 people	360
Equipment (incl. infrastructure)	
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. Materials	
BIG1-PCiTAL. Materials, for semi-intensive green roof. 300 m2. Price: 110 €/m2 including materials, equipment and machinery (full cost)	33.000
Other goods, works and services	
Task 1.1. Technical, financial and administrative coordination. Project Final meeting (M36). Barcelona. Catering service, rental space, office material	300
Subtask 4.2.3. Training course on Axis 1. Technical aspects. Barcelona. Catering service, rental space, office material	300
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Barcelona. Catering service, rental space, office material	300

BIG4LIFE

	23			24											25											26							
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A

Work Package 1: Management, Coordination and quality

	6-Verdtical	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Task 1.1. Technical, financial and administrative coordination

- To set up the Consortium Agreement
- Kick off meeting (PCU establishment) (M1) — 1
  - *In-person meeting Lleida*
- Elaboration Project Management Plan (PMP)
- 2 project progress meetings (M12, M24) — 2
  - *In-person meeting Barcelona + In-person meeting Lleida*
- Final meeting (M36) — 1
  - *In-person meeting Barcelona*
- Monthly PMT video conferences — 18 — 0.5 each month
  - *1/2 per reunió virtual, UdL sencera que l'ha de preparar*
- To create a project virtual login-protected workspace

Task 1.2. Quality Control and Reporting

- Semester reports
- Update KPIs (M9, M36)
- Data Management Plan (DMP)
- Annual reports (visits) to project officer from EC
- Final Report of the Project — 22

1,2

WP2: Preparatory activities

Task 2.1. Selected BIG projects characterization

- Subtask 2.1.1. Stakeholder recognition, by selected BIG project — 8 — 2 2 4
- Subtask 2.1.2. Meeting with stakeholders, by selected BIG project — 8 — 2 2 4
  - *2 meetings in Lleida and 6 meeting in Barcelona*
- Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project — 1 — 1
- Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project
- Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization
- Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization — 2 — 1 1
  - *In person 1 in Lleida and 1 in Barcelona*

Task 2.2 Plans co-design by selected project

- Subtask 2.2.1 To draft the "Networking Plan for Monitoring and Evaluation of BIG systems Impacts" by selected project. — 1 — 1
- Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project — 1 — 1
- Subtask 2.2.3. Workshop with stakeholders to review the designed plans — 1 — 1
  - *In person 1 in Lleida and 1 in Barcelona*

22
1,2

WP3. Refurbishment and facilities installation

Task 3.1. Refurbishment of "failed-case" BIG projects

- Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects — 5 — 3 2
- Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects — 12 — 2 5 5
  - *20 days PCiTAL, 20 days Ronda, 10 Days El Prat*

Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects

- Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project — 5 — 3 2
- Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects — 80 — 20 20 20 20
  - *8 projectes x 10 dies x projecte x 2 persones*
- Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project — 8 — 4 4
- Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project — 8 — 4 4

118
6,6

WP4. Stakeholder capacity building

Task 4.1. Community Service Learning (CSL) organization

- Subtask 4.1.1. To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project
- Subtask 4.1.2 To select the candidates to participate in the CSL activities

Task 4.2. Awareness and training activities on Axis 1. Technical aspects

- Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects — 10 — 5 5
- Subtask 4.2.2. Awareness sessions on Axis 1. Technical aspects — 1 — 1
  - *Two seminars, 1 day, in Lleida and Barcelona*
- Subtask 4.2.3. Training course on Axis 1. Technical aspects — 2 — 1 1
  - *Two trainings, 5 days, in Lleida and Barcelona*

Task 4.3. Training activities on Axis 2...Axis 3...Axis 4...

