



UNIVERSITÀ
DEGLI STUDI
DI MILANO



Refuerzo poblacional como herramienta para la gestión

LIFE Connect Ricotí Final Congress

Stefano Canessa

Università degli Studi di Milano

IUCN/SSC Conservation Translocation Specialist Group



Traslocaciones para la conservación

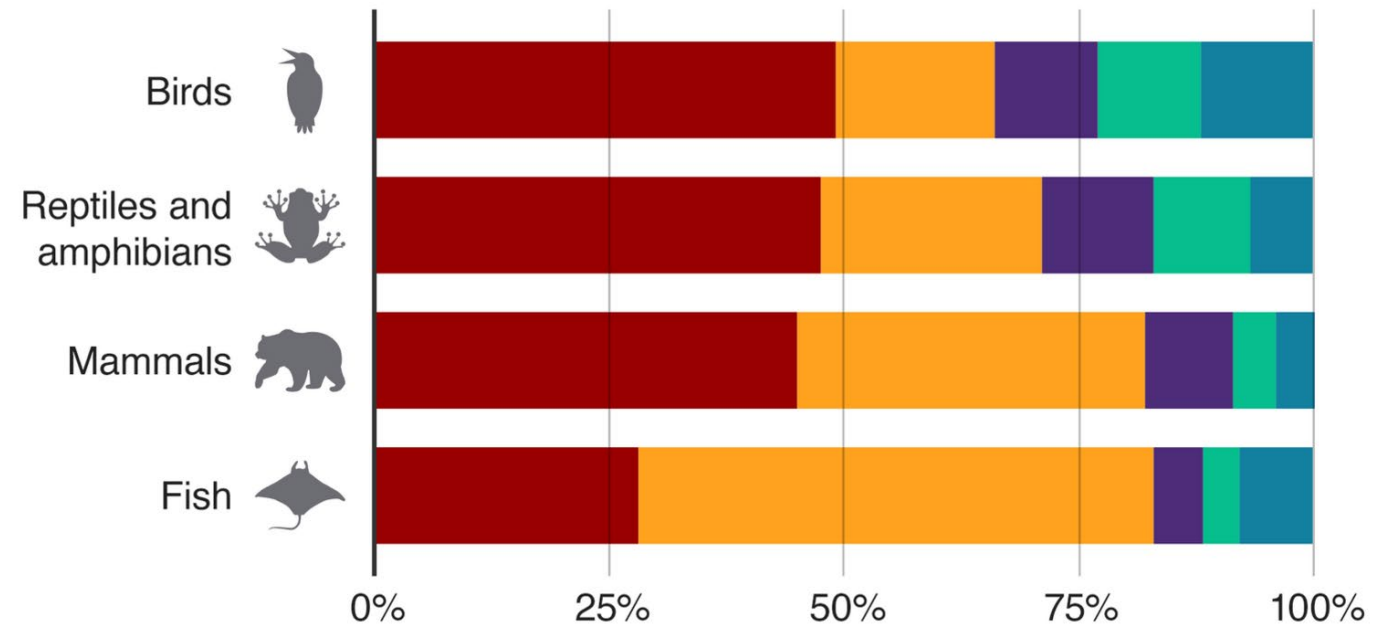
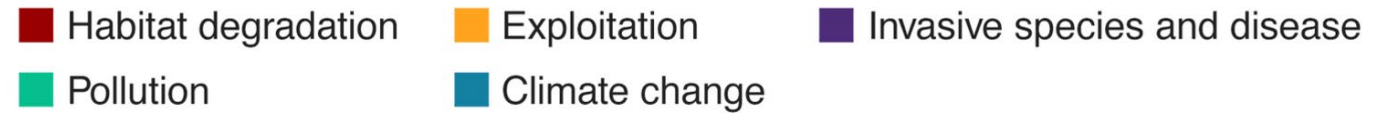
More than 44,000 species
are threatened with extinction

That is still 28% of all assessed species.



Habitat loss is a major threat to biodiversity

The Living Planet Report assesses key drivers of species decline



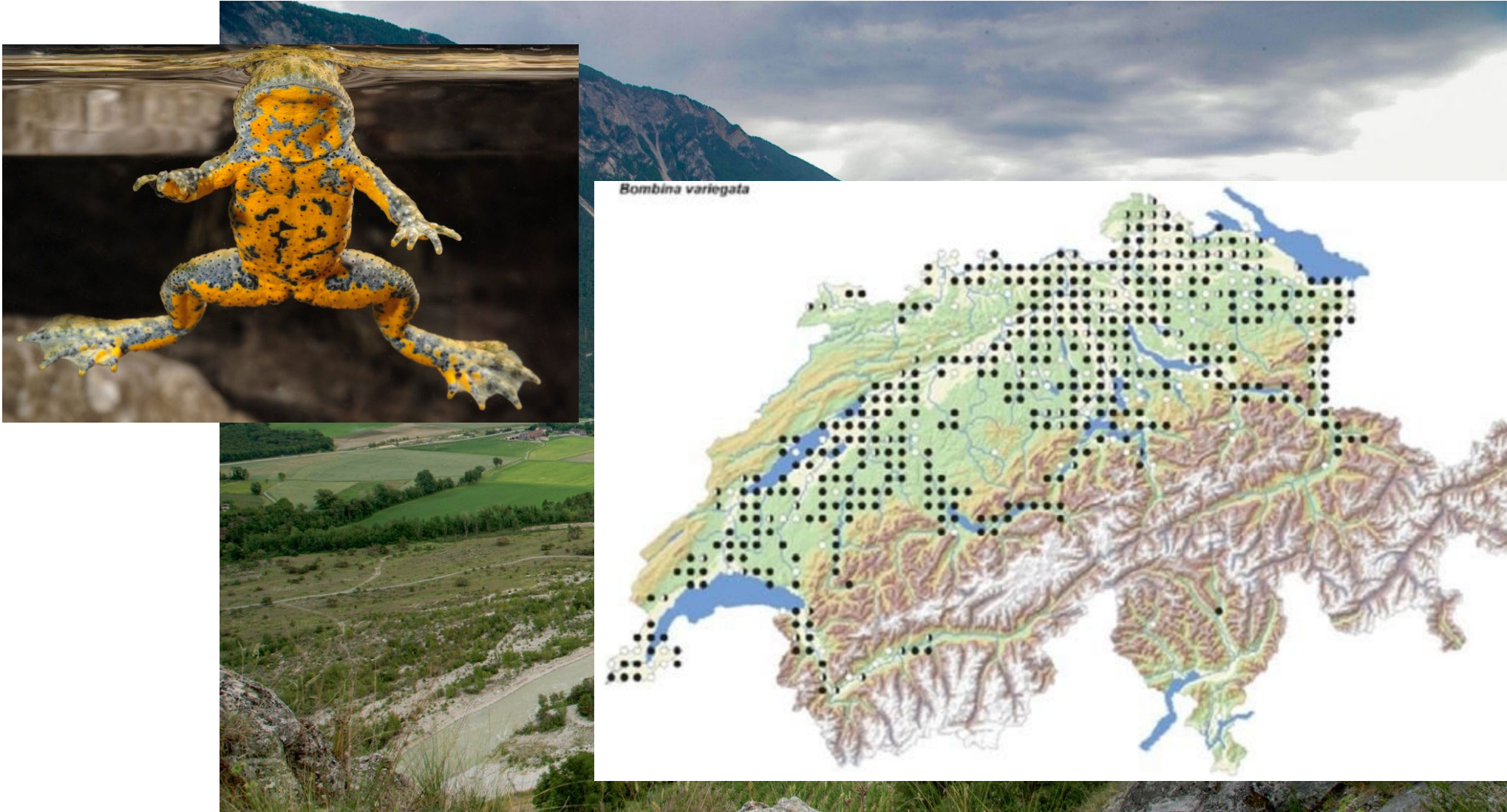
Note: A sample of 3,789 populations evaluated by the Living Planet Index

