Project acronym / name	Description	Website link	Project category	Project category/funding	Start date	End date	Status	Speaker(s)	Session
SUCSEED	Develops sustainable alternatives to pesticides by tackling seed-transmitted pathogens and damping-off in key crops through **enhanced seed defenses**, **engineered microbiota**, and **bio-innovative treatments**.	https://www.cultiver-proteger-autrement.fr/eng//projects/sucseed	Innovative Plant Protection Solution	National project (FR)	2020	2026	Ongoing	**Matthieu Barret** - National Research Institute for Agriculture, Food and Environment (**INRAE**)	Morning : 10:15 - 11:30 (Breakout Group 1)
AGRO4AGRI	Aims to pioneer **solutions for plant nutrition and protection** safe for the environment and for farmers such as nano and bio-based controlled delivery fertilisers, plant bio-stimulants, and **bio-pesticides based on RNAi technology (nematicides)**	https://agro4agri.eu/	Innovative Plant Protection Solution	Horizon Europe	2024	2028	Ongoing	**Paloma Juárez - AINIA**	Morning : 10:15 - 11:30 (Breakout Group 1)
VIRTIGATION	Will develop a **broad range of solutions** to fight emerging viral disease caused by begomoviruses and tobamoviruses in tomatoes and cucurbits , including **vaccines for the plants, biopesticides against virus vectors and Integrated Pest Management (IPM) strategies**, to tackle these aggressive viruses.	https://www.virtigation.eu/	Innovative Plant Protection Solution	Horizon 2020	2021	2025	Ongoing	**Kumar Vasudevan - KU Leuven**	Morning : 10:15 - 11:30 (Breakout Group 1)
PresiHøstkorn	Reduced use of herbicides in cereal - damage thresholds for precision spraying in autumn cereal	https://www.nibio.no/prosjekter/presihostkorn-redusert-forbruk-av-ugrasmidler-i-korn-skadetersikler-for-presisjonssproyting-i-hostkorn?locationfilter=true	Novel Application Techniques	National project (NO)	2020	2025	Ongoing	**Therese Berge** - Norwegian Institute of Bioeconomy and Research (**NIBIO**)	Morning : 10:15 - 11:30 (Breakout Group 1)
COPPEREPLACE	Aims to implement **VRA technology** in vineyard based on satellite imagery to reduce copper in vineyard plantations. Develops alternative methods as **microencapsulated products**, as an **alternative to regular copper** on ecological vineyards in Europe.	https://coppereplace.com	Novel Application Techniques	Interreg-SUDOE	2020	2023	Closed	**Emilio Gil Moya** - Polytechnic University of Catalonia · Barcelona Tech (**UPC**)	Morning : 10:15 - 11:30 (Breakout Group 1)
NATURAL AGRO	Aims to reduce the use of pesticides and fertilizers by proposing an innovative solution for the current market, through the development of **new formulations** (aims on the reduction and even **elimination of the use of xenobiotic compounds** in plant protection products)	https://www.lifenaturalagro.eu/	Innovative Plant Protection Solution	Life Programme	2023	2028	Ongoing	**Valerio Borzatta & Matteo Michelini - NDG GROUP**	Morning : 10:15 - 11:30 (Breakout Group 2)
ORCHESTRA	Focuses on sustainable practices for Rocha pear and Alcobaça apple production, using **seaweed-based bio-formulations to replace synthetic chemicals**, enhance pest control, and improve soil quality. It also aims to extend fruit shelf life and preserve phytonutrients.	https://mare.ipleiria.pt/marine-biotechnology/orchestra-add-value-to-orchards-through-the-full-valorisation-of-macroalgae/	Innovative Plant Protection Solution	National project (PT)	2021	2023	Closed	**Marco Lemos** - Polytechnic of Leiria (**IPLeiria**)	Morning : 10:15 - 11:30 (Breakout Group 2)
BHAS (Bioactive Hemp Agriculture Support)	Aims to extract from **hemp waste products** (Cannabis sativa L.) **essential oil** of quality containing **active ingredients with insecticidal and/or fungicidal action, in order to develop a product that can be used in organic agriculture**, and to develop a commercial formulation.	https://bhas.unicam.it/	Innovative Plant Protection Solution	CAP project (OGs)	2019	2022	Closed	**Filippo Maggi** - Univeristy of Camerino (**Unicam**)	Morning : 10:15 - 11:30 (Breakout Group 2)
PHAntastic	Development of **biodegradable polymers** as **delivery systems** (mulch films / growth foams) that contain bioproducts including Plant protection Products	https://cordis.europa.eu/project/id/101130073	Novel Application Techniques	Horizon Europe	2024	2028	Ongoing	**Antonio Bernal - Probelte**	Morning : 10:15 - 11:30 (Breakout Group 2)