- Subtask 4.3.1. To design the educational material about Axis 2...Axis 3...Axis 4... — 10 — 5 5
- Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... — 2 — 1 1
  - *Two trainings, 5 days, in Lleida and Barcelona*

25
1,4

Work Package 5: Development, monitoring and evaluation

Task 5.1. Development of network monitoring and evaluation of impacts activities

- Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing. by selected BIG project (Manual/Smart)
  - *Management, supervision and support to monitoring data acquisition and processing. 4 day/month* — 36 — 1's then 2's
  - *Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits; 6 projects in Barcelona x24 visits = 144 visits* — 24 — 1's
- Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project
  - *Management, supervision and support impact's evaluation* — 36 — 1's then 2's
  - *visits included in 5.1.1*
- Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project — 5 — 1 1 1 2
- Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts" — 5 — 1 1 1 2
- Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life — 5 — 2 3

Task 5.2. Development of networking maintenance activities

- Subtask 5.2.1. Management, supervision and support to maintenance activities, by selected BIG project — 0
  - *Management, supervision and support to maintenance activities following the defined network approach* — 72 — 2's then 4's
  - *Visits included in 5.1.1*
- Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project — 10 — 2 2 2 2
- Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems" — 5 — 1 1 1 1
- Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance — 5 — 1 1 1 1

203
11,3

Work Package 6: Sustainability, replication and exploitation

Task 6.1. International replication (Catalytic effect - spatial)

- Subtask 6.1.1. International replicability of BIG4LIFE
- Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE — 1 — 1
  - *Virtual*

Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)

- Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations — 5 — 2 3
- Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance) — 5 — 1 1 1 1 ... 1
- Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards — 5 — 1 1 1 1
- **Task 6.3. Networking with existing NBS platforms** — 20 — 2 3 2 3 5 5
- **Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)**
- Subtask 6.4.1. After BIG4LIFE Plan elaboration — 5 — 2 3
- Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan — 1 — 2 3
  - *Two workshop, 1 day, in Lleida and Barcelona*

42
2,3

Task 6.5. Exploitation and Replication Plan (new during Grant Agreement process)

Work Package 7: Dissemination and communication

T.7.1 Design and develop the Dissemination and Communication Plan, channels and tools

- Subtask 7.1.1 Internal-Consortium communication
- Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity
- Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels

T.7.2 Communication activities

- Subtask 7.2.1 Press communications and publications
- Subtask 7.2.2 Short film/video about BIG positive impacts
- Subtask 7.2.3 Newsletters
- Subtask 7.2.4 Layman's report
- Subtask 7.2.5 Awareness talks to the large public — 5 — 1 ... 1 ... 3
  - *2 in-person in Lleida and Barcelona (Eixverd), and 1 on-line*
- Subtask 7.2.6 Dissemination materials

T.7.3 Disemination activities

- Subtask 7.3.1 Seminars — 5 — 2 ... 3
  - *2 events First and Final, in Lleida x2 and in Barcelona x2*
- Subtask 7.3.2 Conferences
  - *4 Conferences x 2 people x registration + travelling*
- Subtask 7.3.3 Scientific publications
  - *4 publicacions open acces 2 UdL, 2CTFC*
- Subtask 7.3.4 BIG4LIFE international conference — 5 — 1 ... 1 ... 1 ... 1 1
  - *2 days International Forum on BIG systems in Barcelona*

T.7.4 Networking with related LIFE projects

15
0,8

Total days	447
Person month	24,9
	25

	23			24											25											26							
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A

Other direct costs

Justification	Cost
Travel & subsistence	
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1. PCU establishment). Lleida. 1 person	180
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. 2 people	180
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project. 2 meetings in LLeida. 2 people	360
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Lleida. 2 People	180
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Lleida. 2 people	180
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. 10 days. Lleida. 2 people	1.800
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects. 20 days. Lleida. 2 people	3.600
Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project. 2 days. Lleida. 2 people	360
Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project. 2 days. Lleida. 2 people	360
Subtask 4.2.3. Training course on Axis 1. Technical aspects. 1 day. Lleida. 1 people	90
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... 1 day. Lleida. 1 people	90
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing + Subtask 5.1.2 ... impact's evaluation + Subtask 5.2.1. ... maintenance activities. Lleida. 6 days. 2 people	1.080
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Lleida. 2 people	180
Subtask 7.2.5 Awareness talks to the large public. Lleida. 2 people	180
Subtask 7.3.1 Seminars. 2 seminars Initial and Final. Lleida. 2 people	360
Equipment (incl. infrastructure)	
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. Materials	
BIG1-PCiTAL. Materials, for semi-intensive green roof. 300 m2. Price: 110 €/m2 including materials, equipment and machinery (full cost)	33.000
Other goods, works and services	
Task 1.1. Technical, financial and administrative coordination. Project progress meeting (M12). Barcelona. Catering service, rental space, office material	300
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Lleida. Catering service, rental space, office material	300
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... 1 day. Barcelona. Catering service, rental space, office material	300

