



BeePathNet

Amarante Urban Beekeeping Plan



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INTRODUCTION

The purpose of the Urban Beekeeping Plan

Over the past years, BeePathNet has been a collaborative effort to transfer the BEEPATH good practice from its origin in Ljubljana (SLO) to 5 European cities: Cesena (IT), Bydgoszcz (PL) Amarante (PT), XII. District of Budapest (HU) and Nea Proponitida (EL). In close cooperation with Ljubljana and the other partners, each city has adapted the modules of this practice in order to implement them in their local context.

As this European cooperation network approaches its end, the time has come to make plans for the continuation and further development of the legacy of BeePathNet at local level. Each city will develop an Urban Beekeeping Plan which describes how each city plans to maintain this legacy and how it intends to further build on it in the years following the end of the project.

This guidance document presents our plan, with the description of the concrete actions we intend to achieve, in cooperation with local stakeholders, and how these actions will be implemented.

STRUCTURE OF THE URBAN BEEKEEPING PLAN

1. Starting Point

1.1 DESCRIPTION OF THE STATE OF PLAY

The URBACT program is an European Territorial Cooperation program with the objective of promoting integrated and sustainable urban development in European cities. It is an instrument of cohesion policy, co-financed by the European Regional Development Fund.

URBACT's mission is to enable cities to work together and develop integrated solutions to common urban challenges through networks, learning from each other's experiences, drawing lessons and identifying best practices to improve their urban policies.

The Urbact program, in its various projects, also challenges cities to develop new ideas to promote sustainable development. In that sense Amarante, due to its history and traditions, felt challenged to get involved in the urban beekeeping project and embraced BeePathNet.



The Municipality team, challenged the local action group (ULG) and together we assessed the real situation of beekeeping in Amarante and started building a vision for the future. In this perspective, objectives and actions were defined based on the models transmitted by the leading city, namely: urban environmental challenges, biodiversity and food self-sufficiency

linked to urban beekeeping with integrated and participatory approaches and the development of a critical mass to influence environmental policies, development and implementing efficient solutions to create more sustainable and environmentally friendly cities.

The BeePathNet network brought Amarante the opportunity to develop ways to support beekeeping and the entire economy around bee products, as well as the opportunity to

raise the awareness of the whole community to the importance of bees and their products, working respect for nature.

Over these 2 years of learning and growth, BeePathNet in Amarante has developed a set of activities, in synergy with the ULG, and the Municipality of Amarante, Amarante became a more bee-friendly city.



In terms of Education, developing awareness is extremely important for the project, a set of educational activities were developed for a younger audience. Pedagogic sessions were held for pre-school students, 1st grade students and 2nd grade students, as well as students with special educational needs. The pedagogical session “Bees do not hurt, they make honey” was an example of this and served to publicize the importance of bees for the maintenance of Nature, in schools in the municipality. In addition, in 2019 the discipline of Beekeeping at the Senior University of Amarante was included.

Also with the intention of developing awareness, throughout the project, a series of campaigns were carried out, online and in person, to raise the awareness of the whole community about the importance of pollinators as well as the versatility of bee products. Online seminars were held regarding the economic dimension of beekeeping and synergies and joint classes were promoted between Portugal and Greece, as well as the World Bee Day was also celebrated. On Christmas 2020, a campaign about the importance of sustainability and being friendly to bees, was done by disseminating autochthonous melliferous plant seeds to the entire population in the Agrifood Market in city center.



Regarding new products, and as a good practice in Amarante, we introduced Dolmen. Dolmen is an entity at the service of Local Development, whose mission is to promote the development of the region in an integrated perspective, valuing its natural, cultural and human endogenous resources, based on the preservation of knowledge, flavors and values. Dolmen is a good example of support for local products / producers, it supports applications in the territory to improve endogenous resources, it has a physical store and online store. These are some of the good practices, considered by the city leader to be replicated by partner cities of the project.



