Minor Use Foundation, Inc.- working with Governments, Grower Groups, and Specialty Crop and Minor Use Organizations on technology tools



Dirk C. Drost, Ph.D.

Minor Use Foundation, Inc
Presented May 27-28, 2020
CA Specialty Crops Council
MRL Harmonization Workshop

NAFTA Minor Use Cooperative

USA / Canada "Win-Win" Model: IR4/PMC and growers



Objective:

- Address grower pest control needs with safe effective products in a manner that does not affect trade markets
- Conduct Joint Residue Studies and provide simultaneous submissions to both regulatory agencies (EPA and PMRA)
- Submissions reviewed and registrations approved in both countries at approximately the same time with harmonized tolerances/MRLs



Minor Use Foundation, Inc



Vision and Mission

- The organization will:
 - Establish a collaborative international approach to address MRL needs for specialty crops and minor uses
 - Implement Priorities resulting from the Global Minor Use Workshops.
 - Provide funding for research to other qualifying organizations.
 - Fund research program to obtain harmonized MRLs
 - Coordinate activities with organizations that work throughout the world
- Seek and obtain funding from Government Grants, Foundations, other nonprofits, and Industry to support research and future Global Minor Use meetings
- Establish an advisory committee to provide advice
- The Minor Use Foundation, Inc.
 - 501(C)(3) non-profit
 - Board Chairman, Dirk Drost
 - Board Members: Dan Kunkel, IR4; Michael Braverman, IR4, and Jason Sandhal, USDA-FAS



Current Update

- Board established
- Initial tranche of funding raised. Further fundraising underway.
- Advisory Council principles are agreed, implementation pending
- 2020 program being planned
 - Aligned with priorities selected by IR4 stakeholders in September 2019; Anticipate funding studies to be started in spring 2020
 - Extend work being done by IR4/PMC by adding study locations and funding to ensure sufficient trials and distribution to apply for CODEX MRLs.
 - Funding work in Asia Pacific via AAPARI; in LATAM; and in AFRICA



Opportunities and Way Forward

- Communication: We must increase the effort to communicate sound science

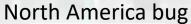
 what we do, why we do it, and the public benefits of technology. We must defend our science-based regulatory system and support and defend USDA, EPA, FDA etc. The regulatory framework facilitates innovation.
- Collaboration: We must find ways to work together on topics which we agree on to strengthen the agricultural systems on which society depends for safe, abundant, and economical food, feed and fiber.
- Public/Private Partnerships: We should understand and replicate successful models of public/private partnerships and expand/understand why they work
 - IR4, PMC, AgVet Dept of Ag, Australia, Minor Use Foundation, USDA-FAS,
 - And others...



Wouldn't it be better to coordinate in advance, and get data from multiple countries?





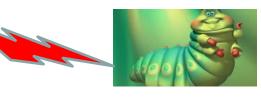














GAP 25% variability OK to combine data

90-110 g per hectare 3-4 x times per season 14 days apart 7-10 days pre-harvest Combined GAP from both countries



Harmonized MRL

MRL works for both countries

Communication, Coordination, Collaboration!

Global Residue Project for Tropical Fruits

<u>Goal</u>: Develop process for generating residue data to establish Codex MRLs (and/or other national MRLs) via collaborative data generation projects.

<u>Vision:</u> Establish global network of residue research teams to collaborate in generating data for MRLs (work-sharing and cost-sharing) and to coordinate minor use programs.