BIG4LIFE

Work Package 1: Management, Coordination and quality

Task	7-Sempergreen
Task 1.1. Technical, financial and administrative coordination	
To set up the Consortium Agreement	
Kick off meeting (PCU establishment) (M1)	1
In-person meeting Lleida	
Elaboration Project Management Plan (PMP)	
2 project progress meetings (M12, M24)	2
In-person meeting Barcelona + In-person meeting Lleida	
Final meeting (M36)	1
In-person meeting Barcelona	
Monthly PMT video conferences	18
1/2 per reunió virtual, UdL, sencera que l'ha de preparar	
To create a project virtual login-protected workspace	
Task 1.2. Quality Control and Reporting	
Semester reports	
Update KPIs (M9, M36)	
Data Management Plan (DMP)	
Annual reports (visits) to project officer from EC	
Final Report of the Project	
	22
	1,2

WP2: Preparatory activities

Task	7-Sempergreen
Task 2.1. Selected BIG projects characterization	
Subtask 2.1.1. Stakeholder recognition, by selected BIG project	8
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project	8
2 meetings in Lleida and 6 meeting in Barcelona	
Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project	2
Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project	
Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization	10
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization	2
In person 1 in Lleida and 1 in Barcelona	
Task 2.2 Plans co-design by selected project	
Subtask 2.2.1. To draft the "Networking Plan for Monitoring and Evaluation of BIG systems Impacts" by selected project.	1
Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project	10
Subtask 2.2.3. Workshop with stakeholders to review the designed plans	1
In person 1 in Lleida and 1 in Barcelona	
	42
	2,3

WP3. Refurbishment and facilities installation

Task	7-Sempergreen
Task 3.1. Refurbishment of "failed-case" BIG projects	
Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects	5
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects	15
20 days PCiTAL, 20 days Ronda, 10 Days El Prat	
Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects	
Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project	5
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects	20
8 projects x 10 dies x projecte x 2 persones	
Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project	8
Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project	8
	61
	3,4

WP4. Stakeholder capacity building

Task	7-Sempergreen
Task 4.1. Community Service Learning (CSL) organization	
Subtask 4.1.1. To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project	
Subtask 4.1.2.To select the candidates to participate in the CSL activities	
Task 4.2. Awareness and training activities on Axis 1. Technical aspects	
Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects	10
Subtask 4.2.2. Awareness sessions on Axis 1. Technical aspects	1
Two seminars, 1 day, in Lleida and Barcelona	
Subtask 4.2.3. Training course on Axis 1. Technical aspects	2
Two trainings, 5 days, in Lleida and Barcelona	
Task 4.3. Training activities on Axis 2...Axis 3...Axis 4...	
Subtask 4.3.1. To design the educational material about Axis 2 ...Axis 3 ...Axis 4...	10
Subtask 4.3.2. Training course on Axis 2...Axis 3... Axis 4... 1 day, Barcelona.	2
Two trainings, 5 days, in Lleida and Barcelona	
	25
	1,4

