




MUST-B **M**ultiple **ST**ressors in **B**ees

BACKGROUND

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- Between 2012-2014, the SCER unit initiated transversal work with a multidisciplinary Bee Task Force and a multi-stakeholders EFSA Scientific Colloquium to make recommendations on how to move towards an integrated holistic risk assessment of multiple stressors in honeybee colonies.
 - Between 2015-2019, the work will be further elaborated with the development of a multi-annual project: MUST-B “EU efforts towards the development of a holistic approach for the risk assessment on **M**ultiple **S**Tressors in **B**ees ».

WHAT IS MUST-B?

- MUST-B is a project that will support EFSA scientific developments towards integrated risk assessment of multiple stressors at the landscape level.
- EFSA will provide scientific guidance on protocols and designs (via the work of the Bee TF and dedicated MUST-B WGs) for data collection towards the development of the intended holistic risk assessment approach of multiple stressors in honeybee colonies.
- EFSA will further build on the available knowledge and expertise (e.g. statistical analysis of the EPILOBEE dataset and lessons learnt from EPILOBEE and other bee monitoring programmes in MS) for the development of the MUST-B data collection.
- MUST-B will develop a data collection starting in 2017 for a minimum period of 2 sampling years within representative climatic regions across EU for to develop a holistic risk assessment approach (integrated model and comprehensive data collection) of multiple stressors in honeybee colonies at the landscape level.

GENERAL FRAMEWORK OF MUST-B

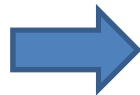
Honeybee colony health status
(specific indicators/factors and
methods/tools) (**JULY 2016**)

HEALTHY-B
WG



+ Literature on interactions
between stressors & data sets
on chemical mixtures (e.g. DEB
models - **JAN. 2016**)

MUST-B WG & BEE TF

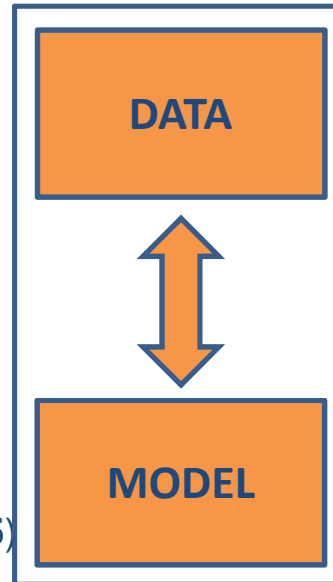


lessons learnt (e.g. EPILOBEE,
BEENET, etc.) and statistical
analysis of the 2 years
EPILOBEE dataset - **JULY 2015**)

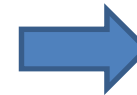
BEEHAVE
WG

Suitability of the BEEHAVE
model to assess risks of bee
colonies from exposure to
pesticides and multiple
stressors at the landscape
level (**JUNE 2015**)

**Comprehensive data
collection** to calibrate and
validate the model



Integrated model
to predict impacts
and risks of
honeybee colonies
from exposure to
multiple stressors
at the landscape
level




MUST-B WG & BEE TF

Collect and assess further
evidence from the model and
the data collection to develop an
**integrated risk assessment of
multiple stressors in
honeybee colonies**

2015-2016

2017-2019

QUESTIONS FOR THE AF

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- For the success of the EU MUST-B project, i.e. to improve the data collection from the lessons learnt (from existing bee monitoring programmes in MS), EFSA is seeking information on the following:
 - Which honeybee monitoring programmes are currently underway in MS?
 - What are the parameters/factors investigated/measured under these programmes?
 - What are the contact points of these programmes for further collaboration with EFSA?
 - Is the data collected at MS level available and accessible?
 - Would you be interested in sharing this information with EFSA and other MS?