

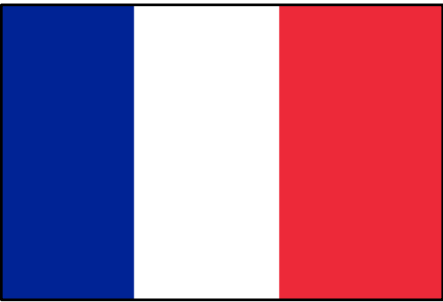


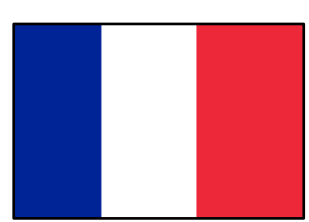
Pesticides and beekeeping faith or reality?

**Noa Simon Delso
Bee Week 2017
APIMED Forum**

Photo : Angel Diaz

Past experiences





1994

Beekeepers start observing the collapse of colonies brought to sunflower fields

Important loss of harvest

1995

Same observations – beekeepers alert the public

Beekeepers started wondering what has changed?

Analytical sensibility not enough

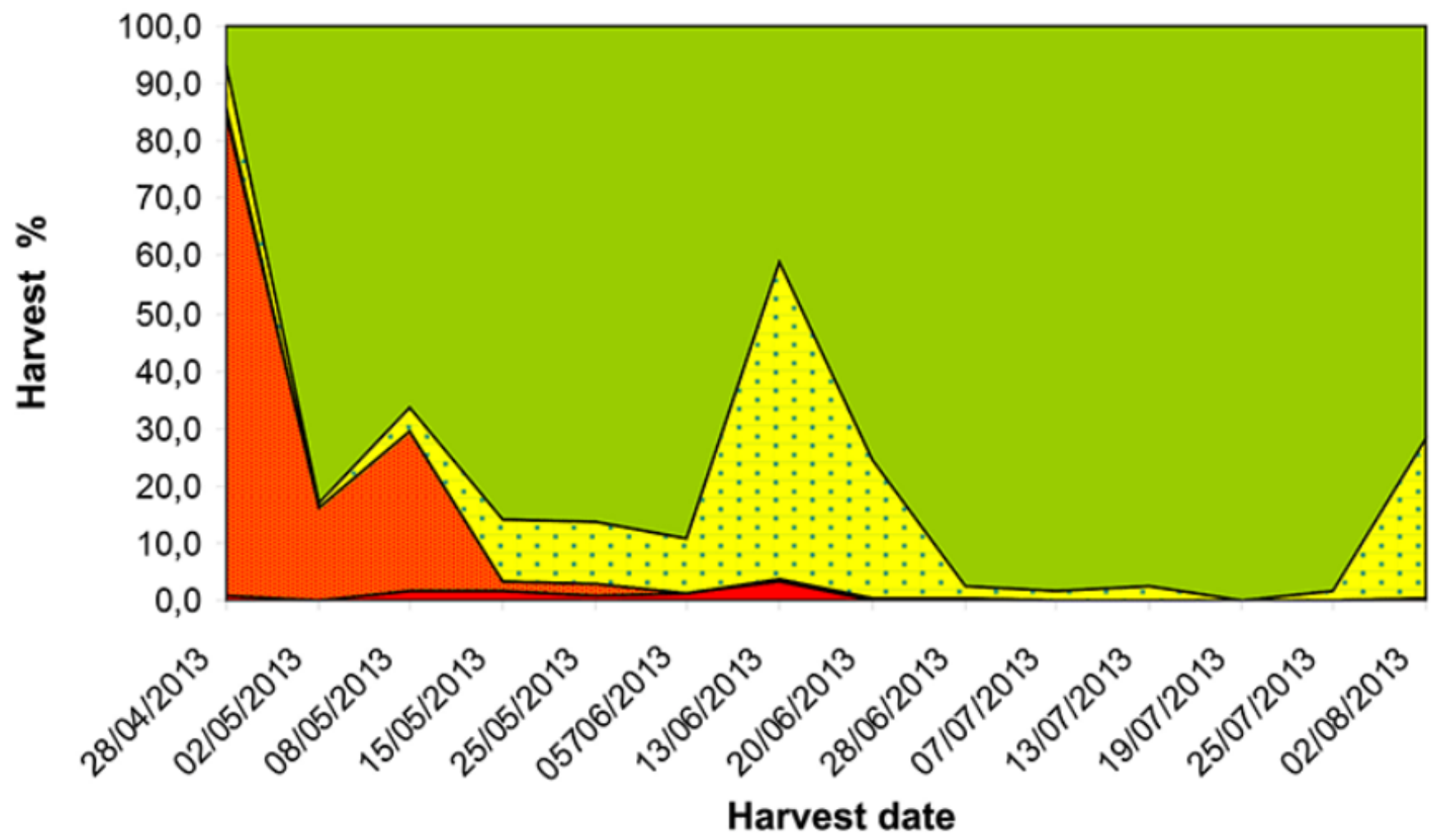




Orchards area

Valtellina April - August 2013

■ Herbaceous crops ■ Arboreal crops ■ Ornamental ■ Herbaceous ■ Shrubs/arboreal

