

# Communication strategy and dissemination plan

## **Deliverable 11.3**

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#### PoshBee

Pan-european assessment, monitoring, and mitigation of stressors on the health of bees



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#### Preface

Communication and dissemination are key elements of PoshBee's planned measures to maximise project impact and ensure sustainable and long-term knowledge exchange. This Communication strategy and dissemination plan, has been developed during the starting phase of the project by the principal WP11 dissemination and outreach partners to ensure the clear definition of, and interactions between, objectives, target groups, message and implementation. This strategy is developed based on activities and findings within WP10 Knowledge Exchange and Impact Strategy, where a Report (D10.1 Report on the knowledge exchange and impact strategy for PoshBee) on the knowledge exchange and impact strategy has been prepared to define and categorize the main stakeholder groups within PoshBee.

## Summary

Dissemination and communication play a vital role within PoshBee as a means of ensuring knowledge transfer and uptake of results at every stage during the project lifetime. The project's Communication strategy and dissemination plan have been developed during the starting phase of the project to define objectives, target groups, key messages and outline implementation. The main dissemination tools (website, press releases, newsletters, posters, brochures, social media, videos, meetings and workshops, scientific publications etc.) are listed in this strategy, where the relationship between tools and the different target groups is explained, alongside suggested indicators for actively monitoring of effectiveness.

The strategy represents a concise plan to guide the communication and dissemination efforts to target various audiences and convey clear, understandable, coordinated and effective messages, thus, raising awareness and maximising the benefits resulting from the PoshBee project. Indicative time schedule for implementation is provided.

## 1. Introduction – Why, Who, What, How and When?

Dissemination and communication efforts within PoshBee will branch out mainly in two directions, namely rising awareness and promoting consensus among stakeholders to contribute to reaching PoshBee goals and objectives, on the one hand, and popularisation and visibility to the wider public, on the other.

The Strategy will answer five main questions related to:

- 1) Scope and objectives (Why?)
- 2) Target groups and stakeholder integration (Who?)
- 3) Key outputs to communicate (What?)
- 4) Communication channels and methods (How?)
- 4) Timelines for delivering successful communication (When?)

In collaboration with the stakeholder identification and networking activities that are carried out in WP10 (see Deliverable 10.1 Report on the knowledge exchange and impact strategy for PoshBee) the strategy will target these main stakeholder groups in key sectors and define the most appropriate methods to tailor materials and communicate results to: (i) policy and decision-makers at the global, EU, and national/regional levels; (ii) local governments; (iii) environment managers and planners; (iv) NGO's; (v) farmers and beekeepers, (vi) citizens.

The strategy represents a concise plan to guide the communication and dissemination efforts to target the various audiences and spread out clear, understandable, coordinated and effective messages, thus raising awareness and maximizing the benefits resulting from PoshBee.

This document outlines in detail the communication and dissemination activities, their motivation and implementation. The time schedule for their implementation is indicated in Annex 1.

## 2. Scope and objectives

The PoshBee Communication strategy and dissemination plan will be of foremost importance for the project's success. Its main objective is to identify and organize the dissemination activities in order to reach out to the widest possible range of stakeholders and to promote further exploitation of the project results.

To ensure that these aims are met professionally, effectively and in a timely manner the following ten basic principles are adopted as dissemination and communication backbone:

- 1. Open access to PoshBee results to the greatest extent possible, while considering intellectual property rights (IPR);
- 2. Multi-targeted dissemination of results, based on identifying all relevant target groups;
- 3. Tailored and targeted communication messages reflecting the needs of each target group;
- 4. Multivalent modes of dissemination based on traditional (scientific papers, leaflets, posters, fact sheets, policy briefs, press releases, newsletters) and innovative methods (online broadcasting, videos, infographics, blogs, open access journals, data publishing);
- 5. Extensive use of social networks (Twitter, Facebook, YouTube) and Web 2.0 technologies (semantic tagging);

- 6. Translating the scientific results, such as best practices, recommendations, fact sheets, policy briefs, etc. into comprehensive and more understandable forms, and when needed into national languages. The scientific language and the methods of dissemination will be adapted according to the needs and specifics (e.g., educational level, different background, different incentives) with the aim to reach various multi-language and multi-cultural target groups;
- 7. Widest integration of PoshBee results into existing international networks, professional organisations, large symposia, and NGO's;
- 8. Regular press releases and news announcements posted through the world's leading (Eurekalert.org) and EU-based (APIMONDIA, COLOSS, Science for Environment Policy newsletter, BISE, CORDIS Wire, Oppla etc.) distributors of science news;
- 9. Feedback from stakeholders used to improve the usability of results and facilitate the work of PoshBee;
- 10. Sustainability of PoshBee results by maintaining the website at least 5 years after expiration of the funding phase of the project and encouraging the open access publication of all project results including data, reports, methods, etc.

## 3. Target groups and stakeholder integration

The broad stakeholder groups within PoshBee, as identified by the stakeholder mapping exercise (D10.1), are *Beekeepers* (beekeeper associations/organisations), *Business* (private companies, industry, SMEs), *European Commission* (EC, DG's and agencies), *Farmers* (farmer associations/organisations), *Government* (national government agencies or ministries), *Media*, *NGO* (non-governmental organisation), *Public*, *Researchers* (university, government or private research organisation).

Within Deliverable 10.1 these groups were also mapped according to the level of interest and influence they have with regards to key outputs planned within PoshBee.

Table 1. Overview of knowledge exchange plans for Standardised protocols and the Bee Health Card. (Potts, et al. 2019)

PoshBee Output: "What"	Stakeholders: "Who"	Dissemination, communication and outreach: "How" and "When"
Standardised	Priority Stakeholders  ANSES, Agrochemical industry, EC, ECPA, EFSA, National ministries of agriculture, and Researchers	Task 11.2: Communication and dissemination strategy and the Exploitation Plans
protocols	Other Stakeholders COPA-COGECA, National farmer organisations, NGOs, Media, Pollination service suppliers, and Public	and  Task 11.3: Dissemination,  communication and outreach
Bee Health Card	Priority Stakeholders	

PoshBee Output: "What"	Stakeholders: "Who"	Dissemination, communication and outreach: "How" and "When"
	ANSES, Agrochemical industry, Businesses (e.g. Bee medicine suppliers, queen honeybee breeders), EC, EFSA, National beekeeping associations, Media, National farmer organisations, National ministries of agriculture, and National ministries for bee health	Task 11.2: Communication and dissemination strategy and the Exploitation Plans
	Other Stakeholders Businesses (agri-food, Pollination service suppliers retailers), NGOs, Public, and Researchers	Task 11.3: Dissemination, communication and outreach

This document will build on the stakeholder mapping exercise results to develop specific actions of PoshBee's communication strategy, namely define the right channels and timing to ensure maximum update and re-use of PoshBee results.

