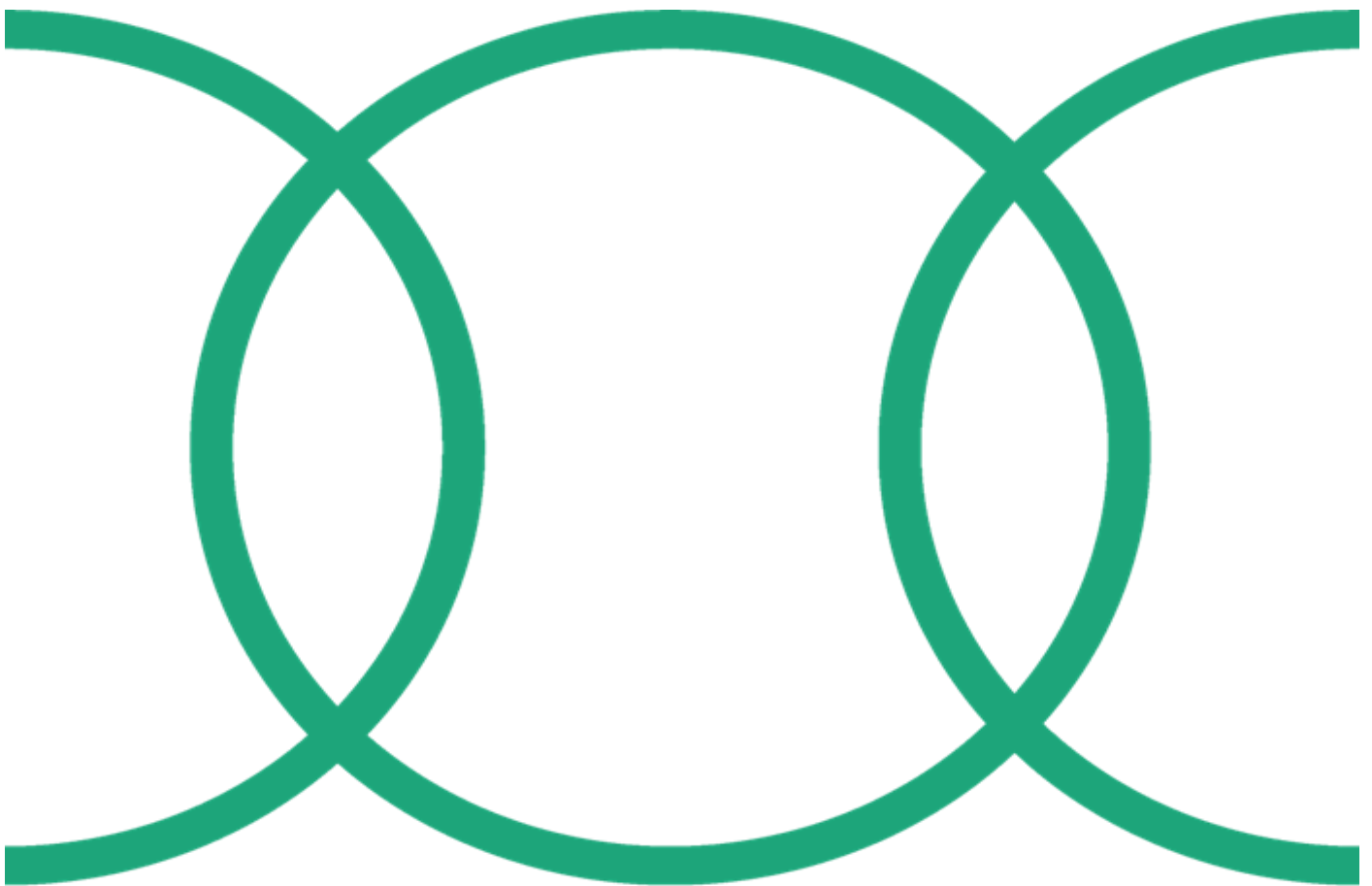


# D2.1 Action plan for capacity building material and activities and selected formats, channels and practical knowledge to be transferred as capacity building at national level



# Document control sheet

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<b>Author</b>	Maria Mercedes Caron
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## Executive Summary

Deliverable D2.1 "Action plan for capacity-building material and activities and selected formats, channels, and practical knowledge to be transferred as capacity-building at the national level" outlines the process used to evaluate, based on experts' and local stakeholders' opinions, the 175 innovations collected in the context of the FOREST4EU project and to select the most relevant ones for producing capacity-building material to be disseminated across the nine project partner countries (Croatia, Portugal, Spain, Latvia, Italy, Germany, Finland, France, and Slovenia). Moreover, this document indicates how the capacity-building material linked to each innovation will be developed by each partner in a specific format to be conveyed through a specific channel. Due to the size of this task, the innovations for which capacity-building material has to be developed are divided into three batches, and in each batch, a number of innovations were assigned to each partner for them to create the capacity-building material in the indicated format, for a specific channel, and tailored to a specific audience. Additionally, D2.1 provides a timeline for the development of the three batches of capacity-building material and detailed information about the operational groups (OGs) considered the most relevant to be visited in the context of the FOREST4EU's study visits. Finally, this deliverable outlines the strategy that will be followed to evaluate the uptake of the capacity-building material developed for each innovation.

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# 1. Introduction

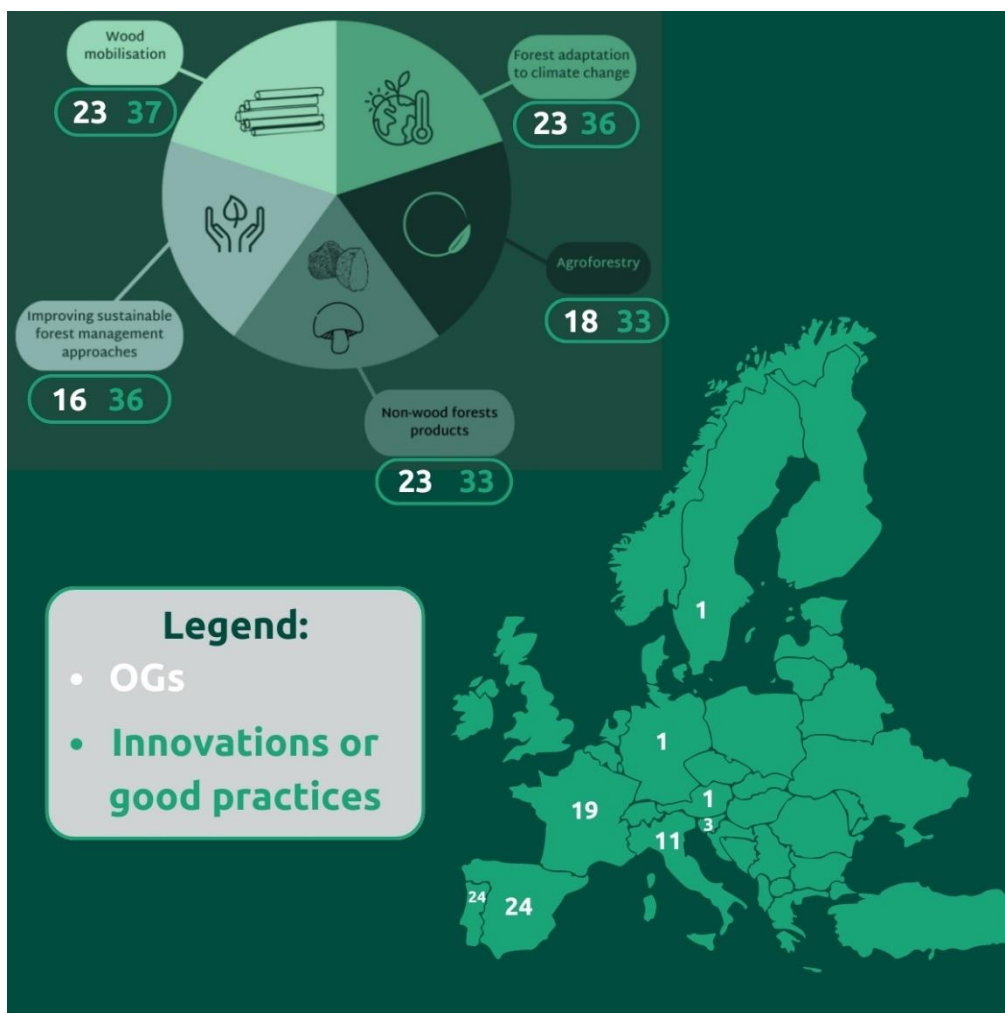
The main goal of D.2.1 is to present the action plan for developing capacity-building material and related activities in the context of the FOREST4EU project. This plan covers identifying key innovations and practical knowledge for which capacity-building material has to be created and shared in each country, as well as determining the most effective format and channel for conveying each material to the intended audience. A thorough overview of the steps, strategies, responsibilities, and timelines to successfully develop the capacity-building material and other activities within the FOREST4EU project is provided in this document.

The creation of high-quality capacity-building material to convey innovations and good practices developed by operational groups (OGs) funded by the EPI-AGRI initiative is highly important in the European forestry and agroforestry sector as this knowledge is normally only available in the local language. However, such innovations and good practices should be shared across Europe as they can help to reach the Green New Deal, the EU Forest Strategy, and the biodiversity strategy goals. Moreover, the creation of capacity-building material is highly important as they can contribute to enhancing knowledge, skills, and practices among stakeholders, promoting sustainability, supporting policy implementation, empowering communities, fostering innovation, and addressing environmental challenges. Overall, the development of capacity-building material based on innovations and good practices can contribute to building a more resilient and sustainable future for the forestry and agroforestry sector in Europe.

Creating capacity-building material for the forestry and agroforestry sector requires a methodical approach to guarantee they are effective and suitable for the target audience. In the upcoming sections, we outline the necessary steps, responsibilities, and timelines to produce comprehensive capacity-building material based on the innovations and best practices developed by EPI-AGRI OGs collected in WP1 within the FOREST4EU project.

## 2. Evaluation of innovations

In the context of FOREST4EU, 175 innovations developed by 86 EPI-AGRI OGs from Portugal, Spain, France, Italy, Slovenia, Latvia, Austria, Germany, The Netherlands, and Sweden were collected by contacting the coordinator of the OGs. These innovations were assigned to one of the 5 different ITHubs: ITHub 1: wood mobilization, ITHub 2: Adaptation to climate change, ITHub 3: Sustainable forest management and ecosystem services, ITHub 4: Non-wood forest products and ITHub 5: Agroforestry (Figure 1).

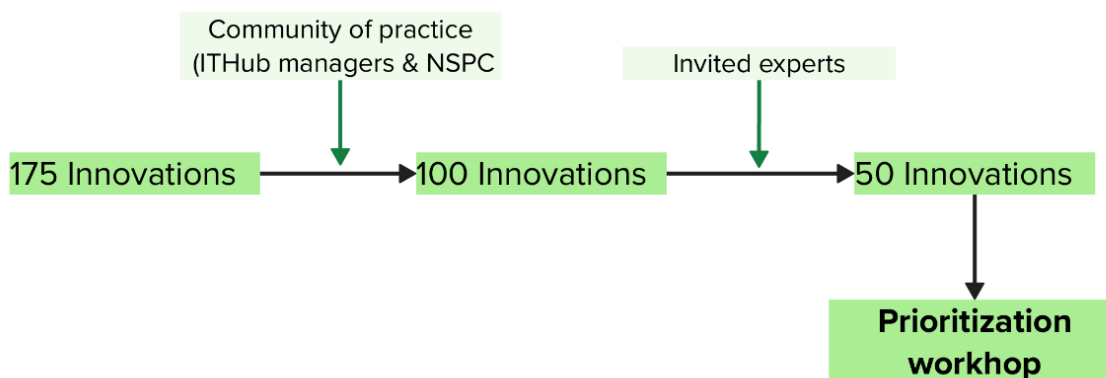


**Figure 1:** Overview of the innovations collected in the context of the FOREST4EU project and location of the OGs that developed them across Europe.

In the context of the FOREST4EU project, it is not feasible the creation of capacity-building material for all 175 innovations and good practices collected. Thus, it became imperative to pinpoint the most relevant innovations for each country, determine the target audience for conveying these innovations, and decide on the preferred format and channel for their dissemination. This process involved assessing the collected innovations and good practices through input from various stakeholders, including project partners, experts, and other relevant actors, as well as evaluating preferred channels and formats. The evaluation process was carried out consistently and systematically across the nine countries involved in the FOREST4EU consortium: Portugal, Spain, France, Italy, Germany, Croatia, Latvia, Slovenia, and Finland.

First, various formats and channels were assessed by gathering input from stakeholders in different countries through an online form. The aim was to identify their preferred formats and channels for receiving tailored capacity-building material. Additionally, information about the specific channels they prefer, such as a particular practitioner's magazine or YouTube channel was gathered. Next, the 175 innovations and good practices collected were evaluated in successive steps reducing the number of innovations from 175 to 50, retaining those that were considered most relevant and therefore a priority for the development of training and capacity-building material (see Figure 2 for the process overview). To this end, first the community of practice (FOREST4EU project partners: ITHub managers, National Single Point of Contact - NSPOC – and ITHub members) performed an initial evaluation of the innovations and based on their expertise discarded knowledge not suitable or not relevant enough for a given country. Additionally, the community of practice prioritized the innovations using a score from 1 to 5, assigning 1 to the innovations with the lower priority and 5 to the innovations with the higher one. From this first evaluation, the 20 innovations and good practices per ITHub that received the higher score (i.e. 100 innovations in total) were selected. Next, external experts from each country (e.g. researchers, advisers, past OGs coordinators, public servants,

practitioners with vast experience in one or more of the topics addressed by the ITHubs, etc.) were invited to examine, on voluntary basis, the collection of innovations that remain after the screening by the community of practice. The experts were asked to evaluate the innovations and discarded knowledge not suitable for a given country and prioritize the innovations using the same scoring system from 1 to 5 used by the community of practice (see above). Based on this evaluation a reduced list with the 10 more relevant innovations per ITHub and country remained. Finally, this reduced list of 10 innovations per ITHub was evaluated by relevant local stakeholders in national workshops (prioritization workshops) that took place in Italy, Spain, Portugal, France, Slovenia, Latvia, Germany, Finland, and Croatia between February and April 2024. During these workshops, in each country, the 10 innovations per ITHub (50 innovations in total) were evaluated and scored from 1 to 5 using the same scoring system as for the other evaluations. Additionally, for each innovation, the stakeholders suggested a preferred format, channel, and target audience to convey the capacity-building material to be developed for each innovation.



