



Conservación
de Islas



Invasive species eradication projects implemented on islands in Mexico

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Session 10. Strategies for Eradication Success

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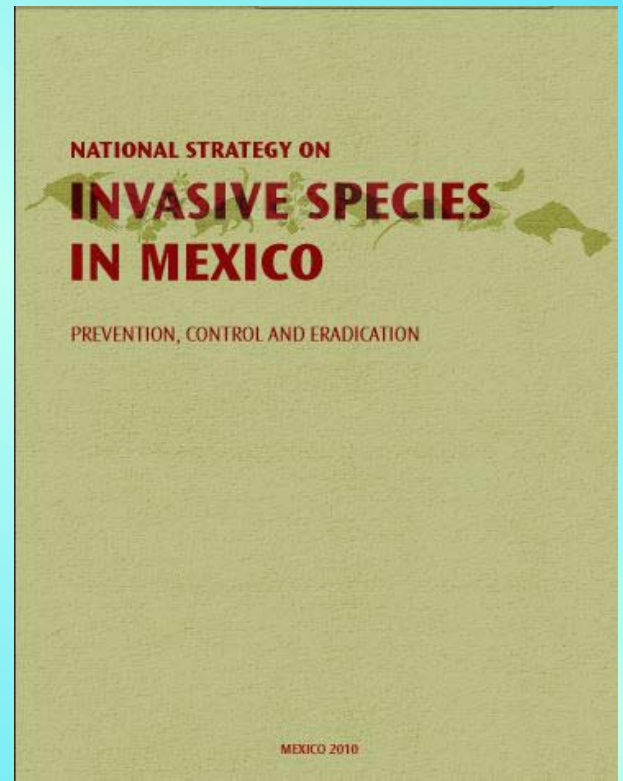
Outline

- Framework: conditions to be met
- Eradication: critical elements to be considered
- Invasive mammal eradication on Mexican Islands: case studies
- What can be used – weed eradication



Framework: conditions to be met

- Socio-political conditions
 - Identify and engage partners (Government, CSOs, Academia, etc.)
 - Social actors (Local communities)
 - Legal framework (biosecurity)
- Funding – Long term
- Best science and techniques available
 - Priorities
 - High success probability



Eradication: critical elements to be considered

Pre-eradication

- Target and non-target species studies (population dynamics, resources, bait consumption, etc.)
- Best timing (climate)
- Independent external peer-review process
- Scale-up (bigger, more complex islands)
- Test techniques (adapt beforehand)
- Biosecurity



