



# IR-4 Project

## International Specialty Crop Support Activities

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# IR-4 Project

**A US government funded research  
program**

***Facilitating the regulatory approval of  
sustainable pest management technology  
for specialty crops and specialty uses to  
promote public well-being***

# Objectives

## Food Program

- Magnitude of Residue studies
- Product Performance
  - (NEW) Integrated Solutions
- Crop Group Expansions
- Regulatory Support
- *International Harmonization of MRL's*

## Environmental Horticulture Program

- Efficacy and Crop Safety
- Special Projects
  - Invasive Species & Pollinator Protection

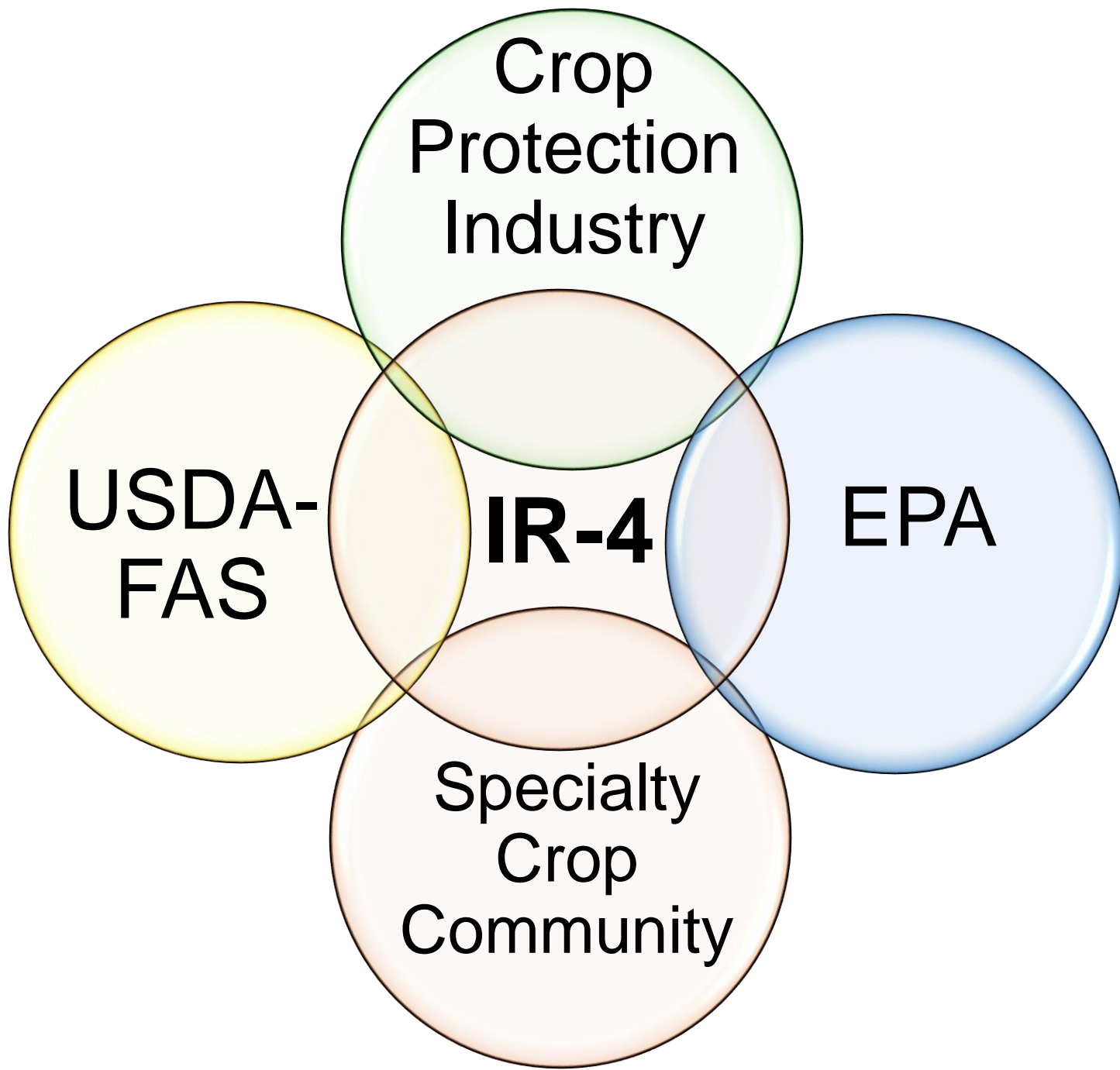
## 2014 Farm Bill

International Harmonization of MRL's and Registrations was added to IR-4 Project authorization to “***The Agricultural Act of 2014***”.