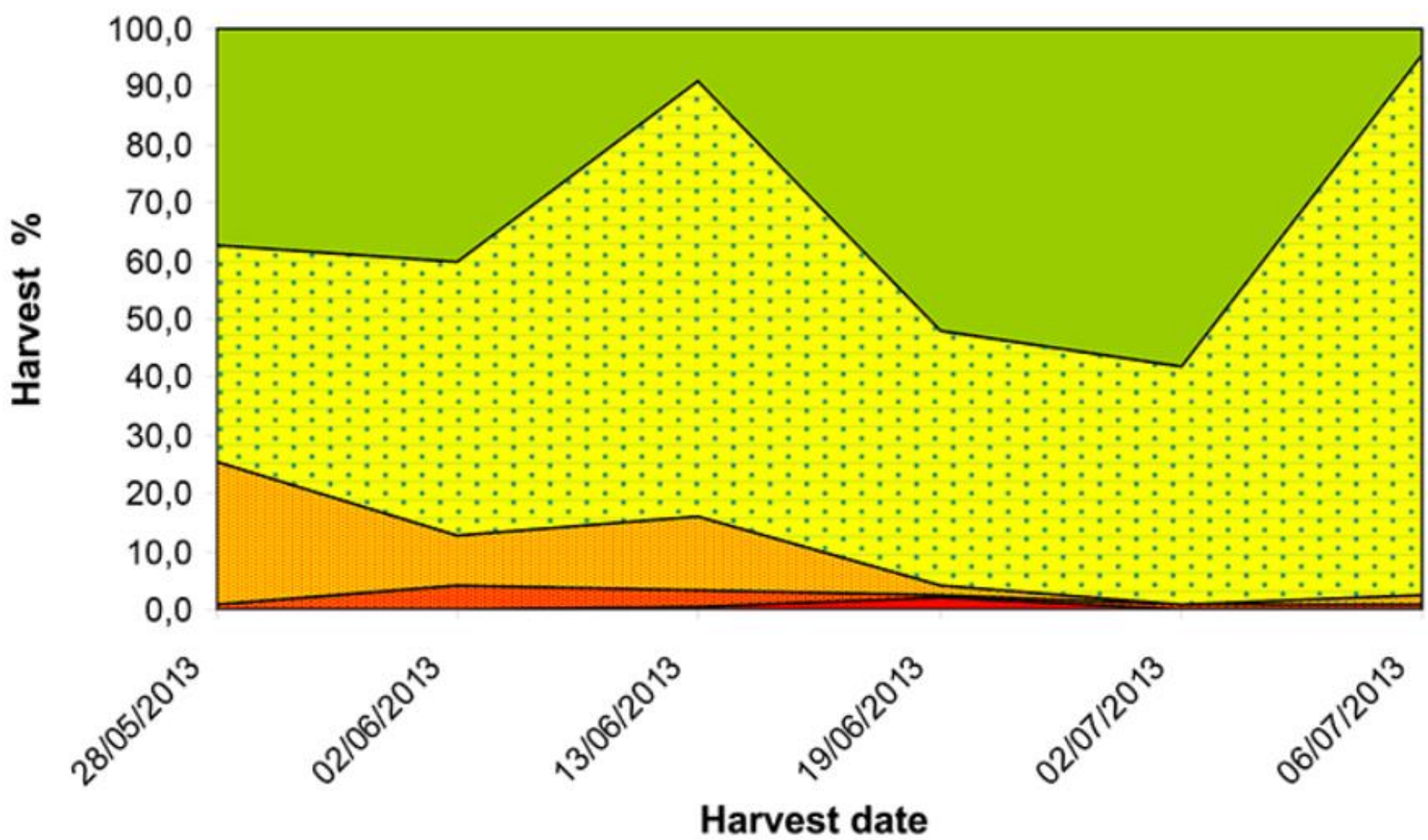




Area of vineyards

Franciacorta May - July 2013

■ Herbaceous crops ■ Arboreal crops ■ Ornamental ■ Herbaceous ■ Shrubs/arboreal