**Figure 1:** Scheme of the process of the evaluation of innovations until reaching the 50 innovations that were analyzed in the prioritization workshops.

### 3. Results of the evaluation of the innovations

The national workshops resulted in a reduced list of 5 innovations with the higher score per ITHub and country along with an indication of the preferred format, channel, specific channel, and target audience for the capacity-building material to be developed for each innovation (see results in Tables 1, 2, 3, 4, 5, 6, 7, 8 and 9).

Additionally, during the workshop, the local stakeholders they were interrogated about the barriers they face to uptake knowledge from foreign OG. In most of the cases the local stakeholders mentioned 1) Language Differences 2) Differing Processes and Procedures (variations in standard operating procedures can make the integration of foreign knowledge challenging) 3) Compatibility of Systems (incompatibility between IT systems and platforms used by different organizations can impede the exchange of information. 4) Access to Technology (variations in technological infrastructure and access can limit the ability to implement foreign knowledge), 5) Relevance and Applicability (foreign knowledge might not be directly applicable due to differences in local contexts and environments) and 6) Burocratic and law barriers. To help to overcome some of these barriers capacity building material tailored for the stakeholders from the project partner countries and other countries sharing the same language will be created and international field visits will be hosted favoring knowledge exchange.

**Table 1:** Results of national workshops in Croatia

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
ITHub 1	26	UAV to map growing stock volume for sharing forest management plan (GO-PRI.FOR.MAN)	4.3	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 1	28	Di-Gozd Digital Forest Inventory - Mobile app (Di-Gozd)	4.2	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 1	6	Creating Your Own Estate Plan Via The Online Portal (MojGozdar) (OG eGozd)	4.1	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 1	21	Web-based due diligence and traceability system for forest timber assortments (eGOZD)	4.1	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 1	20	Online tool for quality classification of round-wood (eGOZD)	4.1	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 2	11	UAV and multispectral camera to map stressed forest area (GO-SURF)	4.5	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 2	15	Course on GIS and Remote Sensing Data to monitor forest ecosystem (GO-SURF)	4.4	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;

ITHub 2	33	The "sustainable bee forest" concept and implementation (Bienenwald (bee forest))	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 2	6	Valorisation and energy use of precommercial thinning products in forest stands of Aleppo pine (Pinus halepensis) regenerated after forest fires (OG Aleppo Pine)	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 2	7	Chestnut forests management for quality products and promote C sequestration (CASTANI-CO)	3.8	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 3	23	Technology at the service of forest renewal - mapping with drone and GPS to stake out the stand (PIF)	4.2	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 3	18	Carbon accounting for PES (GO-FOR.TRACK)	4.2	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 3	34	Efficient Sampling Methodology for Calculating Soil Carbon Credits (CO2MARCHE)	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 3	3	The ARCHI method : a tool for diagnosing the vitality of trees (OG SPNA)	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 3	9	Support multi-object forest management plans through easy-access information (GO-PRI.FOR.MAN)	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;



ITHub 4	7	Establishing new business models with NWFP (Bienwald (Bee forest))	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 4	33	Improving productivity and sustainability of black truffle plantations by microbiological handling of the rhizosphere (not found (project of 2015))	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 4	22	Valorization of dried nuts with hard skin (ValNuts)	3.5	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 4	6	The Burgundy truffle, a quality product with high added value (OG BIJOU)	3.5	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 4	14	App Micontrol (OG MIKOGEST)	3.5	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 5	24	Criteria and indicators for the certification of the sustainable management of an agroforestry system PEFC (NEWTON)	4.2	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 5	21	Biological control of Chestnut blight ( <i>Cryphonectria parasitica</i> ) by virus infection (hypovirulence) (CASTANEA)	4.1	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 5	33	New management practices in rainfed olive groves (GO Olival)	3.8	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;

ITHub 5	13	Practitioner-oriented consulting for agroforestry systems in Austria (Agroforst in Österreich)	3.7	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
ITHub 5	31	Are short rotation coppice a solution in future regional biorafineries? (OG TCR)	3.7	e-mails, study visits, social networks (LinkedIn, Instagram, Facebook, X)	CEKOM e-mails; CEKOM social media channels	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;

**Table 2:** Results of national workshops in Italy

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
1	2	Standardization of available forest data: the first step to support wood mobilization in Friuli Venezia Giulia	4.2	Technical paper, webinar, video	Sherwood, websites regional authorities	Forest owners, advisors, public administrations, citizens
1	21	Web-based due diligence and traceability system for forest timber assortments	3.9	Webinar, video, technical paper	Sherwood, websites regional authorities	Value chain entities, forest technicians, forest owners, forest enterprises
1	3	PRI.FOR.MAN Dashboard: Overview of Wood Resources at NUT3 Level to Support Wood Mobilization and Value Chain	3.9	Video, tutorial	Sherwood, websites regional authorities	Forest owners, advisors, public administrations, citizens
1	6	Creating Your Own Estate Plan Via The Online Portal (MojGozdar)	3.9	Webinar, video, informative article,	Sherwood, Italian rural network, network of enterprises (eg Coldiretti, associazione pioppicoltori)	Forest owners, forest administrations
1	15	LVL (Laminated Veneer Lumber) of <i>fagus sylvatica</i>	3.8	Webinar, video, newsletter	Sherwood, FederLegno	Forest owners, wood transformation enterprise
2	5	Douglas-fir silvicultural management with strips cuttings to enhance natural forest regeneration	4.2	Brochure (online), video, technical article,	Mailing list ODAF, FOREST4EU, Compagnia delle Foreste	Public Administration, forest managers and forest owners, advisors
2	11	UAV and multispectral camera to map stressed forest area	4.2	Webinar, mailing list	Mailing list ODAF, FOREST4EU, SISEF	Forest technicians, advisors, forest managers, Ordine degli Agronomi

2	7	Chestnut forests management for quality products and promote C sequestration	4.2	Video and informative seminars, webinars, field demonstrations	Mailing list ODAF, FOREST4EU, SISEF	Public administration, category associations, Coldiretti, chestnut growers
2	12	Educational module 'foresters, it's your turn to play''	4.1	Events, summer retreats, social (tiktok), app online, video	Mailing list ODAF, FOREST4EU, SISEF	Schools
2	17	Application of SlideforMap for the hydrological risk assessment in sustainable managed forests	4.1	Technical article, webinar	Mailing list ODAF, FOREST4EU, SISEF	Experts/consortium/category associations
3	9	Support multi-object forest management plans through easy-access information	4.3	Brochure, podcast, webinars	Mailing list ODAF, FOREST4EU, SISEF	Regions, Public Administration, Territorial Entities
3	10	Community forest arrangement as ideal instance for the realization of the profit-sharing model of PRIFORMAN Project	4.3	Video (15 min, brilliant), podcasts, webinars	Social media, mailing list	Regions, Public Administration, Territorial Entities
3	36	Index of Biodiversity Potential (IBP): a practical tool for forest managers	4.0	Practical manual, technical article, webinars	Mailing list ODAF, FOREST4EU, Compagnia delle Foreste	Agricultural and forestry national associations, forest managers and forest owners
3	26	Using UAV photogrammetric data to support multi-objective forest management plans	3.7	Webinar, mailing list	Mailing list ODAF, FOREST4EU, SISEF	forest technicians, advisors, forest managers, Ordine degli Agronomi
3	32	Group Certification for Sustainable Forest Management: Promoting Shared Forest Management and Ecosystem Services Enhancement	3.6	Webinar, technical article, video	Mailing list ODAF, FOREST4EU, Compagnia delle Foreste, Forest Sharing, social media (TikTok)	Agricultural and forestry national associations, forest managers and forest owners
4	19	Endotherapeutic treatments with <i>Trichoderma</i> spp. to control fungal diseases in chestnut groves	4.3	Video tutorial, info graphic, webinar	Mass media or newsletter category associations, FOREST4EU website GO website, YouTube video Compagnia delle Foreste	CONAF, UNCEM, category associations, chestnut growers' associations, category associations, confindustria

4	17	Biological Treatment of cancer chestnut ( <i>Cryphonectria parasitica</i> ) in Portugal	4.0	Video tutorial, info graphic, webinar	Mass media or newsletter category associations, FOREST4EU website GO website, YouTube video Compagnia delle Foreste	CONAF, UNCEM, category associations, chestnut growers' associations, category associations, confindustria
4	4	Post harvest coatings from mushroom by products	3.8	Dissemination article, video, webinar	Generic journal (Informatore COOP)	Packaging companies, Value chain, industrial networks, mushroom hunters' associations,
4	5	Value the traditional chestnuts production	3.7	Video, dissemination article, technical article	Mass media or newsletter category associations, FOREST4EU website GO website, YouTube video Compagnia delle Foreste	CONAF, UNCEM, category associations, chestnut growers' associations, category associations, confindustria
4	18	Mobile kiln prototype for local biochar production	3.7	Video tutorial, info graphic, webinar	Mass media or newsletter category associations, FOREST4EU website GO website, youtube video Compagnia delle Foreste	Value chain, packaging companies, industrial networks, confindustria, transfer knowledge to architects for urban pruning
5	4	Use of Keyline for planting cork oaks and holm oaks in agro-forestry systems	4.1	Video tutorial, webinar, course	Agricultural magazine, Compagnia delle Foreste, Ordine dei Dottori Agronomi e Forestali	Forest owners, advisors, public administrations, category associations
5	10	Review assesses the state of the art regarding the use of livestock for ecosystem management in Mediterranean landscapes	3.6	Good practices manual, study visits, webinar, video	Agricultural magazine, Compagnia delle Foreste, Ordine dei Dottori Agronomi e Forestali	Advisors, researchers, public administrations
5	1	Increase and transfer knowledge to producers about the natural regeneration processes of cork oaks and holm oaks in agro-forestry systems in Alentejo region, Portugal.	3.5	Technical article, video, webinar	Compagnia delle Foreste, Ordine dei Dottori Agronomi e Forestali	Forest owners, category associations, advisors, researchers, public administrations
5	32	A feasible step-by-step plan with practical guidelines and concrete designs to enable the application of agroforestry on farms	3.4	Video, technical article	National Rural Network newsletter, Ordine dei Dottori Agronomi e Forestali	Advisors, farmers, category associations

5	33	New management practices in rainfed olive groves	3.3	Video, technical papers, webinar/study visits	Agricultural magazine, Compagnia delle Foreste	Advisors, farmers, category associations, public administrations
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**Table 3:** Results of national workshops in Slovenia

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
1	6	Creating Your Own Estate Plan With Online Portal MojGozdar	4.2	Website, journal, social networks	Gozdarski vestnik, Acta Silvae et ligni, Viharnik, social media	forest owners, scientists, farmers
1	5	A System for Quality Assessment of Forestry Contractors	4.1	Website, journal, social networks	Gozdarski vestnik, Acta Silvae et ligni, Viharnik, social media	forest owners, scientists, farmers
1	4	Assessment of Costs in Harvesting Systems using an Web-based Tool (WoodChainManager)	4.0	Website, journal, social networks	Gozdarski vestnik, Acta Silvae et ligni, Viharnik, social media	forest owners, scientists, farmers
1	15	LVL (Laminated Veneer Lumber) of beech trees	3.9	Website, journal, social networks	Gozdarski vestnik, Acta Silvae et ligni, Viharnik, social media	forest owners, scientists, farmers
1	20	Online tool for quality classification of round-wood	3.9	Website, journal, social networks	Gozdarski vestnik, Acta Silvae et ligni, Viharnik, social media	forest owners, scientists, farmers
2	12	Educational module 'foresters, it's your turn to play'	3.8	Website, journal, social networks	Gozdarski vestnik, social media, Gozd eksperimentov, school network	school, students, teachers, advisors
2	17	Application of SlideforMap for the hydrological risk assessment in sustainable managed forests	3.7	Website, journal, social networks	Gozdarski vestnik, Acta hydrotechnica	scientists, students, advisors
2	1	Bioclimsol : a decision support system integrating future climate and ground conditions	3.4	Website, journal, social networks	Gozdarski vestnik, Acta Biologica Slovenica	forest owners, students, advisors
2	11	UAV and multispectral camera to map stressed forest area	3.4	Website, journal, social networks	Gozdarski vestnik, Acta Silvae et ligni, Viharnik, social media	forest owners, scientists