## 3.1. Communicating results with stakeholders

PoshBee's long-term objective is to support sustainable beekeeping and healthy bee populations, including wild bees. One of the aspects leading to this objective is the successful communication, knowledge transfer and dissemination of the project updates and results. When communicating with stakeholders, it is essential to ensure that clear or plain language explanation of results and updates are provided to non-scientific groups.

As part of the promotional and dissemination toolset of the project selected to make the results of PoshBee available across stakeholders and the general public, PoshBee will prepare and publish practice abstracts on the EIP-AGRI platform. These concise and clear pieces of knowledge aim to present PoshBee results to one of the key project target groups – the practitioners.

As of May 2021, four practice abstracts <u>have been published</u>. Prepared by PoshBee coordinator Prof. Mark Brown of Royal Holloway, University of London, the first abstract provides a summary of the project goals and objectives. The second abstract, drafted by Prof. Simon Hodge and Prof. Jane Stout of the Trinity College in Dublin, lists recommendations for groups planning to perform similar multipartner, farm-scale, field studies on pollinating insects. Practice abstract 3 written by Dr. Joachim Rodrigues De Miranda and Dr. Maj Rundlöf, Swedish University of Agricultural Sciences, introduces a study, which investigates the effect of real-world clothianidin exposure on bees across oilseed rape fields in southern Sweden. The fourth practice abstract provided by Mr. Norman Thürmer of the Imkerverband Sachsen-Anhalt e.V. shares recommendations aiming to maximize the efficiency of the work invested in the project. PoshBee will continue to submit practice abstracts to translate important project research and results for the needs of practitioners.

Based on feedback of the Scientific Steering Committee (SSC) at the projects annual general meeting in January 2021, a new plan for enforcing the communication with stakeholders and practitioners has been elaborated. Manuscript authors within PoshBee will be targeted to prepare summaries and briefs for specific stakeholders. These new plain language summaries will be directly provided to PoshBee beneficiaries and stakeholders who represent the relevant group for the respective text (e.g., farmers, beekeepers, NGOs, businesses, etc.). Additionally, these summaries will be published on EIP-AGRI and disseminated through the project's website and social media channel.

Pensoft will be monitoring the new manuscripts within PoshBee and will reach out to partners, asking them to contribute to the latter communication effort. For their convenience, a template containing instructions and a field for their summary has been made available. The short briefs should focus on the main results/outcomes of the activity and provide main practical recommendations (main added value/benefit/opportunities to the end-user if the generated knowledge is implemented; how to make use of the results etc.). The summaries should be as interesting as possible for end-users, while using a direct and easily understandable language. Whenever possible, the short texts will also be translated in native languages, in order to reach wider national audiences.

Providing these summaries would incentivise efficient knowledge exchange and disseminate the results of the project in a concise, easy and understandable way to practitioners.

## 3.2. Receiving Feedback

Getting to know our target groups and how to effectively formulate messages to address them is only one part of the successful communication process. In order to truly understand an audience, communication must be two-directional. Effective feedback, both positive and negative, is a valuable information source that should be utilised to make improvements in the use of various communication channels. Bearing that in mind, PoshBee will modify its actions according to feedback received from users in order to ensure a smooth two-directional communication process and ultimately improve PoshBee outputs based on the user needs and wishes.

As part of this objective, PoshBee has developed two online surveys that aim to consult stakeholders on their needs. The first survey aims to identify the current tools, protocols, methods, criteria etc. that are currently being used by PoshBee stakeholders. The second survey aims to consult stakeholders as to how they would like these outputs delivered to them.

The time plan for launching the two surveys is the end of May 2021. After launch, they will be communicated with the stakeholder advisory committee and PoshBee partners with the aim of cascading the survey to the diverse stakeholder groups. The surveys will also be advertised on the project website and social media channels. They will stay open for a month and, after closing, their data will be analysed, evaluated and used accordingly to improve PoshBee outputs and their delivery.

#### 4. Main outputs to communicate

Table 2 from D10.1 summarises the key PoshBee outputs that will require targeted communication and dissemination efforts to ensure smooth knowledge exchange.

Table 2. Summary of the main expected outputs from PoshBee. (Potts, et al. 2019)

<b>Output Type</b>	Specific outputs
	Chronic and sub-lethal effects of chemicals and combinations
Knowledge	Effects of chemical x pathogen and chemical x nutrition
	Field level effects of stressors
5	Testing chemicals on life-stages and castes/sexes of model species
Protocols for bee	Ground nesting model for solitary bees
regulatory testing schemes	Chemical x pathogen and chemical x nutrition interactions
testing senemes	Field testing
<b>Proteomics tools</b>	'Health card' for bees to monitor stressors and impacts
for health monitoring	Proteomics database for wider use
Air sensor tool	Measuring atmospheric agrochemicals exposure inside and outside hives
Toolkits	Multi-media knowledge exchange to enhance tool uptake and use

## 5. Communication methods and channels

- 1. Communication and dissemination channels created and maintained by PoshBee:
  - Project website
  - PoshBee 'Buzz' newsletter
  - Promotional materials: brochures, posters, policy briefs, factsheets etc
  - Social networks
  - Multimedia materials
  - Press releases
  - Events
- 2. External dissemination channels:
  - Journals
  - Mass Media
  - Partnering projects' websites, social networks, events, newsletters

More information about these channels and their status is available in D11.1 Project branding.

Table 3: Mapping communication channels to stakeholders, outputs and verification of use

Dissemination tool	Target groups	Related outputs	Verification of use
Project website	Researchers, Beekeepers, Farmers, NGO, Media, Public	All outputs	Number of visits, number of requests, unique visitors and document downloads
Social networks and sharing platforms	Researchers, European	All outputs	Number of posts; number of re-tweets

Dissemination tool	Target groups	Related outputs	Verification of use
<ul><li>Facebook</li><li>Twitter</li><li>YouTube</li></ul>	Commission, Government, Beekeepers, Farmers, NGOs, Media, Public		(Twitter); number of followers, views and "likes"
Scientific publications	Researchers, NGOs	Knowledge, Protocols, Toolkits	List of publications
Presentations at scientific conferences	Researchers, Government, NGOs, European Commission	Knowledge, Protocols, Toolkits,	List of international or national conferences where the project results are presented
Poster, flyers, leaflets	Researchers, Government, NGOs, European Commission	Knowledge, Protocols, Toolkits	Number of downloads of electronic copies or handouts at conferences
Policy briefs	Government, NGOs, European Commission	Knowledge, Protocols, Toolkits, Health card, Air sensor	Number of downloads of electronic copies or handouts at conferences
Practice factsheets	Beekeepers, farmers, NGOs	Knowledge, Protocols, Toolkits, Health card, Air sensor	Number of downloads of electronic copies or handouts at conferences
Newsletter – PoshBee 'Buzz'	Researchers, European Commission, Government, Beekeepers, Farmers, NGOs, Media, Public	All outputs	Number of successful deliveries, clicks, average per user engagement
External blogs, e- newsletters, websites	Researchers, European Commission, Government, Beekeepers, Farmers, NGOs, Media, Public	Knowledge, Protocols, Toolkits, Health card, Air sensor	Number of successfully placed content
Press releases and publications in newspapers and popular magazines	Researchers, European Commission, Government, Beekeepers, Farmers, NGOs, Media, Public	Knowledge, Protocols, Toolkits, Health card, Air sensor	Number of press releases issued; number of visits of particular press releases; list of publications

Dissemination tool	Target groups	Related outputs	Verification of use
Multimedia materials: Researchers,		All outputs	List of multimedia
videos, infographics, European			items, engagement
live broadcasts	Commission,		per item, where
	Government,		possible to measure
	Beekeepers, Farmers,		
	NGOs, Media, Public		

## 6. Detailed social media strategy

Having a strong social media presence could be very beneficial in the context of project management. The social media is having a global impact on communication and networking, it is also cost and time efficient, it allows access to information anytime, while also providing the possibility to receive feedback. That is why social media should be fully integrated as a part of a project's communication strategy. However, in order to use social media effectively, one must be able to evaluate the impact of their social media channels.

