Global Minor Use Summit

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- Tropical fruit
- Cocoa
- Sugar
- Coffee
- Tree nuts
- Fruit & vegetables
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- Background
- Purpose
- Types of data

- Funding
  - Case studies
- Outputs
- Future initiatives
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- Pesticide access can be problematic
  - Minor Crops
    - Much of horticulture
    - Some pulses and oilseeds
  - Minor Markets
    - Global Agchem sales ≈ US$30 billion
    - Australian market ≈ US$1 billion (3%)
    - Aust - Hort ≈ 20% of total
    - NZ market ≈ US$200 million (0.6%)
  - Regulation
    - Control of use
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- **Purpose**
  - Regulatory
    - Label extensions
    - Reviews
    - Off-label approvals (Aus only)
  - Non regulatory
    - GAP refinement
      - Manufacturer
      - Trade
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- **Type of data**
  - Satisfy regulator &/or manufacturer
  - Build upon existing approvals
    - Residues
    - Efficacy
    - Crop safety
  - Prior engagement with regulator critical
    - What, how many & where

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● Type of data
  ● Residues
    ● Private contractors & laboratories
      ▪ Regulatory requirement for GLP (lab & field)
      ▪ Aust 3 field, 2 labs
      ▪ NZ 2 labs
    ● Decline & single point trials
  ● Issues:
    ▪ Valid methods & sensitivity
    ▪ Capacity
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- Type of data
  - Efficacy & Crop safety
    - GAP refinement & expansion of existing uses
      - Many private contractors & organizations
        - Efficacy & crop safety
      - Government R&D (in kind & funded)
        - Efficacy & crop safety
        - Basic research (pest incursions, resistance, IPM etc)
      - Industry based - mushrooms, Greenhouse vegetables (proposed)
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- **Funding**
  - Primarily industry initiated
    - levies
  - Variable - No one program
    - Different capacities to fund work
  - Often different purposes
    - Minor crops or minor uses
    - Trade
    - Chemical replacement
    - Emerging weed, pest or disease problems
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- Funding
  - Sources
    - Australia
      - Industries via RDCs
        - HAL, GRDC & RIRDC
      - Company co-funding
    - Agencies
      - Commissioned work
  - New Zealand
    - Industry specific
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- **Funding**
  - **Case studies**
    - **Australia**
      - Horticulture – Use in minor crops
      - Funded by HAL via grower levies
        - **Spinosad**
        - Residue trials in beetroot, radish, turnip, swede, celery, eggplant, brassica leafy veg, snow peas & sugar snap peas – 22 trials.
        - Efficacy x extrapolation
        - Data used to support APVMA off-label approvals.
        - Provided to manufacturer for label extension.
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- Funding
  - Case studies
    - Australia
      - Horticulture - Trade
      - Funded by HAL via grower levies
        - Dimethoate
        - Residue trials in mangoes - 5 trials.
        - Data used to support Codex MRL.
        - Provided to APVMA to support domestic MRL.
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● Funding
  ● Case studies
    ● Australia
      ▪ Horticulture – Exotic pest (Lettuce aphid)
      ▪ Funded by HAL via grower levies
        ▪ Imidacloprid
      ▪ Proactive residue trials in lettuce
      ▪ Data provided to APVMA to support emergency use.
      ▪ Data provided to manufacturer for label extension
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- **Funding**
  - Case studies
    - Australia
      - Horticulture – Chemical replacement
      - Funded by HAL & pineapple industry
        - Lindane
      - Efficacy screens to identify replacements
      - Data to be provided to APVMA to support off-label approval.
      - Data to be provided to manufacturer for label extension
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- **Funding**
  - **Case studies**
    - **Australia**
      - Pulse crops – use in minor crops
      - Funded by GRDC
        - Mancozeb
        - Residue trials in field pea, faba bean, chickpea, lentil & vetch – 19 trials over 2 years @ 2 sites
        - Efficacy data via State Department R&D
        - Data used to support APVMA off-label approval.
        - Provided to manufacturer for label extension.
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● Funding
  ● Case studies
    ● Australia
      ▪ Pulse crops – use in minor crops
      ▪ Funded by GRDC
        ▪ Diuron
        ▪ Residue trials in field pea, faba bean & chickpea – 3 trials to achieve crop group MRL
        ▪ Efficacy via extrapolation
        ▪ Crop safety via State Department R&D
        ▪ Provided to manufacturer for label extension.
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- **Funding**
  - **Case studies**
    - **Australia**
      - Coffee – use in minor crop
      - RIRDC funded
        - Efficacy, crop safety & residue trials + extrapolation
        - Spinosad, pyriproxyfen, methoxyfenozide, buprofezin, chlorpyrifos, tebufenozide, methidathion, glufosinate, glyphosate and copper
        - Data provided to APVMA to support off-label approvals.
        - To be provided to manufacturer for label extension.
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● Funding
  ● Case studies
    ● New Zealand
      ▪ Citrus – trade
      ▪ Citrus industry funded
        ▪ Residue decline trials in mandarin
        ▪ Maldison, endosulfan, propargite, diazinon, abamectin, folpet and mancozeb
        ▪ Residue trials to determine export harvest intervals to ensure compliance with importing country MRLs
        ▪ Provided to industry for residue management.
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- **Outputs**
  - In terms of data - Variable due to diversity of programs
    - SRT reports - substantial from Horticulture, limited from Grains
    - Efficacy & crop safety - substantial
  - **Availability**
    - SRT reports – Dependant upon company linkages
    - Efficacy & crop safety generally publicly available
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- **Future initiatives**
  - Enhanced intra & inter industry co-ordination
    - Explore opportunities for international co-operation

- **MULO**
  - ‘Orphan’ crops
  - Exploring options & needs
  - Provide government with advice on potential options
    - Resources
    - Infrastructure