2	33	The "sustainable bee forest" concept and implementation	3.3	Website, journal, social networks	Gozdarski vestnik, Acta Biologica Slovenica, social media, Viharnik	forest owners, public, administration
3	8	Carbon accounting for PES	3.7	Website, journal, social networks	Gozdarski vestnik	public administration, scientists
3	18	The ARCHI method : a tool for diagnosing the vitality of trees	3.6	Website, journal, social networks	Gozdarski vestnik, Viharnik	scientists, forest owners, students
3	36	Index of Biodiversity Potential (IBP): a practical tool for forest managers	3.5	Website, journal, social networks	Gozdarski vestnik, Gea, social media, Gozd eksperimentov	students, public, forest owners
3	29	Developing a Novel Martelloscope for Assessing Biodiversity and Growing Stock Volume with the aid of a Digital Twin	3.1	Website, journal, social networks	Gozdarski vestnik, mailing list,	students, scientists
3	9	Support multi-object forest management plans through easy-access information	2.9	Website, journal, social networks	social media	forests owners
4	29	Establishing new business models with NWFP	3.5	Website, journal, social networks	social media, Kmetovalec, agricultural websites	agricultural and forestry associations, forests owners, farmers, industry
4	17	Biological Treatment of cancer chestnut ( <i>Cryphonectria parasitica</i> ) in Portugal	3.3	Website, journal, events	Kmetovalec, social media, websites, Gozdarski vestnik, mailing lists, Viharnik	agricultural and forestry associations, forests owners, farmers, scientists
4	18	Mobile kiln prototype for local biochar production	3.3	Website, journal, events social networks	Kmetovalec, Silvae Biologica Slovenica, Varstvo gozdov Slovenije, social media, websites, Gozdarski vestnik,	agricultural and forestry associations, forests owners, farmers, scientists, biomass producers
4	21	Valorization of a neglected plant	3.1	Website, journal, events	Kmetovalec, Gozdarski vestnik, Gea	agricultural and forestry associations, forests owners, farmers, scientists
4	4	Post-harvest coatings from mushroom by products	3.1	Website, journal, events	Kmetovalec, Silvae Biologica Slovenica, social media, websites, Gozdarski vestnik, mailing lists	agricultural and forestry associations, forests owners, farmers, scientists, Industry, mushroom hunters

5	12	“Agroforestry in Austria” Network	3.4	Website, events, journal	Kmetovalec, Viharnik, websites, local journal	Farms, forest owners, local politics, administration
5	24	Criteria and indicators for the certification of the sustainable management of an agroforestry system PEFC	3.3	Website, journal, social media	Kmetovalec, Viharnik, websites, local journal, Gozdarski vestnik, mailing lists	Farms, forest owners, local politics, administration
5	13	Practitioner-oriented consulting for agroforestry systems in Austria	3.2	Website, journal, social media	Kmetovalec, Viharnik, websites, local journal	Farms, forest owners, local politics, administration
5	32	A feasible step-by-step plan with practical guidelines and concrete designs to enable the application of agroforestry on farms	3.1	Website, social media, journal	Kmetovalec, Viharnik, websites, local journal	Farms, forest owners, local politics, administration, advisor
5	17	Local densified log industry	3.0	Website, social media, journal	Kmetovalec, Viharnik, websites, local journal	Farms, forest owners, local politics, administration, public

**Table 4:** Results of national workshops in France

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
1	5	A system for Quality assessment of Forestry Contractors	4.3	email/newsletter, website, social media	Forêt en région, revue FNCOFOR, forêt et innovation, LinkedIn, Rendez-vous technique de l'ONF, forestopic, bois international, forêt de France, parlons forêt	Forestry advisors, managers, and experts
1	23	Prefabricated modular construction system made from Normandy hardwoods	4.0	website, video, events	Forêt en région, revue FNCOFOR, forêt et innovation, LinkedIn, Rendez-vous technique de l'ONF, forestopic, bois international, forêt de France, parlons forêt	Government services, businesses

1	21	Web-based due diligence and traceability system for forest timber assortments	4.0	technical review, website, social media	Forêt en région, revue FNCOFOR, forêt et innovation, LinkedIn, Rendez-vous technique de l'ONF, forestopic, bois international, forêt de France, parlons forêt	Government services, businesses
1	1	Growing Stock Volume Map to support forest operation planning	3.7	email/newsletter, website, technical review	Forêt en région, revue FNCOFOR, forêt et innovation, LinkedIn, Rendez-vous technique de l'ONF, forestopic, bois international, forêt de France, parlons forêt	Forestry advisors, managers, and experts
1	13	Sylv'éclair a decision support tool for thinning in pine plantation	3.7	technical review, website	Forêt en région, revue FNCOFOR, forêt et innovation, LinkedIn, Rendez-vous technique de l'ONF, forestopic, bois international, forêt de France, parlons forêt	Forestry advisors, managers and experts, teachers, and trainers
2	1	Bioclimsol : a decision support system integrating future climate and ground conditions	4.8	technical review, website	Forêt et innovation, reporterre net, le lien horticole, sciences et avenir, LinkedIn, Youtube, National géographique	R&D agents, forestry advisors, managers and experts, teachers and trainers, researchers
2	12	Educational module "foresters, it's your turn to play"	4.1	Website, social media, email/newsletter, video	Forêt et innovation, reporterre net, le lien horticole, sciences et avenir, LinkedIn, Youtube, National géographique	Forestry advisors, teachers, and trainers
2	17	Application of SlideforMap for the hydrological risk assessment in sustainable managed forests	3.7	Technical review, website, email/newsletter	Forêt et innovation, reporterre net, le lien horticole, sciences et avenir, LinkedIn, Youtube, National géographique	R&D agents, managers and experts, government services
2	21	Geosuber Tool - Monitorization of the vitality of cork oak stands	3.6	Technical review, website	Forêt et innovation, reporterre net, le lien horticole, sciences et avenir, LinkedIn, Youtube, National géographique	R&D agents, forestry advisors, managers and experts, researchers
2	2	Survey of atypical tree species in Normandy thought to be resistant to climate change	4.1	Email/newsletter, technical review, website, video	Forêt et innovation, reporterre net, le lien horticole, sciences et avenir, LinkedIn, Youtube, National géographique	R&D agents, forestry advisors, managers and experts
3	4	Vigil'encre : Participatory science tool for epidemiological surveillance of chestnut ink	4.4	Email/newsletter, technical review, website	Forêt et innovation, revue forestière française, Hal INRAE, cesbio, l'essentiel du drone, une revue carbone, RDVT ONF, LinkedIn	Farmers, R&D agents, forestry advisors, managers and experts, teachers and trainers, government services
3	23	Technology at the service of forest renewal - mapping with drone and GPS to stake out the stand	4.4	Technical review, website	Forêt et innovation, revue forestière française, Hal INRAE, cesbio, l'essentiel du drone, une revue carbone, RDVT ONF, LinkedIn	Forestry advisors, managers and experts, R&D agents



3	29	Developing a Novel Martelloscope for Assessing Biodiversity and Growing Stock Volume with the Aid of a Digital Twin.	4.4	Technical review, website, social media, video	Forêt et innovation, revue forestière française, Hal INRAE, cesbio, l'essentiel du drone, une revue carbone, RDVT ONF, LinkedIn	R&D agents, forestry advisors, managers and experts, researchers
3	1	Biomass accounting for Sustainable Forest Management Plans	4.2	Technical review, website, social media	Forêt et innovation, revue forestière française, Hal INRAE, cesbio, l'essentiel du drone, une revue carbone, RDVT ONF, LinkedIn	R&D agents, forestry advisors, managers and experts, farmers, businesses
3	34	Efficient Sampling Methodology for Calculating Soil Carbon Credits.	4.2	Press review, technical review, website	Forêt et innovation, revue forestière française, Hal INRAE, cesbio, l'essentiel du drone, une revue carbone, RDVT ONF, LinkedIn	R&D agents, forestry advisors, managers and experts, government services, researchers
4	29	Establishing new business models with NWFP	4.5	press review, technical review, social media, video	Presse agricole, herbaia, agromedia, France agricole, champs d'ici, forestopic, forêt et innovation, le bois international, l'abeille de France, unaf, reussir, abeilles et fleurs, forêt privée, revues commerciales, linkedIn	R&D agents, forestry advisors, managers and experts, teachers and trainers, government services, researchers, NGOs, farmers
4	21	Valorization of a neglected plant	4.0	website, social media, video	Presse agricole, herbaia, agromedia, France agricole, champs d'ici, forestopic, forêt et innovation, le bois international, l'abeille de France, unaf, reussir, abeilles et fleurs, forêt privée, revues commerciales, linkedIn	Managers and experts, teachers and trainers, NGOs, farmers
4	18	Mobile charcoal pile prototype for biochar production in situ	4.5	Email/newsletter, technical review, social media, video	Presse agricole, herbaia, agromedia, France agricole, champs d'ici, forestopic, forêt et innovation, le bois international, l'abeille de France, unaf, reussir, abeilles et fleurs, forêt privée, revues commerciales, linkedIn	R&D agents, forestry advisors, farmers
4	6	The Burgundy truffle, a quality product with high added value	4.0	Email/newsletter, technical review, social media, video	Presse agricole, herbaia, agromedia, France agricole, champs d'ici, forestopic, forêt et innovation, le bois international, l'abeille de France, unaf, reussir, abeilles et fleurs, forêt privée, revues commerciales, linkedIn	Government services, researchers
4	16	Integrated management of resources (water and soil) in nuts production	4.0	email/newsletter, technical review, social media	Presse agricole, herbaia, agromedia, France agricole, champs d'ici, forestopic, forêt et innovation, le bois international, l'abeille de France, unaf, reussir, abeilles et fleurs, forêt privée, revues commerciales, linkedIn	Forestry advisors, managers and experts, teachers and trainers, farmers
5	10	Review assesses the state of the art regarding the use of livestock for ecosystem	3.7	technical review, social media, video	Site du rmt agroforesterie, revue de l'AFAP, forêts et innovation, reussir élevage, euraf federation, les cahiers techniques de l'agroforesterie, forestopic,	R&D agents, forestry advisors, managers and experts, researchers

		management in Mediterranean landscapes			cirad, porcmag, France agricole, horizon, forêt de France	
5	11	Development of an autonomous and digitalized feeding system for pigs of the Celtic trunk in Atlantic deciduous forests	4.7	press review, website, video	Site du rmt agroforesterie, revue de l'AFAF, forêts et innovation, reussir élevage, euraf federation, les cahiers techniques de l'agroforesterie, forestopic, cirad, porcmag, France agricole, horizon, forêt de France	R&D agents, forestry advisors, managers and experts, government services, farmers
5	24	Criteria and indicators for the certification of the sustainable management of an agroforestry system PEFC	5.0	press review, website, events	Site du rmt agroforesterie, revue de l'AFAF, forêts et innovation, reussir élevage, euraf federation, les cahiers techniques de l'agroforesterie, forestopic, cirad, porcmag, France agricole, horizon, forêt de France	R&D agents, forestry advisors, government services, farmers, businesses
5	27	Evaluation of the impact of different grazing intensities of Maremma cattle on the components of the agroecosystem: soil, tree vegetation (structure, natural regeneration and biodiversity)	4.3	technical review, social media	Site du rmt agroforesterie, revue de l'AFAF, forêts et innovation, reussir élevage, euraf federation, les cahiers techniques de l'agroforesterie, forestopic, cirad, porcmag, France agricole, horizon, forêt de France	R&D agents, forestry advisors, managers and experts, researchers
5	7	Use of Keyline to increase soil chemical conditions for plant assimilation	4.3	technical review, video	Site du rmt agroforesterie, revue de l'AFAF, forêts et innovation, reussir élevage, euraf federation, les cahiers techniques de l'agroforesterie, forestopic, cirad, porcmag, France agricole, horizon, forêt de France	R&D agents, managers and experts, researchers, farmers

**Table 5:** Results of national workshops in Germany

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
1	2	Standardization of available forest data: the first step to support wood mobilization in Friuli Venezia Giulia	5.0	Newsletter, video, LinkedIn, informative article	Waldwissen (online magazine), newsletters of forest owner collectives, LWF LinkedIn account, LWF Aktuell (technical journal)	Forest owners, forest managers, public administration, advisors

1	7	Software for mobilisation and efficient use of resources involved in transportation of timber from forest to destination location	4.0	Newsletter, video, LinkedIn, informative article	Waldwissen (online magazine), newsletters of forest owner collectives, LWF LinkedIn account	Forest owners, forest enterprises, forest owner collectives, entities in forest-based value chain
1	21	Web-based due diligence and traceability system for forest timber assortments	3.0	Newsletter, video, LinkedIn, informative article	Waldwissen (online magazine), newsletters of forest owner collectives, LWF LinkedIn account	Forest owners, forest managers, public administration, advisors, entities in forest-based value chain
1	28	Di-Gozd Digital Forest Inventory - Mobile App	3.0	Newsletter, video, LinkedIn, informative article	Waldwissen (online magazine), newsletters of forest owner collectives, LWF LinkedIn account	Forest owners, forest managers, public administration, advisors
1	26	UAV to map growing stock volume for sharing forest management plan	3.0	Newsletter, video, LinkedIn, informative article	Waldwissen (online magazine), newsletters of forest owner collectives, LWF LinkedIn account, LWF Aktuell (technical journal)	Forest owners, forest managers, forest owner collective, public administration
2	15	Course on GIS and Remote Sensing Data to monitor forest ecosystems	5.0	Email, newsletter, video, YouTube, LinkedIn, event	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located)	Forest managers and forest owners, forest owner collectives
2	1	BioClimSol: a decision support integrating future climate and ground conditions	4.0	Email, newsletter, video, YouTube, LinkedIn, event	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located)	Forest managers and forest owners, forest owner collectives
2	33	The "sustainable bee forest" concept and implementation	4.0	Email, newsletter, video, YouTube, LinkedIn, event, excursion	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located)	Forest managers and forest owners, forest owner collectives
2	13	Douglas fir in the face of climate change in Burgundy region	3.0	Email, newsletter, video, Youtube, LinkedIn, event	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located)	Forest managers and forest owners, forest owner collectives