This document provides an overview of the types of audiences interested in PoshBee's social media accounts (Twitter and Facebook). It also discusses various tools, practices and indicators that can be used to measure the impact of social media campaigns. Finally, the document sets up ways to analyse the performance of the project's social media channels and relevant KPIs.

#### 6.1. Social media audiences

This section takes a closer look at the audiences that PoshBee will target on social media channels (Twitter and Facebook).

- Beekeepers (beekeeper associations/organisations)
- Business (private companies, industry, SMEs)
- European Commission (EC, DG's and agencies),
- Farmers (farmer associations/organisations),
- Government (national government agencies or ministries),
- Media, NGO (non-governmental organisation),
- Researchers (university, government or private research organisation).
- Public at large

As of May 2021, the PoshBee project has been making significant progress on all fronts. More field work has been carried out and more results have been achieved. Because of that, a stronger focus has been set in producing videos, which are another effective way of communicating developments with relevant stakeholders. YouTube has been the medium of choice to disseminate PoshBee videos to the public, and the subsequent sections of this strategy have been updated with all relevant information about this dissemination route.

## 6.2. Measuring social media impact

Each social media used by PoshBee offers different benefits and can have a potential unique use in the context of communication and dissemination, but they can also have some shortcomings. Table 4 summarizes the pros and cons of PoshBee's social media.

Table 4: Comparison of the pros and cons of social media networks for use in Poshbee

	Specifications	Impact within PoshBee
Twitter	Pros: Short, fast, easy communication; popular and with high number of users; Twitter lists - easy way to follow news and interact; Event back-channelling Cons: Rather limited in space and media sharing; Tweets have a short searchability lifetime	-Generate interest and share on-going news and activities through posts/tweets -Twitter lists: build a community around the project and get relevant news -Conference live stream/post-conference review -Personal messages: Twitter email version
Facebook	Pros: Useful for sharing media (pictures, videos); High number of users; Create events and invite users; Community-like feel Cons: Less professional and used mainly for personal social activities	-Generate interest and share on-going news and activities through posts -Share relevant multimedia (in posts, or as separate albums) -Events creation and promotion: strengthening the sense of community around the project -Create groups to share group messages -Insights: provide useful analytics for the development of the page
YouTube	Pros: Simple upload and embedding of videos; free hosting; high discoverability and traffic generation  Cons: No customer support option; a relatively high number of ads	-A highly appealing and effective way of presenting project developments -Easily trackable impact -Video collection will be available beyond the project's lifetime

## 6.2.1. Tools and practices

Social media provides free and efficient tools, which allow the user to measure the success of their campaign, but also to detect weaknesses and address them (e.g. by updating their communication strategy). Based on the European Commission's updated guidance on social media for EU funded R&I projects, table 5 gives an overview of the main tools, measurements and practices that can be used to measure the performance of the PoshBee social media profiles on Twitter and Facebook. (EC, 2020).

Table 5: To	Table 5: Tools and practices for measuring social media impact				
	Twitter	Facebook	YouTube		
Analyti	Twitter analytics: this tool	Facebook insights: this tool	Video analytics: this tool		
cal	measures the impact based	is more limited in the sense	enables us to track the		
tools	on two categories, tweet	that it is unable to display	performance of each video,		
	activity and followers.	each PoshBee follower	as well as the overall		
	Tweet activity reveals the	individually (it just shows	performance of the		
	top tweets, as well as the	the total number of	channel. For both individual		
	number & rate of	followers), but it is still a	videos and channel		
	impressions and	tool with a lot of potential.	performance, YouTube		
	engagements for a certain	Facebook insights analyses	provides access to the		
	period (the longest period	the flow of page followers,	number of views, watch		
	available for analysis is 90	views, likes and actions.	time (in hours), number of		
	days). On the other hand,	The tool can also categorize	impressions (times when		
	Twitter can also display the	the audience based on age,	the video has been shown		
	most active and influential	gender and nationality. It	to users), average view		
	followers (active refers to	also provides a separate	duration, etc. The tools also		
	users who often engage	analysis of posts that were	gives an overview of the		
	with PoshBee tweets and	advertised, hence revealing	channel's audience,		
	influential refers to users	whether paying for	displaying the number of		
	who have a high number of	advertising is worth.	(new) subscribers and		
Criteria	followers).  Quantitative &	Quantitative: As	returning visitors.  Quantitative & Qualitative:		
Criteria	Qualitative: In the case of	mentioned above,	In the case of YouTube, the		
	Twitter, both quantitative	Facebook insights do not	media allows us to track		
	and qualitative data	provide detailed data about	both quantitative and		
	analysis can be applied to	the page followers, which	qualitative data. The		
	evaluate the performance	makes a qualitative user	quantitative aspect is		
	of the channel. The	analysis very hard. Because	reflected in the various		
	quantitative aspects covers	of that, identifying	analytical tools described		
	factors such as number of	statistical (data page	above. The qualitative		
	clicks, likes, shares, tags,	followers, views, reactions	aspect focuses on the		
	video views, new	and actions) will be	possibility to leave		
	followers, profile visits,	prioritized in the PoshBee	comments under all videos,		
	engagement rates etc. The	social media analysis	which is a great way to		
	qualitative aspect focuses	•	generate feedback to our		
	on the detailed audience		content and interact with		
	analysis (for example,		our stakeholders.		
	categorization of each				
	Twitter follower to one of				
	the eight stakeholder				
	groups). Qualitative				
	methods can also evaluate				
	the types of comments and				
	their tone.				
Monito	One further practice	The practices discussed	YouTube will be monitored		
ring	helpful for the evaluation	within the Twitter section	similarly to the two other		
and	of social media	apply in the case of	social media profiles. In		
	performance is the regular	Facebook as well. One	each reporting periods, the		

### reporti ng

monitoring of the channel. In addition to the frequent updates with relevant content (e.g. during conferences, at least one live updated should be tweeted per presentation/session), one should regularly check the inbox for relevant messages. Additionally, reporting on communication and dissemination activities to the EU (by including information about the social media accounts, activities, achievements and impacts) will deliver sufficient feedback helpful for the evaluation of the social media performance.

contrast is the frequency of reporting during key events. Unlike Twitter, Facebook provides the use of unlimited characters in each post. Because of that, posting content should be limited to one post a day, which should provide a recap of the progress in that day. One option to capture key messages for both Facebook and Twitter is the use of live video.

video analytics will be reviewed and the data for the given period will be reported. In contrast to Twitter and Facebook, uploads on YouTube will be much less frequent due to the high amount of time needed to produce a video.

