

Introduction

Effective attention to the potential impacts that can be caused by the verification of the presence of a quarantine pest translated into a phytosanitary emergency depends on the elaboration of coordinated actions that, well executed, allow minimizing the possible impacts to acceptable levels.

Action/Contingency Plans are not merely theoretical exercises, they must be tested frequently to be evaluated, adjusted and updated before and after an emergency precedes.





Simulator

It is a **cabinet exercise** that recreates a hypothetical disaster situation, in which the participants must make decisions based on the information they receive during the exercise.

and simulation? hat

Simulation

It is a **practical exercise** of execution of operative actions that is carried out through the staging of damages in a hypothetical emergency.







Exotic fruit flies



Citrus diseases: HLB



Central American Locust



Khapra beetle



Foc TR4



Giant African snail



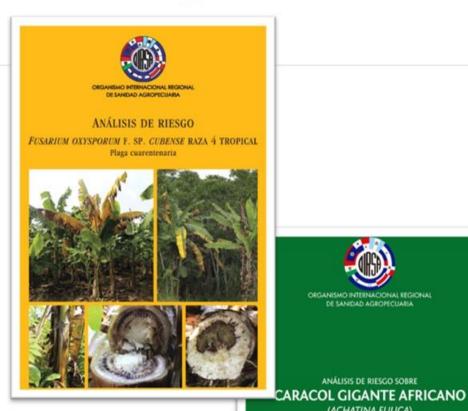
Requirements to perform a simulation

ORGANISMO INTERNACIONAL REGIONAL DE SANIDAD AGROPECUARIA

ANÁLISIS DE RIESGO SOBRE

(ACHATINA FULICA)

EN LA REGIÓN DEL OIRSA





(Gorgojo Khapra),

plaga cuarentenaria para la región del OIRSA

Ver. 2.0 El Salvador, octubre, 2020

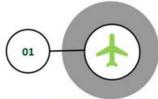






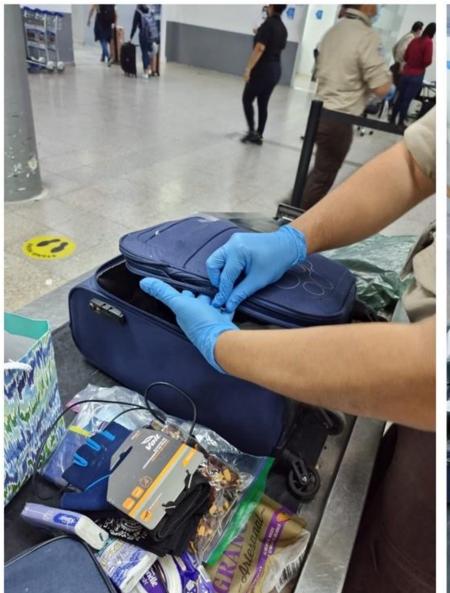
A. Simulation types



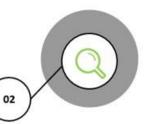


Detection at border points: international airports, ports and borders









Field detection and laboratory diagnosis



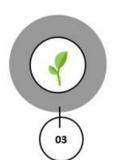












Characterization, delimitation, containment and management of outbreaks

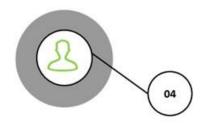












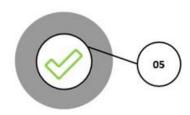
Emergency management upon confirmation of the outbreak











Evaluation of all simulations













B. Simulation goals

- Test the effectiveness of the management Action Plan.
- Test the effectiveness of the Contingency Plan vs. Foc TR4
- Assess capabilities.
- Improve communication and coordination.
- Assess overall responses from groups, services, response teams, and others.