Source: WWF, Living Planet Report 2018

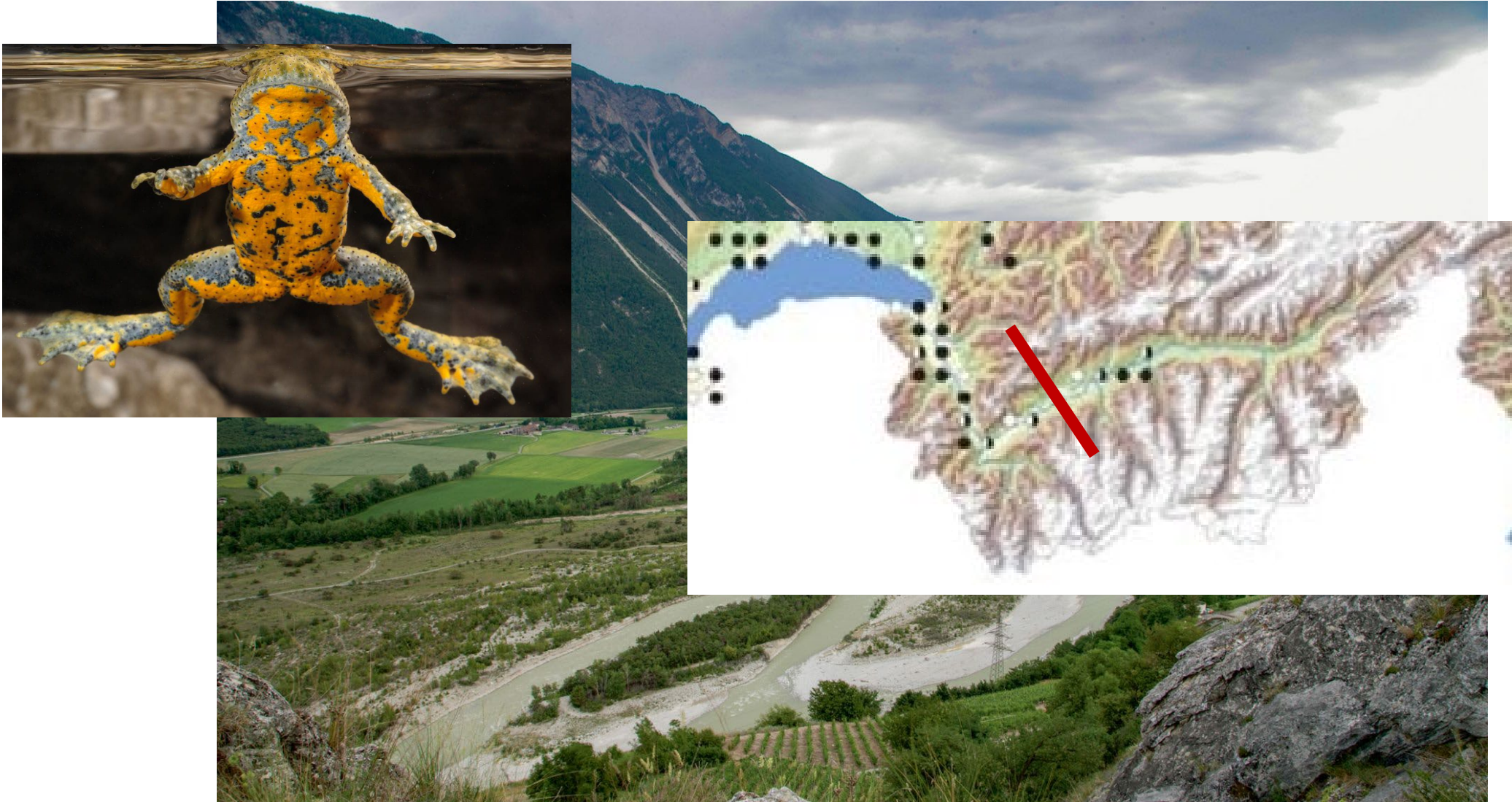
Traslocaciones para la conservación



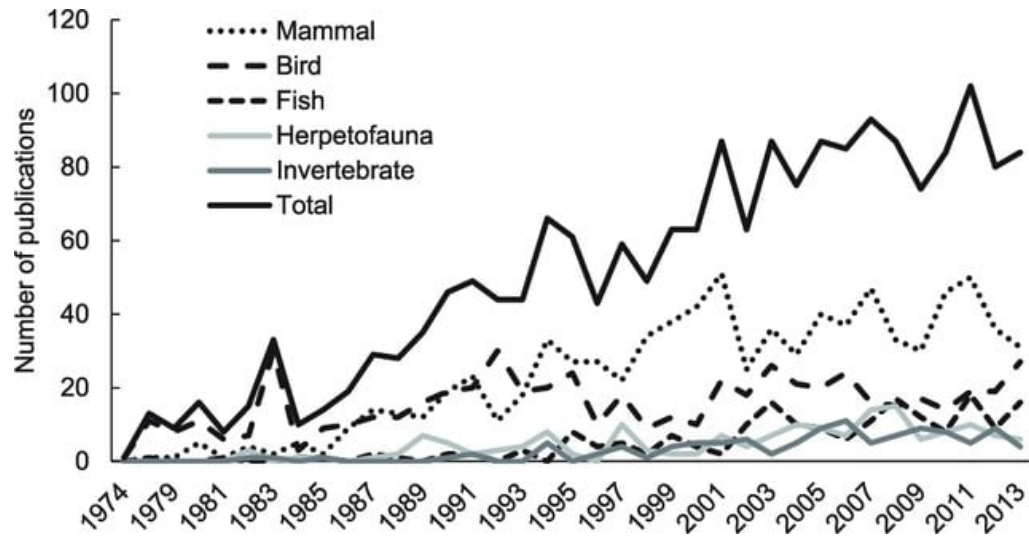
Traslocaciones para la conservación



Traslocaciones para la conservación