### 6.2.2. Qualitative Indicators

Identifying specific indicators that best fit the area of research covered by PoshBee and keeping track of these provides a constructive measurement of the impact of using social media. Acknowledging the factors listed below could ultimately improve the social media performance:

- Number of DG's following the project.
- **Connection with other related projects**: Establishing a connection with other projects in the same field could guarantee a flow of viewers from the project's target group.
- **Influence of the followers**: One further factor is the "influence" of the followers if a certain profile following the project has a high number of followers themselves, it is more likely that the results of the project will reach a wider audience.
- Retweet / Share of the posts: Liking or reacting to a post is certainly a good sign for its
  performance, but the real indicator is the number of times this post is retweeted on Twitter
  or shared on Facebook.
- Tags: Being tagged in posts related to the project could significantly increase the received attention. This is relevant on both Facebook and Twitter.
- Use of specific hashtags (Twitter specific): During conferences or similar events, creating a specific hashtag provides an easy way to follow the communication around the event. One example for such approach is the #PoshBee2020, which referred to the AGM in Marseille and connected people communicating the event.
- **Personal messages**: A high number of PMs corresponds to a strong social media presence and ultimately to a high interest in the project. Regularly monitoring the inbox in both Twitter and Facebook can lead to a contact with key persons/institutions.

• **Number of unique video views**: This factor refers only to the PoshBee YouTube channel, where the number of video views will be monitored as the main key performance indicator of the channel.

#### 6.2.3. Quantitaive indicators

This chapter provides an estimation of the future followers and activities on both PoshBee social media channels and discusses the general benefits of social media usage in the context of project dissemination.

Based on numbers of followers and other indicators analyses from previous projects and other projects on the same topic (pollinators, honey bees, food security) we have estimated the following minimum baseline values (table 6).

Table 6: Estimation of KPIs for PoshBee's Twitter, Facebook and YouTube channels

Indicator	Unit	Twitter	Facebook	YouTube
New followers	Per 6	+150	+50 followers	+ 3 subscribers
	months	followers		
Tags (being tagged in posts)	Per month	+2	+1	N/A
Followers from specific target	Per 6	+40	+10	+ 2
groups	months			
Likes (or other reactions)	Av. per	5	5	15
	post			
Share	Av. per	5	2	5
	post			
Impressions / post reach	Av. per	5000	200	100
	month			

These numbers will serve as guidelines and may vary each period depending on the relevance and volume of project content. It is expected that with the growth of the PoshBee social media audiences gaining new followers will grow due to the larger exposure of published content.

## 6.2.4. Baseline expected activities

Differently to the number for future followers, the future activities (e.g. impressions, engagements, retweets/shares) could not be estimated as they are a part of qualitative data analysis and are dependent on the content provided by PoshBee on social media. Nevertheless, the analysis in chapter 3 revealed that a higher activity rate corresponds to key PoshBee events and outputs. Based on this information, table 7 provides an overview of the periods where a higher social media activity due to the given PoshBee output or event is expected.

Table 7: Estimation of key periods for future PoshBee followers on Twitter, Facebook and YouTube

rable 7. Estimation of key periods for futu	re PosnBee followers on Twitter, Facebook and YouTube
Month	PoshBee output/event
M3 (August 2018)	Kick-off meeting
M8 (January 2019)	First AGM
M10-12	Start of first field season, setup of field and semi- field experiments
M13 (June 2019)	BUZZ annual newsletter I
M18 (November 2019)	Practice abstracts I (first practice abstracts on EIP-Agri)
M20 (January 2019)	AGM
M25 (June 2020)	BUZZ annual newsletter II
M32 (January 2021)	AGM
M34-37 (2021)	Field season and semi field experiments season 2
M37 (June 2021)	BUZZ annual newsletter III
M39 (August 2021)	New technology to measure environmental contamination
M39 (August 2021)	Bee health definition and indicators
M41 (October 2021)	Training videos
M44 (January 2022)	AGM
M46 (March 2022)	Training
M48 (May 2022)	BUZZ annual newsletter IV
M56 (January 2023)	AGM
M56 (Jan 2023)	Synthesis of multiple stressor exposure and impact
M60 (May 2023)	Practice abstracts II
M60 (May 2023)	Multiple stressor effects on bees in field
M60 (May 2023)	Risk assessment tool for EFSA
M60 (May 2023)	Use of BeeTyping for monitoring
	1

# 6.2.5. Why social media?

While there is a huge number of studies exploring the effects of social media, only a few have a specific focus on EU project management.

Hysa & Spalek (2019) investigate the areas in which it is possible to use social media in project management and analyze the surrounding opportunities and threats. The authors conclude that social media, although unable to replace face-to-face meetings, can complement traditional communication models in projects, especially when large number of individuals are involved (P. 22). This perfectly exemplifies PoshBee's case, as the project involves hundreds of participants across Europe. In regard to social media benefits, Hysa & Spalek identify such in the following areas: "communication between business partners and shareholders (54%), the coor-dination of distributed project teams (52%), the work efficiency of project teammembers (52), knowledge management (50%), the promotion and marketing ofthe project (46%), and mutual cooperation between team members (46%)" (P. 21).

Furthermore, the study conducted by Pivec & Maček (2019) aimed to analyze the personal social media preferences and opinions, as well as social media features and their usage within projects. Their sample contained 137 answers from respondents across Europe, all of whom are actively involved and participating in EU projects. Their results stressed on the importance of social media for project related work and communication:

#### 7. Dissemination actors

Within the consortium of partners, WP11 will take the responsibility for coordinating communication and dissemination activities and report the results to the PoshBee coordination team. All partners are expected to take part in the dissemination activities and actively contribute to popularise the project and its outcomes.

#### 7.1 Dissemination leader

Pensoft as the leader of WP11 will be leading dissemination efforts during the lifetime of PoshBee. As the dissemination leader Pensoft will be expected to:

- 1. Coordinate and monitor all dissemination activities.
- 2. Organize dissemination activities on all project levels.
- 3. Encourage partners to initiate and to participate.
- 4. Reach out and establish working contacts with relevant activities.
- 5. Ensure regular quality content for the various dissemination channels within this strategy.

#### 7.2 Partners with active engagement in the dissemination process

While all partners will contribute to project dissemination, several institution will have a larger role within WP11 and the preparation and execution of various aspects of this Communication strategy and dissemination plan.

- As a leader of WP10, the University of Reading will be heavily involved in the development of targeted and relevant content for PoshBee's policy briefs.

