Efficacy of Biological and Eco-Friendly CPAs (BIO) Sub-Group

Annual Report

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CORESTA Congress Online

October 2020

Outline

- Objectives
- Purpose
- Activities
- Challenges
- Tested CPAs
- Participants
- Next Steps
- Acknowledgements

Objectives

1. To test biological and eco-friendly CPAs as alternatives to traditional CPAs.
2. To produce a formal protocol for trial and testing procedures.
3. To collate results of trials done under the formal protocol and make them available to ACAC.
4. To harness global participation.

Purpose

- **Compliance to global requirements in CPA usage of paramount importance**
- **Green movement gaining momentum**
- **Increasing shortage of conventional CPAs due to withdrawals and bans**

Purpose

- **Standardise protocols for selected CPAs**
  - ✓ **Africa, Asia, Europe, North America and South America**

- **Participation is voluntary and is according to interest and involvement in the target biological and eco-friendly CPA.**

Activities (June 2018 – October 2020)

- ✓ **June 2018 – Jan 2019: Survey questionnaire on the extent of use and registration of biological and eco-friendly CPAs**
- ✓ **June 2019: Compilation of global biological and ecofriendly CPAs**
- ✓ **June 2019: Formulation of the Sub-group website page text**
- ✓ **October 2019: Standardisation of protocols and harnessing of global participation**
- ✓ **Jan 2020: Revision to further simplify**
- ✓ **Jan 2020 to date: Efficacy trials (USA, Japan, France, Zim)**
- ✓ **Sept 18th 2020: Online meeting**

Challenges

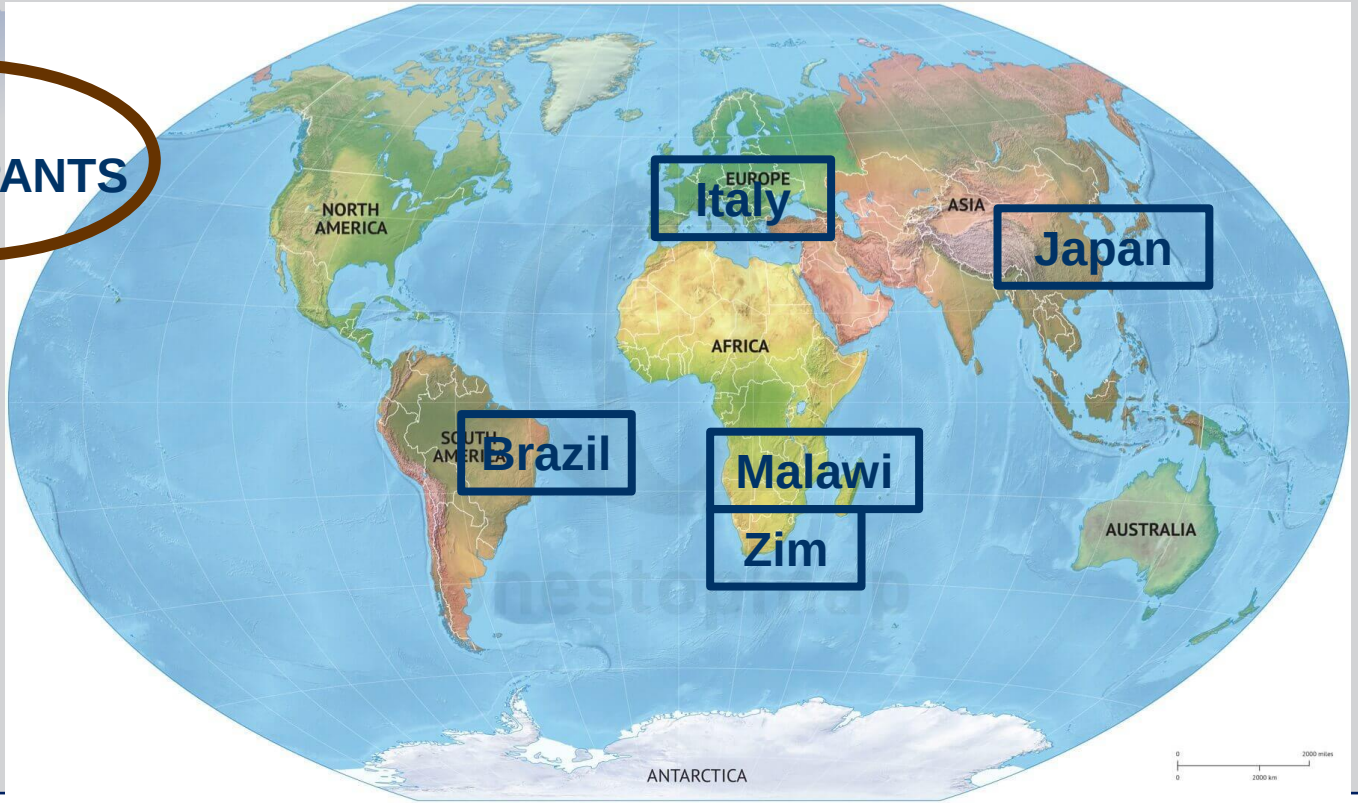
- Most companies not able/willing to carry out scientific field experiments, despite revision of protocols (low participation)
- Some countries have already done tests of some of the bio CPAs and have data (India, Spain, Italy)
- Need to revise objectives to enable collection of this already available and existing data