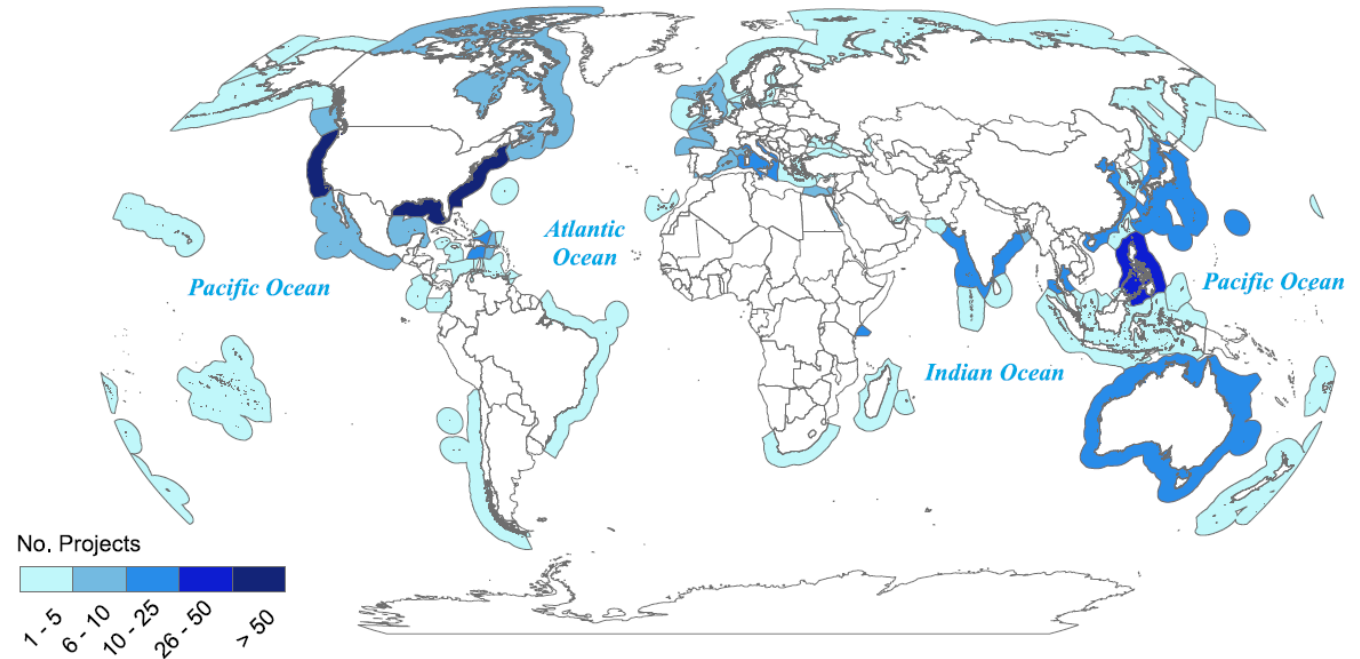


Traslocaciones para la conservación



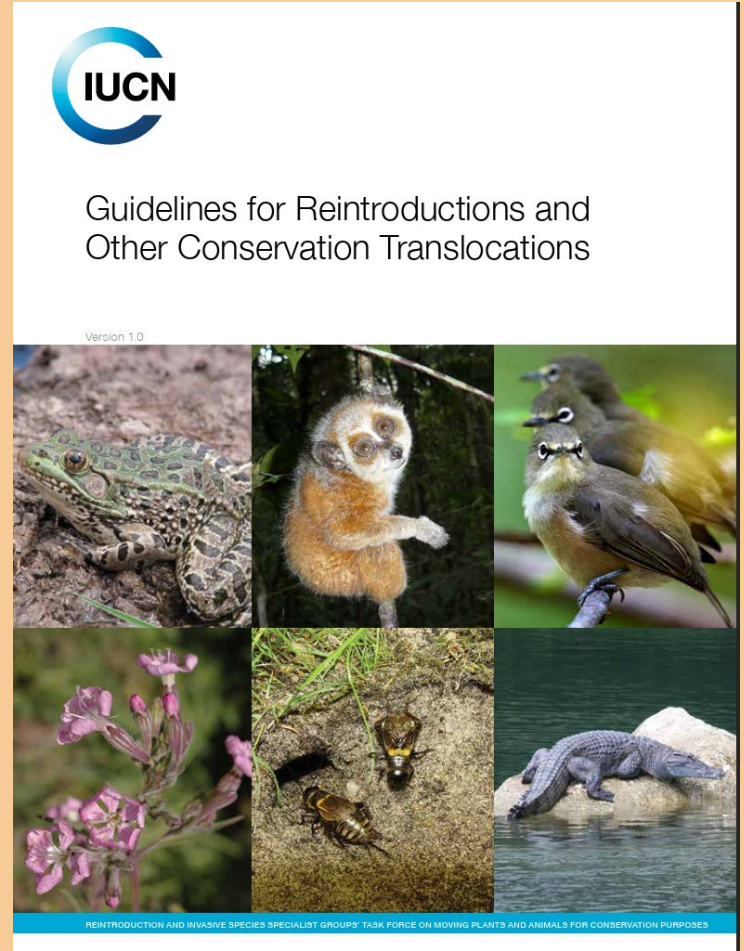
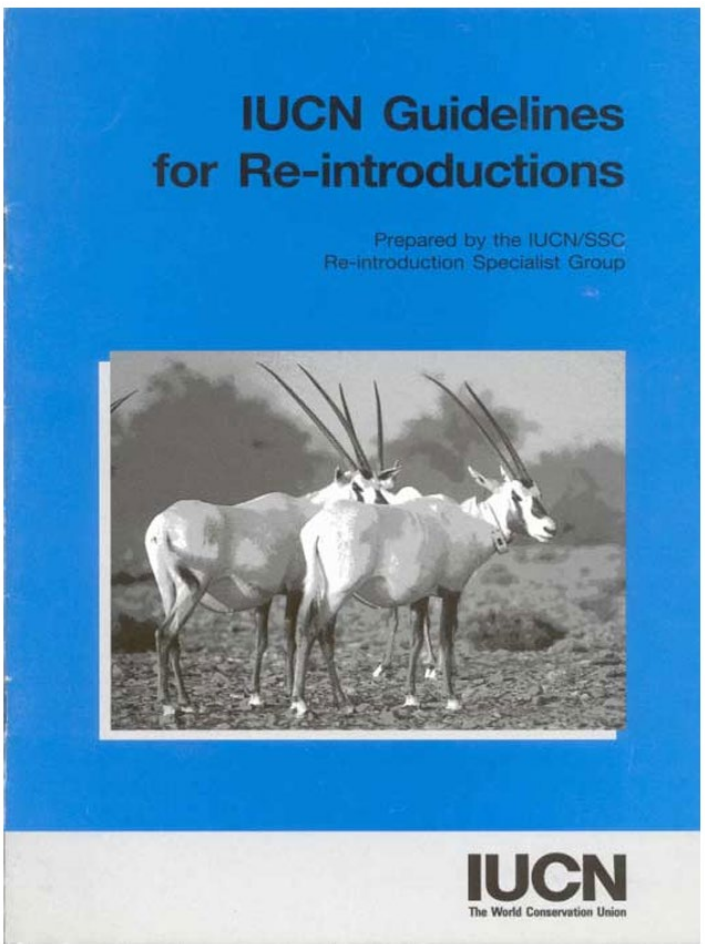
Brichieri-Colombi et al. 2016 *Cons. Biol.*