Joint Research Process

1. National Study Teams are established



3. Field and Laboratory GLP training





2. Project crops and pesticides identified



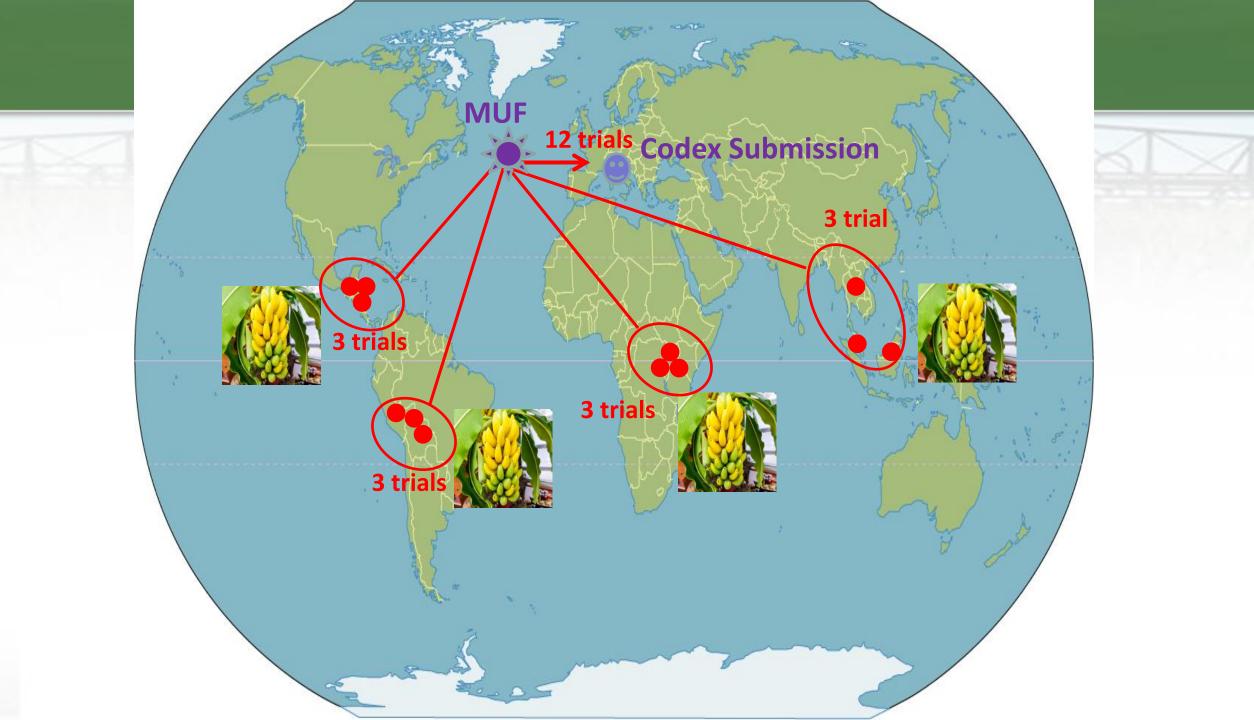
4. Conduct Actual Research



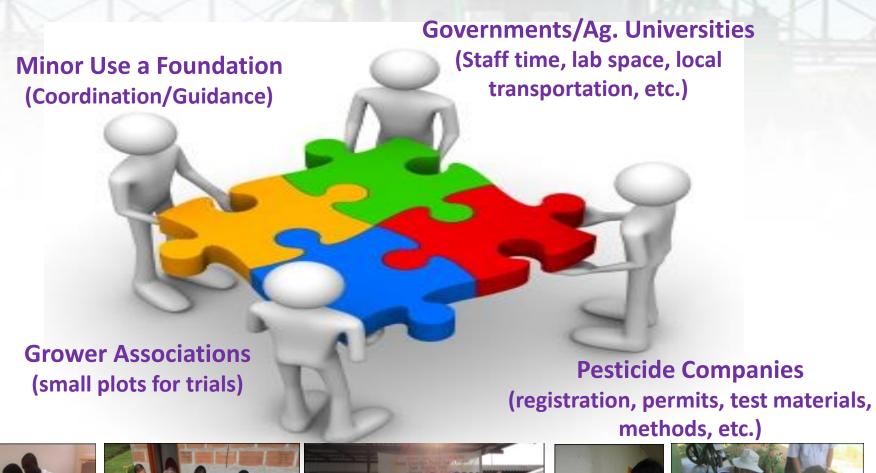


5. Data Review and Data Package Preparation for JMPR Submission





Communication, Coordination, Collaboration <u>Capacity, Contribution</u>







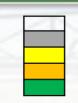






2019 Program Region, Country and Company Interests

WHITE=Unknown interest
GRAY= Not an IR-4 objective
YELLOW= Country interest
ORANGE= Company support
GREEN= Country interest plus company support



		LATAM				ASIA PACIFIC					AFRICA		NA	
Active Ingredient SPINETORAM	Crop DRAGON FRUIT	00	CR	PR	PA	픋	MY	Z	3	AU	SG	GH	SN	CA
TRIFLOXYSTROBIN/FLUOPYRA								2	3					
TRIFLOXYSTROBIN/FLUOPYRA M PERMETHRIN	PAPAYA DRAGON					2	2							
CLETHODIM	FRUIT					3								