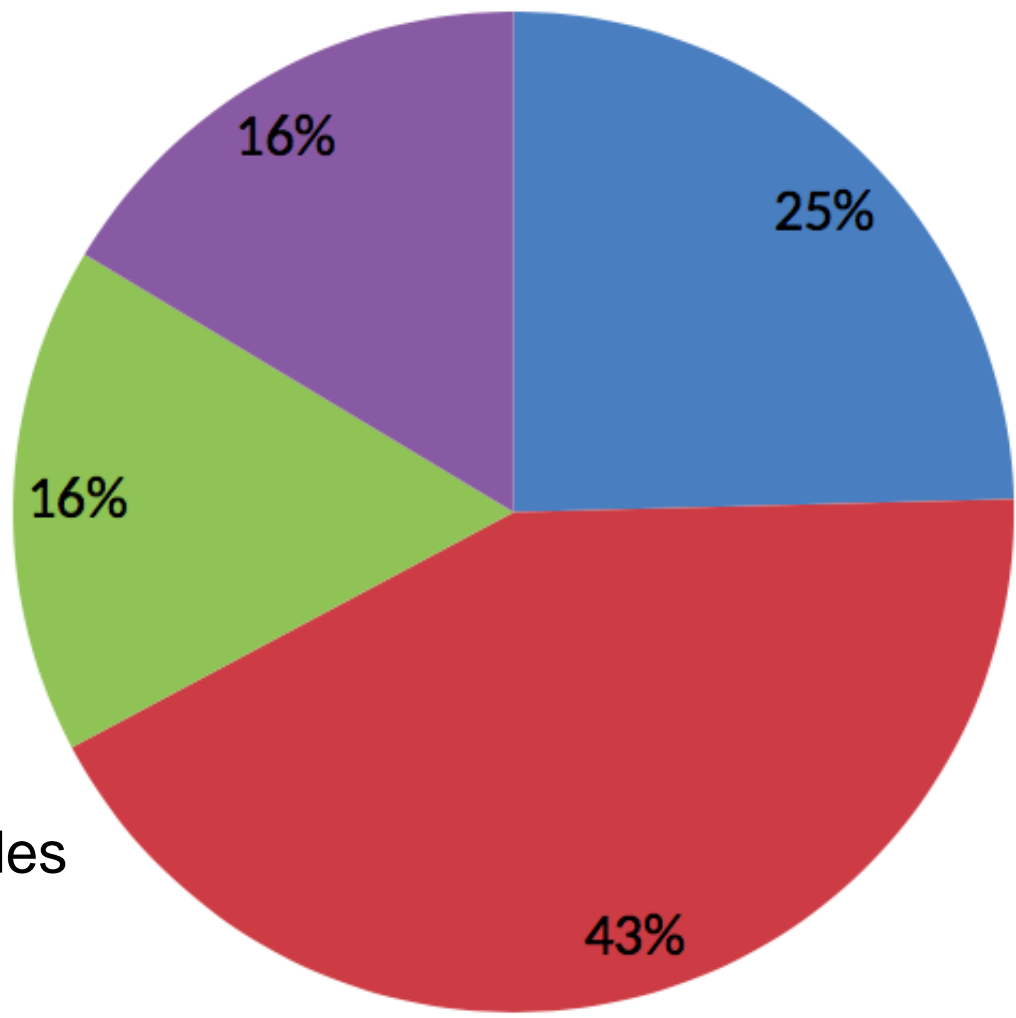




Samples positive/apiary

Samples contained 0-8 different pesticides

■ 100% ■ 50-99% ■ 1-49% ■ 0%

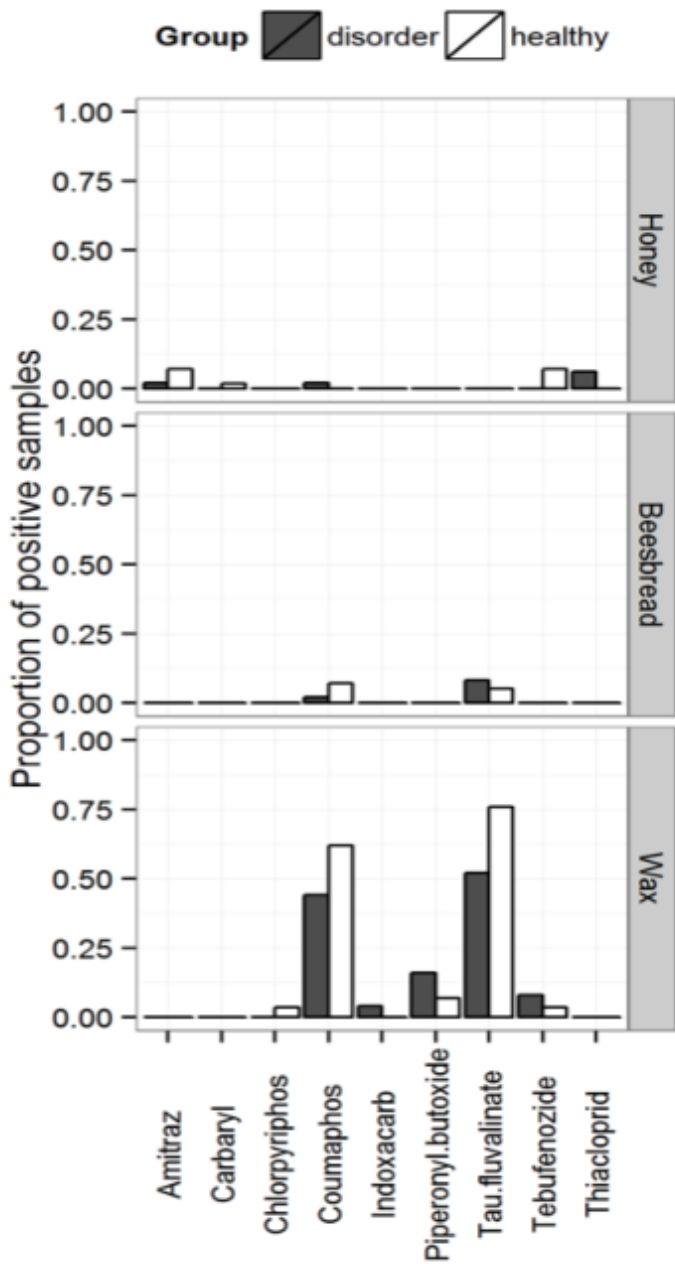


18% above MRL

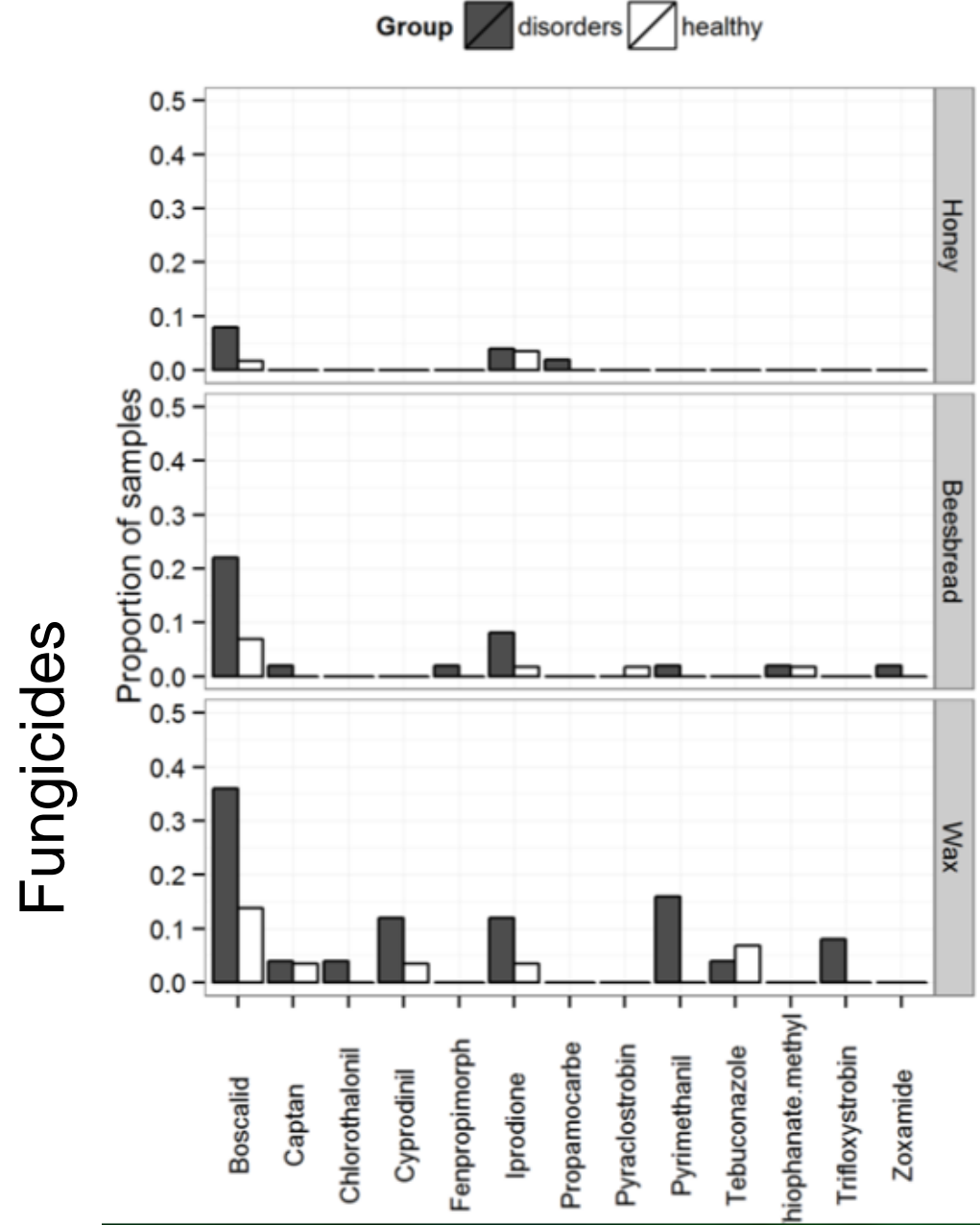