Work Package 5: Development, monitoring and evaluation

Task	7-Sempergreen
Task 5.1. Development of network monitoring and evaluation of impacts activities	
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing. by selected BIG project (Manual/Smart)	
Management, supervision and support to monitoring data acquisition and processing. 4 day/month	36
Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits; 6 projects in Barcelona x24 visits = 144 visits	24
Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project	
Management, supervision and support impact's evaluation	36
visits included in 5.1.1	
Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project	5
Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts"	5
Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life	5
Task 5.2. Development of networking maintenance activities	
Subtask 5.2.1. Management, supervision and support to maintenance activities, by selected BIG project	0
Management, supervision and support to maintenance activities following the defined network approach	72
Visits included in 5.1.1	
Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project	5
Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems"	5
Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance	10
	203
	11,3

Work Package 6: Sustainability, replication and exploitation

Task	7-Sempergreen
Task 6.1. International replication (Catalytic effect - spatial)	
Subtask 6.1.1. International replicability of BIG4LIFE	
Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE	1
Virtual	
Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)	
Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations	1
Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance	10
Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards	5
Task 6.3. Networking with existing NBS platforms	5
Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)	
Subtask 6.4.1. After BIG4LIFE Plan elaboration	5
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan	1
Two workshop, 1 day, in Lleida and Barcelona	
	28
	1,6
Task 6.5. Exploitation and Replication Plan (new during Grant Agreement process)	

Work Package 7: Dissemination and communication

Task	7-Sempergreen
T.7.1 Design and develop the Disemination and Communication Plan, channels and tools	
Subtask 7.1.1 Internal-Consortium communication	
Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity	
Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels	
T.7.2 Communication activities	
Subtask 7.2.1 Press communications and publications	
Subtask 7.2.2 Short film/video about BIG positive impacts	
Subtask 7.2.3 Newsletters	
Subtask 7.2.4 Layman's report	
Subtask 7.2.5 Awareness talks to the large public	5
2 in-person in Lleida and Barcelona (Eixverd), and 1 on-line	
Subtask 7.2.6 Dissemination materials	
T.7.3 Disemination activities	
Subtask 7.3.1 Seminars	5
2 events First and Final, in Lleida x2 and in Barcelona x2	
Subtask 7.3.2 Conferences	
4 Conferences x 2 people x registration + travelling	
Subtask 7.3.3 Scientific publications	
4 publicacions open acces 2 UdL, 2CTFC	
Subtask 7.3.4 BIG4LIFE international conference	5
2 days International Forum on BIG systems in Barcelona	
T.7.4 Networking with related LIFE projects	
	15
	0,8
Total days	396
Person month	22,1
	22

Other direct costs

Justification	Cost
Travel & subsistence	
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1, PCU establishment). LLeida. 1 person	90
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1, PCU establishment). Lleida. 1 person	1.100
Task 1.1. Technical, financial and administrative coordination. Project progress meeting (M12). Barcelona. 1 person	90
Task 1.1. Technical, financial and administrative coordination. Project progress meeting (M12). Barcelona. 1 person	1.100
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. 1 person	90
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. 1 person	1.100
Task 1.1. Technical, financial and administrative coordination. Project Final meeting (M36). Barcelona. 1 person	90
Task 1.1. Technical, financial and administrative coordination. Project Final meeting (M36). Barcelona. 1 person	1.100
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project. 2 meetings in Lleida. 1 person	180
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project. 6 meetings in Barcelona. 1 person	540
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Lleida. 1 person	90
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Lleida. 1 person	90
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Barcelona. 1 person	90
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. 5 days. Barcelona. 2 people	900
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. 10 days. Barcelona. 2 people	1.800
Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects. 10 days. Barcelona. 2 people	1.800
Subtask 3.2.3. To test the implemented smart monitoring facilities and to organize the manual monitoring and maintenance procedures by selected BIG project. 2 days. Barcelona. 1 person	180
Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project. 2 days. Barcelona. 2 people	360
Subtask 4.2.3. Training course on Axis 1. Technical aspects. 1 day. Lleida. 1 person	90
Subtask 4.2.3. Training course on Axis 1. Technical aspects. 1 day. Barcelona. 1 person	90
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... 1 day. Lleida. 1 person	90
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... 1 day. Barcelona. 1 person	90
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing + Subtask 5.1.2 ... impact's evaluation + Subtask 5.2.1 ... maintenance activities. Lleida. 6 days. 2 people	1.080
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Lleida. 1 person	90
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Barcelona. 1 person	90
Subtask 7.2.5 Awareness talks to the large public. Lleida. 1 person	90
Subtask 7.2.5 Awareness talks to the large public. Barcelona. 1 person	90
Subtask 7.3.1 Seminars. 2 seminars Initial and Final. Lleida. 1 person	180
Subtask 7.3.1 Seminars. 2 seminars Initial and Final. Barcelona. 1 person	180
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. 2 days. Attendance. 1 person	90
Subtask 7.3.4 BIG4LIFE international conference. Barcelona. 2 days. Attendance. 1 person	1.100
Equipment (incl. infrastructure)	
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. Materials	
BIG7-Auditori l'Artesa. Extensive green roof. 250 m2. Price: 85 €/m2 including materials, equipment and machinery (full cost)	21.250