Swan et al. 2015 *Cons. Lett.*



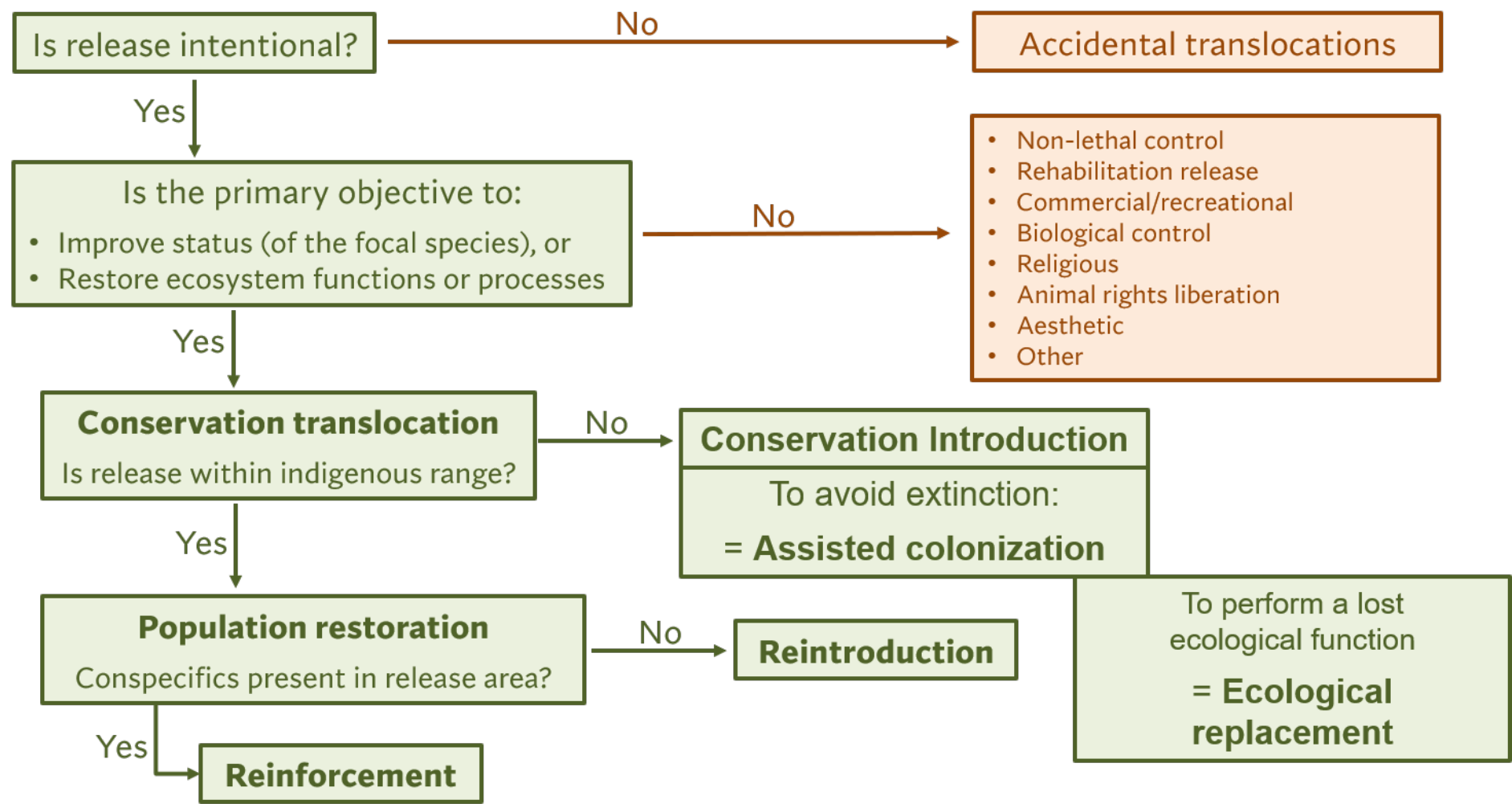
Directrices IUCN/SSC Reintroducciones

Primera edición en 1988

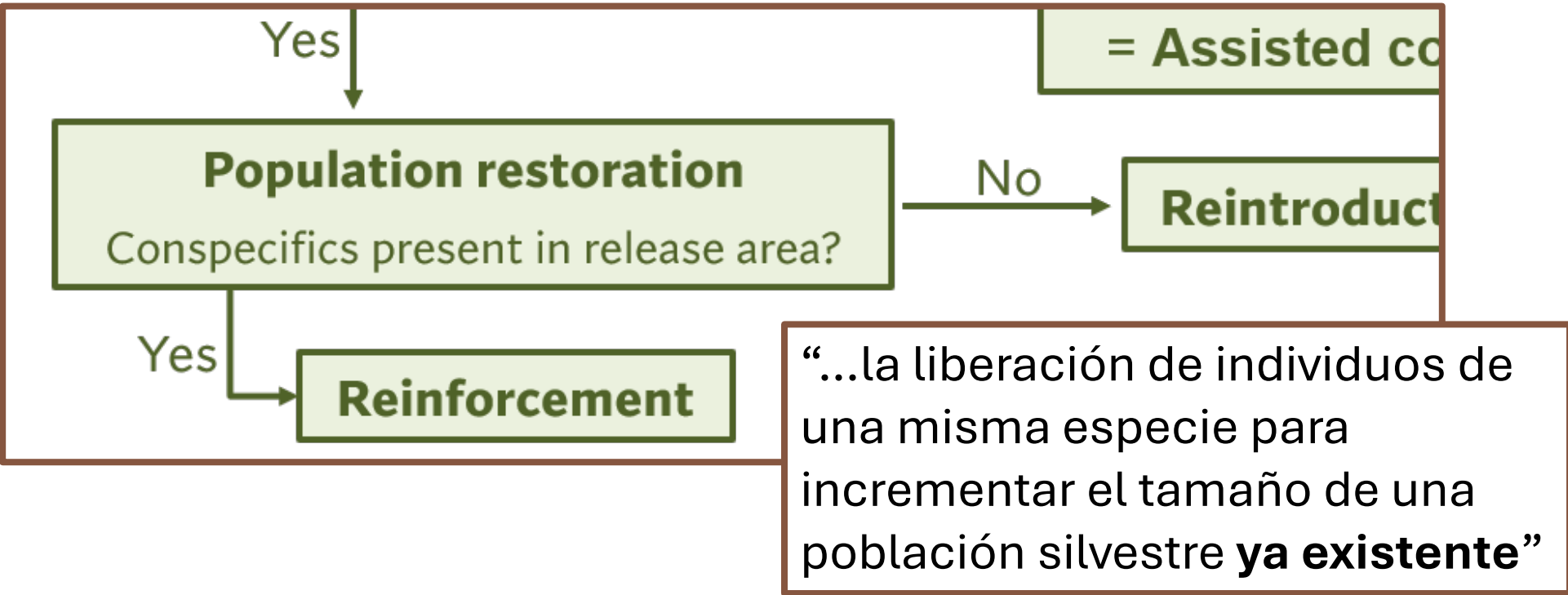


Revisión en 2013

Directrices IUCN/SSC Reintroducciones



Directrices IUCN/SSC Reintroducciones





Planificación

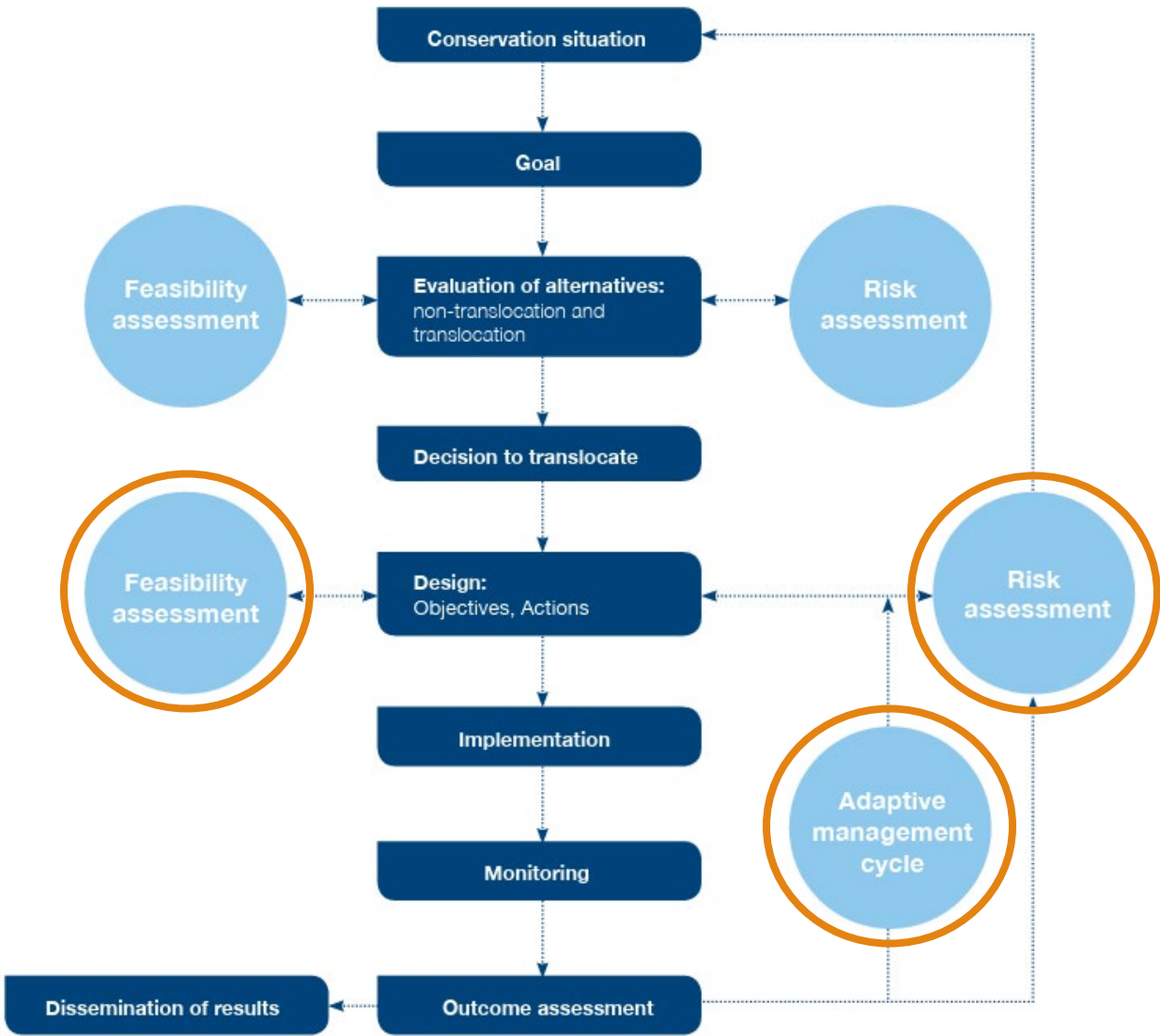


Guidelines for Reintroductions and Other Conservation Translocations

Version 1.0