2	12	Educational module 'foresters, it's your turn to play"	3.0	Email, newsletter, video, YouTube, LinkedIn, event	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located), technical journal for education	Schools, Bavarian ministry for education, forest pedagogues
3	2	Keys for Forest Types Classification Schemes to support the reporting of Support Sustainable Forest Management Indicators in Various Contexts	5.0	Email, newsletter, event, excursion	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located), Waldwissen online magazine, LWF Aktuell	Forest owners, forest managers, forest owner collectives, forest administration
3	8	Mapping of forest roads to support tourism activities	4.0	Email, newsletter, event, excursion	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located), Waldwissen online magazine, LWF Aktuell	Forest owners, forest managers, forest owner collectives, forest administration
3	27	Decisional Support System to support the revision of forest management plans	4.0	Email, newsletter, event, excursion	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located), Waldwissen online magazine, LWF Aktuell	Forest owners, forest managers, forest owner collectives, forest administration
3	28	A User-Friendly Platform for Bridging the Gap between Carbon Credit Demand and Supply	5.0	Email, newsletter, event, excursion	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located), Waldwissen online magazine, LWF Aktuell	Forest owners, forest managers, forest owner collectives, forest administration
3	36	Index of Biodiversity Potential (IBP): a practical tool for forest managers	4.0	Email, newsletter, event, excursion	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located), Waldwissen online magazine, LWF Aktuell	Forest owners, forest managers, forest owner collectives, forest administration

4	29	Establishing new business models with NWFP	3.0	Email, newsletter, event, excursion	Mailing list, newsletter of forest owner collectives, event in Freising (centrally located), Waldwissen online magazine, LWF Aktuell	forest owners in regions with major forest disturbances
4	21	Valorization of a neglected plant	4.0	Email, newsletter, event, excursion	Mass media or newsletter category associations, FOREST4EU website GO website, youtube video Compagnia delle Foreste	forest owners and farmers
4	19	Endotherapeutic treatments with Tricoderma spp. To control fungal diseases of chestnut groves	5.0	Email, newsletter, event, excursion	Generic journal (Informatore COOP)	forest owners of chestnut trees
4	17	Biological treatment of chestnut cancer	5.0	Email, newsletter, event, excursion	Mass media or newsletter category associations, FOREST4EU website GO website, YouTube video Compagnia delle Foreste	forest owners of chestnut trees
4	34	Geolocation and monitoring of animals to identify possible incidents and improve the management of animals and pastures	3.0	Email, newsletter, event, excursion	Mass media or newsletter category associations, FOREST4EU website GO website, YouTube video Compagnia delle Foreste	forest owners and farmers
5	4	Use of Keyline for planting cork oaks and holm oaks in agro-forestry systems	4.0	Email, newsletter, event, excursion	Agricultural magazine, Compagnia delle Foreste, Ordine dei Dottori Agronomi e Forestali	Forest owners, farmers, advisors, associations, public administration
5	6	Use of keyline to increase soil's moisture retention capacity in summer months	4.0	Email, newsletter, event, excursion	Agricultural magazine, Compagnia delle Foreste, Ordine dei Dottori Agronomi e Forestali	Forest owners, farmers, advisors, associations, public administration
5	12	"Agroforestry in Austria" network	5.0	Email, newsletter, event, excursion	Compagnia delle Foreste, Ordine dei Dottori Agronomi e Forestali	Forest owners, farmers, advisors, associations, public administration

5	13	Practitioner-oriented consulting for agroforestry systems in Austria	5.0	Email, newsletter, event, excursion	National Rural Network newsletter, Ordine dei Dottori Agronomi e Forestali	Forest owners, farmers, advisors, associations, public administration
5	32	A feasible step-by-step plan with practical guidelines and concrete designs to enable the application of agroforestry on farms	5.0	Email, newsletter, event, excursion	Agricultural magazine, Compagnia delle Foreste	Forest owners, farmers, advisors, associations, public administration

**Table 6:** Results of national workshops in Portugal

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
1	5	A system for Quality assessment of Forestry Contractors	4.8	LinkedIn, Website, Videos, Newsletters, field visits	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
1	2	Standardization of available forest data: the first step to support wood mobilization in Friuli Venezia Giulia	4.5	LinkedIn, Website, Videos, Newsletters, field visits	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
1	1	Growing Stock Volume Map to support forest operation planning	4.3	LinkedIn, Website, Videos, Newsletters, field visits	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
1	26	UAV to map growing stock volume for sharing forest management plan	4.3	LinkedIn, Website, Videos, Newsletters, field visits	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians

1	3	PRI.FOR.MAN Dashboard: Overview of Wood Resources at NUT3 Level to Support Wood Mobilization and Value Chain	3.8	LinkedIn, Website, Videos, Newsletters, field visits	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
2	21	Geosuber Tool - Monitorization of the vitality of cork oak stands	5.0	Field visits, videos, YouTube, infographics with resumed information	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
2	11	UAV and multispectral camera to map stressed forest area	5.0	Field visits with specialist, technical formation	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
2	15	Course on GIS and Remote Sensing Data to monitor forest ecosystem	5.0	Videos, Technical formations	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
2	33	The "sustainable bee forest" concept and implementation	4.0	Field visits, videos, TV documentaries, influence journalists and opinion makers	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
2	22	Precision fertigation of Cork Oak ( <i>Quercus suber</i> L.) in intensive cork production stands.	4.0	Field visits, videos, YouTube, infographics with resumed information	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
3	18	Carbon accounting for PES	4.6	Social networks, Vlogs, Events	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
3	1	Biomass accounting for Sustainable Forest Management Plans	4.2	Social networks, Vlogs, Events	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel,	Forest producers, forest associations, forest technicians

					Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	
3	34	Efficient Sampling Methodology for Calculating Soil Carbon Credits.	4.0	Social networks, Vlogs, Events	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
3	27	Decisional Support System to support the revision of forest management plans	4.0	Social networks, Vlogs, Events	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
3	10	Community forest arrangement as ideal instance for the realization of the profit-sharing model of PRIFORMAN Project	3.6	Social networks, Vlogs, Events	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
4	17	Biological Treatment of cancer chestnut ( <i>Cryphonectria parasitica</i> ) in Portugal	5.0	Specialized magazines, Social Media Networks, Podcasts, local radio	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
4	31	Methods for managing cork oak forests with platype attacks from the Sor region (Process; technique)	4.6	Specialized magazines, Social Media Networks, Podcasts, local radio	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
4	21	Valorization of a neglected plant	4.0	Specialized magazines, Social Media Networks, Podcasts, local radio	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
4	34	Geolocation and monitoring of animals to identify possible incidents and improve the management of animals and pastures	4.0	Specialized magazines, Social Media Networks, Podcasts, local radio	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians



4	3	Identification of compounds of industrial interest	3.2	Specialized magazines, Social Media Networks, Podcasts, local radio	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
5	1	Increase and transfer knowledge to producers about the natural regeneration processes of cork oaks and holm oaks in agro-forestry systems in Alentejo region, Portugal.	4.8	WhatsApp, Field visits, Workshops, Webinars, Technical Manuals online and in hard copies, technical events, social events with culture and gastronomy	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
5	27	Evaluation of the impact of different grazing intensities of Maremma cattle on the components of the agroecosystem: soil, tree vegetation (structure, natural regeneration and biodiversity)	4.0	WhatsApp, Field visits, Workshops, Webinars, Technical Manuals online and in hard copies, technical events, social events with culture and gastronomy	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
5	19	Raising awareness and setting up tests on assisted natural hedge regeneration	3.8	WhatsApp, Field visits, Workshops, Webinars, Technical Manuals online and in hard copies, technical events, social events with culture and gastronomy	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
5	10	Review assesses the state of the art regarding the use of livestock for ecosystem management in Mediterranean landscapes	3.5	WhatsApp, Field visits, Workshops, Webinars, Technical Manuals online and in hard copies, technical events, social events with culture and gastronomy	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians

5	4	Use of Keyline for planting cork oaks and holm oaks in agro-forestry systems	3.5	WhatsApp, Field visits, Workshops, Webinars, Technical Manuals online and in hard copies, technical events, social events with culture and gastronomy	FOREST4EU LinkedIn, ANSUB Website, SOLUTUPUS Website, YouTube Videos at FOREST4EU Channel, Videos at ANSUB, SOLOTOPUS and FCUL Websites, UNAC Newsletters	Forest producers, forest associations, forest technicians
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**Table 7:** Results of national workshops in Finland

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
1	2	Technique for superficial heat treatment on wood product	5.0	Study visit, websites, specialized magazines	Maaseutuverkosto.fi platform	Entrepreneurs
1	10	Prefabricated modular construction system made from Normandy hardwoods	3.0	Websites, social media (Facebook), blogs	Maaseutuverkosto.fi platform	Entrepreneurs
1	12	A system for Quality assessment of Forestry Contractors	3.0	Websites, social media (Facebook), blogs	Maaseutuverkosto.fi platform	Forest owners
1	14	LVL (Laminated Veneer Lumber) of fagus silvatica	3.0	Websites, social media (Facebook), blogs	Maaseutuverkosto.fi platform	Entrepreneurs
1	17	Creating Your Own Estate Plan Via The Online Portal (MojGozdar)	3.0	Websites, social media (Facebook), blogs	Maaseutuverkosto.fi platform	Forest owners
2	2	The "sustainable bee forest" concept and implementation	5.0	Study visits, websites, blogs	Maaseutuverkosto.fi platform	Forest owners, entrepreneurs
2	3	Bioclimsol : a decision support system integrating future climate and ground conditions	2.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Forest owners

2	6	Participative simulation game "Foster Forest"	3.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Forest owners, public administration, researchers, decisionmakers, policy makers
2	7	Educational module 'foresters, it's your turn to play'	4.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Teachers, public administration
2	18	Theatrical forest excursions	3.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Forest advisors, teachers, students, researchers
3	2	Index of Biodiversity Potential (IBP): a practical tool for forest managers	3.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Forest advisors, forest owners
3	3	Support multi-object forest management plans through easy-access information	3.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Forest advisors, forest owners
3	9	Vigil'ence : Participatory science tool for epidemiological surveillance of chestnut ink	3.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Forest advisors, forest owners
3	10	Efficient Sampling Methodology for Calculating Soil Carbon Credits.	2.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Forest advisors, forest owners
3	14	Developing a Novel Martelloscope for Assessing Biodiversity and Growing Stock Volume with the Aid of a Digital Twin.	3.0	Websites, social media, blogs	Maaseutuverkosto.fi platform	Forest advisors, forest owners, researchers, teachers
4	1	Establishing new business models with NWFP	4.0	video, newspaper,	Maaseutuverkosto.fi platform, network meetings of Finnish natural products projects.	Forestry planners, forest management associations,
4	4	Diversification of edible wild mushroom cultivation with new native species	4.0	video, newspaper,	Maaseutuverkosto.fi platform, network meetings of Finnish natural products projects.	Farmers, forest owners, anyone interested

4	5	Mobile kiln prototype for local biochar production	5.0	video, newspaper, local radio	Maaseuden tulevaisuus – newspaper, Maaseutuverkosto.fi platform, network meetings of Finnish natural products projects.	Farmers, small companies, taloyhtiot, small forest owners, municipalities, waste management, entrepreneurs.
4	8	Geolocation and monitoring of animals to identify possible incidents and improve the management of animals and pastures	3.0	Websites, social media, blogs	Maaseutuverkosto.fi platform, network meetings of Finnish natural products projects.	Farmers, reindeer herder
4	15	Identification of compounds of industrial interest	3.0	Websites, social media, blogs	Maaseutuverkosto.fi platform, network meetings of Finnish natural products projects.	SME's, research
5	1	Practitioner-oriented consulting for agroforestry systems in Austria	5.0	Website, video, newspaper	Finnish agroforestry network (Peltometsä group)'s channels. Maaseutuverkosto.fi platform	Farmers, foresters, advisors, researchers, anyone interested, entrepreneurs
5	4	New and innovative cultivation methods of highly productive apples adapted to northern climates	4.0	Website, video, newspaper	Finnish agroforestry network (Peltometsä group)'s channels. Maaseutuverkosto.fi platform	Farmers, SME's
5	5	A feasible step-by-step plan with practical guidelines and concrete designs to enable the application of agroforestry on farms	4.0	Website, video, newspaper	Finnish agroforestry network (Peltometsä group)'s channels. Maaseutuverkosto.fi platform	Farmers, advisors, forest owners
5	8	Criteria and indicators for the certification of the sustainable management of an agroforestry system PEFC	4.0	Specialised journal, magazine	Finnish agroforestry network (Peltometsä group)'s channels. Maaseutuverkosto.fi platform	Farmers, foresters,
5	11	“Agroforestry in Austria” Network	5.0	Website, video, newspaper, blog	Finnish agroforestry network (Peltometsä group), Maaseutuverkosto.fi platform	Farmers, foresters, advisors, researchers, anyone interested