BIG4LIFE

	23			24										25												26										
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A

Work Package 1: Management, Coordination and quality — 8-Eixverd — columns 1–36

Task 1.1. Technical, financial and administrative coordination
- To set up the Consortium Agreement
- Kick off meeting (PCU establishment) (M1) — 1 — (month 2: 1)
  - *In-person meeting Lleida*
- Elaboration Project Management Plan (PMP)
- 2 project progress meetings (M12, M24) — 2 — (month 12: 1; month 24: 1)
  - *In-person meeting Barcelona + In-person meeting Lleida*
- Final meeting (M36) — 1 — (month 36: 1)
  - *In-person meeting Barcelona*
- Monthly PMT video conferences — .18 — 0.5 each month (all 36)
  - *1/2 per reunió virtual, UdL, sencera que l'ha de preparar*
- To create a project virtual login-protected workspace

Task 1.2. Quality Control and Reporting
- Semester reports
- Update KPIs (M9, M36)
- Data Management Plan (DMP)
- Annual reports (visits) to project officer from EC
- Final Report of the Project

22
1,2

WP2: Preparatory activities — 8-Eixverd

Task 2.1. Selected BIG projects characterization
- Subtask 2.1.1. Stakeholder recognition, by selected BIG project — 8 — (2 2 2)
- Subtask 2.1.2. Meeting with stakeholders, by selected BIG project — 8 — (2 2 2)
  - *2 meetings in Lleida and 6 meeting in Barcelona*
- Subtask 2.1.3. Ecosystem services provided recognition, by selected BIG project — 1
- Subtask 2.1.4. To review the current "monitoring and evaluation of impacts" procedures and activities by selected BIG project
- Subtask 2.1.5. To make a critical analysis summary report about the selected BIG projects characterization
- Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization — 1
  - *In person 1 in Lleida and 1 in Barcelona*

Task 2.2 Plans co-design by selected project
- Subtask 2.2.1. To draft the "Networking Plan for Monitoring and Evaluation of BIG systems Impacts" by selected project. — 1
- Subtask 2.2.2. To draft the "Networking Maintenance Plan for BIG systems" by selected BIG project — 1
- Subtask 2.2.3. Workshop with stakeholders to review the designed plans — 5 — (1 2 2)
  - *In person 1 in Lleida and 1 in Barcelona*

25
1,4

WP3: Refurbishment and facilities installation — 8-Eixverd

Task 3.1. Refurbishment of "failed-case" BIG projects
- Subtask 3.1.1 To draft and co-design the refurbishment activities to be applied on the selected "failed-case" BIG projects — 10 — (5 5)
- Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects — 50 — (10 20 20)
  - *20 days PCiTAL, 20 days Ronda, 10 Days El Prat*

Task 3.2. Smart monitoring and maintenance facilities installation in the selected BIG projects
- Subtask 3.2.1. To draft and co-design the smart monitoring and maintenance facilities by selected BIG project — 10 — (3 2)
- Subtask 3.2.2. Installation of the smart monitoring and maintenance facilities in the selected BIG projects — 20 — (2 8 10)
  - *8 projectes x 10 dies x projecte x 2 persones*
- Subtask 3.2.3. To test the implemented smart monitoring and maintenance procedures by selected BIG project — 8 — (4 4)
- Subtask 3.2.4. To check and confirm the baseline values by ecosystem service/KPIs on each specific BIG project — 8 — (4 4)