In terms of tourism, this project made it possible to embrace several initiatives together with tourism companies in Amarante. The BeePathNet route was designed and created, it is now available in the city's interactive tourism store and it will be possible to download on smartphone. BeePathNet also generated collaboration, it led to the development of new tourist activities with local companies.

The common vision for this project allowed Amarante to become a beekeeping city and set a serie of initiatives carried out over the 2 years of the project that has now made it possible to dream and want to put Amarante on the map of beekeeping in Portugal.

1.2 OUR DREAM FOR BEEKEEPING

This project offered us a participatory and collaborative approach with local stakeholders, that allowed us to think strategically about the development of beekeeping in Amarante, planning a set of innovative actions that positively transformed the city, reinforcing it as a sustainable, healthy space and dynamic urban center.

The BeePathNet project created roots and created bridges that will remain in time, which are key to the development of this plan. Since our first meetings, the commitment and motivation of all participants, whether beekeepers, producers, researchers or educators, has generated ideas and themes to debate that leading to execute all, the project would have to extend well beyond the application time, namely regarding the focus of education, tourism and new products. Thus, this plan, valid for 5 years, proved to be crucial for the continuity of BeePathNet and the partnership with all involved.

The plan is ambitious, yet realistic and it addresses key themes already under development and mentioned above, it aims to make Amarante an even more bee friendly city and environment friendly. The common vision for the project allowed Amarante to become an beekeeping city, where bees thrive because people take care of them and the environment, where honey and other bee products are used by everyone, where tourists discover the beauty of beekeeping in Amarante and where beekeepers grow and develop.

This plan was developed by the Municipality of Amarante with the collaboration of all local actors involved in BeePathNet (ULG).

1.3 CHALLENGES AND OPPORTUNITIES FOR URBAN BEEKEEPING IN AMARANTE

At the present time we are experiencing a period of intense urbanization and with the growth of the economy, European cities are increasing pollution, losing natural resources and decreasing biodiversity, while their citizens are losing quality of life and active contact with nature. In addition, the massive use of pesticides and insecticides has drastically reduced the number of bees and other wild pollinators. On the other hand, awareness of the importance of locally produced and ecologically grown food is growing. People are increasingly following "healthy living principles" and actively looking for better living

conditions. More and more people in urban centers grow their own food on balconies, gardens or roofs. Amarante, with the set of good practices that this project allowed to integrate and develop in the territory, enriched the city by making it greener. There were several initiatives that took place over the course of this two year project, which enabled this beekeeping plan to be implemented for Amarante. Throughout our journey in the project, we faced situations and circumstances that made us consider future opportunities and strengths, as well as we found weaknesses that could condition our vision.

Right now we have a cohesive and diverse local action group with beekeepers, tourist companies, bee products companies, schools, people related to the theme. Our main challenge for the coming years, will be to keep this group cohesive, alive and dynamic. We see this circumstance of keeping our ULG together as a future opportunity, but also as a weakness, that we want to work with in the long term.

In addition, other challenges (and strengths of Amarante) will be, to keep together, a well-structured beekeeping association, that has existed in Amarante for several years, maintaining beekeeping as a practice that integrates the life of the people from Amarante, present in their daily life in various aspects such as: selling of bee products in the Municipal Agro-food Market; collaboration in the development of sustainable tourism activities related to beekeeping and its products; local companies in the promotion of bee products, encouraging cultivation and promoting the history of beekeeping in Amarante, with rehabilitation of silhas; completion of new projects with application development Colmeia do Marão, center of honey and routes of honey. The beekeeping tradition in Amarante is deeply rooted and it is this added value will be guaranteed.

Another strength of our project is our internal team that performs functions in the project. It is diversified, strong, committed and it's work capacity. Despite many times overwhelmed with work for various tasks to succeed in the various functions of the municipality, always focused on BeePathNet.

In Amarante, due to the favorable adaphoclimatic conditions, we have a favorable territory for the appearance of some losses to the accomplishment of several activities, namely the Asian wasp and forest fires (causing severe losses to beekeepers). Portuguese legislation regarding the legal regime of beekeeping also creates some constraints on beekeeping.