INTER-REGIONAL RESEARCH PROJECT NUMBER 4.—

Subsection (e) of the Competitive, Special, and Facilities Research Grant Act (7 U.S.C. 450i(e)) is amended in paragraph (4)

**(E) assist in removing trade barriers caused by residues of pesticides registered for minor agricultural use and for use on domestically grown specialty crops;**



# International-Update

## 1. Codex Crop Groups

# Codex Crop Groups

CCPR reached consensus on the Classification work on crop groupings for:

- ***Plant Type 4***
  - *Tree Nut commodities,*
  - *Oils seed/Oil Fruit commodities,*
  - *Tree Sap commodities,*
- ***Plant Type 5***
  - *Herb and Spice commodities,*
  - *Proposed structure for Primary feed commodities of plant origin (**Class C**).*
- For all updated Groups etc see:
- [http://ir4.rutgers.edu/Adopted%20\(Updated\)%20Codex%20Classification.html](http://ir4.rutgers.edu/Adopted%20(Updated)%20Codex%20Classification.html)

# International-Update

1. Codex Crop Groups
2. Capacity Building

## International Cooperation

Develop global network of capable minor use programs working together to solve the minor use problem

- Help establish and mentor these minor use programs
- When US grower priorities align, partner with international partners

## Case study: IR-4 Joint work with Canada

- 2017
  - Joint research/common interest on 22% of IR-4's studies
  - Canada performed 32 field trials
    - \$192,000 direct savings to the IR-4 field program
  - Canada was SD for three studies – They cover administration of the study as well a analytical cost (min of \$300,000).





ASEAN DOA IFRA USDA-FAS  
Good Laboratory Practice Training Program  
Field Residue Trials  
January 29 - Feb 1, 2013  
Kok, Indonesia



**FASA II**  
Tarikh Tanam : Mac 2003 - Ogos 2003  
Jarak Tanaman : 18kaki X 12kaki  
SA Pokok : 8.403  
Keluasan : 18.7 Hektar



International Residue Studies – Capacity Building or  
Research >60 Countries, >>100 Scientists.



# WTO Recognition

## Joint Statement from Dec. 2017 WTO Ministerial Conference

Recognize the work undertaken to examine pesticide-related issues that have an adverse impact on international trade in food and agricultural products, and to achieve consensus on collaborative actions to reduce that impact on trade

# International-Update

1. Codex Crop Groups
2. Capacity Building
- 3. Harmonized MRLs**

# Harmonized MRLs

- Most new IR-4 Studies designed to meet international data requirement via TASC grant
- Existing IR-4 data utilized to support Codex/international MRLs
  - Many of the MFGs are submitting IR-4 data
- Asia/LATAM capacity building projects yielded MRLs

# International-Update

1. Codex Crop Groups
2. Capacity Building
3. Harmonized MRLs
- 4. GMUS-3**

# **Third Global Minor Use Summit (GMUS-3) Outcomes**



**Developing Strategies for Specialty Crop and Minor Use  
Programs and Harmonization:**

**Filling the Tool Box for Growers**

# Third Global Minor Use Summit

- The GMUS-3 was held in Montreal, Canada from October 1-4, 2017.
- The Summit was well attended: over 210 attendees from 35 countries.
- Good representation from Government, Registrants and Growers / Growers associations.
- The plenary session provided updates from various minor use and government agencies regarding progress of the key action items identified in the past Summits and provide an overview of the objectives for this summit.
- The breakout sessions focused on the key areas of interest involving the Regulatory, Industry and Grower sectors.
- The last day a global minor use priority setting workshop was held to further discuss and refine priorities of grower needs identified from the First Global Minor Use Priority Setting Workshop and identify new priorities.

