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83rd Advisory Forum meeting Paris, France, 06-07 April 2022

Strengthen Risk Assessment in Insect Pollinators

Thematic Discussion on bees/insect pollinators

Agnes Rortais

Senior Scientific Officer



Overview



Background on systems-based ERA

Data Sharing among Stakeholders: the EUBP

Tool development: the ApisRAM model

Further research on non-target arthropods

Upcoming activities

Background



Strengthen Risk assessment on bees

EFSA JOURNAL

Editorial 🗈 Open Access 📵 🕦 😑

EFSA is working to protect bees and shape the future of environmental risk assessment

Simon J More 🕿 Domenica Auteri, Agnès Rortais, Steve Pagani

First published: 05 January 2021 | https://doi.org/10.2903/j.efsa.2021.e190101 | Citations: 2

EFSA JOURNAL

Scientific Opinion 🖹 Open Access 🔞 🕦 🖹

A systems-based approach to the environmental risk assessment of multiple stressors in honey bees

EFSA Scientific Committee SS Simon More, Vasileios Bampidis, Diane Benford, Claude Bragard

Plant as delichard: 20 May 2024 1. https://doi.org/10.2002/j.ofea.2024.6602 1. Plantiano: 4

Link current and future Risk assessments

* Review 2013 Bee Guidance Document

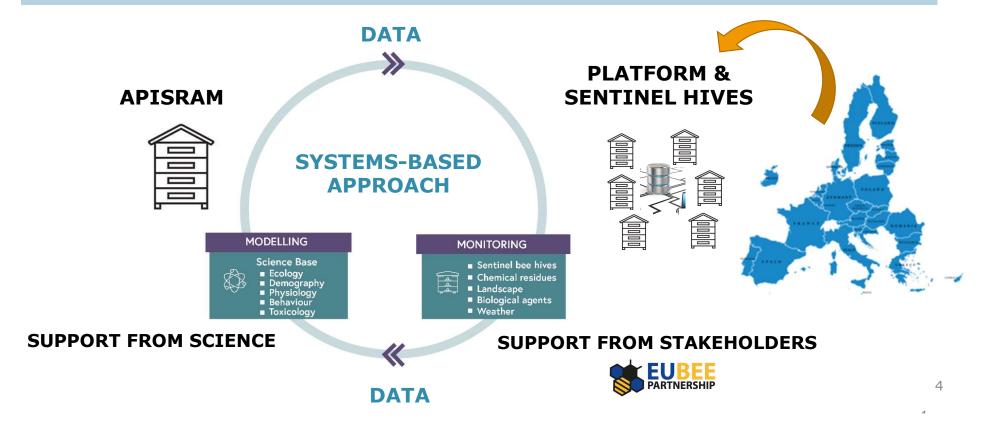
* MUST-B holistic ERA

Develop an approach and tools for more **holistic** risk assessments

Systems-based approach for ERA



For predictive and post-authorisation risk assessments of pesticides



The EU Bee Partnership (EUBP)



Coordination and the European Crop Protection Association





2019



EUBP Ombudsman Award

The EUBP platform





EXTERNAL SCIENTIFIC REPORT

APPROVED: 24 June 2021

2021

doi:10.2903/sp.efsa.2021. EN-6694

The EU Bee Partnership (EUBP) Prototype Platform: data model description

Noa Simón Delso, Gregor Sušanj and Andrés Salazar Abello

BeeLife European Beekeeping Coordination, Louvain la Neuve, Belgium



bee-ppp.eu; Youtube link

2022-24

Developing an integrative and operational platform for pollinator health data







Conceptual design





One-stop-shop - unique information platform for industry & institutions



Collaborative central knowledge base, accessible to stakeholders



Customer-oriented in development and maintenance

Data providers



Research & Development

- Scientific publications
- Research networks and projects
- Citizen science initiatives

Public authorities and agencies

- EU institutions
- National Governments & health agencies

Field practitioners

- Beekeepers
- Farmers
- veterinarians

Industry operators

- Phytosanitary & pharmaceutical industry
- Hi tech industry (connected hives)

ApisRAM





EXTERNAL SCIENTIFIC REPORT



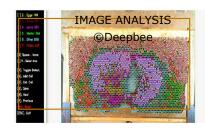
APPROVED: 4 February 2022 doi:10.2903/sp.efsa.2022.EN-7184

ApisRAM Formal Model Description

Xiaodong Duan¹, David Wallis¹, Fani Hatjina², Noa Simon-Delso³, Annette Bruun Jensen⁴, and Christopher John Topping¹