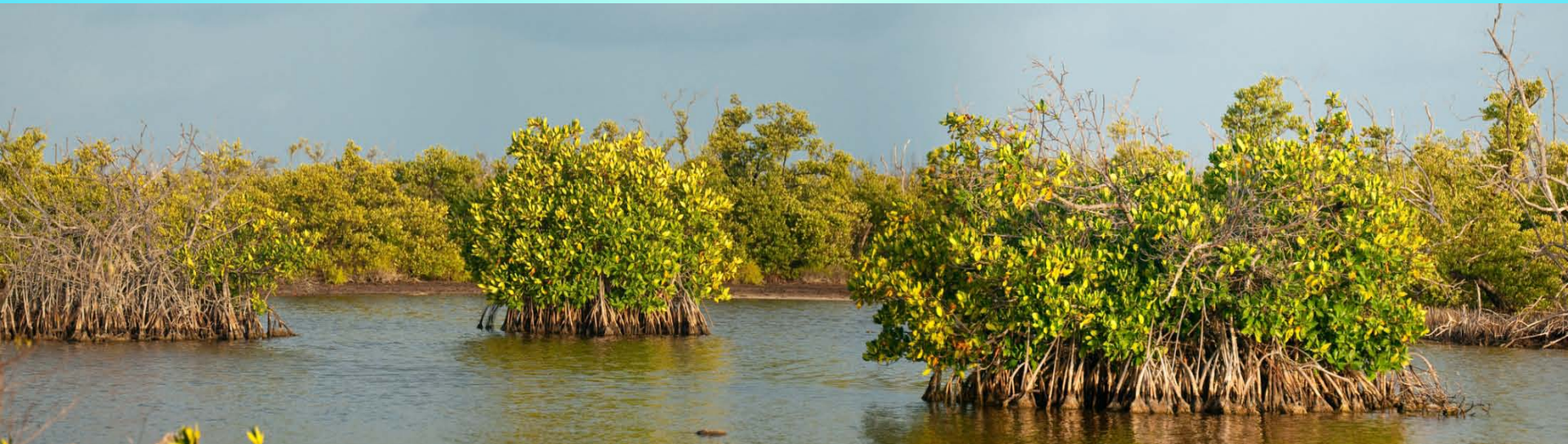
Eradication

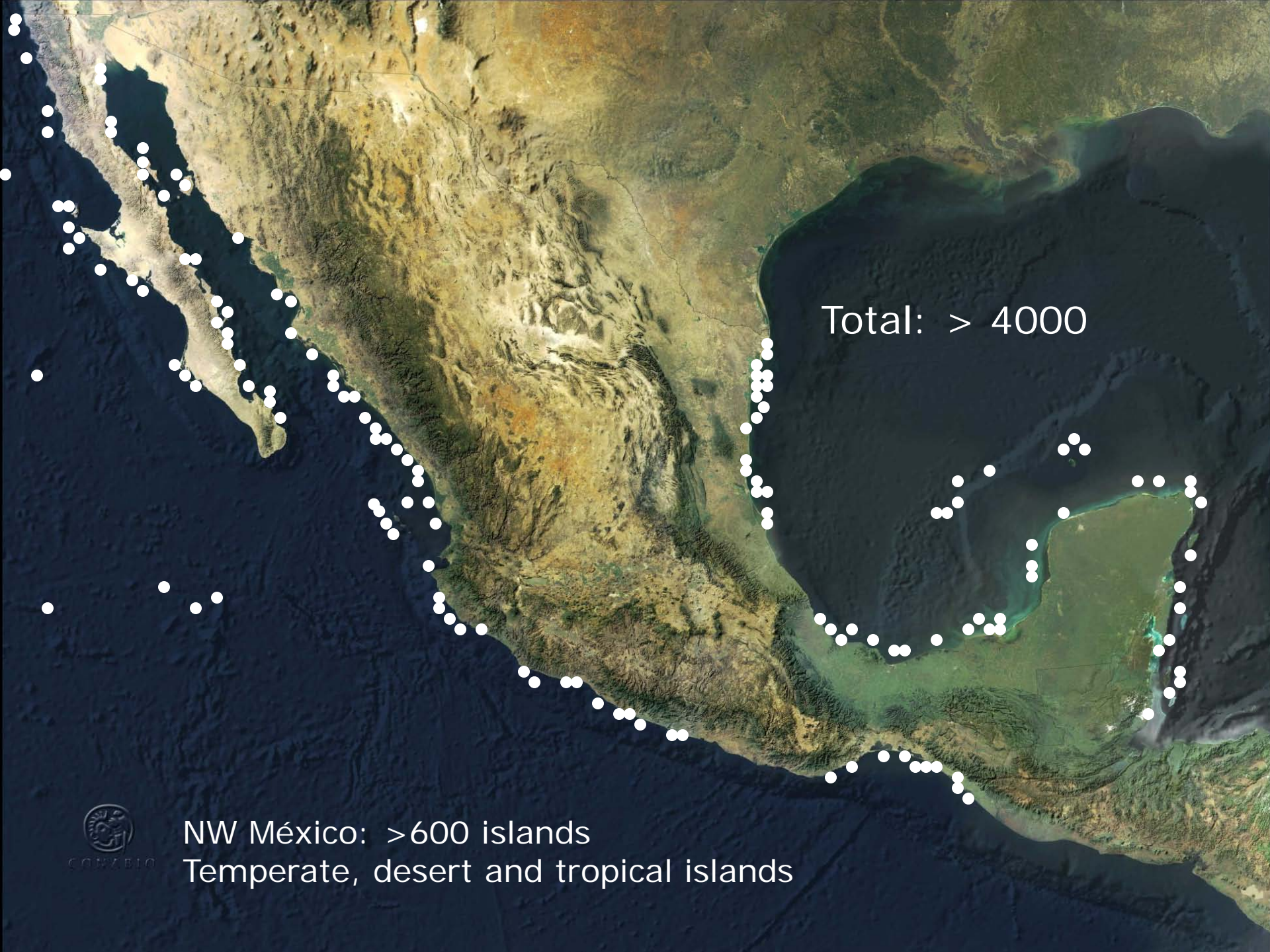
- Experienced people (pilots, hunters, biologists)
- Follow the plan, adapt if necessary
- Keep the team motivated
- Document the whole process (details)
- Monitoring target and native species



Post-eradication

- Absence confirmation
- Monitoring of native species (measure benefits)
- Biosecurity
- Review the process
- Further restoration actions?





