



**JAN
2022**

**DEC
2022**

2025

2027

Version 1

Aarhus University delivers a first release of the model to EFSA, calibrated with data from Denmark and Portugal.

Colony and in-hive products module

Version 2

Model further calibrated with data from B-GOOD project.

Biological agents and thermal modules

Version 3

Model further calibrated with data from various research projects. At this point ApisRAM is ready to be considered for evaluating the effects of pesticides and other stressors on honey bees.

Additional landscapes and data on multiple stressor interactions

Version 4

Model fully developed and ready for use in risk assessment to address new challenges.

Cumulative risk assessment, effects from invasive species