



Schweizerische Eidgenossenschaft
Confédération suisse
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Federal Department of Economic Affairs,
Education and Research EAER

Agroscope

R4D Proposed project:

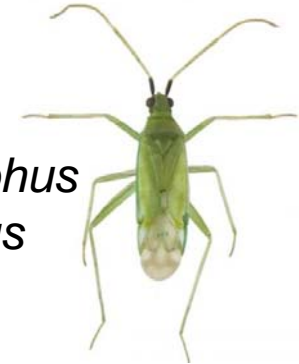
Sustainable management of arthropods in African vegetable production systems: *Fighting old foes and facing the challenge of a new invasive pest*

Jana Collatz, Jörg Romeis

November 26th, Addis Ababa

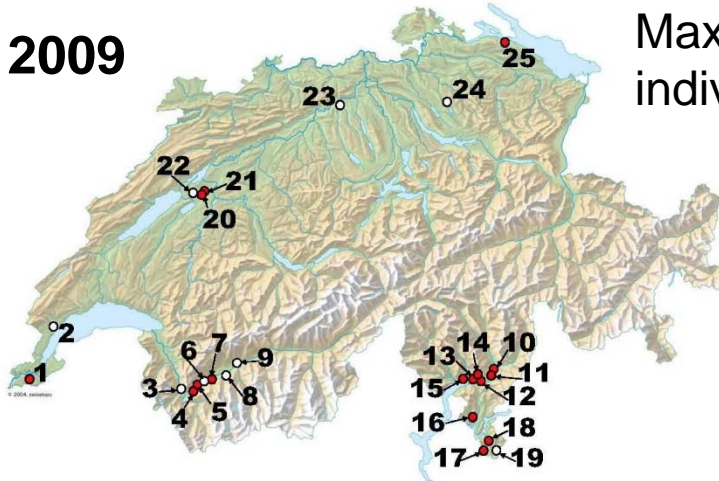


Tuta absoluta in Switzerland



Macrolophus pygmaeus

2009



Max 490
indiv./trap

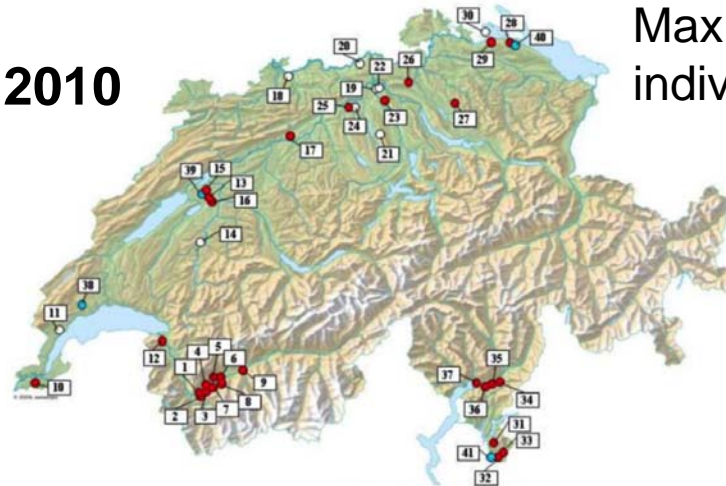
2009

First detection with pheromone traps by Agroscope researchers

2010

Higher numbers and resulting concern

2010



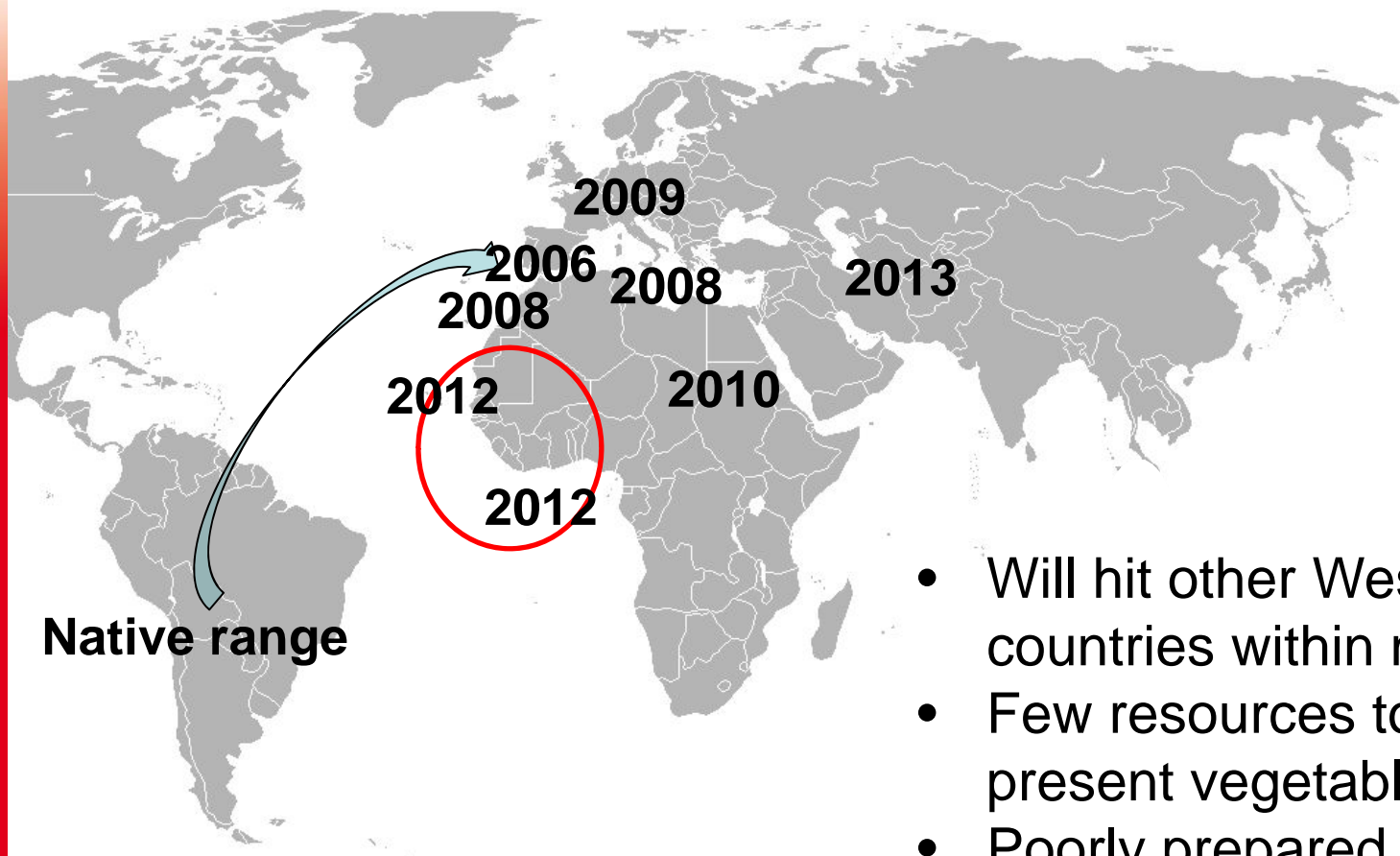
Max 1400
indiv./trap

2013

Damage much lower than expected due to cultural praxis and use of natural enemy



Tuta absoluta - A global problem



Native range

- Will hit other West African countries within next years
- Few resources to combat present vegetable pests
- Poorly prepared for the new invasive



Research in a global perspective: R4D

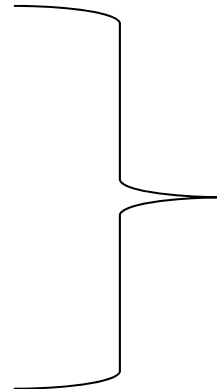


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Swiss Agency for Development
and Cooperation SDC



FONDS NATIONAL SUISSE
SCHWEIZERISCHER NATIONALFONDS
FONDO NAZIONALE SVIZZERO
SWISS NATIONAL SCIENCE FOUNDATION



Swiss Programme for Research
on Global Issues for Development

Supports relevant research for development aimed at solving global problems and alleviating poverty

Specific goal: Employing agro-ecological approaches to sustainably intensify agricultural production