RELACS	Aims to reduce reliance on contentious inputs in organic farming by developing and **promoting cost-efficient, environmentally safe alternatives**. A key focus is **phasing out copper in plant protection** by evaluating and **promoting alternative solutions**.	https://relacs-project.eu/	Innovative Plant Protection Solution	Horizon 2020	2020	2024	Closed	**Lucius Tamme - Agroscope**	Morning : 10:15 - 11:30 (Breakout Group 3)
NextFUMIGREEN	Aims to develop **natural fumigants**, based on active substances extracted from **plant extracts**, for the control of whitefly populations and other pests in horticultural crops grown in greenhouses	https://lifefumigreen.finnova.eu/	Innovative Plant Protection Solution	Life Programme	2022	2027	Ongoing	**Carlos Ramos - FumiHogar**	Morning : 10:15 - 11:30 (Breakout Group 3)
BIOVEXO	Develops **innovative biopesticides to reduce chemical pesticide use** and enhance plant protection **against Xylella**. These will be tested at large pilot scales in Apulia, Italy, and Mallorca, Spain, focusing on **traditional and newly planted olive plantations and almond trees**	https://biovexo.eu/	Innovative Plant Protection Solution	Horizon 2020	2020	2025	Ongoing	**Pasquale Saldarelli** - National Research Council (**CNR**)	Morning : 10:15 - 11:30 (Breakout Group 3)
CSinDouro	Aims to develop a methodology for **applying Sexual Confusion (SC)** to control grape moths in the Douro Region. It focuses on **optimizing diffuser placement**, considering surrounding vegetation, and adapting international diffuser models to improve efficiency and reduce costs.	https://www.advid.pt/pt/csindouro-confusao-sexual-contra-a-traca-da-uva-em-viticultura-de-montanha-caso-particular-da-regiao-demarcada-do-douro	#NAME?	National project (PT)	2018	2021	Closed	**Cistina Carlos** - University of Trás-os-Montes and Alto Douro (**UTAD**)	Morning : 10:15 - 11:30 (Breakout Group 3)
BioBIVE	**BIOdegradable delivery systems** for plant pathogens control of horticultural crops through **Bio-actiVE agents**; combination of three release bio-based platforms (bioplastic mulch, biochar, sprayable mulch) and three bioactive agents (basic substances, microorganisms, seaweed derivates)	https://cordis.europa.eu/project/id/101130442	Novel Application Techniques	Horizon Europe	2024	2028	Ongoing	**Carlos Barreiro** - Universidad de León (**Unileon**)	Morning : 10:15 - 11:30 (Breakout Group 3)
Biological and Mechanical protection of coniferous seedlings	Development and testing of biological and mechanical protection methods of coniferous seedlings against pests in forests damaged by large-scale calamities		Innovative Plant Protection Solution	National project (SK)	2022	2024	Ongoing	**Andrej Kunca** - National Forest Centre of Slovakia (**NSLK)**	Afternoon : 14:00 - 15:15 (Breakout Group 4)
EXCALIBUR	Aims to e**nhance soil biodiversity knowledge and its effects on horticulture through innovative bio-inocula**, focusing on plant-soil interactions and sustainable practices, including to implement novel bio-products and formulations by indentifying combinations of already available beneficial microbial strains with different bio-effectors for the selected cropping systems.	https://excaliburh2020.eu/	Innovative Plant Protection Solution	Horizon 2020	2019	2025	Ongoing	**Maximo Pugliese**- University of Turin (**Unito**)	Afternoon : 14:00 - 15:15 (Breakout Group 4)
PrunusBot	Focuses on developing **autonomous robots** for orchards to recognize weeds and fruit, using multispectral cameras. It includes a **precision sprayer for weed control** and evaluates its impact on fruit quality.		Novel Application Techniques	National project (PT)	2018	2021	Closed	**Pedro Dinis Gaspar** - University of Beira Interior (**UBI)**	Afternoon : 14:00 - 15:15 (Breakout Group 4)
Asterix	The Kilter AX-1, born from Asterix research project and now marketed by Kilter Systems, is an **ultra-precise weeding robot for vegetables**. Using **single-droplet technology**, it applies herbicide with sub-centimeter precision, targeting only weeds. This innovation **reduces herbicide use by up to 95%**, minimizes environmental impact, lowers costs, and enhances food production quality.	https://www.kiltersystems.com/	Novel Application Techniques	Horizon 2020	2018	2020	Closed	**Aleksander Sendrowicz - Kilter Systems**	Afternoon : 14:00 - 15:15 (Breakout Group 4)
SAGROPIA	Aims to reduce harmful pesticides in potato and sugar beet cultivation by substituting them with **biological alternatives**, bringing forward thirteen **biological and low-risk pesticide**s from promoting integrated pest management and farmer engagement.	https://sagropia.eu/	Innovative Plant Protection Solution	Horizon Europe	2024	2028	Ongoing	**Günter Brader** - Austrian Institute of Technology (**AIT**)	Afternoon : 14:00 - 15:15 (Breakout Group 5)