- The University of Bern will assist the communication leader by serving as a liaison between the project and the COLOSS network to reach out to more than 900 scientists from over 90 countries worldwide.
- The University of Mons will be responsible for training and will thus support the communication leader in the development of tailored training materials and social media campaigns concerning these activities.
- The coordinator Royal Holloway and Bedford New College will play a large role in overseeing all major communication outputs.

#### 7.3 Dissemination at all partners level

To ensure the broadest impact and highest level of dissemination, all partners will be actively engaged in the dissemination process by:

- 1. Use of their own personal and/or institutional networks and websites to promote the project.
- 2. Take advantage of relevant conferences to present the project results and distribute dissemination materials. For this purpose, person months were allocated to all partners according to the dissemination effort to be done.
- 3. Providing content to the dissemination team. Dissemination activities will be reported through a specifically designed feature of the project's Internal Communication Platform (ICP).

The communication within the project consortium will be in English. However, most partners will be communicating to local stakeholders and disseminating project results and conclusions in their native languages. They will be encouraged to produce their own language versions of flyers, newsletters, fact sheets and popular summaries of project results.

## 8. Timing and frequency of delivery

The following plan outlines baseline activities and frequencies:

Brochure and poster- every time substantial new results come out, the project will develop an updated version of the project flyer and poster.

Press releases – roughly 1 press release per year (this number is a subject to change in accordance with the necessities of the project).

- Press pack –updated each year to include new information and multimedia materials as they come.
- Electronic newsletter 1 every year
- News and Events on the website: minimum 1 per month
- Social networks activity: minimum 2 posts per week
- Attendance at conferences: minimum 5 per year
- Publications in relevant media minimum 2 per year

More information on the different promotional materials and PR practices and timings is also available in D11.1 Branding products, promotional materials, website, social network profiles, project communication platform, and online libraries.

#### References

European Commission (2020). H2020 Programme: Guidance Social media guide for EU funded R&I projects. *EC, 07.01.2020*. Available at:

https://ec.europa.eu/research/participants/data/ref/h2020/other/grants\_manual/amga/soc-medguide\_en.pdf

Hysa, B. & Spalek, S. (2019). Opportunities and threatspresented by social media inproject management. Heliyon, 5(4), 1-28. https://doi.org/10.1016/j.heliyon.2019.e01488

Pivec, M. & Maček, A. (2019). Employment background influence on social media usage in the field of European project management and communication. Journal of Business Research, 94, 280-289. https://doi.org/10.1016/j.jbusres.2018.03.021

Potts S.G., Breeze T., Cini E., Senapathi D. (2019). *Report on the knowledge exchange and impact strategy for PoshBee*. Deliverable D10.1 EU Horizon 2020 PoshBee Project, Grant agreement No. 773921.

Sapundzhieva, A., Kuzmova, I. & Stoev, P. (2018). *Branding products, promotional materials, website, social network profiles, project communication platform, and online libraries.* Deliverable D11.1 EU Horizon 2020 PoshBee Project, Grant agreement No. 773921.

# **Annex 1: Twitter accounts of interest**

This list will be reviewed and updated at each reporting period when success of social media use is assessed

**Update**: 14 May 2021

Name	Twitter handle	Short bio/Presentation	Following/Follo wers	Direct link
		Institutions:		
HighlanderLab	@HighlanderLa b	Research lab on managing and improving populations	3/33	https://twitter.com/Highlan derLab
The Roslin Institute	@roslininstitute	Investigating animal genetics, welfare, and diseases; Dollythe Sheep was born there	582/ 6,330	https://twitter.com/roslinins titute
Department of Agricultural Economics UGent	@AgEconUGent	-	167/ 130	https://twitter.com/AgEcon UGent
Ghent University Research	@ResearchUGe n	Giving you a taste of all the wonderful research @ugent while providing information & an online community for our researchers.	1,426 / 8,459	https://twitter.com/Researc hUGent
Newbattle Abbey College	@NewbattleTw eets	Newbattle Abbey College, Scotland's life changing college and Events Venue	1,228/ 817	https://twitter.com/Newbat tleTweets
Naturalis Biodiversity Center	@Naturalis_Sci	We are the national natural history institute in The Netherlands with almost 200 researchers, a museum, and a collection of more than 42 million specimens	675/ 2,148	https://twitter.com/Naturali s_Sci

Faculty of The faculty of Bioscience 360/ @FbwUGent https://twitter.com/FbwUG Bioscience **Engineering at Ghent** <u>ent</u> **Engineering UGent** University 1,415 **CSEOL** @CSEOLab Citizen Science Earth https://twitter.com/CSEOLa 2,471/ Observation Lab. Fasttracking great ideas to 654 @ESA -funded projects. Centre for @CFE\_UC The Centre for Functional 630/ https://twitter.com/CFE\_UC **Functional Ecology** Ecology (CFE) is a research unit funded by 568 FCT and hosted by the Faculty of Sciences and Technology of the University of Coimbra. **EU** Agriculture @EUAgri Food, farming and the https://twitter.com/EUAgri 967/ future of agriculture 🤏 Sowing the seeds of EU 80 700 Agriculture & Rural Development policy EU #FutureofCAP 🚨🦄 **EU Environment** @EU\_ENV https://twitter.com/EU\_ENV The official account for 37 100/ @EU Commission Directorate-General for 114 000 Environment (DG ENV). Rts and likes are not necessarily endorsements. **EU Climate Action** @EuClimateActi The Directorate-General 28 600/ https://twitter.com/EUClima for #ClimateAction (DG teAction CLIMA) is responsible for 96 500 the @EU\_Commission 's international & domestic activities fighting #climatechange Methods in Ecology @MethodsEcolE MEE is a scientific journal https://twitter.com/Method 10 300/ and Evolution vol promoting new methods sEcolEvol in #Ecology & #Evolution, 25 800 and facilitating their dissemination and uptake by the #Research community. NGOs/Associations/Clubs:

@EIPAGRI SP The European Innovation EIP-2,193/ https://twitter.com/EIPAGRI S AGRIServicePoint Partnership on P **Agricultural Productivity** 5,605 & Sustainability (EIP-AGRI) wants to help innovations spread across the EU faster **CEJA** @\_CEJA\_ European Council of 1,156/ https://twitter.com/ CEJA Young Farmers // Conseil Européen des Jeunes 5,027 Agriculteurs NewbattleBees @NewbattleBee Working to train new, and 4,617/ https://twitter.com/Newbattle experienced beekeepers **Bees** at the Bee Academy in 1,270 the historic setting of **Newbattle Abbey** https://twitter.com/GI\_Scotla Green @GI\_Scotland The Green Infrastructure 398/ Infrastructure Strategic Intervention nd Strategic aims to improve 477 Intervention Scotland's urban environment by increasing and enhancing greenspace in our towns and cities. The Central @csgreennetwo The Central Scotland 718/ https://twitter.com/csgreenne Scotland Green rk Green Network will twork Network change the face of Central 2,832 Scotland, by restoring and transforming the landscape. Scottish GI Forum @ScottishGIF The Forum is a group of 493/ https://twitter.com/ScottishGI organisations, businesses F and individuals interested 703 in promoting and encouraging the building of Green Infrastructure Our vision is for wellbeing Ecosystems @EcosystemsNe 1,711/ https://twitter.com/Ecosystem Knowledge Network and prosperity for <u>sNet</u> everyone through a 2,335 healthy #environment. Tackling poverty in Bees for @BeesForDev 2,496/ https://twitter.com/BeesForD Development developing countries with ev low-cost sustainable 5,259 beekeeping