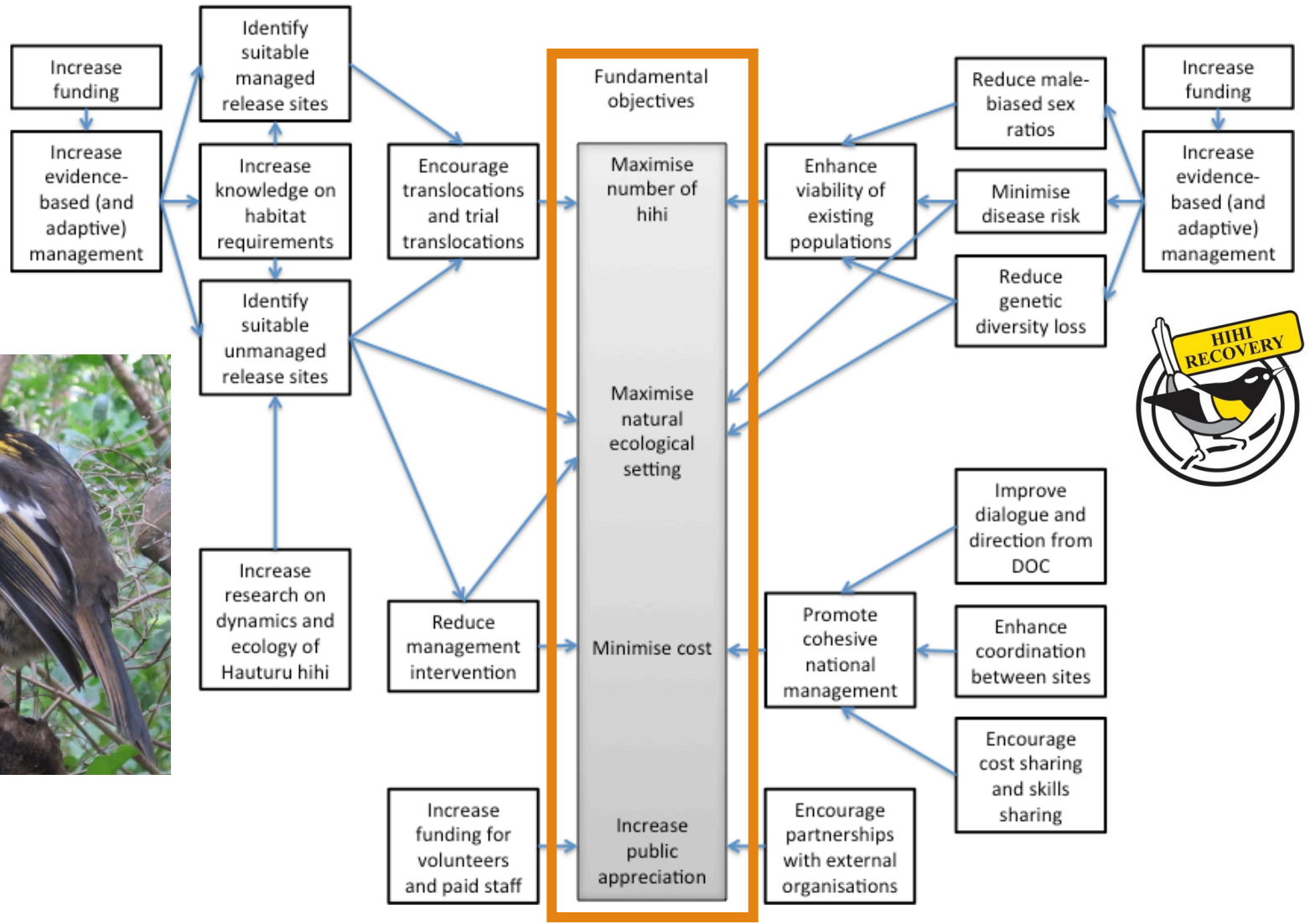


REINTRODUCTION AND INVASIVE SPECIES SPECIALIST GROUPS' TASK FORCE ON MOVING PLANTS AND ANIMALS FOR CONSERVATION PURPOSES



Objetivos

- Completo
- Sin ambigüedades
- Conciso
- Comprensible
- Directo
- Operativo



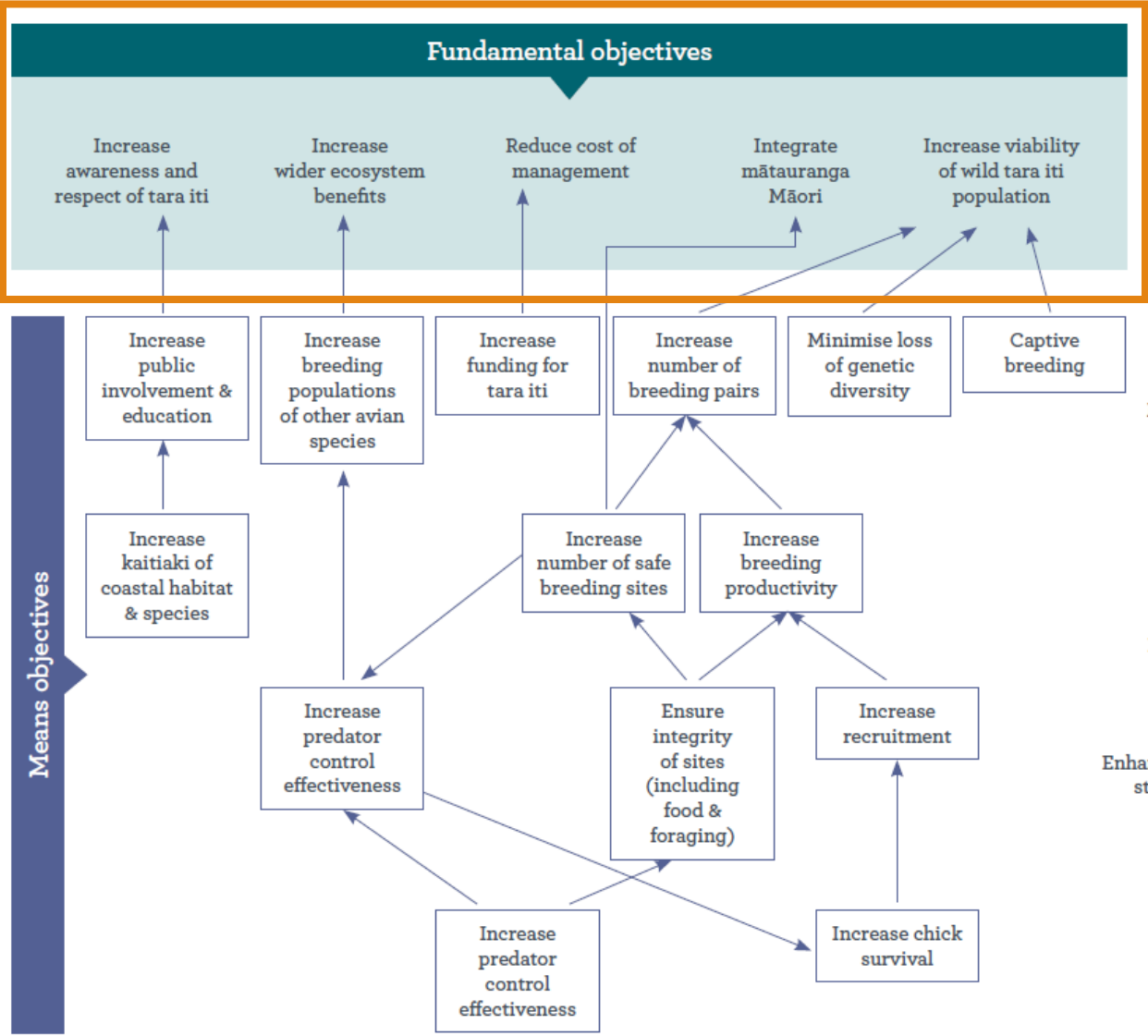
Ewen et al. 2018 DOC

Objetivos



- Completo
- Sin ambigüedades
- Conciso
- Comprensible
- Directo
- Operativo

McMurdo Hamilton et al. 2022 *DOC*