Total: > 4000

NW México: >600 islands
Temperate, desert and tropical islands



Biggest **THREAT**: Invasive Alien Species (IAS)

- 88% (21/24) of vertebrate extinctions on islands
- 76% (16/21) of island extinctions due to IAS
- Plant extirpations and extinctions



58 eradications (11 sp.) on 37 islands



58 eradications (11 sp.) on 37 islands



Banco Chinchorro: Black Rat Eradication



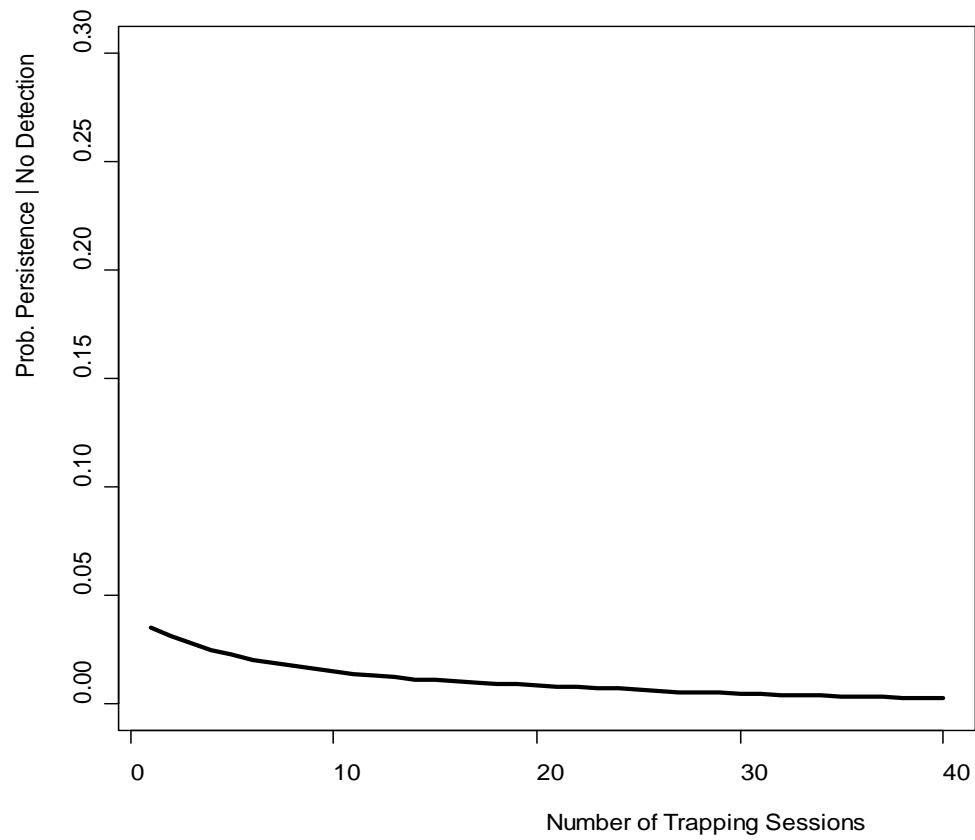












Critical elements

- Target and non-target species studies
- Timing
- Independent external peer-review process
- Scale-up
- Test techniques (adapt beforehand)
- Biosecurity
- Best techniques available
- Experienced people
- Absence confirmation
- Monitoring native species





Cat eradication on Socorro Island







Independent External Peer-review process (Australia, New Zealand)



Critical elements

- Best techniques available
- Scale-up
- Test techniques
- Independent external peer-review process
- Experienced people
- Keep team motivated
- Absence confirmation
- Monitoring native species



Pre-eradication

- **Target** and non-target **species studies (ID)**
- **Best timing (climate)**
- **Independent external peer-review process**
- Scale-up
- **Review techniques (environmental impacts)**


Eradication

- **Experienced people**
- **Follow the plan closely, adapt if necessary**
- **Keep the team motivated**
- Document the whole process (details)
- **Monitoring target** and non-target species

Post-eradication

- **Absence confirmation**
- Monitoring of non-target species
- **Biosecurity**
- **Review the process**
- **Further restoration actions?**





Thank you! - ¡Gracias!