



#COAG 29

Committee on **Agriculture**
30 September - 4 October 2024



**ORGANISMO INTERNACIONAL
REGIONAL DE SANIDAD
AGROPECUARIA**

**Rapid plant health action: global knowledge exchange to implement
novel simulations for *Fusarium***

**Seven Points to Select and Improve a Simulation for
Fusarium TR4**

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Content



01

Choose the condition or status of Foc TR4 and other diseases

02

On approved document or reference to follow

03

Definition of objectives or goals

04

Area of action of the drill

05

Guarantee of Economic Resources

06

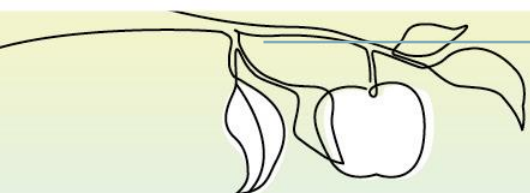
Innovations or techniques to be used

07

Types of Drills to Perform

1. Select the condition or status of Foc TR4 and other soil pathogens

Status	Drill Priority
Free or No Detection	<ol style="list-style-type: none">1. Exclusion (biosecurity measures)2. Prevention3. Monitoring4. Diagnosis
Detection of the 1st outbreak in a specific location	<ol style="list-style-type: none">1. Lockdown2. Eradication3. Exclusion4. Prevention5. Area Biosecurity
Detecting outbreaks in different locations	<ol style="list-style-type: none">1. Area Biosecurity (Quarantine)2. Confinement and eradication of outbreaks3. Prediction model
Epidemic development	<ol style="list-style-type: none">1. Area Biosecurity2. Integrated problem management



2. Define document or reference to follow

Document or reference	YES	NO	Institution
1. Contingency Plan			OIRSA
2. Action Plan			OIRSA – FAO
3. Manuals			NPPO, OIRSA
4. Guides			NPPO, OIRSA
5. Regulation			NPPO
6. Declaration of Emergency			OIRSA
7. Declaration of Phytosanitary Emergency			OIRSA
8. Reports of other drills			OIRSA, FAO, IPPC, NPPO



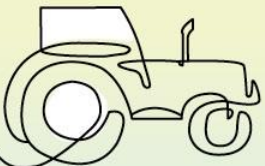
3. Definition of objectives or goals



Protejamos las plantaciones del
Fusarium R4T



- Capacity building (Training of trainers programs), Training of the Drill organizers
- Capacity Assessment
- Cross technical audit



4. Area of action of the drill/Simulations

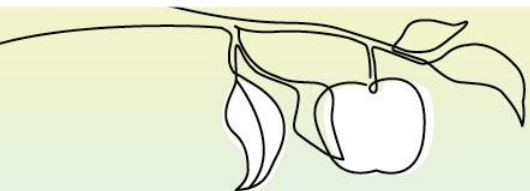
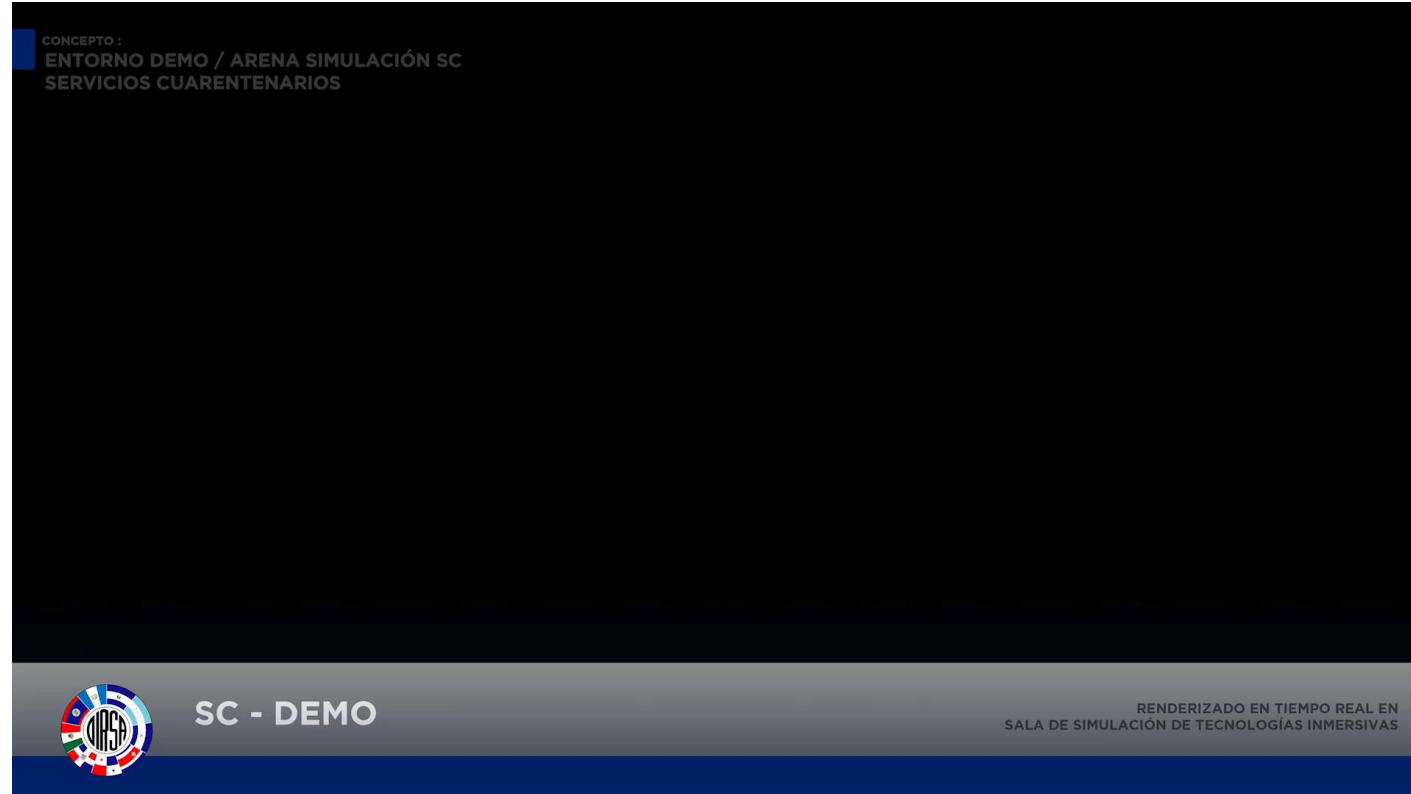
- Field
- Desk
- Artificial intelligence simulation room with immersive techniques
- Airports and ports
- Laboratories
- others