Alternativas

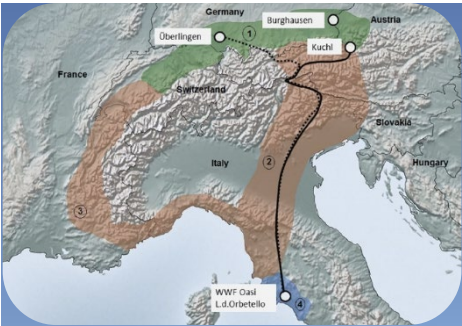
Desafiar limitaciones

Centrar en objetivos

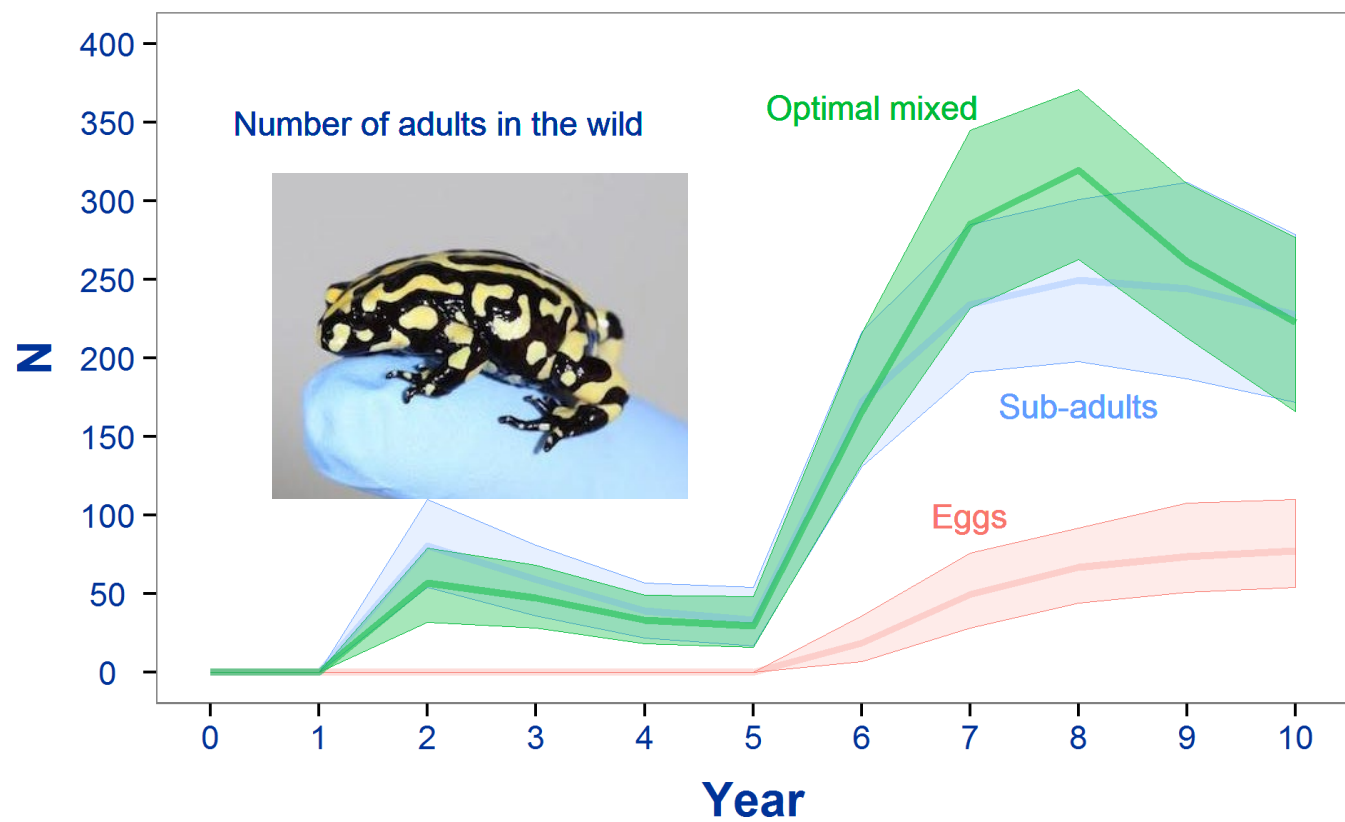
Ser específico y coherente

Evaluar todo el rango de opciones

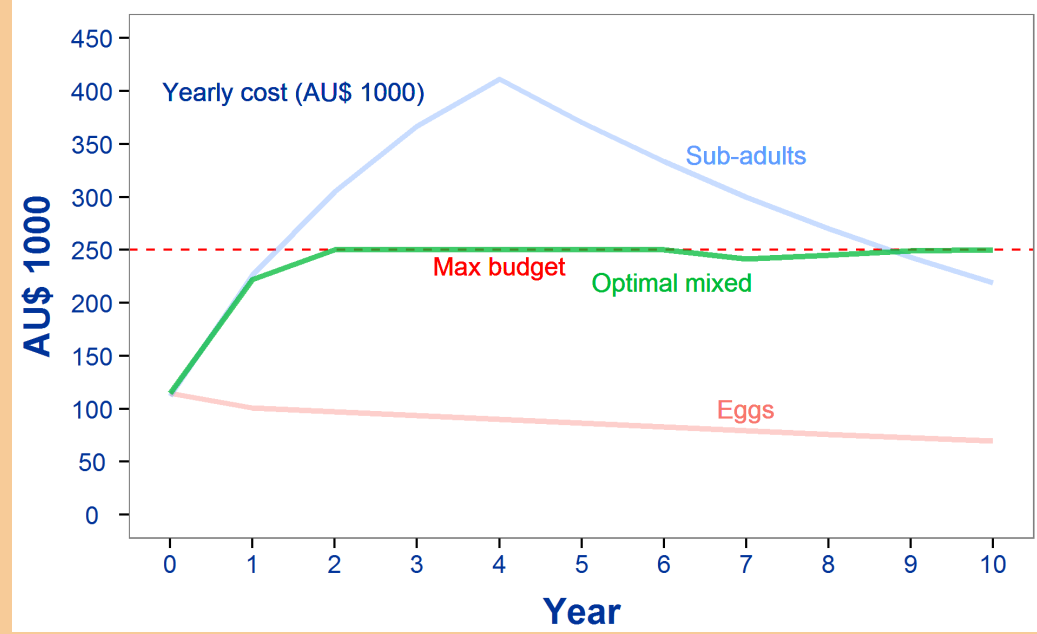
Enfoque operativo



Compromisos



Canessa et al. 2014 *JAE*



Incertidumbre

IN-SITU MANAGEMENT

- Intensive post-release management
- Threat management (incl. habitat management)