106
5,9

WP4. Stakeholder capacity building — 8-Eixverd

Task 4.1. Community Service Learning (CSL) organization
- Subtask 4.1.1. To define and quantify the activities (maintenance and monitoring) to be included in CSL, by selected BIG project
- Subtask 4.1.2 To select the candidates to participate in the CSL activities

Task 4.2. Awareness and training activities on Axis 1. Technical aspects
- Subtask 4.2.1. To design the educational material about Axis 1. Technical aspects — 10 — (5 5)
- Subtask 4.2.2. Awareness sessions on Axis 1. Technical aspects — 1
  - *Two seminars, 1 day, in Lleida and Barcelona*
- Subtask 4.2.3. Training course on Axis 1. Technical aspects — 2 — (1 1)
  - *Two trainings, 5 days, in Lleida and Barcelona*

Task 4.3. Training activities on Axis 2...Axis 3...Axis 4....
- Subtask 4.3.1. To design the educational material about Axis 2...Axis 3...Axis 4... — 10 — (5 5)
- Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... — 2 — (1 1)
  - *Two trainings, 5 days, in Lleida and Barcelona*

25
1,4

Work Package 5: Development, monitoring and evaluation — 8-Eixverd

Task 5.1. Development of network monitoring and evaluation of impacts activities
- Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing. by selected BIG project (Manual/Smart) — 36 — (1 1 1 ... 2 2 2 ...)
  - *Management, supervision and support to monitoring data acquisition and processing. 4 day/month* — 24
  - *Monthly BIG selected projects site visits: 2 projects in Lleida x 24 visits = 48 visits, 6 projects in Barcelona x24 visits = 144 visits*
- Subtask 5.1.2 Management, supervision and support impact's evaluation, by selected BIG project — 36
  - *Management, supervision and support impact's evaluation* — 36
  - *visits included in 5.1.1*
- Subtask 5.1.3. To conduct the cost-benefit analysis of BIG systems by selected BIG project — 5 — (1 1 1 2)
- Subtask 5.1.4. To draft the final framework "Network Plan for Monitoring and Evaluation of BIG systems Impacts" — 5 — (1 1 1 2)
- Subtask 5.1.5. To draft a Guideline for Cost-benefit analysis of BIG systems service life — 5 — (2 3)

Task 5.2. Development of networking maintenance activities
- Subtask 5.2.1. Management, supervision and support to maintenance activities, by selected BIG project — 0
  - *Management, supervision and support to maintenance activities following the defined network approach* — 72 — (2 2 2 2 ... 4 4 4 ...)
  - *Visits included in 5.1.1*
- Subtask 5.2.2. To review and assess the "Network Maintenance Plan of BIG systems" procedures by selected BIG project — 5 — (1 1 1 1)
- Subtask 5.2.3. To draft the final framework "Network Maintenance Plan for BIG systems" — 5 — (1 1 1 1)
- Subtask 5.2.4. To draft a Professional guide of best practices for BIG systems maintenance — 10 — (2 2 2 2)

203
11,3

Work Package 6: Sustainability, replication and exploitation — 8-Eixverd

Task 6.1. International replication (Catalytic effect - spatial)
- Subtask 6.1.1. International replicability of BIG4LIFE
- Subtask 6.1.2. Workshop with the international partners about international replicability of BIB4LIFE — 1
  - *Virtual*

Task 6.2. Integration of Networking Plans into regulations and technical standards (Catalytic effect - societal)
- Subtask 6.2.1. Integration of the framework Plans in Municipal Regulations — 5 — (2 3)
- Subtask 6.2.2. Design and draft a municipal incentive linked to the operational phase of BIG systems (compensation for maintenance) — 5 — (1 1 1 1)
- Subtask 6.2.3. Study about the possibilities for the designed plans integration in National Standards — 5 — (1 1 1 1)