For a better understanding of the panorama of beekeeping in Amarante we present a swot analysis.

The logic of good practices is very simple - bees are the best indicator of a healthy environment and they live and thrive in Amarante.



1.4 OBJECTIVES

The AmaranteBeekeeping Plan is based on four central objectives:

- To create the "Colmeia do Marão" (Honey Interpretive Center) as a reference center for beekeeping in our municipality and thereby position Amarante as a destination for beekeeping tourism;
- Create educational programs to raise awareness of the theme of the environment and the preservation of biodiversity, for young people (school age) and older people (in situation of retirement) and implement awareness actions for the whole community;
- Disseminate tools to support beekeeping and beekeepers in the territory to boost consumption of bee products (registration of apiaries, host honey fairs, promote bee products in the AgriFood Market, and introduce other useful information for beekeepers and all community).

- Promote and enrich beekeeping tourism (creation and dissemination of activities, namely, experiences of tour operators in Nature and “Termas de Amarante”, honey routes and participation in fairs and events for the dissemination of endogenous products, including honey.)

2 How we are going to do this?

2.1 OVERVIEW OF PLANNED KEY ACTIONS

The project's overview is based on general objectives highlighted in our previous point. In order to implement this plan, it is essential to encourage the local action group to develop and continue mutual collaboration, dedication and commitment in the coming years.

In the various activities to be developed, the stakeholders will be a key element for the implementation of various activities, as they will be the promoters of various activities, in their different areas of intervention.

Therefore, we propose in this plan to be a facilitator for the continuity of ULG's collaboration. To this end, we intend to hold an annual meeting with ULG members. In addition, at the end of each year, an e-mail will be sent to all partners with feedback on activities and events that will take place the following year by each stakeholder. On a quarterly basis, the activities of stakeholders will be monitored and the Municipality will disclose initiatives to the community. Simultaneously, and as a result of previously developed work, there are several thematic groups, parallel to the ULG, which we want to continue to collaborate and accompany, namely the Beekeepers Association and the Group to combat *Vespa velutina* (wasp).

Another objective will be the implementation of “Colmeia do Marão” with the rehabilitation of an old primary school in Serra do Marão, transforming it in to a reference center of the history of beekeeping in our municipality (interpretive center of honey). This space will be equipped to allow visits and communication / training actions on honey and beekeeping activities. The objectives of the intervention is to recover a built heritage, with cultural and historical relevance for the Serra do Marão, which also allows to encourage - the practice of a sustainable activity in economic and environmental terms - beekeeping, by promoting an historic activity, creating an attractive place from the point of view of visitation and tourism.

This center will make it possible to place beekeeping on the tourist map of the city, offering all those who visit it an experience of beekeeping in nature with the integration of several pedestrian routes that will leave or culminate in this center of honey. Making "beekeeping" a tourist product will be another way. It is intended to create tourist routes with organized visits to apiaries, to Colmeia do Marão, among other sustainable tourist activities linked to the beekeeping world.

Two important tasks that we want embrace is the creation of educational programs to raise awareness to the theme of the environment and the preservation of biodiversity, integrated in our Municipality's social network / education axis and implement awareness actions for the entire community.

The environmental awareness will also include the celebration of ephemeris, namely World Bee Day and Day of Biodiversity and others days related to the environment.

Disseminating tools to support beekeeping and beekeepers in the territory is another objective. Beekeepers will be the main responsible for the success of this project and in this way we intend to collaborate with them in the creation of useful tools for them, namely, apiary registration, creation of honey fairs and promotion of bee products in our AgroAlimentar Market. Collaborating with the creation of a tool that allows registering their apiaries can be an asset for beekeepers, since it is in the forest spaces where their apiaries are, and it is the flora that enriches our mountains that the bees become feed. The geo-referenced apiaries will make it possible to understand which are the best places for placing new apiaries, in compliance with Decree-Law 203/2005 of 25 November, which includes the legal regime for beekeeping. Simultaneously, we intend to create a webpage dedicated to beekeeping with importante information and events for beekeepers and all community, are our intentions of achievement in this long-term plan.