**Table 8:** Results of national workshops in Spain

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
1	5	A system for Quality assessment of Forestry Contractors	4.2	Event, video, Web	In situ chats or field visits	Managers, owners, and industry
1	15	LVL (Laminated Veneer Lumber) of fagus silvatica	4.1	Press note, event, LinkedIn	Technical magazines of the wood sector	Industry and managers
1	21	Web-based due diligence and traceability system for forest timber assortments	3.5	Web, Event, Newsletter	Technical magazines of the wood sector	Owners (public or private) industry and NGOs
1	26	UAV to map growing stock volume for sharing forest management	3.3	Video, LinkedIn and Event	Videos in channels of private owners (COSE, FAFCYLE) and organizations (e.g. Entretantos.). Talks with owners	Owners associations, managers and consultants
1	1	Growing Stock Volume Map to support forest operation planning	3.1	Video, LinkedIn and Event	Montes Magazine	Consultants, managers, owners, administration and companies
2	1	Bioclimsol: a decision support system integrating future climate and ground conditions	3.8	Email, newsletter and event	forext.eu, YouTube, web autodidáctica, magazines of forest associations, specialized magazines, courses, RENECOFOR (Fr)	Official collages and forest technicians, forest owners, researchers, administration and managers
2	7	Chestnut forests management for quality products and promote C sequestration	3.3	Newsletter, magazine and event	forext.eu, Montes magazine	Forest owners and managers
2	9	Participative simulation game "Foster Forest"	3.6	Email, press note and magazine	Basquefur, forest pedagogics network	Colleges, universities and educational system
2	11	UAV and multispectral camera to map stressed forest area	3.8	Email, newsletter, magazine and event	forext.eu, forest administration, admin. Forestal web, specialized magazines, curses	Forest technicians, forest owners,

						administrations, forest managers, associations
2	33	The "sustainable bee forest" concept and implementation	3.3	Email, newsletter, magazine and event	forext.eu, Hazi	
3	1	Biomass accounting for Sustainable Forest Management Plans using UAV data	3.3	Email, magazine, event, newsletter	Local events, Montes magazine, Sector magazine (Euskadi)	Administration, owners, managers, forestry engineers, technology centers, companies, etc.
3	9	Support multi-object forest management plans through easy-access information	3.6	Email, newsletter, event	Local events, Montes magazine, Sector magazine (Euskadi)	Administration, managers, homeowners associations
3	11	Sharing-profits methodology for community forest arrangement	3.6	Event, magazine, email, press note and podcast	Local events, Foresta magazine, specialized forums, PEFC España, Sector magazine (Euskadi)	Association of owners, managers, policymakers
3	25	Innovative tools for collaborative forest management	3.8	Email, newsletter, event, magazine, press note	silviculture CPF magazine, Foresta magazine, PEFC España, Sector magazine (Euskadi)	Association of owners, managers, policymakers
3	27	Decisional Support System to support the revision of forest management plans	3.3	Email, newsletter and event	Local events, Montes magazine, Foresta magazine, C.O.I. Forestals, Sector magazine (Euskadi)	Administration, managers, owners, GFS certified seals, PTGFS drafters
4	19	Endotherpic treatments with Trichoderma spp. to control fungal diseases in chestnut groves	4.7	Event, magazine and blog	Facebook associations of chestnut growers (Villuercas, 3 valleys). BIOCASTANEA event. Chestnut table event. Press releases in local media (Bierzo and León).	Chestnut growers. Owners. Chestnut growers' association and chestnut table.

4	1	Resin Data Observatory	4.6	Event, LinkedIn and video	Events of the Resin Table (CYL, CLM, EXT) . Resin farmers Facebook channel. Resin producers WhatsApp groups. X and linkedIn of resin projects. Resinlab YouTube channel. Forestry fairs	Resin industry, managers, owners, resin industry, resin producers
4	2	Mechanised resin extraction meth	3.9	Event, Web, video	Events of the Resin Table (CYL, CLM, EXT) . Resin farmers Facebook channel. Resin producers WhatsApp groups. X and linking of resin projects. Resinlab YouTube channel. Forestry fairs	Resin industry, managers, owners, resin industry, resin producers
4	5	Valuate the traditional chestnuts production	3.8	Event, video, newspaper	Facebook associations of chestnut growers (Villuercas, 3 valleys). BIOCASTANEA event. Chestnut table event. Press releases in local media (Bierzo and León).	Chestnut growers. Owners. Chestnut growers' association and chestnut table.
4	34	Geolocation and monitoring of animals to identify possible incidents and improve the management of ani	3.6	Magazine, video, event	Shepherd school. <a href="https://escueladepastores.es/">https://escueladepastores.es/</a> . UPA (union of small shepherds) web and networks. ASAJA, UPA and COAG. Networks and webs of these associations	farmers, managers, owners, municipalities. TODOLOCAL
4	32	Diversification of edible wild mushroom cultivation with new native spe	3.6	Press notes, event, web	Wes and networks of local mycological associations (Catalonia). Gourmet fairs and events specialized in mycology.	General public, producers, production industry
5	10	Review assesses the state of the art regarding the use of livestock for ecosystem management in Mediterranean landscapes	4.0	Practice abstracts, Fact sheets, Magazines, Newsletter (NL), LinkedIn, YouTube, events, websites, press releases	Magazine O campo Galego, Revisa da Asociación Forestal de Galicia, Newsletter of GRA and FOREST4EU, LinkedIn of FOREST4EU, USC YouTube channel, Forest4EU website	Agroforestry sector actors
5	11	Development of an autonomous and digitalized feeding system for pigs of the Celtic trunk in Atlantic deciduous forests	3.9	Practice abstracts, Fact sheets, Magazines, Newsletter (NL), LinkedIn, YouTube,	Magazine O campo Galego, Revisa da Asociación Forestal de Galicia, Newsletter of GRA and FOREST4EU, LinkedIn of FOREST4EU, USC YouTube channel, Forest4EU website	Agroforestry sector actors

				events, websites, press releases		
5	33	New management practices in rainfed olive groves	3.5	Practice abstracts, Fact sheets, Magazines, Newsletter (NL), LinkedIn, YouTube, events, websites, press releases	Magazine O campo Galego, Revisa da Asociación Forestal de Galicia, Newsletter of GRA and FOREST4EU, LinkedIn of FOREST4EU, USC YouTube channel, Forest4EU website	Agroforestry sector actors
5	8	Characterization of portuguese sown rainfed grasslands using remote sensing and machine learning	3.5	Practice abstracts, Fact sheets, Magazines, Newsletter (NL), LinkedIn, YouTube, events, websites, press releases	Magazine O campo Galego, Revisa da Asociación Forestal de Galicia, Newsletter of GRA and FOREST4EU, LinkedIn of FOREST4EU, USC YouTube channel, Forest4EU website	Agroforestry sector actors
5	21	Biological control of Chestnut blight ( <i>Cryphonectria parasitica</i> ) by virus infection (hypovirulence)	3.4	Practice abstracts, Fact sheets, Magazines, Newsletter (NL), LinkedIn, YouTube, events, websites, press releases	Magazine O campo Galego, Revisa da Asociación Forestal de Galicia, Newsletter of GRA and FOREST4EU, LinkedIn of FOREST4EU, USC YouTube channel, Forest4EU website	Agroforestry sector actors

**Table 9:** Results of national workshops in Latvia

ITHub	Innovation number	Innovation name	Priority score	Format and 3 preferred channels	Specific channel	Target audience
1	7	Software for mobilisation and efficient use of resources involved in transportation of timber from forest to destination location	5.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, Latvijas Republikas Klimata un enerģētikas ministrija <a href="mailto:pasts@kem.gov.lv">pasts@kem.gov.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;



1	5	A system for Quality assessment of Forestry Contractors	5.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, AS "Latvijas valsts meži" <a href="mailto:vm@lvm.lv">vm@lvm.lv</a> , Latvijas Kokrūpniecības federācija, <a href="mailto:office@latvianwood.lv">office@latvianwood.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
1	26	UAV to map growing stock volume for sharing forest management plan	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	study visit, AS "Latvijas valsts meži" <a href="mailto:vm@lvm.lv">vm@lvm.lv</a> , Latvijas Kokrūpniecības federācija, <a href="mailto:office@latvianwood.lv">office@latvianwood.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
1	21	Web-based due diligence and traceability system for forest timber assortments	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, AS "Latvijas valsts meži" <a href="mailto:vm@lvm.lv">vm@lvm.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
1	6	Creating Your Own Estate Plan Via The Online Portal (MojGozdar)	3.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, SIA "Latvijas lauku konsultāciju un izglītības centrs". Meža konsultāciju pakalpojumu centrs <a href="http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs">http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
2	11	UAV and multispectral camera to map stressed forest area	5.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	study visit, AS "Latvijas valsts meži" <a href="mailto:vm@lvm.lv">vm@lvm.lv</a> , Latvian State Forest Research Institute "Silava", <a href="mailto:inst@silava.lv">inst@silava.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
2	12	Educational module 'foresters, it's your turn to play'	5.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, Latvian State Forest Research Institute "Silava", <a href="mailto:inst@silava.lv">inst@silava.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
2	15	Course on GIS and Remote Sensing Data to monitor forest ecosystem	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, AS "Latvijas valsts meži" <a href="mailto:vm@lvm.lv">vm@lvm.lv</a> , Latvian State Forest Research Institute "Silava", <a href="mailto:inst@silava.lv">inst@silava.lv</a> , SIA "Latvijas lauku konsultāciju un izglītības centrs".	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;

					Meža konsultāciju pakalpojumu centrs <a href="http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs">http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs</a>	
2	33	The "sustainable bee forest" concept and implementation	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, Meža konsultāciju pakalpojumu centrs <a href="http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs">http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
2	31	Reducing Input in Forest Operations: A Valuable Opportunity for Carbon Credit Generation	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, Zemkopības ministrija Meža departaments <a href="mailto:Andis.Purs@zm.gov.lv">Andis.Purs@zm.gov.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
3	29	Developing a Novel Martelloscope for Assessing Biodiversity and Growing Stock Volume with the Aid of a Digital Twin.	5.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, SIA "Latvijas lauku konsultāciju un izglītības centrs". Meža konsultāciju pakalpojumu centrs <a href="http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs">http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
3	36	Index of Biodiversity Potential (IBP): a practical tool for forest managers	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, AS "Latvijas valsts meži" <a href="mailto:vm@lvm.lv">vm@lvm.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
3	32	Group Certification for Sustainable Forest Management: Promoting Shared Forest Management and Ecosystem Services Enhancement	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, Zemkopības ministrija Meža departaments <a href="mailto:Andis.Purs@zm.gov.lv">Andis.Purs@zm.gov.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
3	18	Carbon accounting for PES	3.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, Zemkopības ministrija Meža departaments <a href="mailto:Andis.Purs@zm.gov.lv">Andis.Purs@zm.gov.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;

3	28	A User-Friendly Platform for Bridging the Gap between Carbon Credit Demand and Supply.	3.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, Zemkopības ministrija Meža departaments <a href="mailto:Andis.Purs@zm.gov.lv">Andis.Purs@zm.gov.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
4	3	Identification of compounds of industrial interest	5.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, Latvijas Tehnolģiskais centrs (LTC) <a href="mailto:techcenter@techcenter.lv">techcenter@techcenter.lv</a> , Latvia University of Life Sciences and Technologies , <a href="mailto:rector@lbtu.lv">rector@lbtu.lv</a> , "Latvijas Valsts koksnes ķīmijas institūts" , <a href="mailto:kki@kki.lv">kki@kki.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
4	4	Post harvest coatings from mushroom by products	5.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, SIA "Latvijas lauku konsultāciju un izglītības centrs". Meža konsultāciju pakalpojumu centrs <a href="http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs">http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs</a> , Latvia University of Life Sciences and Technologies , <a href="mailto:rector@lbtu.lv">rector@lbtu.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
4	25	Mechanised resin extraction method	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	study visit, Latvia University of Life Sciences and Technologies , <a href="mailto:rector@lbtu.lv">rector@lbtu.lv</a> , Latvian State Forest Research Institute "Silava" , <a href="mailto:inst@silava.lv">inst@silava.lv</a> , Latvijas Tehnolģiskais centrs (LTC) <a href="mailto:techcenter@techcenter.lv">techcenter@techcenter.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
4	29	Establishing new business models with NWFP	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, Latvijas Tehnolģiskais centrs (LTC) <a href="mailto:techcenter@techcenter.lv">techcenter@techcenter.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;

4	21	Valorization of a neglected plant	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, Latvian State Forest Research Institute "Silava", <a href="mailto:inst@silava.lv">inst@silava.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
5	16	New and innovative cultivation methods of highly productive apples adapted to northern climates	5.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	study visit, SIA "Latvijas lauku konsultāciju un izglītības centrs". Meža konsultāciju pakalpojumu centrs, <a href="http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs">http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
5	31	Are short rotation coppice a solution in future regional biorafineries	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, AS "Latvijas valsts meži" <a href="mailto:vm@lvm.lv">vm@lvm.lv</a> , "Latvijas Valsts koksnes ķīmijas institūts", <a href="mailto:kki@kki.lv">kki@kki.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
5	32	A feasible step-by-step plan with practical guidelines and concrete designs to enable the application of agroforestry on farms	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, SIA "Latvijas lauku konsultāciju un izglītības centrs". Meža konsultāciju pakalpojumu centrs <a href="http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs">http://new.llkc.lv/lv/biroji/meza-konsultaciju-pakalpojumu-centrs</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
5	17	Local densified log industry	4.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, Latvian State Forest Research Institute "Silava", <a href="mailto:inst@silava.lv">inst@silava.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;
5	15	Technology for the mobilization and use of forest biomass in agroindustry	3.0	e-mails, study visits, social networks (LinkedIn, Instagram, FB, X)	e-mails, on-line meetings, National Contact Point, Latvian State Forest Research Institute "Silava", <a href="mailto:inst@silava.lv">inst@silava.lv</a> , Latvia University of Life Sciences and Technologies, <a href="mailto:rector@lbtu.lv">rector@lbtu.lv</a>	Policy makers directly involved in CAP at local/national level; Students inn forestry and agroforestry; Agroforestry based sectors; Forestry-based sectors;

## 4. Development of capacity-building material

In order to develop high quality and useful capacity-building material for the stakeholders in the different countries part of the ITHubs (i.e. FOREST4EU partner countries; see details in Deliverable 1.1), and in other countries that share the same language, a plan to create the capacity-building material was developed relying on the information gathered in the national workshops.

