COMITÉ DE SANIDAD VEGETAL DEL CONO SUR

Pest Outbreak Alert and Response Systems:
COSAVE Locust Alert System

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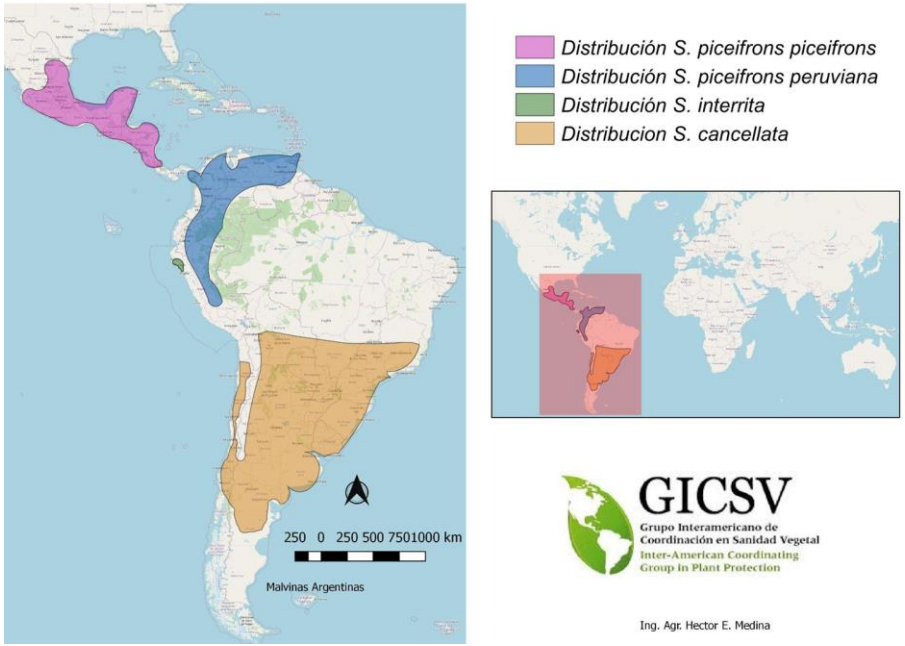
Pest Outbreak Alert and Response Systems:

Cosave Locust Alert System

COSAVE

IICA

South American Locust




Langosta sudamericana
South American Locust

Locust Potential Impact

Production at risk

USD 3.7 billion dollars

(Only in Argentina).

Consultoría
Beneficio - Costo.
IICA, 2020.

Objectives

General Objetive:

Contribute with the response system and risk assessment to reduce of damage by locust.

Specific Objectives:

- Implement an Information System for the surveillance and alert responses in COSAVE Region.
- Develop a System for the management and assessment of data using GIS.

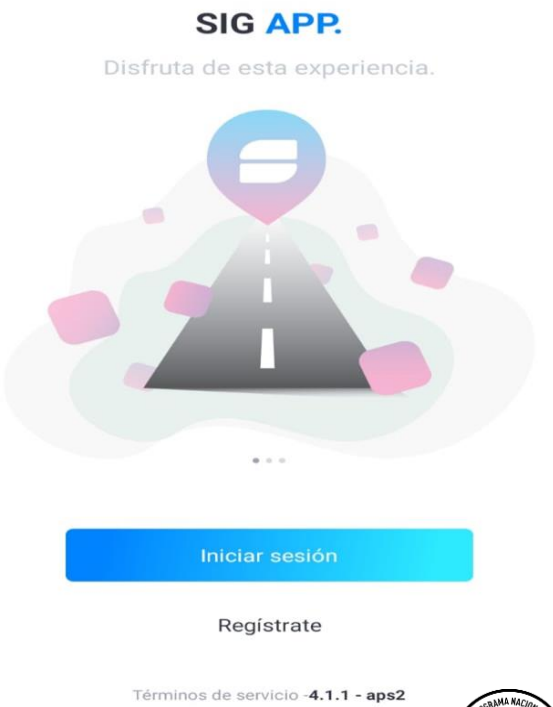
1) Mobile App at regional level

What for?

Collect data and information from the field

How?

By the mobile APP (SIGAPP Senasa AR)



1) Mobile App at regional level

Advantages:

- Harmonization of surveillance criteria.
- Information in real time (it works offline).
- Information is centralized in the Locust GIS.

2) Locust Alert System

What for?

Improve the communication between NPPOs and notify farmers about the locust location in real time.

Improve the response capacities for locust outbreak.