2.2 WHO IS SITTING AROUND OUR TABLE?

The BeePathNet local action group was based on included several areas, namely companies of bee products, tourist companies, beekeepers, educational establishments, research laboratories that allowed the exchange of knowledge and experiences, enriching the project. However, the nucleus of the local action group is based in the Municipality and the team that constitutes it.

Led by the Municipality, everyone involved has allowed this plan to become operational. However, the group is not closed. In the last year, the project had the participation of new and dynamic stakeholders that brought creativity and enriched the project.

The entities that make up the local action group are:

Entity	Description	Representative
CMA – Municipality of Amarante	City authority	Adão Ribeiro Aida Guerra Ana Dias Ana Lírio André Magalhães Dalila Ribeiro Julieta Oliveira Lúcia Andrade Lucinda Fonseca Luís Almeida Mafalda Alves Patrícia Pereira Sónia Files Tiago Ferreira Municipality Executives
AEA – Amarante Business Association	Businessmen association	Bruno Costa Ana Luísa Oliveira
Amarante School Community	Education	Dina Sanches Graça Pinheiro
AMBT - Association of Municipalities of Baixo Tâmega	Intermunicipal development association	Ricardo Magalhães
CIM – Intermunicipality Community of Tâmega and Sousa	Intermunicipal development entity	Ester Silva
Dolmen	Local development association	Elsa Pinheiro Celso Monteiro Diogo Pereira Carina Cardoso
Espaço Visual	Professional formation	Cláudia Cunha Dina Santos
IET - Tâmega Business Institute	Business Incubator	Vera Silva
Individual Members	Beekeepers	Alexandre Morais Avelino Ribeiro João Pedro Pinto Luciano Carvalho Telma Barros
Inside Experience	Tourism	João Ribeiro
Kindergarden « O Miúdo »	Education	Mafalda Coelho

Professional Training and Rehabilitation Center	Education	Ana Sofia Cordeiro Dionísia Carvalho Susana Mucha
Pura Mistura	Company	Susana Pinheiro
North Adventure	Tourism	Edgar Quinato
Quercus	Non-governmental environment organization	Paula Silva
Runas Hidromel	Company	Tiago Morais
Stay to Talk	Tourism	Carolina Mendes Raquel Meirinhos
UTAD – University of Trás-os-Montes and Alto Douro	Education / Research	Paulo Russo
Wastelands Ansiães	Local development associaiton	Arménio Miranda
Wastelands Olo	Local development associaiton	Álvaro Miranda

2.3 RESOURCES

For the execution of the BeePathNet project, physical and human resources were allocated for its implementation. To carry out this urban beekeeping plan, human resources will also be needed, namely the internal team by the Municipality that includes services linked to communication, finance, tourism, environment, and entrepreneurship. In addition, the local action group, with the support of it's stakeholders, will complete the necessary human resources.

In terms of physical resources for carrying out the various activities, didactic materials, computer and projector, merchandising, support materials, among other examples will be needed.

2.4 FUNDING

The Municipality, over the past few years, has integrated a series of financed projects, and our North 2020 application is currently ongoing, supporting the “Colmeia do Marão” (one of the actions that make up this action plan) will be financed by this application. The

project's local action group does not include stakeholders who have direct funds for the project, however each entity will develop its activities with its own financial resources.

The BeePathNet project in Amarante has no sponsors or donations or revenues associated with it.

Therefore, the actions included in this plan will be carried out according to the source of financing described in the table below.