18 different pesticides



Data on matrices from summer and before the winter



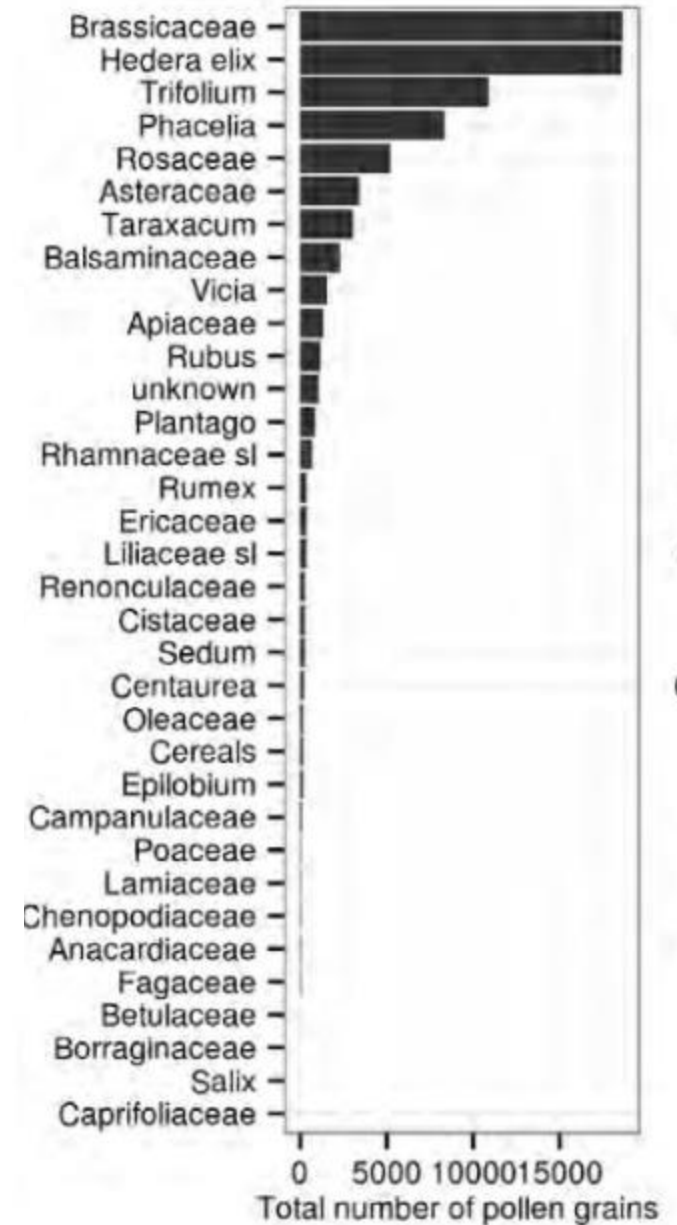
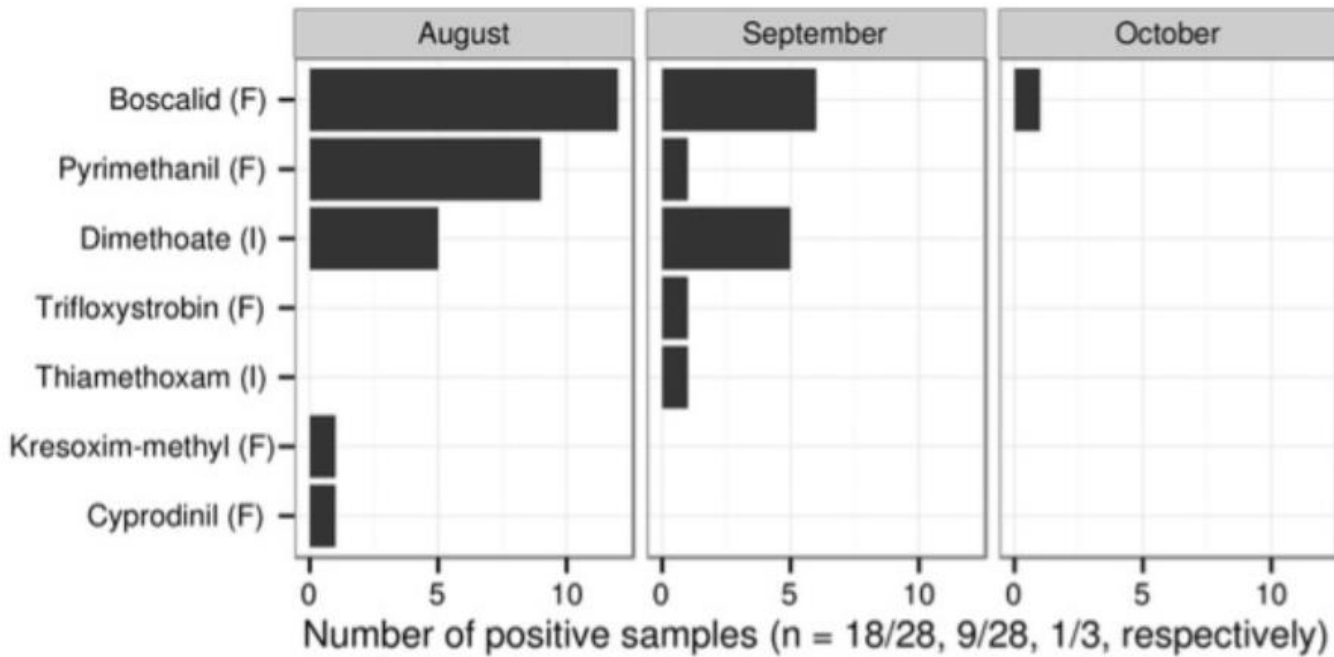
Insecticides/Acaricides



