



# European Bee Partnership

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Collecting and  
Sharing Data on  
**bee health**  
Towards a  
European Bee  
**Partnership**

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# EU-level food chain risk analysis

## Risk assessor



## Risk managers



EU Member States



'Joint' responsibility for  
**risk communication**

# Classical approach: prediction

Evaluation of  
single compound

Various potential risks

Single  
hazardous  
substance

Risk 1

Risk 2

Risk 3



## EFSA'S INVOLVEMENT IN BEE HEALTH

- **Pesticides: *EFSA bee guidance for pesticide risk assessment* (updated 2014)  
<http://www.efsa.europa.eu/en/efsajournal/pub/3295>**
- **Animal health: *Scientific Opinion on small hive beetle introduced in southern Italy* (2015)  
<https://www.efsa.europa.eu/en/efsajournal/pub/4328>**





## DATA: INFORMATION SUBMISSION TO EFSA

- **Regulatory dossier:**
  - ✓ defined in sectorial legislation
  - ✓ EFSA consultation
- **Types of information requirements for the sponsor to provide is part of the legislation, incl.**
  - ✓ areas of safety to be covered
  - ✓ quality standards
  - ✓ possible inclusion of published studies

# What happens in reality?

Evaluation of various  
risk factors

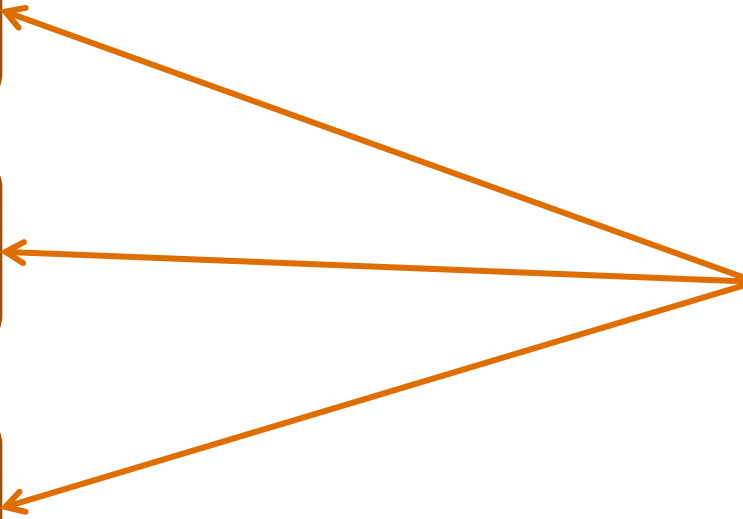
Emerging risk

Chemicals

Micro-organisms

Environmental aspects

Increased  
disease  
Incidence!



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graph LR; A[Increased disease Incidence!] --> B[Chemicals]; A --> C[Micro-organisms]; A --> D[Environmental aspects];
```

## STEPS TOWARDS TAKEN INTEGRATED APPROACH ON BEE HEALTH

- **EFSA Colloquium: *Towards holistic approaches to the risk assessment of multiple stressors in bees* (2013)**  
<https://www.efsa.europa.eu/en/supporting/pub/509e>
- **Scientific report: *Towards an integrated environmental risk assessment of multiple stressors on bees: review* (2014)**  
<https://www.efsa.europa.eu/fr/efsajournal/pub/3594>
- **Scientific Opinion PPR Panel: *Suitability of the BEEHAVE model for the risk assessment of multiple stressors in honeybees at the landscape level* (2015)**  
<http://www.efsa.europa.eu/en/efsajournal/pub/4125>



# STEPS TOWARDS TAKEN INTEGRATED APPROACH ON BEE HEALTH



- **External Scientific Report: *Binary mixtures of pesticides and contaminants in bees*** (2016)

<http://www.efsa.europa.eu/en/supporting/pub/en-1076>

- **MUST-B: EU efforts towards the development of an integrated risk assessment for multiple stressors in bees**





## DATA ON BEE HEALTH

- **Scientific Opinion AHAW Panel:**  
*Assessing the health status of managed honeybee colonies (HEALTHY-B): a toolbox to facilitate harmonised data collection (2016)*

<https://www.efsa.europa.eu/it/efsajournal/pub/4578>

**Need to bring together all stakeholders**





## DATA COLLECTION: CORE DATA COLLECTIONS

Established

- ✓ Food consumption (*6.3 M consumption records*)
- ✓ Chemical contaminants in food/feed (*~1 M records annually*)
- ✓ Pesticide residue occurrence (*~14 M records annually*)
- ✓ Food additive usage & occurrence
- ✓ Zoonoses, antimicrobial resistance & food-borne outbreaks, etc.

Setting up

- ✓ Veterinary drug residues
- ✓ Molecular typing



# CONCLUSIONS



**The European Union is about tearing down walls, for the common good**

**This initiative is an important example**