Action	Funding source
<u>Campaign for Pollinators</u> <ul style="list-style-type: none"> National competition for the construction of « Pollinators hotels » 	CM Amarante resources and Quercus funding
<u>« Colmeia do Marão » (Marão Beehive)</u> <ul style="list-style-type: none"> Education room PR – pedestrian route Restoration of silhas 	Application Norte 2020
<u>Environmental Education Program</u> <ul style="list-style-type: none"> Celebration of Bee Day Celebration of Biodiversity Day Education Program 	CM Amarante resources
<u>BeePathNet route</u> <ul style="list-style-type: none"> App Amarante tourism 	CM Amarante resources
<u>Webpage Beekeeping Cluster of Amarante</u> <ul style="list-style-type: none"> Beekeeping information/events Registration of apiaries and beekeepers 	CM Amarante resources

3 Detailed action plan

The planned actions are described in the table below, as well as the actors, timeline, workplan, outputs and costs & funding:

- **Awareness / Biodiversity**

Action		<i>Celebration of World Bee Day</i>
Description	Since Amarante joined the BeePathNet URBACT network, the world bee day has always been celebrated in Amarante. Thus, in the next 5 years it is intended to continue to celebrate this special day.	
Actors	BeePathNet internal team ULG	
Timeline	20 of may 2022, 2023, 2024, 2025 and 2026	
Work Plan	<ul style="list-style-type: none"> • Celebration of World Bee Day on 20 of may (in person or online, depending on circumstances) • Target audience: all community • Workplan: <ol style="list-style-type: none"> 1. Define the approach strategy; 2. Meeting (definition of tasks); 3. List resources / resources necessary for its execution; 4. Implementation of the plan and advertising. 	
Output	News on BeePathNet network and the Municipality social networks; Photos. World Bee Day	
Costs & funding	No costs or costs supported by the Municipality.	

Action	
<i>Celebration of Biodiversity Day</i>	
Description	The Forests Technical Office of the Municipality of Amarante celebrates the Biodiversity day, every year. This celebration will continue for the next 5 years.
Actors	BeePathNet internal team Forestry Technical Office
Timeline	5 of june of 2022, 2023, 2024, 2025 and 2026
Work Plan	<ul style="list-style-type: none"> • Celebration of Biodiversity Day on 5 of june (in person or online, depending on circumstances) • Target audience: all community • Workplan: <ol style="list-style-type: none"> 1. Define the approach strategy; 2. Meeting (definition of tasks); 3. List resources / resources necessary for its execution; 4. Implementation of the plan and advertising.
Output	Biodiversity Day News on BeePathNet network and the Municipality social networks; Photos.
Costs & funding	No costs or costs support by the Municipality.

Action	
Campaign for Pollinators	
Description	<p>Quercus, a non-governmental environment association, decided to expand its action and campaign for Pollinators in collaboration with the BeePathNet, making a proposal to integrate this beekeeping plan. Quercus proposed to hold a National Competition for the construction of "Pollinators Hotels". This contest, adapted to pandemic times, aims to raise awareness amongst our population and farmers about the importance of pollinating insects in general, with emphasis on solitary bees, that is, those that do not use honey production hives. The contest will have its own regulation, and it is foreseen that the hotels are directed to this type of insects, and may also contain a habitat for other auxiliary organisms. It is anticipated that the hotels will be constructed in wood and other used materials. The participants will only have to send photos of the hotel, a video showing it, and/or speaking in first person how it is built and a brief description explaining some details and dimensions. The photos must show the hotel next to flowers, as these are the food of insects, playing with the concept of "bed & breakfast". The jury will include members of Quercus and at least one guest researcher. The contest can be advertised using the social media channels of the Quercus, mailing and through "Minuto Verde" (Short Tv Show).</p>
Actors	<p>BeePathNet internal team</p> <p>Quercus</p>
Timeline	2022
Work Plan	<ul style="list-style-type: none"> • National Competition - construction of "Pollinator Hotels" • Target audience: all community • Wokplan: <ol style="list-style-type: none"> 1. Define the approach strategy; 2. Meeting (definition of tasks); 3. List resources / resources necessary for its execution; 4. Implementation of the plan and advertising.
Output	<p>News on the Quercus webpage, BeePathNet network and the Municipality social media networks;</p> <p>Photos/videos and regulation of the competition.</p>
Costs & funding	Costs supported by the Municipality and Quercus.