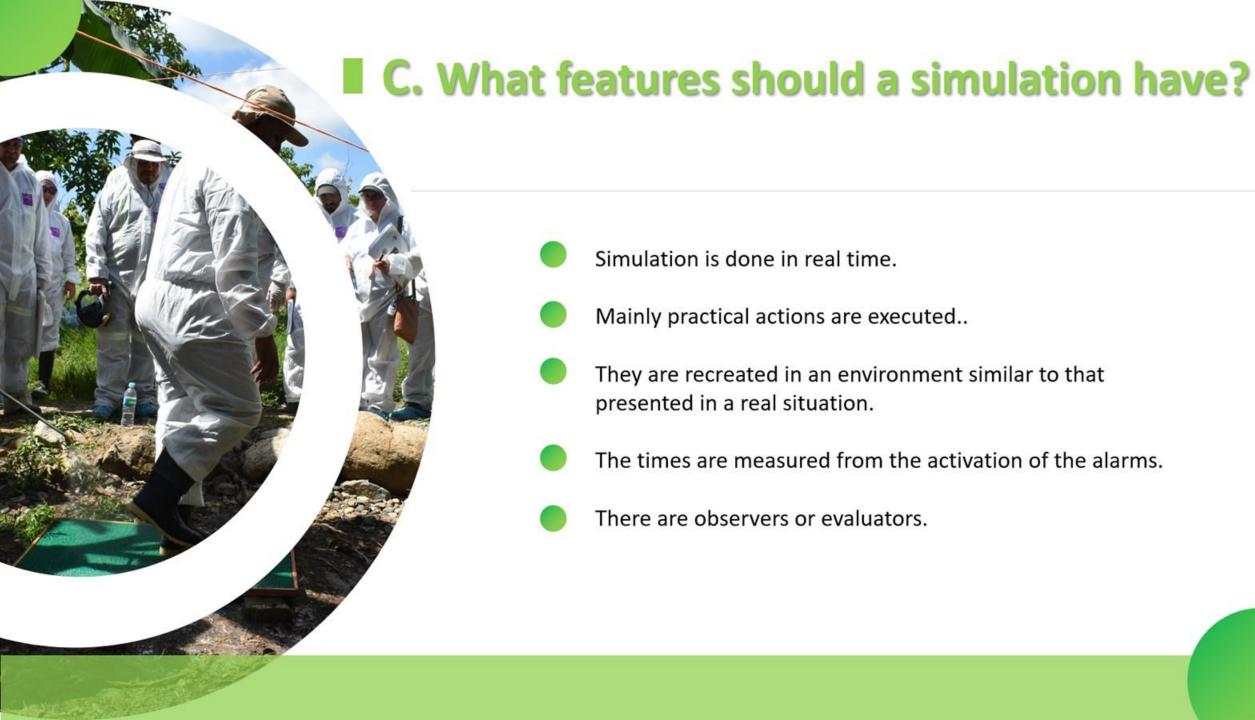












- Simulation is done in real time.
- Mainly practical actions are executed..
- They are recreated in an environment similar to that presented in a real situation.
- The times are measured from the activation of the alarms.
- There are observers or evaluators.

■ D. Utility of simulation in preparedness and response

 Identification of roles, evaluation of capacities and functions.

Evaluation of the functioning of the command coordination in the field and in conditions similar to the real ones.

Management: Inter-institutional coordination.

② Evaluation of response times.

Evaluation of techniques and skills learned.

Real-time evaluation of the Contingency Plan.





■ E. Necessary conditions to develop a simulation

- a An organizational structure for emergencies, duly institutionalized and with an action plan.
- Identification of the elements to be evaluated through the simulation exercise.
- A risk scenario that considers threats, vulnerabilities and capabilities.
- d An area (border point, laboratory, farm) with adequate physical-environmental conditions to recreate emergency situations with minimal risk for the participants.
- Institutional support, financial resources and adequate logistical support.

F. Organizational structure for conducting simulations

- 1. Coordinator
- 2. Manager
- 3. Evaluators
- 4. Logistics team



Foc TR4: Steps in a simulation





Foc TR4: Steps in a simulation







Planning

It consists of defining the fundamental parameters and the general characteristics of the exercise:

- Type of simulation to develop
- Purpose
- Goals
- target audience
- Budget
- Check list
- Inter-institutional coordination



Foc TR4: Steps in a simulation



Design and visualization of the simulation (pre-simulation)

Technical characteristics of the exercise, from the scenario to the schedule.

- Farm and its facilities.
- Duration.
- Chronology (protocol act, sequence of simulations, etc.)
- Logistics: communications system, hydration and snacks, media relations, exercise evaluation.
- The development of several pre-simulations is considered if necessary.



Foc TR4: Steps in a simulation





Execution of the exercise:

Normal development of everything planned by issuing an alert.

- Protocol Act
- Arrival at the farm internal quarantine cordons
- Delivery of general instructions and information
- Biosafety Clothing Mandatory
- Signposting throughout the route
- Recorrido por cada estación (según el tipo de simulacro)