# Growing Forward Plan

In summary:

The group agreed to work on the following themes over the next five years:

- Increase cooperation by creating minor use champions from different regions of the world;
- Actively promote the adoption of procedures to establish global maximum residue limits;
- Work towards a globally acceptable definition of “minor crops”;
- Find consensus on crop grouping and representative crops (crops that are similar enough that they can be treated the same, i.e. onions and leeks);
- Develop a white paper on capacity building to meet regulatory data requirements.
- Ultimately, securing more agreement about the approach to regulation and management of minor uses of pesticides internationally will provide producers better access to markets.

# GMUS 3 Going forward

- Side meeting at CCPR
  - Promote APEC like reviews in JMPR
  - Promote Codex Crop groups to other countries
  - Progress on global access to MRL database
  - Codex List of Exempt chemicals proposal in 2019
- OECD
  - Expert group meeting in June
  - Request update to Crop Field Trial Guidance with Codex Crop groups to other countries

# International-Update

1. Codex Crop Groups
2. Capacity Building
3. Harmonized MRLs
4. GMUS-3
- 5. Expanded Cooperative Work**

# 2<sup>nd</sup> Global Minor Use Workshop

- Results for the Protected area (GH)

A priority selected:

- Powdery mildew (*Erysiphe cichoracearum*) on cucumber GH – flutianil suggested as potential solution – Project champions: Iris Bitterlich, Mike Bledsoe, and EU reps.

B priority selected:

- Thrips (*Frankliniella occidentalis*) on ornamentals – Pyridalyl, Biopesticide options suggested as potential solution – Project Champions: Cary Gates and potentially some EU reps
- Some other products were suggested by participants: spinetoram + sulfoxaflor, Azadirachtin

# 2<sup>nd</sup> Global Minor Use Workshop

- Results for the Temperate area

A priority selected:

- Downy mildew (*Peronospora belbahrii*) on basil – oxathiapiprolin suggested as potential solution – Project Champions: EU representatives. This product is currently registered in Canada and the US – assess gaps.
- Other products have been suggested: fluopicolide, picarbutrazox

B priority selected:

- Weeds (Angiospermae) on lettuce – halauxifen-methyl and haloxyfop suggested as potential solution

# 2<sup>nd</sup> Global Minor Use Workshop

- Results for the Tropical area

A priority selected:

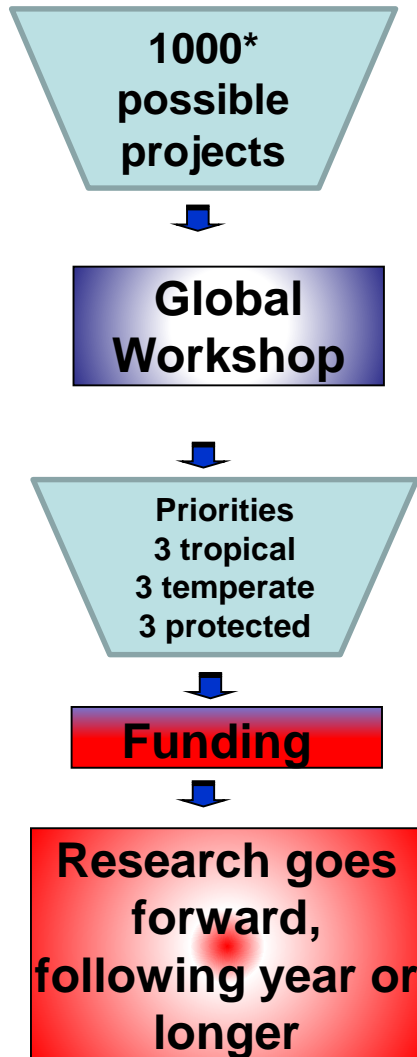
- Nematodes (*Radopholus similis*) in banana – Many solutions suggested: fluopyram, new Dow-DuPont active, some biopesticide options i.e. *Burkholderia sp.*

B priority selected :

- Anthracnose (*Colletotrichum sp.*) in mango – suggestions for potential solutions TBD

# Global Process

Current framework



**International Organizations,  
Grower, researchers,  
Farm advisors**

**Identify top research priorities**

**Use consensus decision making process**

**Industry and Regulatory attend and must provide “buy in” for selected projects**

Proposed framework..  
For a successful model



\*priorities collected from survey and now listed in global database

THANK YOU!