MUF Residue trial funding to APAARI 2019

- 1. Spinetoram/Dragon fruit 3 trials in Vietnam.
- 2. Trifloxystrobin+ Fluopyram on dragon fruit*# -2 field trials in Vietnam.
 - 1 trial in Indonesia
- Trifloxystrobin+ Fluopyram on papaya*-2 trials in Malaysia
 trials in Thailand
- 4. Picarbutrazox/ Basil*-1 trial in Thailand
- 5. Clethodim/ lettuce- 3 trials in Thailand

Overall budget provided \$75,240

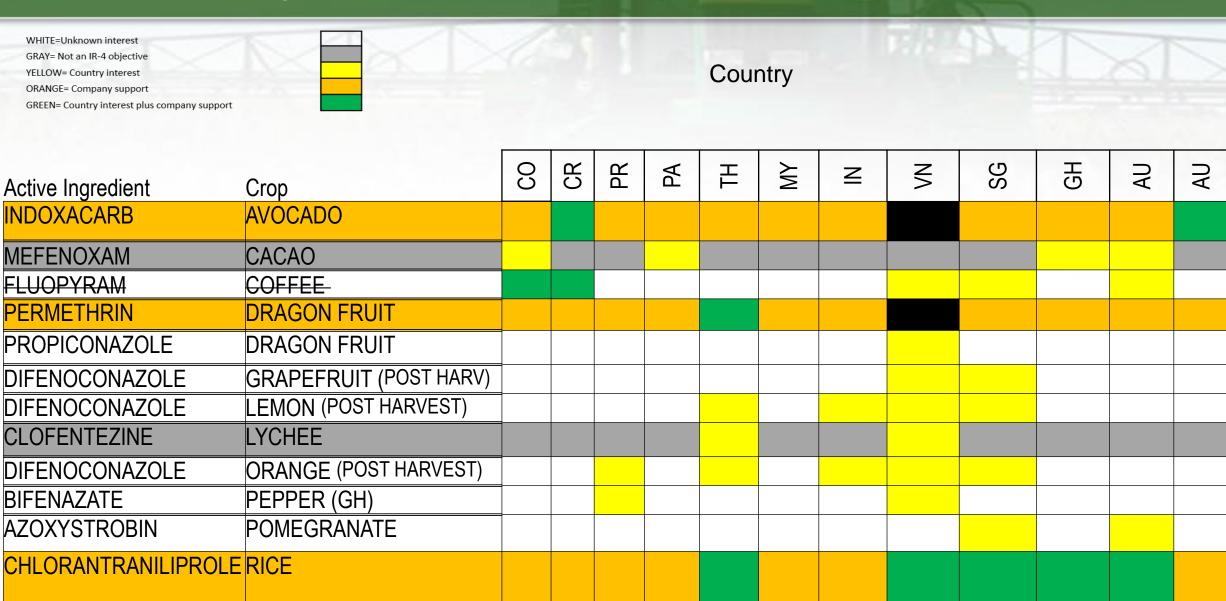
*Current IR-4 study #MUF to also fund additional trifloxystrobin metabolite analysis for US trials







2020 Program Potential Country and Company Interests



PYDIELLIMETOEEN

STRAWRERRY (GH)

Potential MUF Residue Trial funding 2020

- 1. Indoxacarb/Avocado*- Australia (Hort Innovations 2 trials), Costa Rica (2)
- 2. Permethrin/Dragon fruit*- Thailand (3 trials)
- 3. Chlorantraniliprole/Rice*- Thailand, Vietnam, Senegal, Ghana, Australia (5 trials)

*Current IR-4 study

Proposed Budget approximately \$200,000







Contact Information

- Dirk Drost, Ph.D., Board Chairman, Minor Use Foundation, Inc.
 - dirk.drost@minorusefoundation.org
 - +1 336 209 5398
 - www.minorusefoundation.org
- Credits: Thank you to Dr. Michael Braverman, IR4; Dr. Dan Kunkel, IR4; Dr Jason Sandhal, USDA-FAS; for their reference materials and inputs.