Bees Abroad @BeesAbroad We are all beekeepers 319/ https://twitter.com/BeesAbro and we are all volunteers. We relieve poverty 1,606 through beekeeping. Scottish Beekeepers @Scotbeekeepe **Scottish Beekeepers** https://twitter.com/Scotbeeke 1,522/ Association (SBA) Association (SBA) charity rs epers charity aims to promote 1,451 honeybee conservation, beekeeping & honeybee products across Scotland Glasgow & District @GlasgowBees Glasgow & District 182/ https://twitter.com/GlasgowB Beekeepers' Beekeepers Association ees Association founded 1918 by Peter 394 Bebbington, is over 100 years old Ayr Beekeepers @AyrBeekeeper Ayr & District Beekeepers 32/ https://twitter.com/AyrBeeke Association is the local <u>epers</u> beekeeping association in 256 South Ayrshire and is affiliated to the Scottish **Beekeepers Association** K&DBA @KilbarchanBee Kilbarchan & District 221/ https://twitter.com/margaretg **Beekeepers Association** <u>inman</u> 526 The Bee Effect @beeeffect201 The Bee Effect is all about 147/ https://twitter.com/beeeffect action to effect change in 2017 the threat against honey 45 bees through awareness & education, and bee food diversity programmes. https://twitter.com/The\_Buzz The Buzz Club @The\_Buzz\_Clu A charity associated with 678/ **Sussex University** \_Club undertaking nationwide 1,459 citizen science to generate usable data on UK insects (specifically bees and pollination) Ldn Beekeepers @LondonBeeKe https://twitter.com/LondonBe Serving bee keepers & 3,505/ conservation enthusiasts Assoc eper <u>eKeeper</u> in London. 7,430

Apimondia	@apimondia	#Apimondia is the International Federation of #Beekeepers' Associations and apiculture sector since 1895	1,633/ 4,199	https://twitter.com/apimondia
Eva Crane Trust	@EvaCraneTrus t	The Trust aims to advance the understanding of bees & beekeeping. A grant awarding organisation supporting bee science & bee projects around the world.	907/ 1,295	https://twitter.com/EvaCraneT rust
IBRA	@IBRA_Bee	IBRA - promotes the value of bees by providing information on bee science & beekeeping worldwide. Non-profit / Charity 209222	3,181 /6,054	https://twitter.com/IBRA_Bee
ввка	@britishbee	This is the page for the British Beekeepers' Association, a national charity supporting bees and beekeepers.	833/ 13.1K	https://twitter.com/britishbee
International Commission for Plant-Pollination	@ICPPR_XI	The ICPPR promotes & coordinates research on relationships between plants and pollinators. The ICPPR is one of the 82 scientific commissions of the IUBS.	129/ 86	https://twitter.com/ICPPR_XI
Project Maya	@projectmaya	Cutting edge project founded by scientists. We are creating a global network of #permaculture reserves.	7,142/ 6,543	https://twitter.com/projectma <u>ya</u>
The World Bee Project CIC	@worldbeeproj ect	Using AI and IoT to monitor bee health and merge environmental, social and economic benefits to impact Pollinators, People, and the Planet.	5,426/ 5.537	https://twitter.com/worldbee project
Biodiversity Ireland	@BioDataCentr e	Explore wildlife in your area at:	651/ 22 700	https://twitter.com/BioDataCe ntre

http://maps.biodiversityir eland.ie The Yield Lab @ TheYieldLab Enabling entrepreneurs to 1,931/ https://twitter.com/TheYieldL revolutionize agrifood ab systems, globally. Our 5,045 #resources include: our #global #network; #mentors; #funding; #agrifoodtech #agtech #VC AllIrelandPollinator @PollinatorPlan Working with all sectors, 2,492/ https://twitter.com/Pollinator Plan including Councils, Plan Businesses, Schools, 4,816 Communities, and Farmers to help pollinating insects. Implementation by @BioDataCentre UrbanBeeNetwork @UrbanBeeNet Interested in urban bees, 1,737/ https://twitter.com/UrbanBee work small scale beekeeping, Network protecting pollinators and 4,091 promoting green living in the city. **Urban Pollinators** @BrisUrbPolls University of Bristol team 1,095/ https://twitter.com/BrisUrbPol for the Urban Pollinators ls Project. Funded through 3,532 the Insect Pollinators Initiative, led by University of Bristol Individuals: Sofia V. Dias @SofsVDias **Conservation Biologist** 61/ https://twitter.com/SofsVDias and Environmental Educator from Lisbon 5 @GregorGorjan **Gregor Gorjanc** Quantitative geneticist 1,743/ https://twitter.com/GregorGor managing and improving janc populations: 1,088 @HighlanderLab, @RoslinInstitute & @TheDickVet

Research Programme 1,745/ Maria José Amaral @biomaram https://twitter.com/biomaram Officer at @EU H2020 Interested in #biodiversity 834 #sustainability #sciencepolicy #scicomm Gaëlle Le Bouler @GaelleLeBoule Project adviser #EASME, 227/ https://twitter.com/GaelleLeB H2020 Environment and ouler Resources. 424 Erik Pentimalli @EPentimalli Project Adviser 245/ https://twitter.com/EPentimall #EcoInnovation #EASME i 271 Mario Pagnotta @pagnotta\_mar Degree in Agriculture at 29/ https://twitter.com/pagnotta\_ Perugia Univ. 1984, PhD io mario in Genetic Ecology at 20 Reading Univ. (UK) 1991. Research Associate at ICARDA 1986-1991 @frariva\_riva 74/ Francesco Riva Biologico, agroecologico e https://twitter.com/frariva\_riv dalla parte degli agricoli. a 239 Ferroni Franco @FerroniFranco Dr. in Natural Sciences 561/ https://twitter.com/FerroniFra Conservation of Nature nco and its Resources 693 David De Pue @DpDaaf 791/ https://twitter.com/DpDaaf 840 Steven Rogge @StevenRogge 2,700/ https://twitter.com/StevenRog ge 1,171 Fien Minnens Researcher at Ghent https://twitter.com/FienMinne @FienMinnens 360/ University 146 **Scott Shanks** @ScottShanks0 744/ https://twitter.com/ScottShan 1 ks01 845 **Emilie Wadsworth** @emilie\_csgn Based within CSGNT, I 174/ https://twitter.com/emilie\_csg work on issues relating to n biodiversity, green 307