(Semi)automatic recording (connected hives with digital tools/app/sensors)









EXTERNAL SCIENTIFIC REPORT



APPROVED: 24 June 2021 doi:10.2903/sp.efsa.2021.EN-6695

Research project on field data collection for honey bee colony model evaluation

Dupont Yoko L1, Capela Nuno2, Kryger Per1, Alves Joana2, Axelsen Jørgen A1, Balslev Mette G¹, Bruus Marianne¹, Castro Silvia², Frederiksen Julie¹, Groom Geoff B¹, Jeppesen Annika S¹,



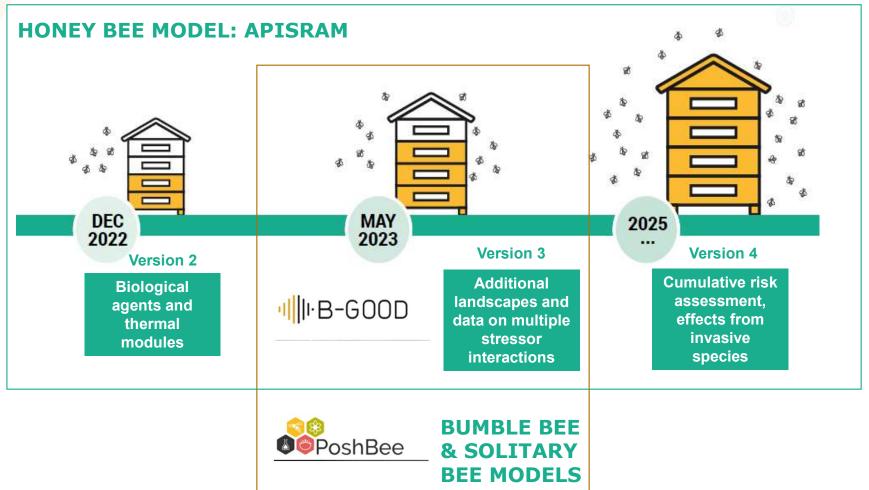
Giving beekeeping advice by computational assisted decision making (~8M€)



Internal Pan-EU assessment, monitoring and mitigation of stressors on the health of bees (~10M€)

Model implementation

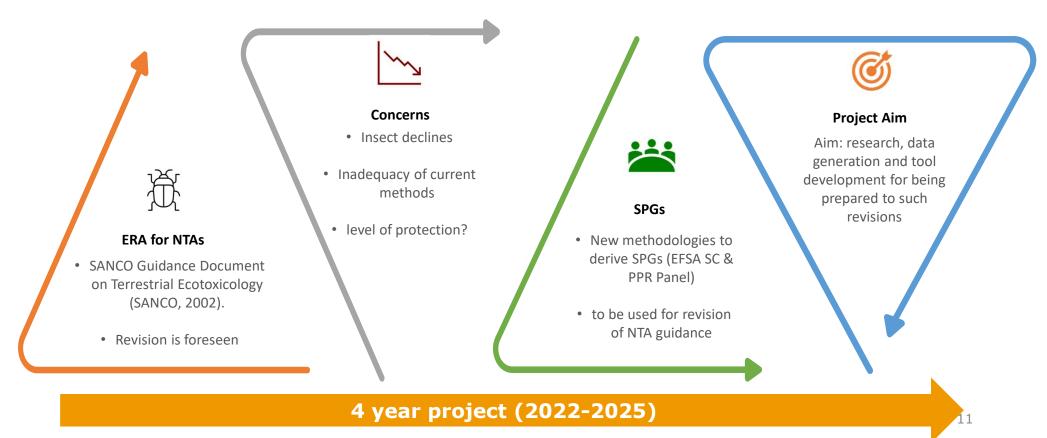




Non-target arthropods (NTAs)



AENEAS: Advancing the environmental risk assessment of non-target arthropods for plant protection products by accounting for the impact on ecosystem services and on the ecological function



Actions & upcoming activities/projects



Share data on bee/insect pollinators

- Interest in sharing harmonised datasets with EFSA and with the wider community (Zenodo)
- Participate to EUBP Platform workshop on data sharing/standardisation

Use of ApisRAM

- Provide input to the ApisRAM testing phase (workshop with beekeepers, scientists and Risk assessors)
- Receive training on the use of ApisRAM when it is implemented

Monitor bee/insect pollinators

Promote harmonised data collection in EU (e.g. using MUST-B data models)

Report progress on activities

• EFSA can provide regular updates on EUBP Platform, ApisRAM, NTAs,...

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