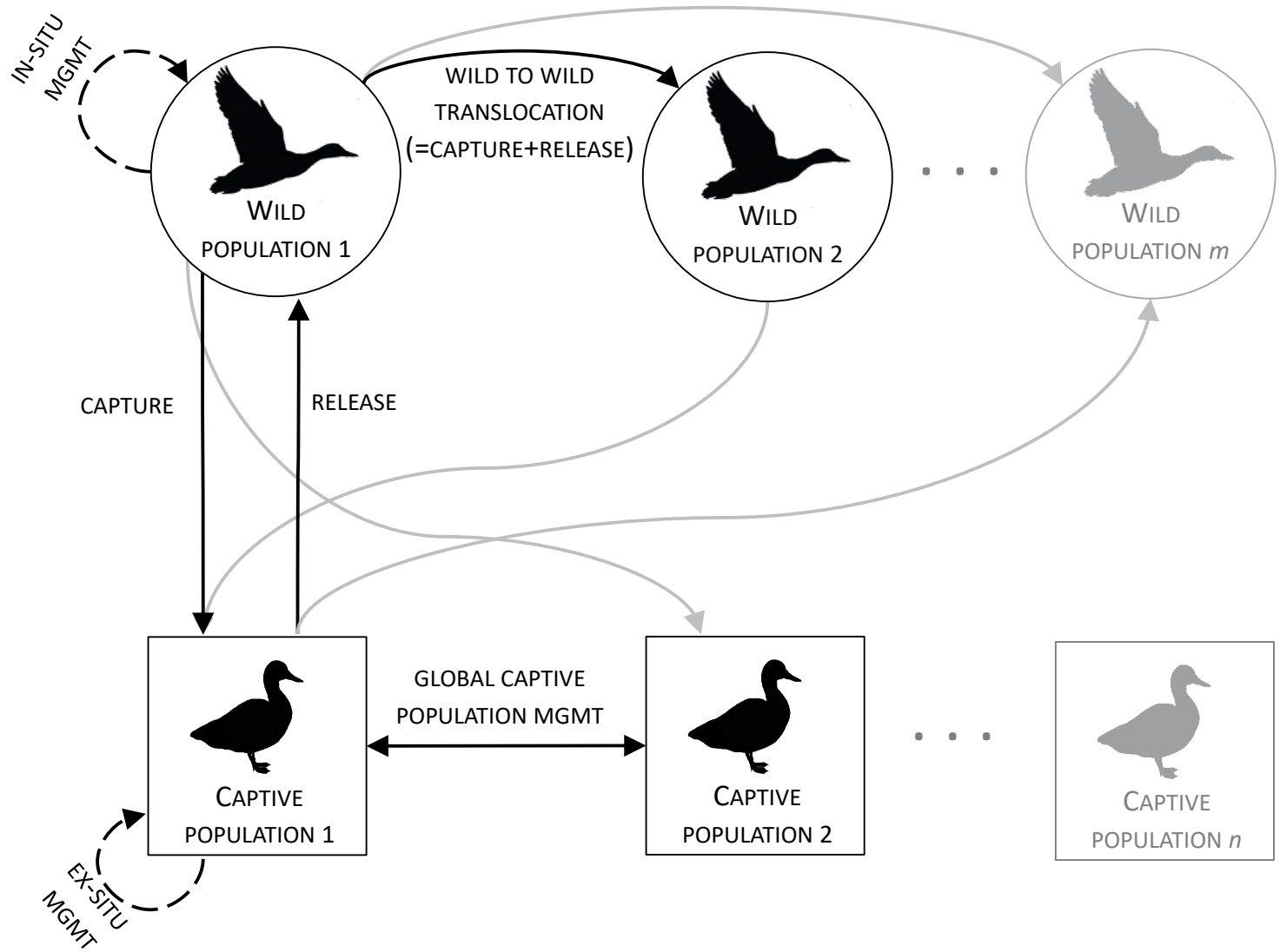
EX-SITU MANAGEMENT

- Acclimation
- Husbandry (health+breed)
- Pre-release



GLOBAL CAPTIVE POPULATION MANAGEMENT

- Choice of individuals to move
- Choice of source and destination populations



RELEASE

- Traits of released individuals (genetics, health, age)
- Release site
- Size of release cohort
- Timing of releases
- Method of release



CAPTURE

- Traits of captured individuals (genetics, health, age)
- Source sites
- Number of captures
- Timing of captures
- Method of capture



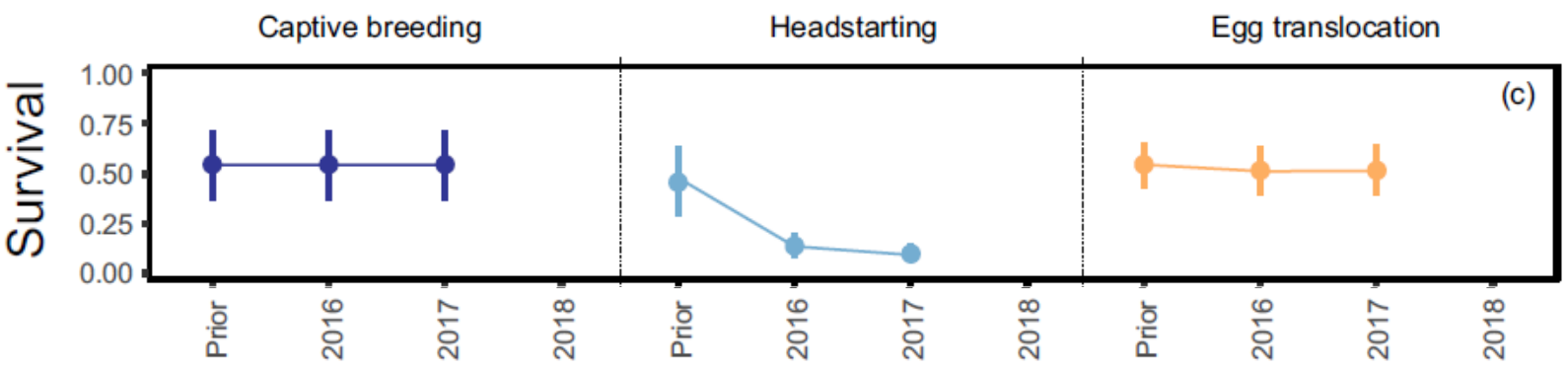
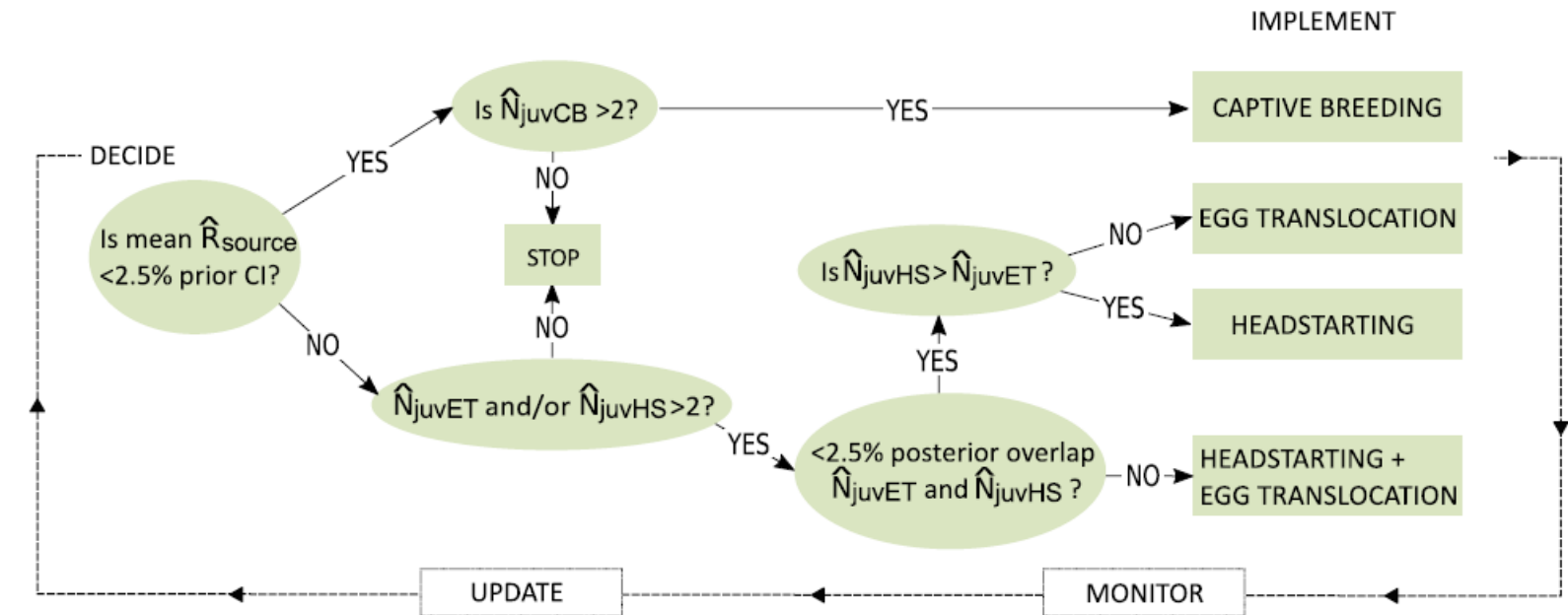
Riesgos