5. Guarantee of Economic Resources

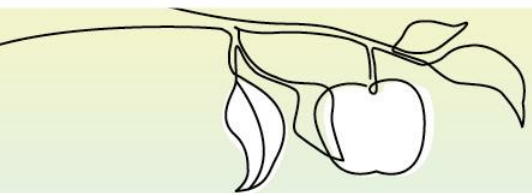
- National (NPPO or productive sector)
- Regional (RPPO or donor agencies)
- Management with international cooperations (FAO, OIRSA, GIZ)
- Projects with financing (IDB, TaiwanICDF)

* Estimated cost of Drill, between 30,000 to 100,000 US\$



6. Innovations or techniques to use

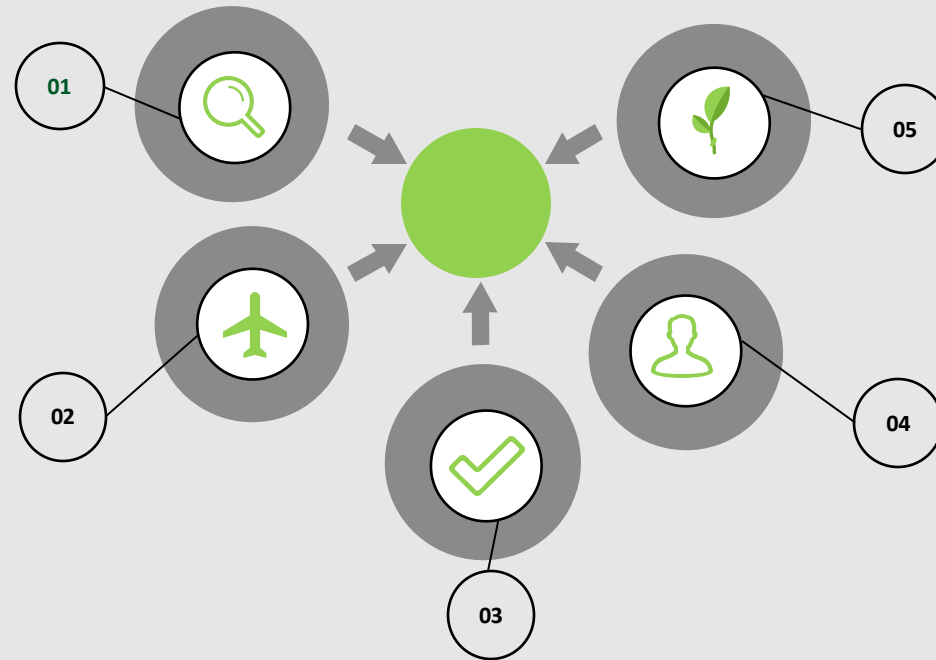
- Satellite Monitoring
- Drone squadron with spectral cameras
- Applications for reporting suspicious plants
- Dynamic maps of epidemiological risk
- Epidemiological quadrants
- Diagnostic techniques and equipment (LAMP, PCR-RT, Digital PCR, Immunostrips or test strips)
- GIS
- Biological control strategies



7. Types of drill for Foc TR4

Field and laboratory level
detection and diagnosis
simulation

Detection drill at ports,
airports and **internal border**
points



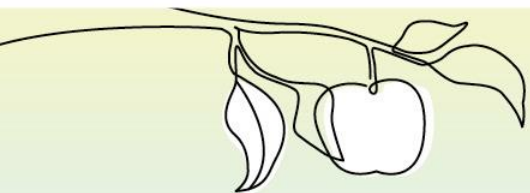
Outbreak containment,
elimination or **management**
drill

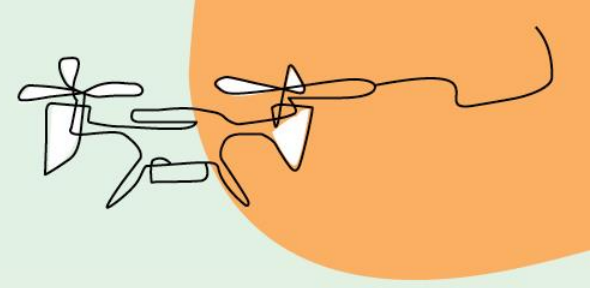
Total drills .

emergency management in
the event of the detection of a
pest or phytosanitary threat

Next International Simulation with Artificial Intelligence

- Headquarters: OIRSA El Salvador
- Organizers: OIRSA, FAO and IPPC
- Partners: IDB and ICDF
- Date: February 2025
- Participants: to be confirmed





Thank you

