

UNIVERSITÀ DEGLI STUDI DI TORINO



SC2 Dissemination Event Sustainable Food Security

EMPHASIS

Effective Management of Pests and Harmful Alien Species - Integrated Solutions



emphasisproject.eu

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Project outline



- **Challenge** Native and alien pests threats affecting agricultural and forestry sectors and natural ecosystems.
- Main To objectives me
 - To ensure a European food security system and the protection of biodiversity and of ecosystem services while developing integrated mechanisms of response measures (practical solutions) to predict, to prevent and to protect agriculture and forestry systems from native and alien pests threats.

Approach

PREDICT

PREVENT

PROTECT

pest management challenges and opportunities according to stakeholderfocused criteria practical solutions practical solutions for surveillance in for managing native different pathways, and alien pests tools for monitoring and eradication.

PROMOTE

mutual learning process with endusers, training and dissemination.



Consortium overview





• Regional and Environmental Center for Central and Eastern EU – REC, Hungary;

1 FARMER ORGANISATION

ORGANISATIONS

• Confederazione Generale dell'Agricoltura italiana - CONFAGRICOLTURA, Italy3

Project results



- Initial analytical framework on pest management challenges and achieved **opportunities** (DPSIR model);
- **learning platform:** forum for knowledge exchange;
- **pheromone puffer** for semiochemical use in insect pest management (technology, patent).
- Resistant varieties (ash, wheat) (month 32);
- 20 validated LAMP kits for specific pest detection (month 36);
- new BCAs screened (month 36);
- priority pest risks identified (month 40);
- early detector network of sentinel plots (month 42);
- in progress forecasting scheme for stem rust epidemics on wheat (month 42);
- 2 mini-barcodes (1 for fungi, 1 for insects) for surveillance (month 46)
- IPM protocols (month 38-48);
- sanitation and eradication procedures (month 46).

Plan for exploitation of results emphasisproject.eu Research result Decision to Patenting or secret know-how exploit/protect **Open-acces** publication (green) **Decision to** disseminate/share **Research data Time limited Free Access** repository restricted access

A dedicated project body, the Intellectual Property Use and Dissemination Committee (IPUDC):

- advice on IP management,
- review the exploitation strategy,
- establish guidelines/rules for exploitation.

Main Impacts



Scientific impact	 effective solutions for the prevention and management of pests and IAS; development of science-based tools for improving the productivity and resilience of agriculture and forestry in the context of changing environmental conditions;
Societal impact	 scientific support to the development of relevant EU and International policies; impact on a range of agricultural and forestry production and risk management practices;
Economic impact	 significant economic gains/avoided losses for the European agriculture and forestry; increased product quality and lower environmental impact.

Impact measure



A dedicated task (T1.3): evaluation framework for project outputs



Areas to cover:

- **Relevance**: are the selected solutions what is needed (taking into account the broader context)?
- **Effectiveness**: is there a positive impact (in line with the objectives)?
- **Efficiency**: are the objectives being achieved cost-effectively?
- Added value: what is the advantage of developing the selected solutions, and of EMPHASIS?
- **Coherence**: how do the selected solutions fit with other actions?
- **Sustainability**: are any positive impacts sustainable in the long term?

Dissemination channels





EDITORIAL

EMPHASIS IN FOCUS

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Activities includes the development of the **project website**, **media campaign** (social medias accounts, press releases), **leaflets**, **posters**, **scientific workshops**, **technical and scientific publications** (self-archiving – open access), **summer schools** and the development of a **multimedia education toolkit**.



Communication activities





Measures to ensure uptake by end users



Effective involvement of stakeholders through multi-actor approach



Learning Platform



🗥 SurveyMonkey

Stakeholders' dialogue (workshops)

1. Please choose your language English Français Deutsch Español Italiano

Surveys with endusers



Links with **EIP-AGRI**

Lessons learnt (so far)



Main success factors	•	genuine involvement of stakeholders since proposal preparation; focus on users' needs.
Benefit from the participation in a EU-funded project	•	generation and acquisition of knowledge in leading- edge research; exposure to new perspectives, ideas and approaches
		from other internationally established academic organizations, as well as from private sector;
	•	potential business opportunities (spin-offs, SMEs);
	•	innovation with real impact on society.
Further research needs	•	risks relating to the interplay between pathogens, hosts and the environment, and our inability to influence particular high risk pathways;
	•	need for a whole-system view to be taken (One Health concept);
	•	risks assessment beyond existing or known pathogens.

THANK YOU FOR YOUR ATTENTION!

Thanks!