

The Charles Darwin Foundation: Experiences and Limitations with PRA in Galapagos

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Part 1: Importance of Galapagos



- 1000 km due west of Ecuadorian coastline on the equator
- 3,600 km due south of New Orleans



Darwin's finches







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Quinine invasion

1970

2000













... unidos por la Conservación ... partners in Conservation



Fundamental scientific investigation





Conservation via restoration

- Eradicating and controlling invasive species
- Recuperating populations
- Restoring natural communities



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SESA GALAPAGOS



Part 3 - Galapagos Inspection and **Quarantine System (SICGAL)**

- Since 1991, Development of Quarantine System
- 1994: Special Galapagos Quarantine Regulations
- 1998: Special Law for Conservation of Galapagos
- 2001: SESA responsible for SICGAL
- 2003: New Regulation of Total Control of STORIANO DE SANIA **Invasive Species**





Achievements

- Inspection and quarantine system implemented
- Inspectors trained
- PRA manual
- Surveillance system manual









Part 4 – PRA Experiences

Evaluation of import products

- Importance of product to consumer
- Invasiveness
- Known to carry pests
- Exists in Galapagos
- Internal demand
- Control program
- Treatment feasible or economical



Product list

Prohibited products

> Blackberries Passionfruits

 Restricted products

> Potatoes Citrus fruits

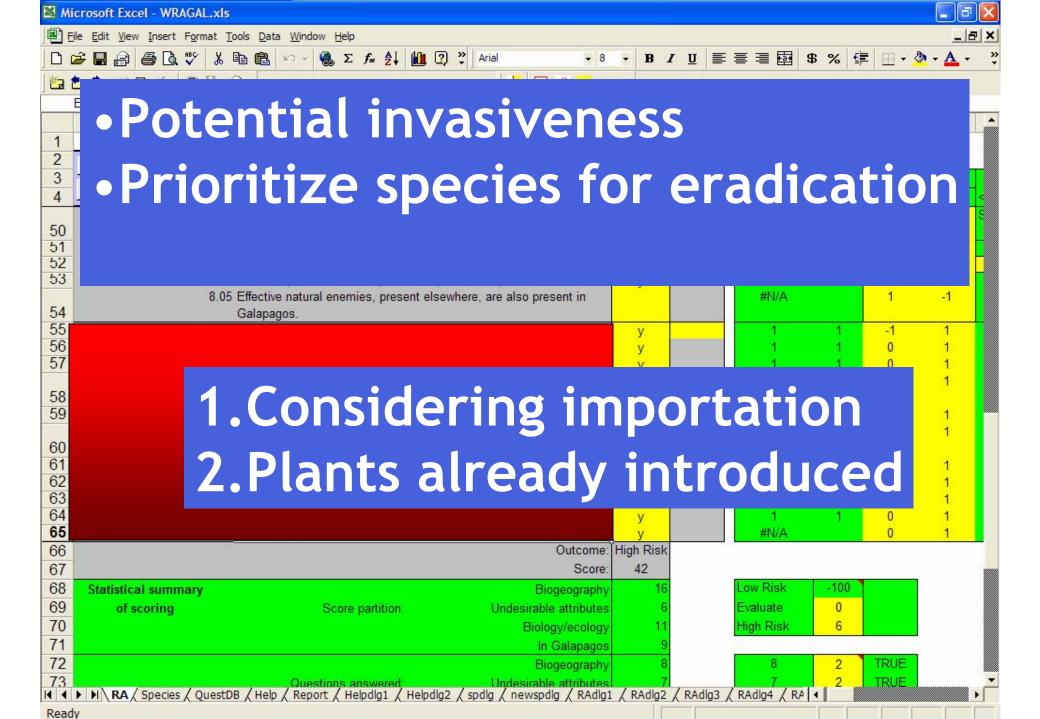
 Permitted products

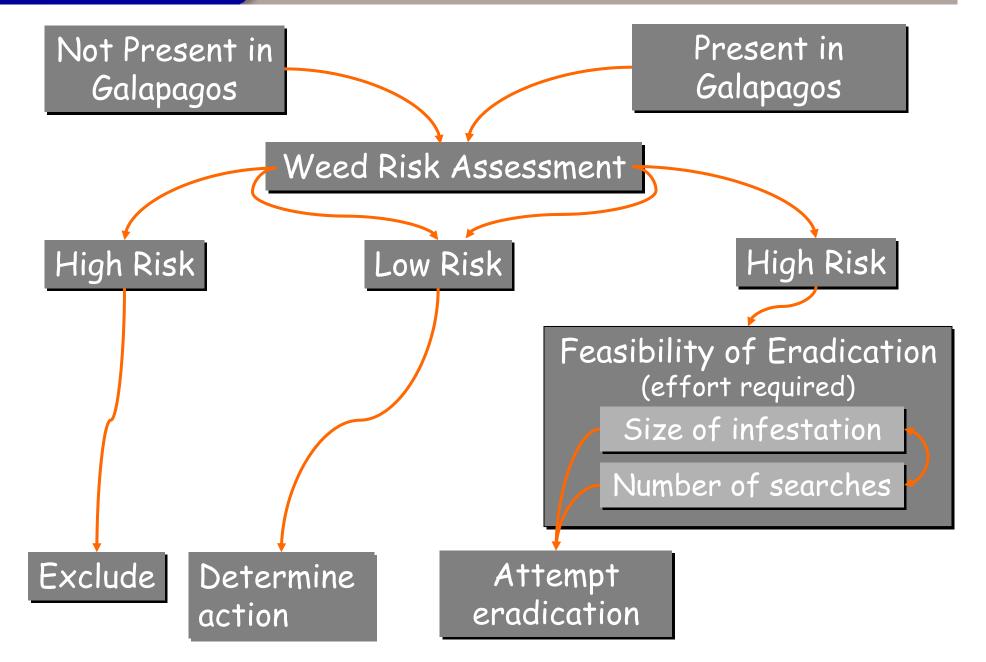
> Vegetables Grain



Limitations

- Invasiveness not adequately addressed
- Lack of information on products (associated pests)
- Biodiversity issues





Limitations

- Discrepancies between model and reality
- Thresholds to be evaluated
- Risk of importation pathways



Galapagos 500

500 potential quarantine species

- Probability of introduction
- Pathways
- Volume
- Frequency
- Detection

- Probability of establishment
- Host range
- Distribution range
- Presence
- Bionomics

- Potential impact
- Biodiversity
- Agriculture
- Public Health





Limitations

- Prioritization model for introduced species
- Lack of information on invertebrates (invasiveness)
- Shared data bases
- Country lists of quarantine pests
- Emphasis on economics rather than conservation



Perspective: The way forward

- Key challenges
 - Invasive species
 - Stemming migration
 - · Achieving community 'buy in'
 - Securing and restoring key habitats
- Where the answers lie
 - On-going and increased commitment from stake holders at all levels
 - Efficient implementation of Quarantine System
 - Appropriate PRA models

What's at stake?

- One of the last remaining intact island ecosystems in the world
- First World Natural Heritage
 Site
- Scientific research mecca
- Our home



Come see for yourself!