CPAs Actively Tested

Biological and / or Eco-friendly pesticide	Target Pest/s
Trichoderma spp. (Zim)	*Fusarium / Pythium / Sclerotium*
Bacillus subtilis (Zim)	*Rhizoctonia / Pythium*
Beauveria bassiana (Zim)	**Aphids**
Azadiractin (Neem) (Japan, Zim)	**Aphids**
Bacillus firmus (Zim)	**Root-knot nematode**
Beloukha (Pelargonic Acid)	**Suckericide**

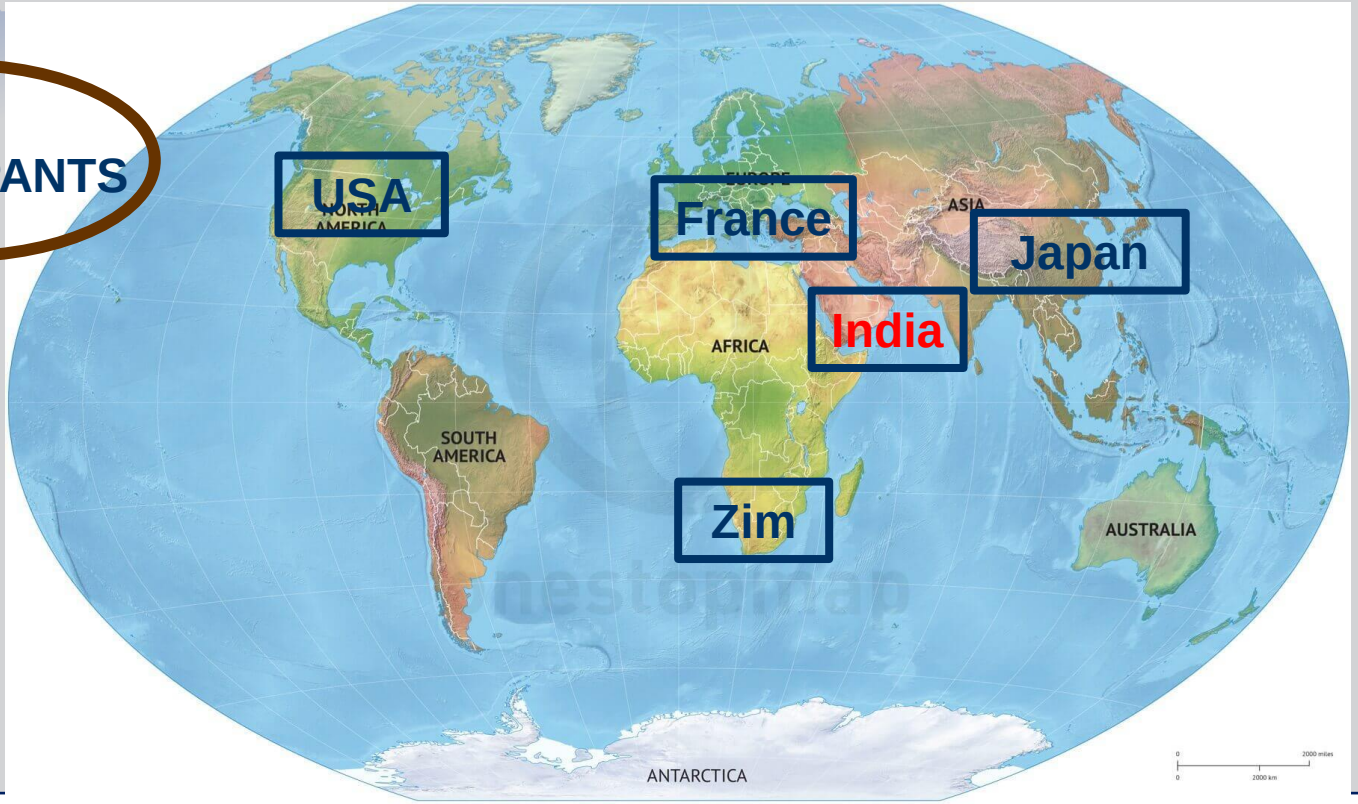
Participants (October 2019)

17 PARTICIPANTS



Final Participants

5 PARTICIPANTS



Next Steps

- Re-visit objectives
- Data collection (trials & existing)
- Database creation
- Submission of data to ACAC

Acknowledgements

- ACAC
- Fabienne Lalande
- Participants