To ensure that the material generated in the FOREST4EU project is accessible and inclusive, the capacity-building material will be produced in local languages and English considering the literacy levels and cultural sensitivities. Moreover, the material will be produced in different formats such as text and video.

Based on the results of the prioritization exercise, 5 capacity-building materials will be created per partner country in their local language. The 5 innovations for which capacity-building material will be created will be chosen trying to balance the distribution between ITHubs (taking into account the fact that the country belongs or not to the ITHub) and the priority assigned by the local stakeholders.

To this end, after the national workshops, the results from all the prioritization workshops were compiled and the innovations that were interesting from multiple countries were identified. Next, the preferred formats, channels, and target audience specified by different countries were compared to determine if collaborative efforts were feasible. If the formats, channels, and target audience were too divergent despite the shared interest in an innovation, joint efforts were deemed unfeasible. The selected innovations were divided into first, second and third batch to distribute the partners' effort on time.

## 5. First batch of capacity-building material

For the first batch of capacity-building material, two innovations will be assigned to each partner, except for the partners from Spain (CESEFOR, USC, BOSCAT) and Portugal (FC.ID, SOLUTOPUS, ANSUB), to whom only one capacity-building material was assigned, as in the case of Spain and Portugal, the effort should be shared among the three partners from the country. In the first batch, the innovations were assigned, when possible, to the partner in touch with the OGs that developed the innovation to facilitate the collection of all relevant information to develop the capacity-building material (Table 10). At this stage, each partner with two innovations was instructed to create one comprehensive capacity-building material for one of the innovations and one shorter dissemination material for the other innovation.

For the first batch of capacity-building material two different scenarios are envisioned. In each scenario, different strategies are proposed to successfully develop the capacity-building material.

In each scenario, the partners have two distinctive roles:

- **Leading partner:** The partner to which the innovation was assigned and that is ultimately responsible for developing the capacity-building material in its local language and English.
- **Supporting partner:** The partner responsible for supporting the leading partner if needed, and for translating the material into its local language.

**Scenario I:** Several countries are interested in the same innovation, and the stakeholders want this information presented in the same format and tailored for the same target audience. Under such circumstances, the partners will follow the approach described below:

1. The leading partner will collect any relevant additional information about the innovation or good practice by contacting the OG that developed them.
2. The leading partner will develop the capacity-building material in their local language and English. If possible, the leading partner will share the English version of the material with the supporting partners and gather feedback.
3. A final version (in English and the language of the leading partner) will be developed by the leading partner and shared with the supporting partners so the supporting partners can translate the material into their local language (e.g. as video subtitles or a version of the technical manual in local language).

4. The material produced in the local language will be disseminated in the selected channels for each country and the English version will be disseminated in international channels through a joint effort of all the project partners.

**Scenario II:** Only one country is interested in one innovation.

1. The leading partner will collect any relevant additional information about the innovation by contacting the OG that developed the innovation.
2. The leading partner will develop the capacity-building material in their local language and English.

The material produced in the local language will be disseminated in the selected channels and the English version will be disseminated in international channels.

**Table 10:** Innovations' distribution among partners to develop capacity-building material including leading and supporting roles as well as the preferred formats and channels to convey the capacity-building material.

Leading partner	ITHub	Innovation N	Innovation name	Operational Group	Partner in contact with OG	Language of capacity building material	Supporting partners	Languages to be translated	Format	Format details and Channel	Target audience
GIS	ITHub 1	6	Creating Your Own Estate Plan Via The Online Portal (MojGozdar) (OG eGozd)	OG eGozd	GIS	Slovenian	CEKOM, UNIFI, LLA, EFI	Croatian, Italian, Latvian and Finnish	Text	Magazine article (published in journal and website)	Forest owners
GIS	ITHub 3	18	Carbon accounting for PES (GO-FOR.TRACK)	GO-FOR.TRACK	UNIFI	Slovenian	CEKOM, LLA, FC.ID	Croatian, Latvian and Portuguese	Text	Technical report/manual (published in journal and website and to be send via email)	Public administration, scientists
LLA	ITHub 1	7	Software for mobilisation and efficient use of resources involved in transportation of timber from forest to destination location	OG IR_MP3	LLA	Latvian	LWF	German	Video	YouTube (FOREST4EU YouTube channel and other channels)	Forest owners
LLA	ITHub 3	29	Developing a Novel Martelloscope for Assessing Biodiversity and Growing Stock Volume with the Aid of a Digital Twin.	BIOSEIFORTE	UNIFI	Latvian	CNPF, GIS, EFI	French, Slovenian and Finnish	Text	Magazine article (published in journal and website)	Policy makers directly involved in CAP at local/national level; Students in forestry and agroforestry; Agroforestry

											based sectors; Forestry-based sectors;
CESEFOR	ITHub 1	15	LVL (Laminated Veneer Lumber) of fagus silvatica	OG FAGUS	CESEFOR	Spanish	UNIFI, GIS, EFI	Italian, Slovenian and Finnish	Text	Magazine article (published in journal and website)	Entrepreneurs and forest owners
CNPF	ITHub 1	23	Prefabricated modular construction system made from Normandy hardwoods	Normandy Wood Building	CNPF	French	EFI	Finnish	Video	YouTube (FOREST4EU YouTube channel and other channels)	Government and private businesses
CNPF	ITHub 2	12	Educational module 'foresters, it's your turn to play"	EUROFOR NORM	CNPF	French	LWF, LLA, GIS, UNIFI, EFI	German, Latvian, Slovenian, Italian and Finnish	Text	Magazine article (published in journal and website)	Forestry advisors, teachers and trainers
UNIFI	ITHub 2	11	UAV and multispectral camera to map stressed forest area (GO-SURF)	GO-SURF	UNIFI	Italian	CEKOM, LLA, GIS, ANSUB, USC	Croatian, Latvian, Slovenian, Portuguese and Spanish	Text	Magazine article (published in journal and website)	Forest technicians and forest owners
UNIFI	ITHub 3	10	Community forest arrangement as ideal instance for the realization of the profit-sharing model of PRIFORMAN Project	GO-PRI.FOR.MAN	UNIFI	Italian	FC.ID	Portuguese	video	YouTube (FOREST4EU YouTube channel and other channels)	Regions, Public Administration, Territorial Entities
LWF	ITHub 2	33	The "sustainable bee forest" concept and implementation (Bienenwald (bee forest))	Bienenwald (bee forest)	StMELF-LWF	German	CEKOM, LLA, GIS, FC.ID, EFI, CESEFOR	Croatian, Latvian, Slovenian, Portuguese, Finnish	video	YouTube (FOREST4EU YouTube channel and	Forest managers and forest owners



								and Spanish		other channels)	
LWF	ITHub 4	29	Establishing new business models with NWFP	Bienwald (Bee forest)	StMELF -LWF	German	CNPF, LLA, EFI, GIS	French, Latvian, finish and Slovenian	Text	Technical report or long magazine article (magazine, project website)	Forest owners in regions with major forest disturbances
FC.ID	ITHub 2	21	Geosuber Tool - Monitorization of the vitality of cork oak stands	GO GEOSUBER	ANSUB	Portuguese	CNPF	French	video	YouTube (FOREST4EU YouTube channel and other channels)	forest advisors, managers, and experts
CEKOM	ITHub 2	15	Course on GIS and Remote Sensing Data to monitor forest ecosystem (GO-SURF)	GO-SURF	UNIFI	Croatian	LWF, LLA, FC.ID	German, Latvian and Portuguese	Text	Magazine article (published in journal and website)	Forest managers and forest owners
CEKOM	ITHub 5	24	Criteria and indicators for the certification of the sustainable management of an agroforestry system PEFC (NEWTON)	NEWTON	UNIFI	Croatian	CNPF, EFI, GIS	French, finish and Slovenian	Text	Technical report or long magazine article (magazine and project website)	Policy makers directly involved in CAP at local/national level; Students in forestry and agroforestry; Agroforestry based sectors; Forestry-

											based sectors;
BOSCAT	ITHub 4	34	Geolocation and monitoring of animals to identify possible incidents and improve the management of animals and pastures	OG CLIM'AGIL	BOSCAT	Spanish	SOLUTOPUS, EFI	Portuguese and Finnish	video	YouTube (FOREST4EU YouTube channel and other channels)	Forest owners and farmers
SOLUTOPUS	ITHub 4	17	Biological Treatment of cancer chestnut (Cryphonectria parasitica) in Portugal	Bio-Chestnut-IBM	Solutopus	Portuguese	UNIFI, LWF, GIS	Italian, German and Slovenian	Text	Technical report or long magazine article	Forest owners
EFI	ITHub 4	18	Mobile kiln prototype for local biochar production	GO INGECA	UNIFI	Finnish	UNIFI, CNPF, GIS	Italian, French and Slovenian	video	YouTube (FOREST4EU YouTube channel and other channels)	Farmers, small companies, small forest owners, municipalities, waste management, entrepreneurs.
EFI	ITHub 5	16	New and innovative cultivation methods of highly productive apples adapted to northern climates	Commercial productive apple growing in a northern climate	EFI	Finnish	LLA	Latvian	Text	Technical report or magazine article (magazine or project website)	Farmers, SME's
ANSUB	ITHub 5	10	Review assesses the state of the art regarding the use of livestock for ecosystem management	SILVPAST	FCUL, ANSUB	Portuguese	UNIFI, CNPF	Italian, Spanish and French	Text	Technical report (project website)	Advisors, researchers

			in Mediterranean landscapes								
ANSUB	ITHub 5	1	Increase and transfer knowledge to producers about the natural regeneration processes of cork oaks and holm oaks in agro-forestry systems in Alentejo region, Portugal.	Oak Regeneration	ANSUB	Portuguese	UNIFI	Italian	Text	Technical report or magazine article (magazine or project website)	Forest owners, category associations, advisors, researchers, public administrations
USC	ITHub 5	11	Development of an autonomous and digitalized feeding system for pigs of the Celtic trunk in Atlantic deciduous forests	FORESTCE LTA	USC	Spanish	video	French	Video	YouTube (FOREST4EU YouTube channel and other channels)	Forestry advisors, managers and farmers

## 6. Second and third batch of capacity-building material

For the second and third batch of capacity-building material (June 2024 – October 2025), a slightly different approach than the one used for the first batch is proposed.

Initially, and as for the first batch, if the evaluation of the interest by the local stakeholders indicates that the development of the capacity-building material through a joint effort is possible, one of the countries interested in the innovation will be nominated as a leader for the creation of the capacity-building material and the others as supporting partners ensuring a fair and equitable distribution of tasks and responsibilities. However, for the second and third batches, the fact that one partner was in touch with a certain OG was not considered for the innovation's distributions (Table 11 and Table 12).

For the second and third batches, it is possible to identify partners with three distinctive roles:

Leading partner: The partner to which the innovation was assigned and that it is the ultimate responsible for the development of the capacity-building material in English and its local language.

Supporting partner: The partner in charge of supporting the leading partner and of translating the material to the local language.

Partner in contact with the OG: The partner that collected the innovation, that is still in contact with the OG and that collects additional information about the innovation.

**Scenario I:** Several countries need to produce capacity-building material for the same innovation in the same format and for the same target audience.

1. The leading partner will ask the partner that collected the innovation to contact the OG and collect all relevant additional information about the innovation.
2. The leading partner will elaborate a first draft (in English) and will share it with (1) the partner in contact with the OG to revise the accuracy of the information presented, and (2) with the supporting partners for feedback especially regarding the consistency with the channels and target audience.
3. The leading partner will develop a final version (in English) after incorporating all the relevant comments and will share it with the supporting partners so they can translate the material into their local language.
4. The material produced in the local language will be disseminated in the selected channels in each country and the English version will be disseminated in international channels through a joint effort of all the project partners.

For the second and third batches of capacity-building material, each partner will choose two innovations from the second and two innovations from the third batch of innovations assigned except the partners from Spain (CESEFOR, USC, BOSCAT) and Portugal (FC.ID, SOLUTOPUS, ANSUB) that only need to choose one innovation to develop the capacity-building material, as in the case of Spain and Portugal, the effort should be shared among the partners from that country (Table and Table 12).

*All the capacity-building material produced will be made available in the project website <https://www.forest4eu.eu/the-project/> and in the EU-FarmBook repository (<https://www.eufarmbook.eu/en>)*

**Table 11:** Second batch of capacity-building material with leading and contributing partners, formats and channels and target audience.