- **Education**

Action <i>Environmental Education Program</i>	
Description	One of the policies of the Municipality is related to the importance of environmental education and for that purpose an environmental agenda is created every year, which includes a set of proposals for environmental pedagogic sessions that belong to the Education Axis of the Municipality. It is intended, every year, to make environmental proposals related with biodiversity, beekeeping and nature protection.
Actors	BeePathNet internal team ULG (School community and Senior University)
Timeline	Proposals submitted in june / july each year (2022, 2023, 2024...)
Work Plan	<ul style="list-style-type: none"> • Elaboration of environmental education program • Target audience: school community and senior community • Workplan: <ol style="list-style-type: none"> 1. Preparation of the activity plan: theme and schedule; 2. Validation of proposals; 3. Presentation of proposals to the school community (representatives of educational establishments); 4. Articulation with schools; 5. Implementation of proposals.
Outputs	Annual environmental proposal Presentation / seminars / workshops Work developed by the students involved in the activities; Photos and news.
Costs & funding	No costs or costs supported by the Municipality.


- **New Products**

Action <i>Colmeia do Marão (Marão Beehive)</i>	
Description	<p>the Colmeia do Marão (Marão Hive), intends to give a new use to the old primary school of Covelo do Monte, making it an interpretative center of honey, where it will be possible to interact and discover the whole process of honey. This center, equipped with several thematic rooms, will receive visits and communication / training actions regarding honey and beekeeping. The objectives of this intervention are the recovery of a built heritage, as well as the practice of a sustainable activity in economic and environmental terms – beekeeping, promoting this historic activity and creating an attractive place to visit and for tourism.</p> <p>The denomination and the framework for the application is to take advantage of endogeneous resources “honey” and the natural architectural landscape of Marão.</p>
Actors	CMA – Municipality of Amarante
Timeline	Work in progress (2022)
Work Plan	<ul style="list-style-type: none"> • Colmeia do Marão (Norte 2020) • Work in progress • Workplan <ol style="list-style-type: none"> 1. Work in progress; 2. Streamline the teaching room of the world of bees and bee products; 3. Opening of the Colmeia do Marão.
Outputs	Colmeia do Marão
Costs & funding	Application Norte 2020

Action		Webpage Beekeeping Cluster of Amarante
Description	<p>Colaborating with the creation of an online tool that allows the registration of apiaries, beekeepers, as well as having all relevant information about beekeeping in Amarante, will be the intention of creating this specific tab for beekeeping on the Municipality website. Georeferencing the apiaries will be advantageous for all beekeepers since it is in the forest areas where their apiaries are, it is the flora that enriches our mountains that bees feed on. Having the possibility of our apiary being georeferenced will allow you to understand which are the best places to locate apiaries, with the fulfillment of Law 203/2005 (legal regime of beekeeping activity). In addition, in this webpage it will be possible to find all beekeeping events, information for beekeepers and awareness/ education material for all community.</p>	
Actors	<p>BeePathNet internal team ULG</p>	
Timeline	<p>2022</p>	
Work Plan	<ul style="list-style-type: none"> • Municipality website with information about beekeepers registration, registration of apiaries, georeferencing and all relevant information. • Target audience: Beekeepers resident or beekeepers with apiaries in the Municipality of Amarante. The whole community. • Workplan: <ol style="list-style-type: none"> 1. Creating a page on the Municipality's website; 2. Definition of content and information gathering; 3. Disclosure of the website. 	
Outputs	<p>Georeferencing Webpage</p>	
Costs & funding	<p>No costs or costs supported by the Municipality.</p>	

- **Tourism**

Action <i>Colmeia do Marão – Pedestrian route</i>	
Description	As a complement of the Colmeia do Marão, a new pedestrian path will be created, duly approved, with approximate length of 14 kilometers, which will connect the 2 ancestral apiaries (silhas) recovered with the interpretative center.
Actors	CMA – Municipality of Amarante
Timeline	Work in progress (2022)
Work Plan	<ul style="list-style-type: none"> • Colmeia do Marão (Norte 2020) • Work in progress • Workplan <ol style="list-style-type: none"> 1. Creation of the pedestrian route; 2. Allocation of route signs; 3. Elaboration of publicity materials; 4. Opening and marketing of the PR.
Outputs	PR 14 km
Costs & funding	Application Norte 2020

