Pollination under netting – learnings from NZ

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Mark Goodwin, Brian Cutting, Crystal Felman, Mateusz Jochym, Sarah Cross, Milena Janke, Grant Fale, William Max, David Holmes
$3 billion+ in revenue
$1.9 billion in exports

800+ ha of covered Gold3 kiwifruit
Define the problem with bee tracking
Foraging trips per day

- Open: 4
- Covered: 1.5

Average days spent foraging

- Open: 5
- Covered: 1
% of tagged bees failing to return to colony

OPEN ORCHARD

37%

COVERED ORCHARD

71%
**Estimated number of bees**

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<td>Hives in open orchard</td>
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<td>Hives under netting</td>
<td>8000</td>
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**Timing of assessment**

![Hives in open orchard graph](image-url)
Hives in open orchard    Hives under cover

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Enhancing honey bee pollination
Percent of first audit

- 60%
- 80%
- 100%
- 120%

Brood bees Cage Half sides Roof

Data courtesy of Mark Goodwin (PFR)
Holes in covers
Providing visual landmarks
Colony size
Rural R&D for Profit project:

Novel technologies and practices for the optimisation of pollination within protected cropping environments
Thank you

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Number of bees in hives

![Graph showing the number of bees in hives over days.](image)
Number of bees in hives

Covered

Bees per hive

Day