infrastructure and community food growing @MattBradbury CEO Nene Park Trust. 2,777/ https://twitter.com/MattBrad Matthew Bradbury 01 Chair of The Parks bury01 Alliance & Director BMC 1,058 & ACT. Advocate of parks, wildlife/wildplaces and 'space' **Ruth Anderson** @RRudiB1 113/ https://twitter.com/RRudiB1 71 **Brigit Strawbridge** @B\_Strawbridg 6,551/ https://twitter.com/B Strawbr Howard idge 25K Michał Filipiak @MichaelFilipia Environmental biologist / 352/ https://twitter.com/MichaelFil ecosystem ecologist <u>ipiak</u> 212 Prof. Jeff Ollerton @JeffOllerton https://twitter.com/JeffOllerto **Professor of Biodiversity** 2,926/ with teaching and <u>n</u> research interests in the 4,107 ecology, evolution, and conservation of life on earth, especially plants and pollinators Dr Linda Birkin @LJBees Entomologist; particularly 170/ https://twitter.com/LJBees interested in urban ecology, wildlife 641 gardening in small spaces, and ecological outreach. @earthFgarden 8,028/ John Walker Kew-trained gardening & https://twitter.com/earthFgar environment writer dener 8,320 Marten Schoonman @mato74 beep.nl #beehealth 3,455/ https://twitter.com/mato74 platform | 2,996 @BGood\_H2020 project

r	r			<b></b>
Wim Verbeke	@WimVerbeke1	Professor of Agro-Food Marketing and Consumer Behaviour at Ghent University, Department of Agricultural Economics (Belgium)	56/ 241	https://twitter.com/WimVerb eke1
Amelie Cant	@ameliecant	Oceanic and Continental Environments and Paleoenvironments Team LTPC Former Senior Scientist @ReseauES	203/ 53	https://twitter.com/ameliecan <u>t</u>
Ana Rodrigues	@ARamosRodri gues	Pollinator ecology and conservation, currently studying the impacts of agricultural land-use change on bumblebees	310/ 65	https://twitter.com/ARamosR odrigues
Lj. Stanisavljevic	@ljstanis	Professor at University of Belgrade - Faculty of Biology Chair of Center for Biology of Bees	119/ 27	https://twitter.com/ljstanis
Marguerite Matherne	@mmatherne6	PhD student  @GeorgiaTech  studying biological fluid  mechanics, specifically  mammal tails and honey  bees.	73/ 62	https://twitter.com/mmathern <u>e6</u>
Dr Ana Attlee	@DrAnaAttlee	#entrepreneur #ecopreneur 🖫 #CEO  @collingwoodldn  collingwood property  @seed_ball  @projectmaya	8,296/ 8,912	https://twitter.com/DrAnaAttl <u>ee</u>
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Sarah Rotz @Sarah\_Rotz Geographer of political 1,233/ https://twitter.com/Sarah Rot ecologies of food & land. Z she/her. settler. organizer 623 for food, water, climate justice Pedro Jordano @pedro\_jordan #IAmANaturalist, an 655/ https://twitter.com/pedro\_jor evolutionary ecologist, dano working on how 2,666 ecological interactions shape complex ecological systems. **Heather Briggs** @briggs\_bee Insect behavior, 678/ https://twitter.com/briggs\_be Pollination Biology, Species Interactions, 333 Mutualism. she/her **Richard Comont** @RichardComo Naturalist, entomologist 1,094/ https://twitter.com/RichardCo nt and author. Member of mont the UK Ladybird Survey & 5,514 Garden Bioblitz teams, now lead the Bumblebee Conservation Trust's science programme. **Gavin Broad** @BroadGavin Principal curator in charge 355/ https://twitter.com/BroadGavi of insects 1,644 @NHM\_London Steven Falk @StevenFalk1 Naturalist with passion 169/ https://twitter.com/StevenFal for invertebrates, trees, <u>k1</u> habitats etc. 6,840 Richard Fox @RichardFoxBC https://twitter.com/RichardFo **Associate Director** 271/ Recording & Research xBC@savebutterflies UK. 7,180 Sightings, science & conservation. Martin Warren @martinswarre Butterflies, moths, 429/ https://twitter.com/martinswa conservation, Europe. rren Head of Development at 4,504 **Butterfly Conservation** Europe. Dara Stanley @DaraStanley Scientist. Ecology & https://twitter.com/DaraStanl 941/ biodiversity; entomology; ey insect-plant interactions; 1,952 bees & pollination.

Lecturer/Assistant Professor @UCDdublin Clare Flynn @wildaboutnat PhD student (bees) VC45 342/ https://twitter.com/wildabout Joint County Recorder nature (Bees) 537 Myles Menz @myles\_menz **Ecologist** 576/ https://twitter.com/myles\_me nz 439 **Kristal Watrous** @melittophile Entomologist, research 1,746/ https://twitter.com/melittophi tech specializing in bees. 1,564 Dr. Hollis Woodard @bee\_witcher I lead a research group @ 772/ https://twitter.com/bee\_witch UC Riverside that uses er molecular + experimental 2,005 approaches to study bumblebees. **Professor of Evolutionary** Octavio S. Paulo @OctavioSPaulo 763/ https://twitter.com/OctavioSP Biology and Genomics at <u>aulo</u> the University of Lisbon 299 https://twitter.com/MendesG @MendesGRaq **Raquel Mendes** PhD student of 169/ **Evolutionary Biology** Raquel uel (BIODIV) at Univ. of 89 Lisbon Filipa Grilo @grilo\_filipa #PhDstudent at cE3c -404/ https://twitter.com/grilo filipa Centre for Ecology, **Evolution and** 117 **Environmental Changes** Edna Correia @ednarcorreia Ecologist, Ornithologist 295/ https://twitter.com/ednarcorr <u>eia</u> 291 https://twitter.com/phytomon Paul Egan @phytomonste Ecologist @\_SLU 1,127/ ster 722 Laura Russo @Irusso08 Botanist/Entomologist/Ec 332/ https://twitter.com/lrusso08 ologist 455

496/ Robert R. Junker @rr\_junker ecology | evolution | https://twitter.com/rr junker communities | plantanimal-bacteria 433 interactions | ecosystems | multidiversity | statistics @UniSalzburg @miguel\_flf Miguel Ferreira Biologist | Science 260/ https://twitter.com/miguel\_flf Communicator | PhD Student 157 @CFE\_UC @UnivdeCoimbra João Loureiro @jloureiro\_13 co-PI @cfe\_FLOWerLab https://twitter.com/jloureiro\_ 1,292/ <u>13</u> 374 **Beatriz Robles** @beatrizcalidad Tecnóloga alimentaria y 1,600/ https://twitter.com/beatrizcali D-N. Docente dad @ui1Universidad. 21 200 Divulgo en @elcomidista ,@materia\_ciencia ,@eroskiconsumer, @saludsinbulos, @SaberVivirTVE y mi blog Collie Ennis @collieennis Owner/Co host of 2,366/ https://twitter.com/collieennis @CritterShedPod. Science officer for 10 400 @HerpSocIreland. Zoology research associate @TCD\_NatSci . Security officer TCD. Angler. Pugilist. Nerd. Sheila Colla @SaveWildBees Asst Prof @YorkUEUC 4,577/ https://twitter.com/SaveWildB YorkU Research Chair Interdisciplinary 6,510 **Conservation Science** @LiberEroFellows alum #AcademicMama #MarginSci #GND #COVIDZero She/Her @LynnDicks Ecology Lecturer, Uni of https://twitter.com/LynnDicks Lynn Dicks 2,448/ Cambridge + UEA, UK; Fellow @Selwyn1882. 4,441 Leads agroecology group @CamZoology. Entomology, agriculture,

