

# 19<sup>th</sup> Session of the Commission on Phytosanitary Measures

#Planthealth for food security, environmental protection  
and safe trade

CPM  
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## INNOVATIVE CAPACITY DEVELOPMENT TOOL: VIRTUAL 3D SIMULATION ROOM

Innovations for Foc R4T

Motivation AI-powered immersive techniques

Video of AI simulation room functionality with immersive techniques

New development arenas for 2025-2026

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## TECHNOLOGICAL INNOVATIONS FOR FUSARIUM WILT (FOC R4T)

1

### Digital Solutions (VIGIMUSA)

Phytosanitary intelligence platform for Foc R4T monitoring

Applications for reporting suspicious plants and digital diagnosis

Chat bot and Siri

2

### Field Detection and Entry point (borders)

Robot dogs and trained canines for Foc R4T detection

3

### Remote Monitoring

Satellite and drone surveillance of affected plants

4

### Rapid Diagnostics

Reactive strips for quick Foc R4T diagnosis (August 2025)

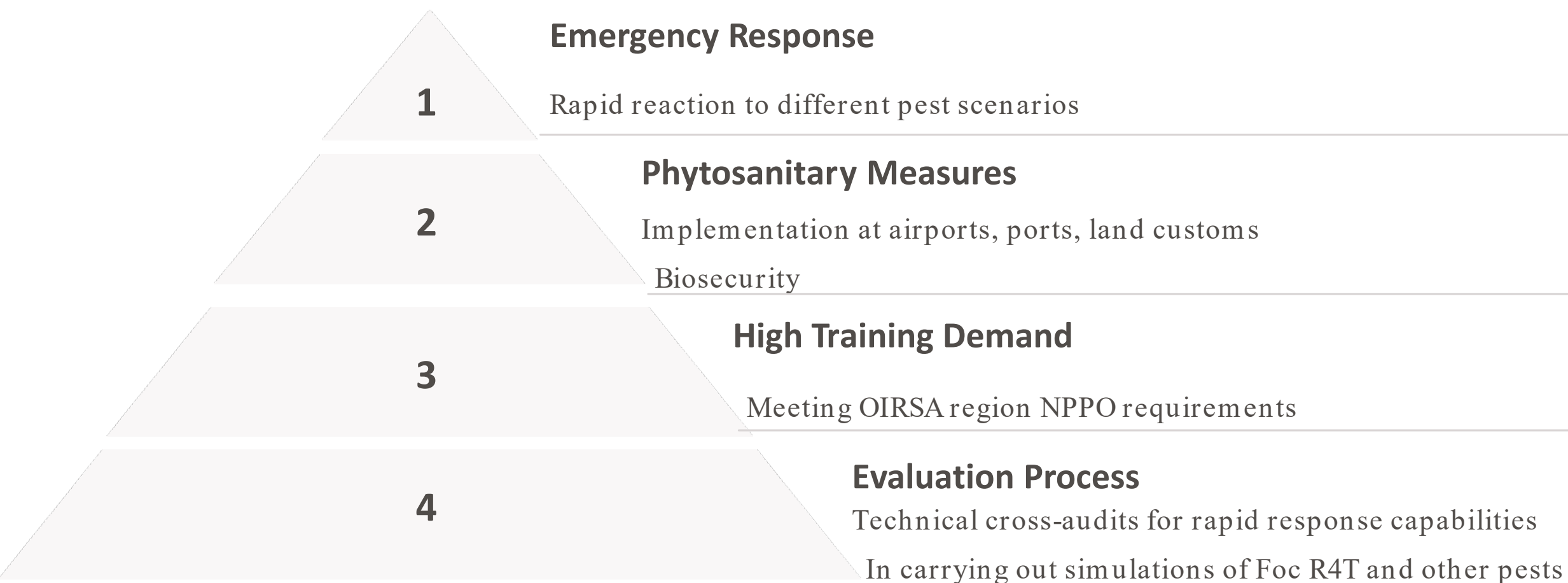
5

### 3D ARTIFICIAL SIMULATION ROOM WITH IMMERSIVE TECHNIQUES





## WHY USE AI WITH IMMERSIVE TECHNIQUES?









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## PLANNING NEW 3D AI ARENAS

### Fruit Flies

Virtual detection and control methods

### Citrus HLB

Disease progression and management

### Tomato Leaf Miner

Tuta absoluta identification and treatment

### Kapra Beetle

Recognition and containment procedures

### Fall armyworm

Integrated Pest Management (IPM)





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## PLANNING NEW 3D AI ARENAS

### Climate Change And Pest Epidemiology

New disease spread vectors

Changing host-pest relationships

Altered pest development cycles

Modified control measures needed

### Electronic Certification (ePHYTO)

Real-time validation of certificates

### Humanitarian AID Simulation

Phytosanitary Measures Apply

Smart monitoring

Inter-institutional coordination







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Thank you