How?

Using the information from the Mobile App, through the Locust Alert System and the implementation of a website.

2) Locust Alert System

Advantages:

- Constant and synchronized communication between NPPOs
- Fast decision making
- Countries can increase anticipation capacity and response
- Communication with the stakeholders

3) GIS Locust

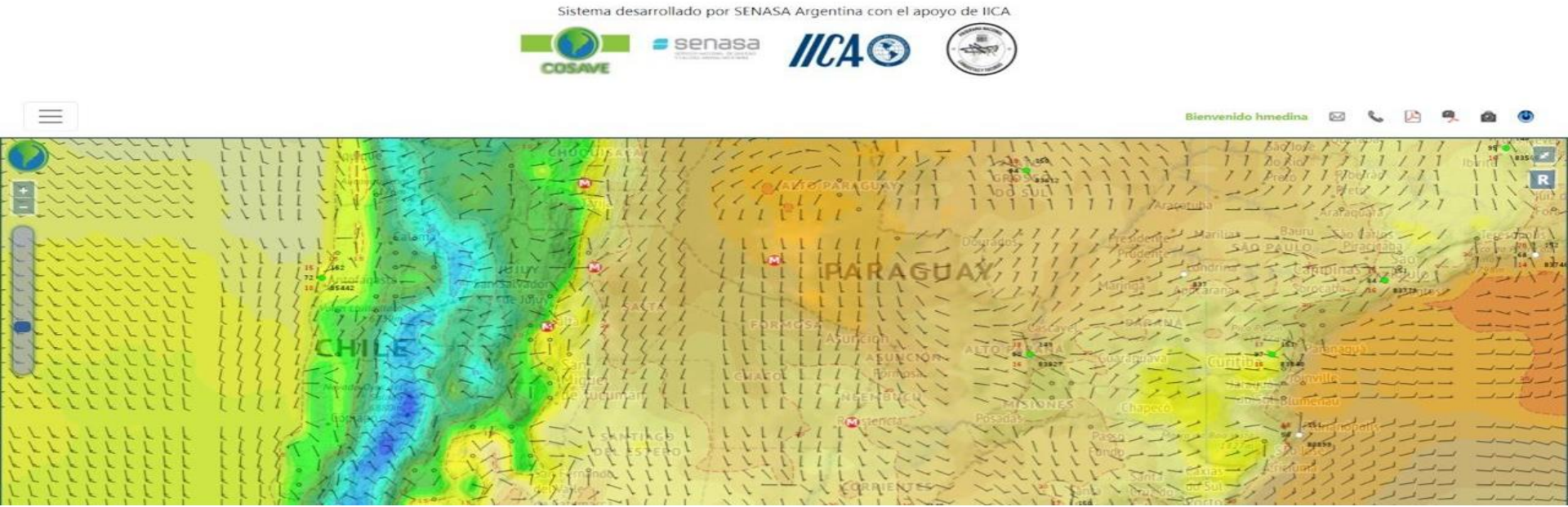
What for?

To improve the management of the information, response capactities, risk assessment, decision making and pest control

How?

Through the system to analyze surveillance data and manage information to facilitate decision making and pest control.

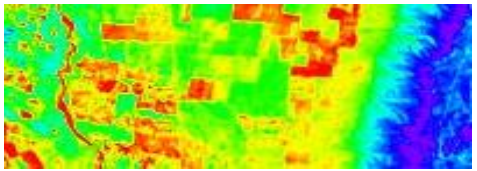
3) GIS Locust


Sistema desarrollado por SENASA Argentina con el apoyo de IICA
COSAVE
senasa
IICA
Bienvenido hmedina
PARAGUAY
CHILE

3) GIS Locust

Features:

- Integrated GIS System.
- Analyze, manage and download data.
- Upload layers in kml, csv, txt. formats.
- Share information and layers with users.
- Collect information from other systems.
- Incorporate information through WMS.



Conclusions

- System available for pest surveillance, management and alerts of Locust in South America
- Easy system to be used by experts of different countries
- Integrated System to Strengthen Pest Outbreak Alert and Response Systems

Next steps

- Improve and develop the system, adding new features
- Use the system for other pests, E.g HLB, *Lobesia botrana*, Fruit Fly in Argentina
- Implement this system at continental level (or similar system), through Inter American Coordinating Group in Plant Protection (GICSV)

GICSV
Grupo Interamericano de Coordinación en Sanidad Vegetal
Inter-American Coordinating Group in Plant Protection

Thanks for your time

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