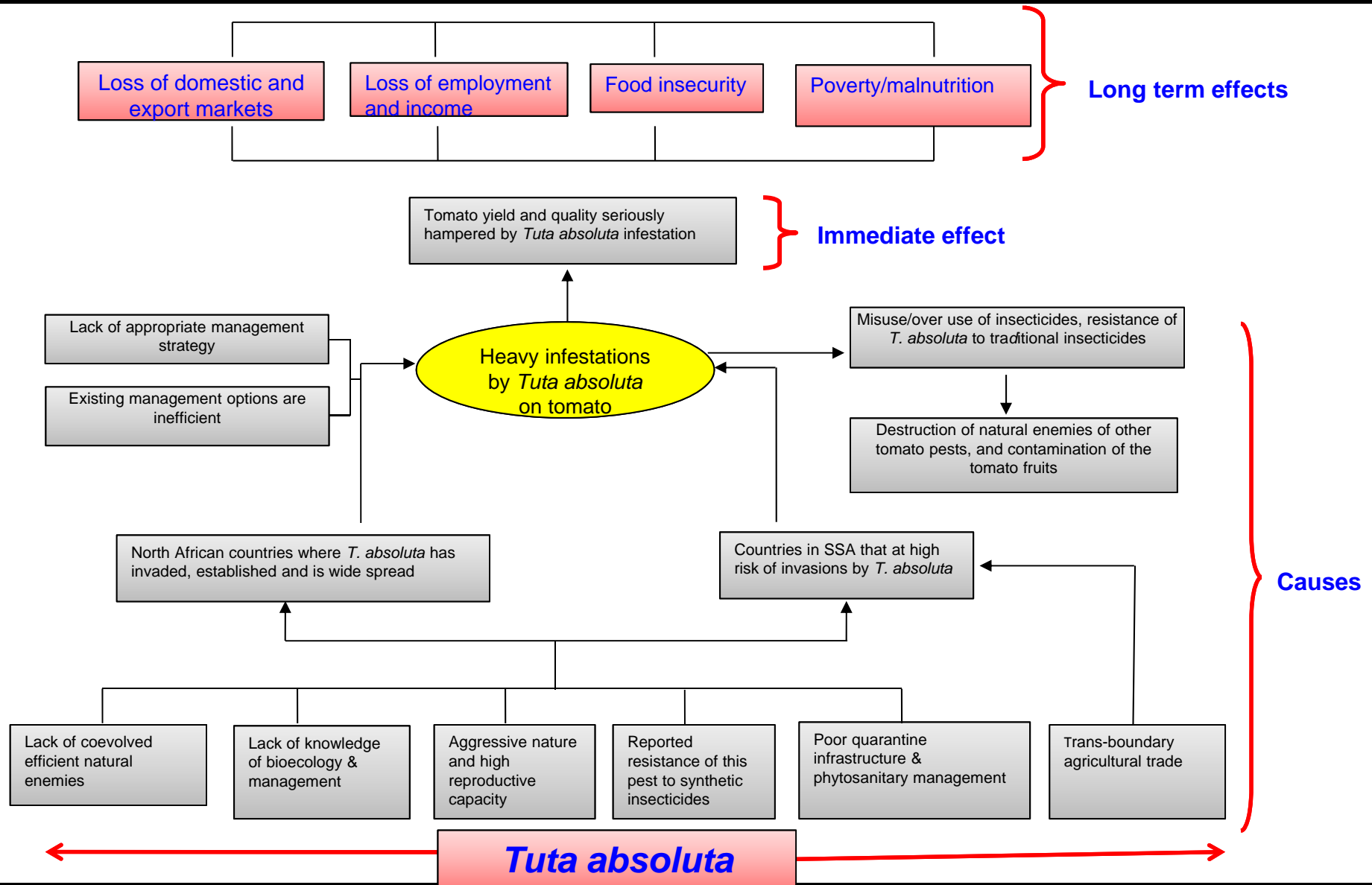


***icipe Tuta absoluta* activities in North and sub-Saharan Africa: An overview**

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Tuta absoluta: Meeting the challenge of the tomato leafminer
Addis Ababa, Ethiopia,
November 26th – 28th , 2013

Tuta absoluta – Africa’s No.1 enemy on tomato



Tuta absoluta infested egg plant field



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PROJECT GOAL/PURPOSE



Goal

To enhance food and nutritional security, income generation capability and the overall livelihood of small and medium scale tomato growers in the target countries.