Leading partner	ITHub	Innovation N	Innovation name	Operational Group	Partner in contact with OG	Language of capacity building material	Supporting partners	Languages to be translated	Format	Format details and Channel	Target audience
CEKOM	ITHub 1	26	UAV to map growing stock volume for sharing forest management plan (GO-PRI.FOR.MAN)	GO-PRI.FOR.MAN	UNIFI	Croatian	LLA, LWS, PORTUGAL	Latvian, German, Portuguese	Text	Article to be published in the Newsletter	Forest owners, forest managers, forest owner collectives, public administration
CEKOM	ITHub 1	20	Online tool for quality classification of round-wood (eGOZD)	eGOZD	GIS	Croatian	GIS	Slovenian	Text	Technical paper to be published in technical magazine	forest owners, scientists, farmers
FC.ID	ITHub 3	34	Efficient Sampling Methodology for Calculating Soil Carbon Credits (CO2MARCHE)	CO2MARCHE	UNIFI	Portuguese	CEKOM, CNPF, EFI	Croatian, France, Finnish	Text	Technical review to be publish in Journal	Forestry advisors and managers
FC.ID	ITHub 4	3	Identification of compounds of industrial interest	GO Pinus Resina	FC.ID	Portuguese	LLA, EFI	Latvian and Finnish	Text	Technical report or long magazine article	Policy makers directly involved in CAP at local/national level. Students in forestry and agroforestry. Agroforestry based secotrs; Forestry-based sectors;

ANSUB	3	1	Biomass accounting for Sustainable Forest Management Plans	GO-SURF	UNIFI	Portuguese	CNPF, Spain	French, Spanish	Text	Technical review to be published in Journal	Managers, technological centers, and companies
BOSCAT	ITHub 1	5	A System for Quality Assessment of Forestry Contractors	eGOZD	GIS	Spanish	GIS, EFI, Portugal	Slovenian, Finnish, Portuguese	Video	YouTube (FOREST4EU YouTube channel and other channels)	Forest owners
BOSCAT	ITHub 3	9	Support multi-object forest management plans through easy-access information (GO-PRI.FOR.MAN)	GO-PRI.FOR.MAN	UNIFI	Spanish	CEKOM, UNIFI, GIS	Croatian, Italian and Slovenian	Text	Magazine article (published in journal and website)	Forest managers
CESEFOR	4	19	Endothermic treatments with <i>Trichoderma</i> spp. to control fungal diseases in chestnut groves	OG INGECA	UNIFI	Spanish	UNIFI, LWS	Italian, German	Video	Webinar or video (FOREST4EU YouTube channel and other channels)	Chestnut growers and associations
CESEFOR	ITHub 4	1	Resin Data Observatory	GO RESINLAB	CESEFOR	Spanish	None	No translation	video	YouTube (FOREST4EU YouTube channel and other channels)	Resin industry, managers and forest owners
USC	ITHub 5	33	New management practices in rainfed olive groves (GO Olival)	GO Olival	ANSUB	Croatian	CEKOM, UNIFI	Croatia, Italian	Video	YouTube (FOREST4EU YouTube channel and other channels)	Advisors, farmers, category associations, public administrations

LLA	ITHub 4	21	Valorization of a neglected plant	SambucusValor	Solutopus	French	CNPF, LWS	French, German	Text	Article to be published in the project website and newsletter	Managers and experts
LLA	ITHub 5	31	Are short rotation coppice a solution in future regional biorafineries? (OG TCR)	OG TCR	CNPF	Latvia	CEKOM	Croatian	Video or Text	Video o magazine article	Forestry-based sectors
UNIFI	ITHub 1	2	Standardization of available forest data: the first step to support wood mobilization in Friuli Venezia Giulia	GO-PRI.FOR.MAN	UNIFI	Italian	PORTUGAL	Portuguese	Video	YouTube (FOREST4EU YouTube channel and other channels)	Forest owners, advisors, public administrations, citizens
UNIFI	ITHub 2	7	Chestnut forests management for quality products and promote C sequestration (CASTANI-CO)	CASTANI-CO	UNIFI	Italian	CEKOM, Spain	Croatian, Spanish	Video	YouTube (FOREST4EU YouTube channel and other channels)	Public administration, category associations, Coldiretti, chestnut growers
LWS	ITHub 1	28	Di-Gozd Digital Forest Inventory - Mobile app (Di-Gozd)	Di-Gozd	GIS	German	CEKOM	Croatian	Text	Informative article to be published in a technical magazine	Forest owners, forest managers, public administration, advisors
LWS	ITHub 2	1	Bioclimsol : a decision support system integrating future climate	OG SPNA	CNPF	France	CNPF, GIS, EFI, Spain	French, Slovenian, Finnish, Spanish	Text	Technical review to be publish in Journal	forestry advisors and managers

			and ground conditions								
EFI	4	32	Diversification of edible wild mushroom cultivation with new native species	OG TEb Verd / BoletBenFet	BOSCAT	Finnish	Spain	Spanish	Text	Magazine article or press note	Farmers, forest owners, general public
EFI	ITHub 5	32	A feasible step-by-step plan with practical guidelines and concrete designs to enable the application of agroforestry on farms	Experiment Agroforestry Noord-Holland	EFI	Finnish	UNIFI, LLA, LWS, GIS	Italian, Latvian, German, Slovenian	Text	Technical article to be publish in Journal	Forest owners and forest advisors
CNPF	ITHub 1	21	Web-based due diligence and traceability system for forest timber assortments (eGOZD)	OG eGozd	GIS	French	CEKOM, UNIFI, LLA, LWS, SPAIN	Croatian, Italian, Latvian, German, Spanish	Text	Technical paper to be published in technical magazine	Value chain entities, forest technicians, forest owners, forest enterprises
CNPF	ITHub 1	1	Growing Stock Volume Map to support forest operation planning	GO-SURF	UNIFI	French	Portugal, Spanish	Portuguese, Spanish	Text	Article to be published in the Newsletter	forestry advisors, managers and experts
GIS	ITHub 2	17	Application of SlideforMap for the hydrological risk assessment in sustainable managed forests	BIOSEIFORTE	UNIFI	Slovenian	UNIFI, CNPF	Italian, French	Text	Technical article to be publish in Journal	managers and experts



SOLUTOPUS	ITHub 4	21	Valorization of a neglected plant	SambucusValor	Solutopus	Portuguese	GIS	Slovenian	written	Technical report or long magazine article	agricultural and forestry associations, forests owners, farmers, scientists
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**Table 12:** Third batch of capacity-building material with leading and contributing partners, formats and channels and target audience.

Leading partner	ITHub	Innovation N	Innovation name	Operational Group	Partner in contact with OG	Language of capacity building material	Supporting partners	Languages to be translated	Format	Format details and Channel	Target audience
CEKOM	ITHub 3	23	Technology at the service of forest renewal - mapping with drone and GPS to stake out the stand (PIF)	PIF	CNPF	Croatian	CNPF	French	Text	Technical review to be publish in Journal	Forestry advisors, managers and experts, R&D agents
CEKOM	ITHub 4	6	The Burgundy truffle, a quality product with high added value (OG BIJOU)	OG BIJOU	CNPF	Croatian	CNPF	French	Video	YouTube (FOREST4EU YouTube channel and other channels)	Government services, researchers
SOLOTOPUS	5	27	Evaluation of the impact of different grazing intensities of Maremma cattle on the components of the	NEWTON	UNIFI	France	CNPF	French	Text	Technical review to be publish in Journal	Forestry advisors, managers and experts, researchers

			agroecosystem: soil, tree vegetation (structure, natural regeneration and biodiversity)								
CESEFOR	2	9	Participative simulation game "Foster Forest"	EUROFORNORM	CNPF	Spanish	EFI	Finnish	Text	Article to be published in the project website and blogs	Forest owners, public administration,
BOSCAT	3	27	Decisional Support System to support the revision of forest management plans	GO-FOR.TRACK	UNIFI	Germany	LWS, Portugal	German, Portuguese	Text	Article to be published in the project's newsletter	orest owners, forest managers, forest owner collectives
LLA	ITHub 3	32	Group Certification for Sustainable Forest Management: Promoting Shared Forest Management and Ecosystem Services Enhancement	CO2MARCHE	UNIFI	Italy	UNIFI	Italian	Text	Technical article to be publish in Journal	Forest managers and forest owners
LLA	ITHub 4	4	Post harvest cotings from mushroom by products	Micocoating	FC.ID	Latvian	UNIFI	Italian	Text	Dissemination article	Packaging companies, Value chain, industrial networks, mushroom

											hunters associations,
UNIFI	ITHub 4	5	Valuate the traditional chestnuts production	VolorCast	SOLUTOPUS	Italian	Spain	Spanish	Text	Technical article to be publish in Journal	Chestnut growers and associations
UNIFI	5	4	Use of Keyline for planting cork oaks and holm oaks in agro-forestry systems	EcoMontadoXXI	ANSUB	Italian	GIS, Portugal	German	Video or Text	Webinar or article to be published in the project newsletter	Forest owners, farmers and advisors
LWS	ITHub 3	36	Index of Biodiversity Potential (IBP): a practical tool for forest managers	OG Douglas	CNPF	Italy	UNIFI, LLA, GIS, EFI	Italian, Latvian, Slovenian, Finnish	Text	Practical manual	Forest owners, forest managers
LWS	ITHub 3	28	A User-Friendly Platform for Bridging the Gap between Carbon Credit Demand and Supply.	CO2MARCHE	UNIFI	German	LLA	Latvian	Text	Technical article to be publish in the newsletter	Forest owners, forest managers, forest owner collectives, forest administration
EFI	ITHub 5	13	Practitioner-oriented consulting for agroforestry systems in Austria (Agroforst in Österreich)	Agroforst in Österreich	StMELF-LWF	Croatia	CEKOM, GIS, LWS	Croatian, Slovenian and German	Text	Magazine article	Forest owners and forest advisors

EFI	5	12	“Agroforestry in Austria” Network	Agroforst in Österreich	StMELF-LWF	Finnish	GIS, LWS	Slovenian, German	Text	Magazine article	Forest owners, farmers, advisors, associations
CNPF	3	4	Vigil'ence : Participatory science tool for epidemiological surveillance of chestnut ink	OG SPNA	CNPF	French	EFI	Finnish	Text	Technical review to be published in journal	Forest advisors, forest owners
GIS	ITHub 3	3	The ARCHI method : a tool for diagnosing the vitality of trees (OG SPNA)	OG SPNA	CNPF	Slovenian	CEKOM	Croatian	Text	Technical review to be published in journal	Scientist, forest owners and managers
GIS	ITHub 5	17	Local densified log industry	BUCHDENS	CNPF	Slovenian	GIS	Latvian	Text	Magazine article	Farmers and forest owners

## 7. Timeline

A detailed timeline for each batch of capacity-building materials, including the responsible partner and the deadline, is presented below (Tables 13, 14 and 15).

**Table 13:** Timeline for the first batch of capacity-building material

Activity	Responsible	Deadline
Develop the capacity-building material in the correct format tailored for the target audience in local language and English	Leading partner	31/05/2024
Translate the capacity-building material to local language	Supporting partners	07/06/2024
Make the capacity-building material available in the project website	Leading partner	14/06/2024
Secure publication of the capacity-building material in selected channels	Leading partner and supporting partner	Sep-24

**Table 14:** Timeline for the second batch of capacity-building material

Activity	Responsible	Deadline
Develop the capacity-building material in the correct format tailored for the target audience in local language and English	Leading partner	September 2024
Translate the capacity-building material to local language	Supporting partners	October 2024
Make the capacity-building material available in the project website	Leading partner	November 2024
Secure publication of the capacity bundling material in selected channels	Leading partner and supporting partner	Feb-25

**Table 15:** Timeline for the third batch of capacity-building material

Activity	Responsible	Deadline
Develop the capacity-building material in the correct format tailored for the target audience in local language and English	Leading partner	April 2025
Translate the capacity-building material to local language	Supporting partners	May 2025
Make the capacity-building material available in the project website	Leading partner	June 2025
Secure publication of the capacity-building material in selected channels	Leading partner and supporting partner	August 2025

## 8. Evaluation of uptake

The evaluation of the uptake of the capacity-building material will involve an assessment on how effectively the audience is engaging with and utilizing the resources provided. Depending on the material provided the strategy to evaluate uptake might vary. However, in general, the process will include:

1. **Metrics:** Track quantitative metrics such as the number of downloads or views of the material.
2. **Feedback Surveys:** We will conduct surveys to gather feedback from the stakeholders. Ask questions about the relevance, usefulness, and accessibility of the material. This will be done after the first and second bath of capacity-building material and the feedback gathered will be used for improvement.

3. **Comparative Analysis:** Compare uptake and engagement metrics across different countries or stakeholders' groups. This can help identify any disparities in access and inform targeted interventions.
4. **Longitudinal Analysis:** Monitor uptake and usage of the material over time to assess its sustainability and long-term impact.
5. **Iterative Improvement:** Use the feedback and insights gathered from evaluation activities to iteratively improve the capacity-building material.

## 9. Study visits

As part of the FOREST4EU project, five international visits will take place (subtask coordinated by USC). To determine which OGs should be visited, the different stakeholders were asked about their preferences during the national workshops. Additionally, they were asked to indicate, when possible, a preferred time of the year to visit the different OGs. The answers collected in all the national workshops were pulled together and the tree OGs per each ITHub that were more frequently preferred by the stockholders were identified. As a result of this analysis OGs located in six countries were identified (Table 16).

Once the first batch of capacity-building material is completed, the OGs chosen by stakeholders will be contacted and inquired about their willingness to host visits from international stakeholders. Based on the response of the operational group coordinator, the list of OGs to visit will be refined, and 5 international visits will be planned.