NextGenBiopest	Provides a new **toolkit for plant protection** (vegetables/fruit) including diagnostics for pest and pathogen , novel **Biological Control Agents** , **RNA-based pesticides**, **Low Risk/Green chemicals**, **plant resistance inducers** and innovative agronomic and ecological practices.	https://www.nextgenbiopest.eu/	Innovative Plant Protection Solution	Horizon Europe	2024	2028	Ongoing	**John Vontas** - Institute of Molecular Biology and Biotechnology of the Foundation for Research and Technology Hellas (**IMBB-FORTH**)	Afternoon : 14:00 - 15:15 (Breakout Group 5)
GO_PHYTODRON	Promotes **drones for applying plant protection products**, advocating for regulatory changes to categorize them differently from conventional aerial applications. It involves a comprehensive study **assessing residues, environmental drift and human exposure.**	https://observatorioagroalimentario.com/proyectos/GOS/dronsafe	Novel Application Techniques	CAP project (OGs)	2023	2027	Ongoing	**José Luis Alonso Prados** - National Institute for Agricultural and Food Research and Technology (INIA)	Afternoon : 14:00 - 15:15 (Breakout Group 5)
Exposure of residents/bystanders towards spray drift (Bystander 2.0)	**Investigates potential health risks of pesticide spray drift** to bystanders and residents near orchards, by collecting field data on exposure levels during the application of PPPs. The study includes data on dermal, inhalation, and sediment exposure and explores factors like **drift-reducing techniques** and the **use of UAVs (drones) in pesticide application**.	Results of the project have been published: https://doi.org/10.5073/JFK.2023.05-06.03 https://link.springer.com/article/10.1007/s00003-023-01468-3	Novel Application Techniques	National Project (DE)	2018	2027	Ongoing	**Katrin Ahrens -** Julius Kühn Institute - Federal Research Centre for Cultivated Plants **(JKI)**	Afternoon : 14:00 - 15:15 (Breakout Group 5)
BETBIO	Development of sustainable biocontrol strategies for o**rganic sugar beet farming**, aiming to reduce reliance on technical inputs while enhancing crop resilience. By integrating innovative tools and techniques, it seeks to promote **biodiversity,** improve **soil health**, and support **environmentally friendly agricultural practices**.	https://www.betbiocoprob.it/	Innovative Plant Protection Solution	CAP project (OGs)	2018	2021	Closed	**Piergiorgio Stevanato - DAFNAE -** University of Padova (**Unipd**)	Afternoon : 14:00 - 15:15 (Breakout Group 6)
VINNY	Development of sustainable, **low-cost nanoformulated (nano encapsulation) biopesticides (nanoBPs)** for a circular and sustainable viticulture (evaluating efficacity and safety in vitro + in planta); Developing of agrotextiles impregnated with nanoBFS	https://www.projectvinny.eu/	Innovative Plant Protection Solution	Horizon Europe	2024	2028	Ongoing	**Margarida Fernandes** - Centre for Microelectromechanical Systems (**CMEMS**), University of Minho (**Uminho**)	Afternoon : 14:00 - 15:15 (Breakout Group 6)

Susweco	Sustainable weed control in cereals by **combining subsidiary crops and minimal soil disturbance** (subsidiary crops and mechanical weed control). It will also **test if bioherbicides (e.g. pelargonic acid)** and a specially adapted harrow can be parts of strategies eliminating both subsidiary crop and weeds before new crop is established.	https://prosjektbanken.forskningsradet.no/project/FORISS/336475	Innovative Plant Protection Solution	National project (NO)	2023	2027	Ongoing	**Lars Olav Brandsæter** - Norwegian University of Life Sciences (**NMBU**)	Afternoon : 14:00 - 15:15 (Breakout Group 6)
ICAERUS	Aims to promote the effective, efficient, and safe deployment of **drones**, while identifying the risks and added values associated with their use, including the **spraying of Plant Protection Products (PPPs**).	https://icaerus.eu/	Novel Application Techniques	Horizon Europe	2022	2026	Ongoing	**Spyros Fountas** - Agricultural Univeristy of Athens (AUA GR)	Afternoon : 14:00 - 15:15 (Breakout Group 6)
PIVOS	Aims to develop a **PWM-based sprayer for Variable Rate Application** in vineyards and olive trees in Spain, alongside an automatic platform to **integrate remote sensors** (satellites) for creating prescription maps.	https://pivos.upc.edu	Novel Application Techniques	National project (ES)	2020	2023	Closed	**Emilio Gil Moya** - Polytechnic University of Catalonia · Barcelona Tech (**UPC**)	Afternoon : 14:00 - 15:15 (Breakout Group 6)