Task 6.3. Networking with existing NBS platforms

Task 6.4. After BIG4LIFE Plan (Catalytic effect - temporal)
- Subtask 6.4.1. After BIG4LIFE Plan elaboration — 5 — (2 3)
- Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan — 1
  - *Two workshop, 1 day, in Lleida and Barcelona*

22
1,2

Task 6.5. Exploitation and Replication Plan (new during Grant Agreement process)

Work Package 7: Dissemination and communication — 8-Eixverd

T.7.1 Design and develop the Dissemination and Communication Plan, channels and tools
- Subtask 7.1.1 Internal-Consortium communication
- Subtask 7.1.2 Dissemination and Communication Plan and Visual Identity
- Subtask 7.1.3 Communication channels and tools. Project website and Social Media Chanels

T.7.2 Communication activities
- Subtask 7.2.1 Press communications and publications
- Subtask 7.2.2 Short film/video about BIG positive impacts
- Subtask 7.2.3 Newsletters
- Subtask 7.2.4 Layman's report
- Subtask 7.2.5 Awareness talks to the large public — 5 — (1 ... 1 ... 3)
- Subtask 7.2.6 Dissemination materials

T.7.3 Disemination activities
- Subtask 7.3.1 Seminars — 5 — (2 ... 3)
  - *2 events First and Final, in Lleida x2 and in Barcelona x2*
- Subtask 7.3.2 Conferences
  - *4 Conferences x 2 people x registration + travelling*
- Subtask 7.3.3 Scientific publications
  - *4 publicacions open acces 2 UdL, 2CTFC*
- Subtask 7.3.4 BIG4LIFE international conference — 5 — (1 ... 1 ... 1 ... 1 1)
  - *2 days International Forum on BIG systems in Barcelona*

T.7.4 Networking with related LIFE projects

15
0,8

	8-Eixverd
Total days	418
Person month	23,3
	23

	23			24										25												26										
	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A

Other direct costs

Justification	Cost
Travel & subsistence	
Task 1.1. Technical, financial and administrative coordination. Project Kick off meeting (M1. PCU establishment). Lleida. 2 people	180
Task 1.1. Technical, financial and administrative coordination. Project Progress meeting (M24). Lleida. 2 people	180
Subtask 2.1.2. Meeting with stakeholders, by selected BIG project. 2 meetings in LLeida. 2 people	180
Subtask 2.1.6. Workshop with stakeholders to share and review the selected BIG projects characterization. Lleida. 2 people	180
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Lleida. 2 people	180
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. 20 days. Lleida. 2 people	1.800
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. 40 days. Lleida. 2 people	7.200
Subtask 4.2.3. Training course on Axis 1. Technical aspects. 1 day. Lleida. 1 people	90
Subtask 4.3.2. Training course on Axis 2...Axis 3...Axis 4... 1 day. Lleida. 1 people	90
Subtask 5.1.1. Management, supervision and support to monitoring data acquisition and processing + Subtask 5.1.2 ... impact's evaluation + Subtask 5.2.1. ... maintenance activities. Lleida. 6 days. 2 people	1.080
Subtask 6.4.2. Workshop with involved stakeholders to review the proposed After BIG4LIFE plan. Lleida. 2 people	180
Subtask 7.2.5 Awareness talks to the large public. Lleida. 2 people	180
Subtask 7.3.1 Seminars. 2 seminars Initial and Final. Lleida. 2 people	360
Equipment (incl. infrastructure)	
Subtask 3.1.2 Execution of refurbishment works in the selected "failed-case" BIG projects. Materials	
BIG2-Ronda La Merce. Extensive green roof. 572 m2. Price: 85 €/m2 including materials, equipment and machinery (full cost)	48.620
Other goods, works and services	
Subtask 2.2.3. Workshop with stakeholders to review the designed plans. Barcelona	300
Subtask 7.2.5 Awareness talks to the large public. Barcelona. Catering service, rental space, office material	500