**Table 16:** List of potential OGs to visit in the context of the FOREST4EU project in decreasing order of preference with an indication of the preferred time for the visit

ITHub	Operational Group	Country of the Operational Group	Proposed time to the visit
1	GO-SURF	Italy	Any time in 2025
1	eGodz, Slovėnija	Slovenia	Autumn-Winter 2024 or year 2026
1	GO-PRI.FOR.MAN	Italy	Spring 2024
2	EUFORNORM (France)	France	No preference
2	Bienenwald (bee forest)	Germany	No preference
2	CASTANI-CO	Italy	No preference
3	BIOSEIFORTE	Italy	Any time in 2025
3	GO.FOR.TRACK	Italy	No preference
3	PIF	France	Any time in 2025
4	INGECA	Italy	Any time in 2025
4	MICOATING	Portugal	No preference
4	SambucusValor,	Portugal	Autumn-Winter 2024 or year 2042
5	Agroforst in 6sterreich	Austria	No preference
5	NEWTON	Italy	Spring 2024
5	BUCHDENS	France	Autumn-Winter 2024 or year 2025

# 10. Annex: Recommendations to develop the capacity-building material

## Writing

1. Prepare Before You Write: Think about who you're writing for, what message you want to convey, and the impact you aim to achieve.
2. Establish Credibility: Build trust by doing thorough research, verifying your facts, and writing with accuracy and professionalism. Provide links to reputable sources.
3. Adopt the Right Tone: Keep your writing conversational, like chatting at the dinner table, but maintain authority. Use language that your audience can understand and connect with.
4. Develop a Publishing Plan: Focus on quality over quantity. Determine the best platforms to share your work and decide how often you should publish.
5. Utilize a Strong Structure: Follow the story arc: start with a captivating beginning, provide context in the middle, and end with a powerful conclusion. Will your audience be engaged and compelled to return?
6. Craft a Tweetable Headline: Summarize your key message in 140 characters or less to create a headline that grabs attention and encourages sharing.
7. Write an Engaging Teaser: The teaser serves as a concise summary that enhances the headline. For many readers, this may be the only part they read, so make it impactful.
8. Enhance with Visuals: Visuals are essential for drawing readers in. A compelling photo can entice them to click on your link. Break up your text with images, quotes, and relevant links.
9. Increase Discoverability: Help your target audience find your content by optimizing for search engines. Pay attention to headlines, subheadings, captions, keywords, and include high-quality links.
10. Review and Revise: Continuously edit, refine, and monitor your work. If you don't have an editor, review your writing critically. Take note of reader feedback and make adjustments to improve clarity.

## Magazine article

The specific style and structure of the articles can vary significantly among magazines. Nevertheless, some general recommendations can be formulated to ensure the article is engaging, informative, and well-structured. In general, it is encouraged to take into consideration the following steps.

1. Identify the magazine and read several issues to get familiar with the style, audience and content focus. Contact the editor to inform your intention to publish a magazine article, indicate the topic, the angle you plan to take and why it matters to the magazine's readership. Additionally, ask for information about the "editorial calendar" and style recommendations. Take into consideration that, in general, magazines work about two to three months in advance of the publication date.
2. Research thoroughly: contact the OG that developed the innovation and collect all relevant information, pictures, videos and any relevant material. Organize the material effectively.
3. Write a strong headline: Craft a headline to grab attention and provide a hint about the article's subject. Begin with a compelling paragraph that enables you to hook the reader and establish the tone for the rest of the article.
4. Outline the content. Articles should typically be no longer than the equivalent of four to six magazine pages (2000 to 3000 words with 6 to 10 graphic elements e.g. figures, tables, photographs, etc.) but depends on the magazine and topic addressed. As an example, the content could be outlined as:
  - 4.1. Introduction: indicate what you'll say and why the reader should spend the time reading your article, then say it, then conclude with what you told them and why it was worth reading. Make sure that you include the most important information in the title and first paragraph to make sure you attract the readers.

- 4.2. Main content: Brevity and clarity are essential in magazine writing. Use active voice to make your writing more direct and easier to understand. It's best to break the main topic into sub-topics, as this will help clarify points and the transition among subtopics.
  - 4.3. Conclusion: Summarize key points and conclusions in the final paragraphs and wrap up with a conclusion that reinforces the article's key takeaways.
  - 4.4. References: cite all references mentioned in your article using a consistent style.
  - 4.5. Figures: Figures are very important, because most readers absorb information visually. If possible, include figures, images or diagrams that help to understand the topic. Use numbered captions (e.g. "Figure 1"). If "borrowing" a figure from another source, you must provide source credit (e.g. "Image, courtesy, XYZ.") following the caption. It's ideally to obtain written permission from the author or publisher. Figures/photos must be good resolution.
5. Revise and Edit: Review your article for clarity, coherence, and accuracy. If possible, get feedback from others before finalizing your article. Proofreading is an important step that includes not only correcting typos or grammatical mistakes but also ensuring the article flows well and makes sense.
  6. Submission: Adhere to their editorial guidelines of the magazine regarding word count, tone, and formatting. After revision/editing the article will be returned to you for your final corrections and approval. At this stage pay close attention to typos and formatting issues as once printed it is very difficult to make corrections. At the final stage the magazine will ask you to sign a copyright release and agreement to publish.

### Technical report

A technical report is a formal report designed to convey technical information in a clear and easily accessible format. It is normally divided into sections allowing readers to access different levels and parts of the information.

General recommendations are presented here, including the commonly accepted format for a technical report, an explanation of the purposes of the individual sections, and guidelines on how to draft and refine a report to produce an accurate, professional document.

1. **Structure:** A technical report can be structured including the following sections:
  - 1.1. Title page:
  - 1.2. Summary: A summary of the whole report including important features, results, and conclusions.
  - 1.3. Table of contents: Including all sections and subsections and page numbers
  - 1.4. Introduction: Includes the objectives of the report and how the topic is going to be addressed.
  - 1.5. Body of the report: This part will be tailored according to the content of the report. However, in general is advised to be divided into numbered and headed sections. These sections separate and structure the main ideas in a logical order.
  - 1.6. Conclusions: A short, logical summing up of the main issues addressed in the main text.
  - 1.7. References: Details of the sources of material referred to in the text.
  - 1.8. Bibliography: Other published sources of material not referred to in the text but useful for background or further reading.
  - 1.9. Acknowledgements: List of people who contributed in the technical report including proofreaders.
  - 1.10. Appendices (if appropriate): Any further material which is essential for full understanding of your report.
2. **Report writing:** the process of writing the report can include many steps such as:
  - 2.1. Collecting information: Conduct thorough research on the topic by collecting all the relevant information from the OG that developed the innovation. The information from the OGs can be complemented by other sources of information such as books and journals when relevant.
  - 2.2. Creative phase. Write down topics and ideas from your researched material without worrying about the order. Next arrange your notes into logical groups covering all the topics you plan to include in the report.



- 2.3. Structuring the report. Using your logical sequence of grouped ideas, write out a rough outline of the report with headings and subheadings.
- 2.4. Identify target readers: The identification of the target audience will define the content and technical level and is a major consideration in the level of detail required in the introduction.
- 2.5. Writing the first draft: It is recommended to begin writing the **main text**, not the introduction. Follow your outline in terms of headings and subheadings to break up the text and guide the reader. Keep a numbered list of references as they are included in your writing and put any quoted material inside quotation marks. Next, write the **conclusion** followed by the **introduction**. It is recommended not to write the **summary** until later in the development of the report.
- 2.6. Diagrams, graphs and tables: It is advisable to keep diagrams and graphs simple. In the main text, you must always refer to any diagram, graph or table you used.
- 2.7. Revising the first draft: This is the stage where the report should start looking like a professional, technical document. When revising the document, you must bear in mind that a successful technical report should accurately and concisely convey the intended information to the intended audience.
3. **The report layout:** The appearance of a report is almost as important than its content. An attractive, clearly organized report stands a better chance of being read.
4. **Originality and plagiarism:** Make sure that you indicate in the text with a reference whenever you make use of other people's ideas and include such information in a reference list. Any phrases, sentences or paragraphs which are copied unaltered must be enclosed in quotation marks and referenced and included in the reference list. Beware that it is not correct to list the sources of information at the end of the report; all the sources of information should be individually referenced within the report.
5. **Appendix:** if needed an appendix can be included to complement the information presented in the report. However, keep in mind that the information provided in the report should be enough to fully understand the topic without consulting the appendix.
6. **Finalizing the report:** When the report is ready with an introduction, main text divided in sections, conclusions, properly formatted references and appendices (if needed) it is time to write the summary.
7. **The Summary:** should be short (150-300 words) and indicate the scope of the report and inform about the main results and conclusions. It must be intelligible without reading the rest of the report.
8. **Proofreading:** It is advisable to give the report to someone else to read carefully and check for any errors in content, style, structure and layout. You should acknowledge this contribution in your acknowledgments section.

### Blog piece

Here, you'll find straightforward advice on how to write articles that are both concise and captivating. These tips are designed to help you present your scientific and technical contributions in a way that engages readers and effectively communicates with diverse audiences.

**Before starting:** take a moment to think about these five things before you begin:

1. Identify your audience: it is important to think about not just who might read it, but who you want to read it. Try to understand your audience's interest.
2. Identify what do you hope to achieve with your article: Do you want to spark a discussion about the findings or encourage the development of new innovations in line with the one you are presenting? Do you want to engage a particular type of stakeholder?
3. Understand and keep in mind why this information is relevant: Use this question to think about how you can convince others that the work you are presenting is important.
4. Keep in mind what impression you hope to leave: Keep in mind the impression you hope to leave with your readers. This is where the tone and style of your post may be essential.

5. **Do your research:** Explore how other contributors have framed their posts and read other engaging scientific and technical blogs. Be inspired!

### Writing your blog post

1. **Find the hook:** The hardest part of writing a blog can be figuring out where to start. With very technical work, it can involve figuring out the pieces of your work that someone else can relate to. As a starting point, think about what makes your work unique. Thinking creatively about the catchiest parts of your work can help grab readers.
2. **Get Framed:** When you're writing your blog post, think of it as a story that you're telling. What is your plot? Think of the elements of a story: the introduction, rising action, the climax, and the resolution.
3. **Set the Scene:** When crafting your blog post, consider who the key "characters" are in your narrative. These characters can include real-life stakeholders as well as significant elements of your work such as mushrooms, wildfires, or drought. Viewing these elements as characters allows you to shape their role in your story and guide how they drive the plot toward your desired outcome. It's also crucial to understand the backdrop of your narrative: what makes the context of your findings unique or universal, when the work occurred, etc. By considering all these components, you can create a dynamic story, make your message relatable, and amplify your impact.
4. **Get Personal:** In a blog post, you are the expert. Don't be afraid to write about your experiences; about what's important or interesting for you and stay professional, but don't be stuffy.
5. **Show and Tell:** Striking a balance between science or technical work and storytelling is kind of an art. To keep your readers interested in your article, make sure to explain how you arrived at your conclusion and provide background information to help them understand why your findings matter. This not only keeps them engaged but also empowers them with new knowledge. Remember, people enjoy feeling knowledgeable, and your article is a chance to enhance their understanding!

### Other important issues to take into account

1. **Jargon check:** Before you begin, make a list of the jargon and technical terms that appear most frequently in your work and for each of them try to identify alternatives that anyone could understand and use them. If the technical term is central to understanding your work, think of how you can explain it so that it makes sense to a broad readership.
2. **Title:** Choosing the title for your piece can influence who reads your article and what they expect to learn from it. Try to achieve a balance between catchy and informative.
3. **Picture:** Adding a visual component to your blog post can help increase its visibility and enhance the quality of your story.

### Video

6. **Understand Your Audience:** Tailoring your message to your audience doesn't mean simplifying it. It's about making your language more accessible to connect with a broader range of people.
7. **Film Horizontally:** Unless it's for social media, always hold your camera horizontally to capture better footage. When taking a selfie, keep the camera steady and maintain eye contact with the lens, not the screen.
8. **Mind the Lighting:** Ensure that the light source is directed onto your subject. If needed, improvise by using items like white paper or T-shirts to bounce light and reduce shadows.
9. **Ensure Good Audio:** Position an external microphone towards the speaker's mouth for clearer sound. In the absence of one, choose a quiet location for interviews or recordings.
10. **Follow the 3-Second Rule:** Commence recording, pause for three seconds before the action starts, and then pause for another three seconds before stopping. This facilitates smoother editing during post-production.
11. **Document the Process:** Capture each phase of your story, from initial thoughts to key moments during the process, and your reactions afterward.
12. **Capture a Variety of Shots:** Film your surroundings, close-ups of your work, and interviews or reactions from your team. Experiment with different angles, including low or high perspectives, for dynamic footage.
13. **Stay with the Action:** Record as much of the action as possible, whether it's your team collecting samples or exploring a forest. Consider using a GoPro for hands-free recording in active environments.

14. Include Yourself and Others: Showcase not only the work being done but also the people behind it. Let personalities and enthusiasm shine through to add depth to your story.

**See the following links for more information about video making**

<https://education.nationalgeographic.org/resource/creating-video-story-sandesh-kadur/>

<https://blog.education.nationalgeographic.org/2020/04/30/strategy-share-how-to-make-simple-videos-to-transport-your-students-and-transform-their-learning/>

**Consulted bibliography**

Harsono, Y. M. (2015) Developing Learning materials for Specific Purposes. TEFLIN DOI: 10.15639/TEFLINJOURNAL.V18I2/169-179 <https://core.ac.uk/download/pdf/233168065.pdf>

[https://socialsci.libretexts.org/Bookshelves/Education\\_and\\_Professional\\_Development/Book%3A Education for a Digital World -](https://socialsci.libretexts.org/Bookshelves/Education_and_Professional_Development/Book%3A_Education_for_a_Digital_World_-_Advice_Guidelines_and_Effective_Practice_from_Around_Globe_(Hirtz)/06%3A_The_Impact_of_Technology_on_Education/6.4%3A_Design_Principles_for_Developing_Learning_Materials_for_Emerging_Technologies)

[\\_Advice Guidelines and Effective Practice from Around Globe \(Hirtz\)/06%3A The Impact of Technology on Education/6.4%3A Design Principles for Developing Learning Materials for Emerging Technologies](https://socialsci.libretexts.org/Bookshelves/Education_and_Professional_Development/Book%3A_Education_for_a_Digital_World_-_Advice_Guidelines_and_Effective_Practice_from_Around_Globe_(Hirtz)/06%3A_The_Impact_of_Technology_on_Education/6.4%3A_Design_Principles_for_Developing_Learning_Materials_for_Emerging_Technologies)

<https://www.clippings.me/blog/how-to-write-a-magazine-article/>