Foc TR4: Steps in a simulation



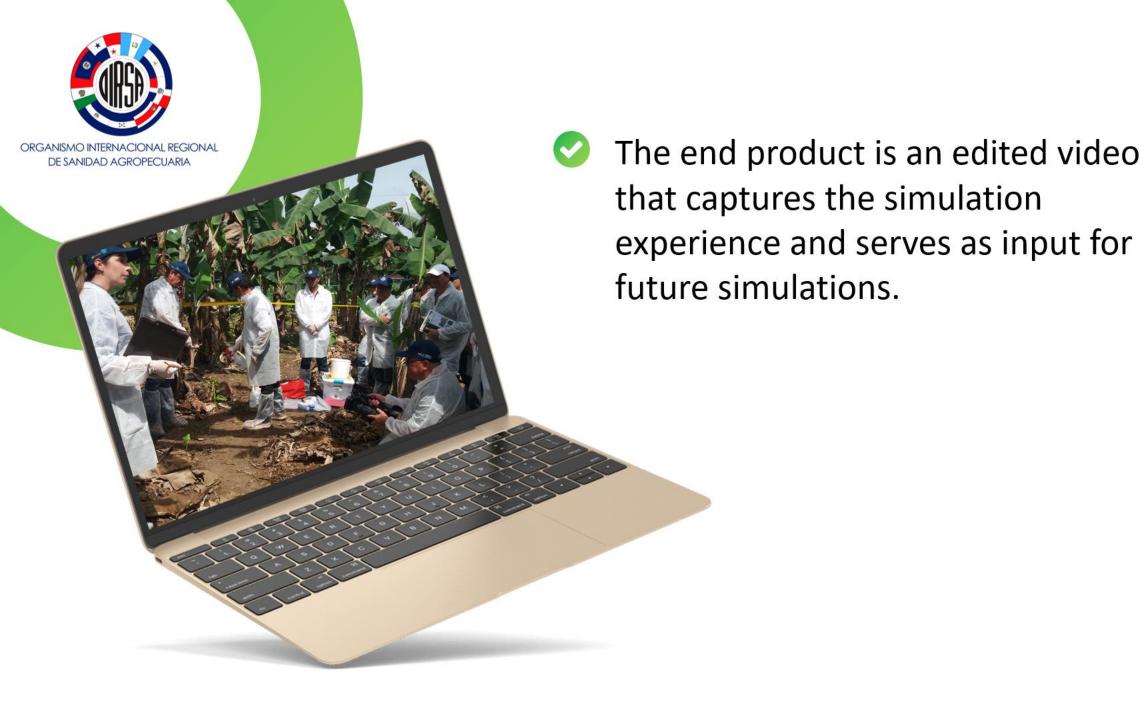


Evaluation:

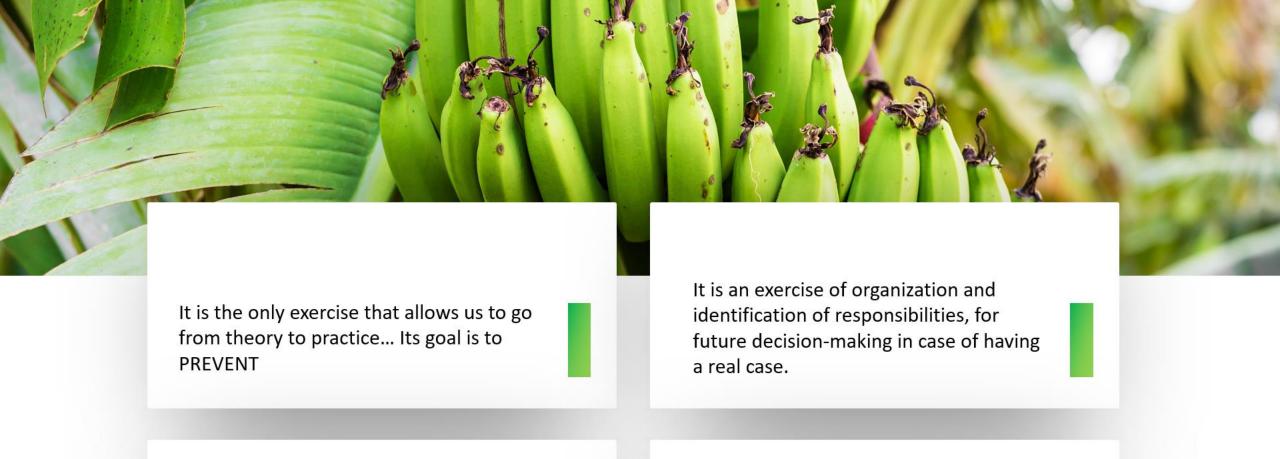
- Evaluation of the simulation by the participants.
- Evaluation of the simulation by the evaluators (OIRSA, FAO, Foc R4T Phytosanitary Command and other invited experts)



Foc TR4: Steps in a simulation







The scenario (border, farm or laboratory) and the script require very detailed information and organization to recreate the emergency and facilitate understanding and monitoring of actions.

The simulation must be evaluated and the results of this evaluation must lead to the updating of the national Contingency Plans.