Purpose

To develop and implement in collaboration with international and national partners, a sustainable and eco-friendly approach for reduction of tomato losses due to *T. absoluta* infestation leading to increased quality and yield of table and industrial tomatoes for domestic and export markets.

Project Work packages



- ❖ Bioecology of *T. absoluta* and associated natural enemies established.
- ❖ Explorations for and introduction of natural enemies of *T. absoluta* undertaken.
- ❖ New technologies/ already existing management tools identified, tested and implemented.
- ❖ Surveillance for the pest in selected high risk countries initiated and sustained.
- ❖ Capacity building of NARS in the project target countries initiated and implemented.

WP 1: Bioecology of *T. absoluta* and associated natural enemies established



Work package 1 activities

- ❖ Distribution, abundance, dynamics, and host plants relationships of *T. absoluta* and its indigenous natural enemies.
- ❖ Ecological niche and phenological models to predict potential African and global distribution of *T. absoluta*.
- ❖ Molecular studies to infer evolutionary aspects underlying *T. absoluta* invasion and development of new markers to aid identification.

WP 2: Explorations for and introduction of natural enemies of *T. absoluta* undertaken.



Work package 2 activities

- ❖ Sampling for natural enemies of *T. absoluta*, colony establishment and maintenance.
- ❖ Evaluation of natural enemy performance against *T. absoluta*.
- ❖ Studies of the interaction of introduced natural with their African counterparts, impact on non-targets and assessment of life table parameters.

*WP 3: New technologies/ already existing management
tools identified, tested and implemented*



Work package 3 activities

- ❖ Evaluation of mass trapping technique as an IPM component.
- ❖ Developing of an attract-and-kill strategy as an effective and low-cost IPM component.
- ❖ Development of entomopathogens (fungi and virus) as biopesticides.
- ❖ Evaluation of natural products.
- ❖ Habitat management technique based on intercropping for *T. absoluta* control

WP 4: Surveillance for the pest in selected high risk countries initiated and sustained



Work package 4 activities

- ❖ Conduct specific surveillance for detection and monitoring of *T. absoluta* in Kenya, Uganda and Republic of South Sudan.

WP 5: Capacity building of NARS in the project target countries initiated and implemented



Work package 5 activities

- ❖ Selection and training of a group of core trainers in each project country.
- ❖ Development of training and awareness materials for NARS and farmers' training activities.
- ❖ Facilitate farmer group training, awareness campaigns on technology availability on biocontrol and IPM for *T. absoluta*.
- ❖ Distribution of training materials and information availability through the websites and media.
- ❖ Advance level training at PhD and MSc.

Project partners



- ❖ The International Potato Center (CIP), Lima, Peru;
- ❖ Institute for Biological Control, Julius Kuehn-Institut (JKI), Darmstadt, Germany; Higher Agronomic Institute of Chott-Meriem,
- ❖ University of Sousse, Tunisia; Arid Regions Research institute, Tunisia
- ❖ Agricultural Research Cooperation (ARC), Khartoum, Sudan
- ❖ Ministry of Agriculture, Forestry, Cooperatives & Rural Development, Juba, Republic of south Sudan
- ❖ Kenya Plant Health Inspectorate Services (KEPHIS), Nairobi, Kenya;
- ❖ Ministry of Agriculture, Animal Industry and Fisheries, Entebbe Uganda.

Project beneficiaries



❖ Direct beneficiaries

- ✓ Tomato growers at both subsistence as well as commercial levels
- ✓ NARS partners (extension officers, quarantine personnel, agricultural officers)
- ✓ Students will benefit by receiving higher degree training on monitoring and management of *T. absoluta*.
- ✓ The wider scientific community.

❖ Indirect beneficiaries

- ✓ Other solanaceous vegetable growers,
- ✓ Tomato processors, traders and exporters

Possible future collaborations



- ❖ Potential joint SDC West Africa Tuta project
- ❖ USAID Horticulture CRSP
- ❖ Other potential collaborators

Acknowledgment



- ❖ GIZ/BMZ, Germany
- ❖ National and international partners
- ❖ Local and international organizing committees of this meeting
- ❖ Host County/Institution