Fungicides

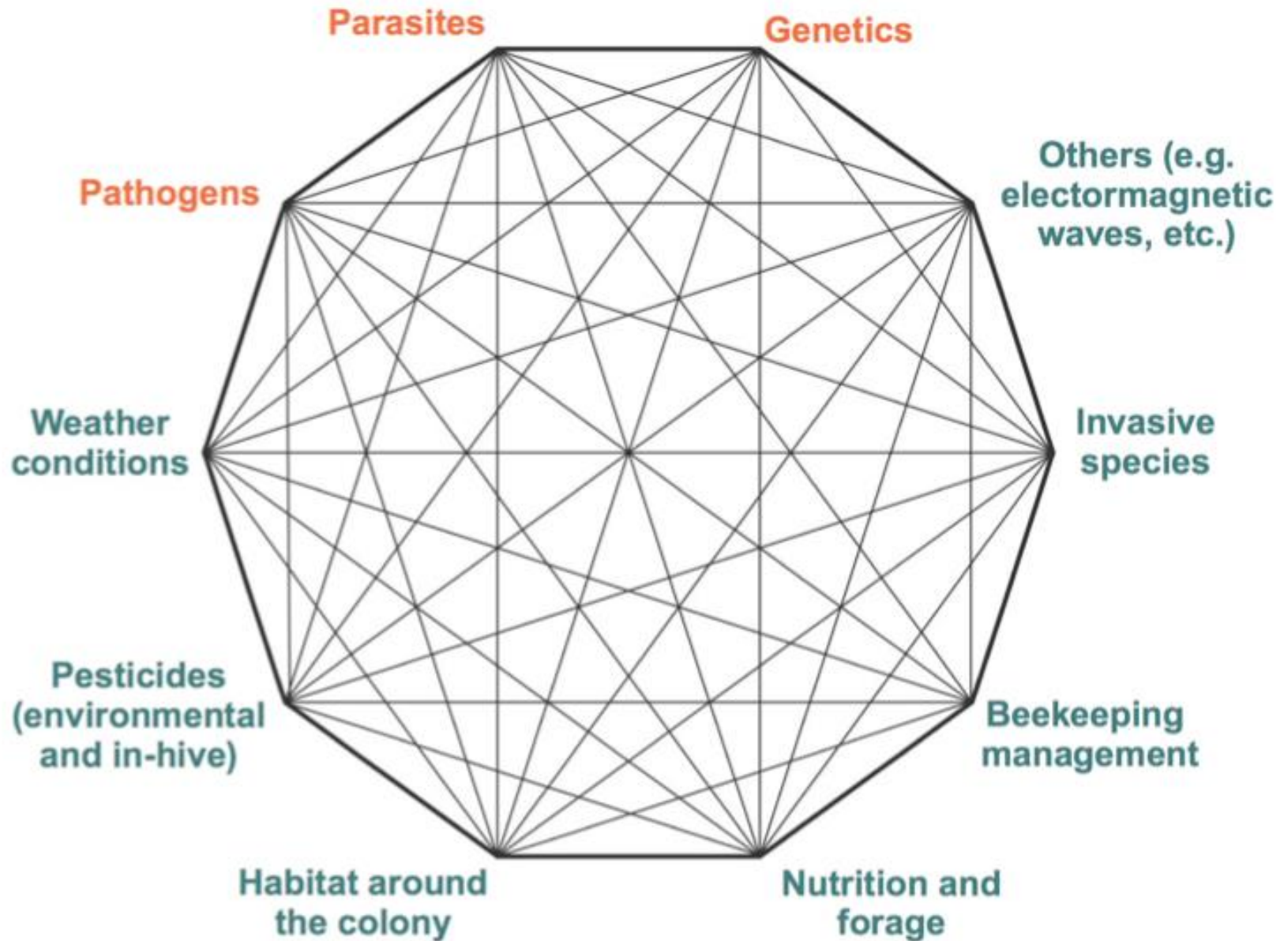


Data from pollen



Pesticides – the hidden factor

- Factors inherent to the bees
- External factors



How to approach the problem?

SITUATION

- The problems of bees have become very technical
- Beekeepers = field scientists
- Beekeepers economic activity threatened
- Beekeepers have part of responsibility – varroa treatments
- Pesticide issue is extremely controversial

Solutions we found in EU

(1) TRAINING & INFORMATION

improve the knowledge of
beekeepers

(2) INFORMATION

Solutions for your countries