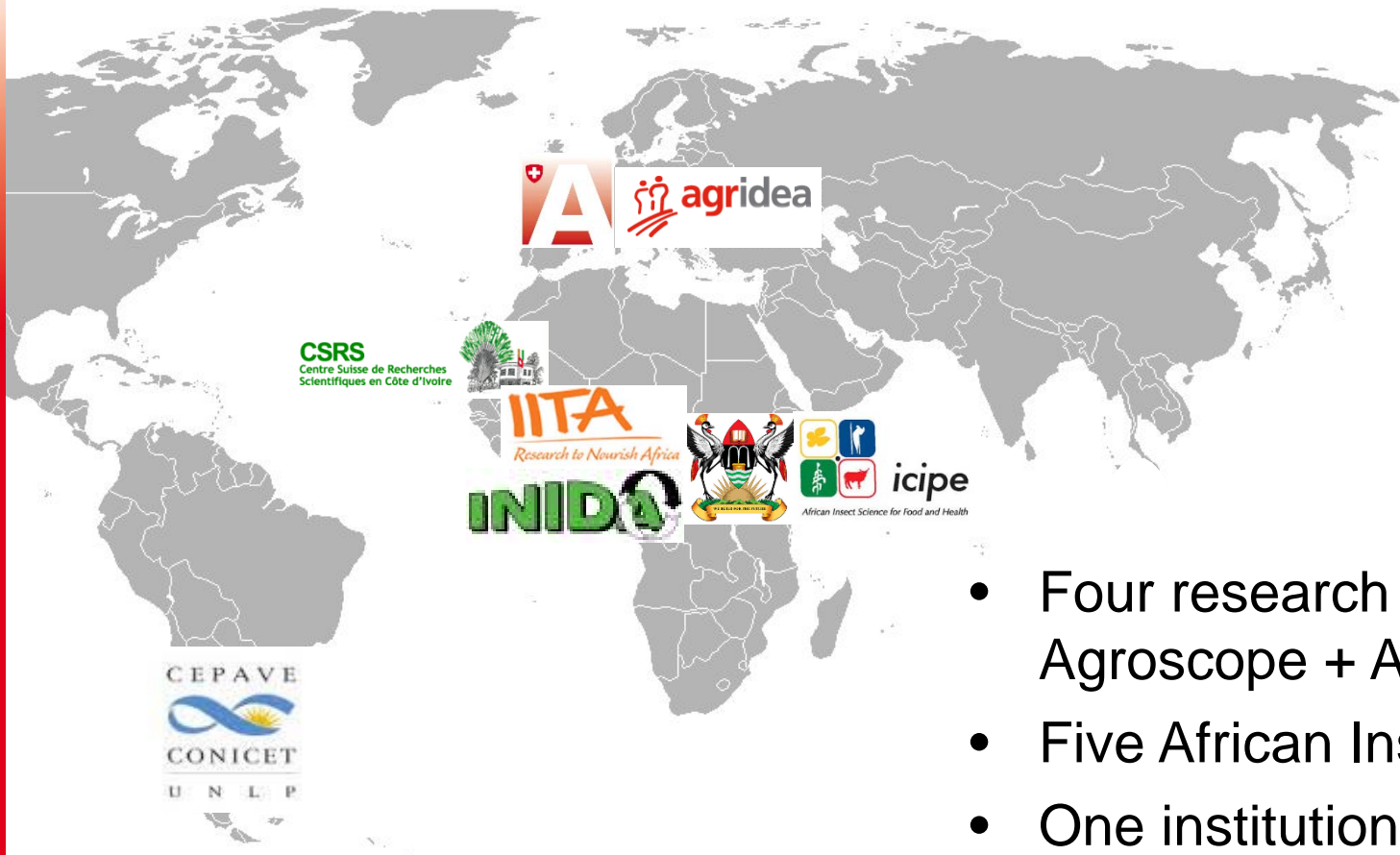
Contents of the proposal

- **Acquire baseline data on:**
 - farmer's situation
 - key pests and their current management
 - *T. absoluta* invasion
- **Agroecosystem assessment to:**
 - predict range of *T. absoluta* invasion
 - evaluate options for habitat management
- **Develop specific control options:**
 - Classical Biological Control
 - (Bio)-pesticides
 - Post control surveys

} Accompanied by biosafety assessments
- **Implementation by:**
 - Dissemination
 - Monitoring acceptance and socioeconomic impacts
 - Capacity building



Participating institutions



- Four research groups from Agroscope + AGRIDEA
- Five African Institutions
- One institution in the native range of *T. absoluta*



Thank you for your attention



**ART – Research for
Agriculture and Nature**