		evidence-based conservation.			
		EU H2020 Participar	nts:		
RECAP H2020 Project	@RECAP_H2020	The Project's aim is to develop and pilot test a platform for improving the efficiency and transparency of the compliance with the Common Agricultural Policy.	282/ 457	https://twitter.com/RECAP_H2 020	
PLAID	@PLAID_project	The aim is to improve access to demonstration activities on commercial farms, to boost knowledge exchange and innovation	862/ 717	https://twitter.com/PLAID_pro ject	
Fertinnowa	@fertinnowa	A knowledge exchange platform to evaluate existing and novel technologies for irrigated and fertigated crops.	422/ 523	https://twitter.com/fertinnow a	
Smart AKIS Network	@smart_akis	Smart Farming Thematic Network. Embracing Smart Farming in Europe	1,900/ 2,170	https://twitter.com/smart_aki <u>S</u>	
loF2020	@loF2020	IoF2020 facilitates the uptake of #IoT in the European food & farming sector •	1,233/ 2,492	https://twitter.com/loF2020	
AgriLink2020	@AgriLink2020	It aims to develop better understanding of the role of farm advice in farmer decision-making and innovation	407/ 666	https://twitter.com/AgriLink20 20	
BRESOV_EU	@BRESOV_EU	It aims at shaping the future of plantbreeding for the organic sector	693/ 453	https://twitter.com/BRESOV_E U	
SiEUGreen	@sieugreen	It aspires to enhance the EU-China cooperation on urban agriculture	1,992/ 535	https://twitter.com/sieugreen	

792/ EU Eco-innovation @EU\_ecoinno Climate Action, https://twitter.com/EU ecoin Environment, Resource Efficiency&Raw Materials 19K programmes H2020 project aiming to @excalibur\_h20 https://twitter.com/excalibur\_ **EXCALIBUR** 65/ exploit the h2020 20 multifunctional potential 22 of belowground biodiversity LIVESEED @LIVESEEDeu It aims to boost Organic 491/ https://twitter.com/LIVESEEDe Seed and Organic Plant Breeding efforts with 49 855 partners across Europe. **UNISECO** project @ProjectUnisec 463/ https://twitter.com/ProjectUni A H2020 project aiming at understanding and seco improving the 269 sustainability of agroecological farming systems in the EU **ReNature Project** @ReNature H2 #H2020 project 180/ https://twitter.com/ReNature 020 promoting research H2020 excellence in 1,301 #naturebasedsolutions for #innovation, #sustainable economic growth & human wellbeing in #Malta Seedling (GA No 809988) @H2020 FAIRs 790/ https://twitter.com/H2020\_FA H2020 FAIRshare @EU H2020 project • Farm Advisory digital **IRshare** hare Innovation tools Realised 884 and Shared H2020SUPER-*G* @H2020SuperG **Developing SUstainable** https://twitter.com/H2020Sup 1,679/ **PERmanent Grassland** systems and policies 660 Deciduous tree Leaf fluttering in wind • @EU\_H2020 project • http://super-g.eu @effectH2020 415/ https://twitter.com/effectH20 **EFFECT** EFFECT is a #H2020 project. We develop #agricultural and 501 #environmental contracts, combining needs of local #farmers

		and #climate public goods.		
		Others:		
Beekeeper Tips	@BeekeeperTip s	Beekeeping advice, quotes and sayings	2,551/ 1,029	https://twitter.com/Beekeepe rTips
Pollinators	@ScotPollinator s	Updates on pollinators and pollinator projects from around Scotland.	260/ 461	https://twitter.com/ScotPollin ators
-	@Brillianto_GI	Green Infrastructure by Ingo Schüder Brillianto	3,288/ 4,973	https://twitter.com/Brillianto GI
Little Green Space	@LGSpace	Award-winning project/magazine for green living, solutions, action. Creating green spaces for people, wildlife, nature	20.3к/ 31.5К	https://twitter.com/LGSpace
Green Adventures	@GreenTravelM ag	Online magazine	15.4K/ 15.6K	https://twitter.com/GreenTrav elMag
Beecraft	@BeeCraftMag	The Informed Voice of British Beekeeping. Britain's best-selling beekeeping magazine.	2,193/ 7,810 F	https://twitter.com/BeeCraft <u>Mag</u>
Api:Cultural	@apiculturalLdn	Ecologist & beekeeper.  Beekeeping & wild  pollinator conservation  consultancy working with  businesses &  communities to benefit  London's pollinators	608/ 1,257	https://twitter.com/apicultural Ldn
National Honey Show	@nathoneysho w	The National Honey Show 24th October - 26th October 2019 at Sandown Park Racecourse, Esher, Surrey	272/ 2,145	https://twitter.com/nathoneys how

https://twitter.com/TheBeeM The Bee Man @TheBeeMan2 Queen Breeder & seller 946/ based in Scotland we also an2 run #beekeeping courses 3,355 YouTube videos The Beeman TV DrBeekeeper @DrBeekeeper Doctor | Beekeeper | 953/ https://twitter.com/DrBeekee Advocate We fell in love per with bees when we 2,464 realised the health benefits of raw honey medno.mk @MednoMk Macedonian web-portal 1,448/ https://twitter.com/MednoMk about honey bees and beekeeping 124 Journalof ExpBiol @J\_Exp\_Biol Journal of Experimental 430/ https://twitter.com/J Exp Biol Biology is the leading journal in integrative and 3,348 comparative physiology. @N8agrifood The N8 AgriFood N8 AgriFood 807/ https://twitter.com/N8agrifoo Resilience Programme focused on the stability & 1,739 integrity of agri-food supply chains in the face of environmental & socioeconomic challenges. **NHM Bees** @NHM Bees Bee Curator David Notton 3,495/ https://twitter.com/NHM\_Bee 7,150 **Evolutionary Evolutionary Genetics** 15/ https://twitter.com/egce3c @egce3c Genetics @ cE3c research group from 59 @CE3CResearch AbejasSilvestres @Abeja\_Silvestr Iberian Peninsula bees 56/ https://twitter.com/Abeja\_Silv <u>estre</u> 974 biophilliabotany @biophilliabod Connecting with nature 224/ https://twitter.com/biophilliab #biophilia | Wildflower Cons. Bumblebee/Solitary 2,123 Bee/Pollinator/Wildlife & Meadowlands guardian.

\_\_\_\_\_