Action <i>Colmeia do Marão – restoration of silhas</i>	
Description	<p>Along with the recovery of the old primary school of Covelo do Monte that will receive the interpretive center of honey, Colmeia do Marão, two old apiaries, historically used to protect the hives against attacks of bears, badgers and other predators animals, will be recovered.</p> <p>These structures (in portuguese "silhas") consist of large stone fences, implanted on the slops or on hills with difficult acess, designed to protect the swarms of bees from the main predators, which in the past would have been the brown bear.</p> 
Actors	CMA – Municipality of Amarante
Timeline	Work in progress (2022)
Work Plan	<ul style="list-style-type: none"> • Colmeia do Marão (Norte 2020) • Work in progress • Workplan: <ol style="list-style-type: none"> 1. Work in progress; 2. Restoration of silhas; 3. Opening and divulgation of the Colmeia do Marão and PR.
Outputs	Silhas
Costs & funding	Application Norte 2020

Action <i>Structuring beekeeping tourism product (BeePathNet route)</i>	
Description	Created during the BeePathNet project, a BeePathNet route was born in 2021, and in 2021 it intends also intends to take a new step and be available to everyone on smartphone. It is intended the route to be made available through the App Amarante Tourism to be navigated by GPS and/or augmented reality. Along the route, points of interest related to the route will be triggered, using Bluetooth signal emitters (Beacons) strategically placed along the route. Beacons are detected by smartphones, smartwatches and tablets, allowing notification of specific contents when an user is close to one of these transmitters. Therefore, the route will be dynamic and interactive, with information and curiosities along the way. Simultaneously, we plan to structure and organize all the information about services and tourist experiences that are already being raised by the operators, information about Colmeia do Marão, information about this route and build a space on the Amarante Tourism website where all information is available.
Actors	CMA – Municipality of Amarante ULG
Timeline	Work in progress (2021)
Work Plan	<ul style="list-style-type: none"> • BeePathNet route • Work in progress • Workplan: <ol style="list-style-type: none"> 1. Implementation of the route in the mobile phone application; 2. Dowload of App Amarante tourism; 3. Pilot test of the route; 4. Disclosure of the route.
Outputs	App Amarante tourism – BeePathNet route
Costs & funding	Application BeePathNet or costs supported by the Municipality.

- Other

Action <i>Facilitating the continuous collaboration with ULG</i>	
Description	<p>In order to guarantee the continuity of BeePathNet and the implementation of this beekeeping plan, it is essential to keep the local action group active, dynamic and cohesive.</p> <p>Therefore, we intend to be a facilitator for the continuation of the ULG. To this end, we propose to hold a meeting with the ULG once a year. Jointly, at the end of each year we will gather contributions from all stakeholders on activities developed by each one to share with the community, and we plan to send quarterly an e-mail to gather contributions and activities from each stakeholder. At the same time, we want to contribute to the existing thematic groups (sharing responsibility) that some of our stakeholders are part of, namely the group to combat <i>Vespa velutina</i> (wasp), organization of a honey fair (Beekeepers association and parish council) and the Amarante tourism group.</p>
Actors	CMA – Municipality of Amarante ULG
Timeline	Work in progress (from June 2021)
Work Plan	<ul style="list-style-type: none"> • Cohesive and active ULG • Work in progress • Workplan: <ol style="list-style-type: none"> 1. Define the approach strategy; 2. One meeting per year (monitoring); 3. Send quarterly an e-mail to gather contributions and activities and briefing of the activities of the thematic groups and collaboration; 4. Annual summary and assessment.
Outputs	ULG meetings; ULG e-mails; Events and news.
Costs & funding	No costs or costs supported by the Municipality.