Riesgos para población fuente



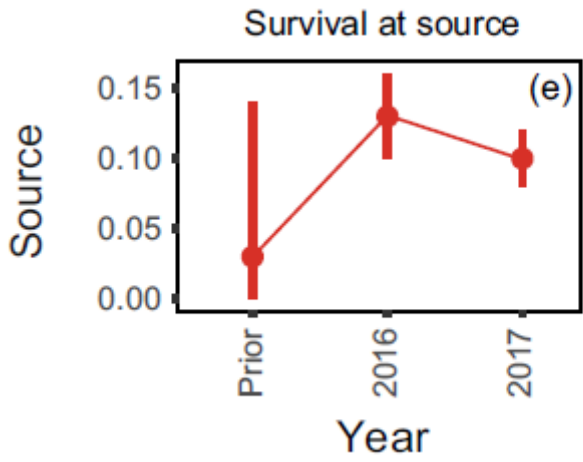
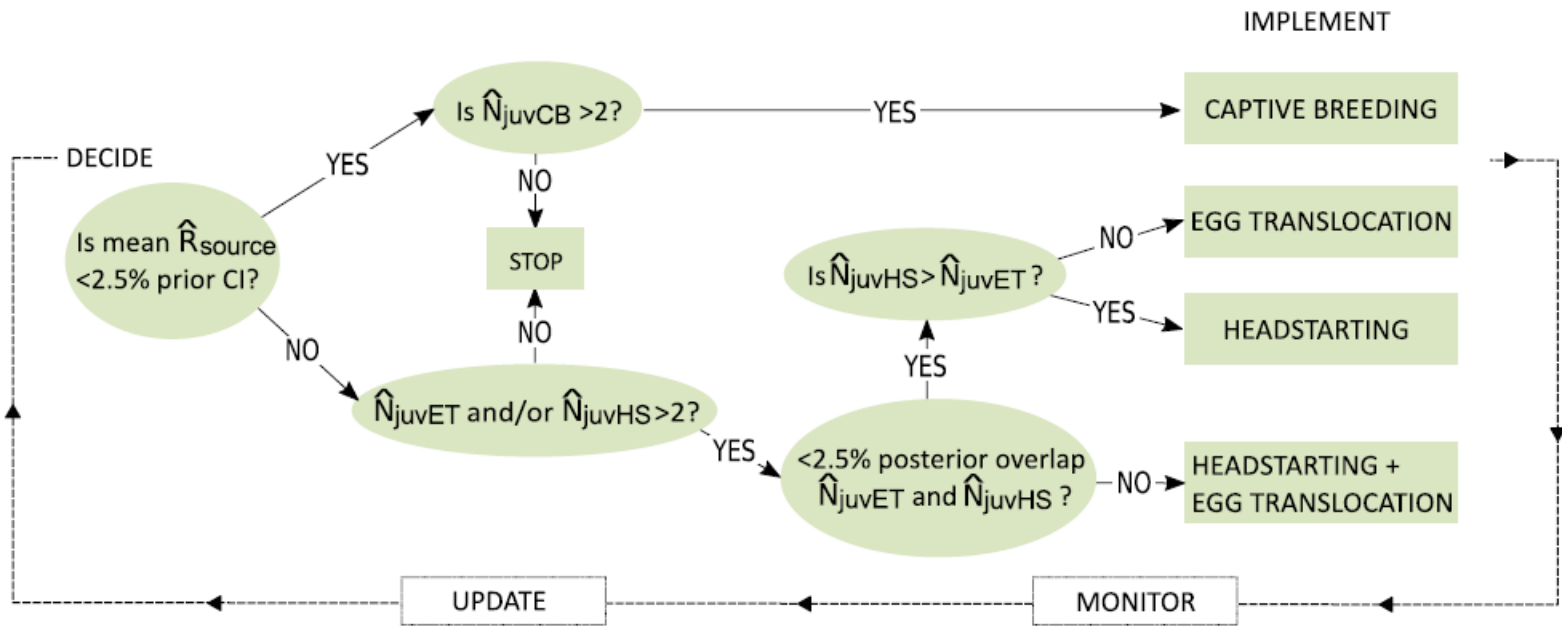
Canessa et al. 2019 *Biol. Cons.*



Riesgos para población fuente



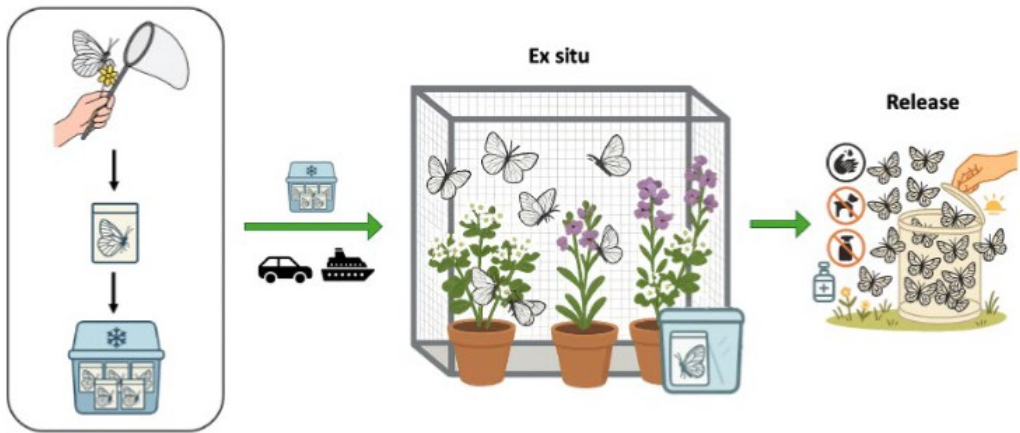
Canessa et al. 2019 *Biol. Cons.*



Riesgos de enfermedades

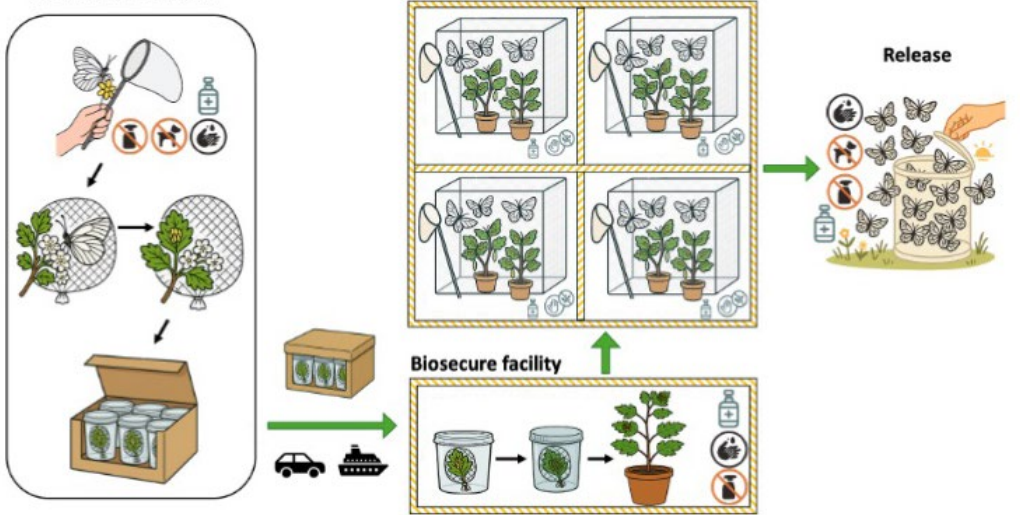
SOURCE: EUROPE

DESTINATION: ENGLAND



SOURCE: EUROPE

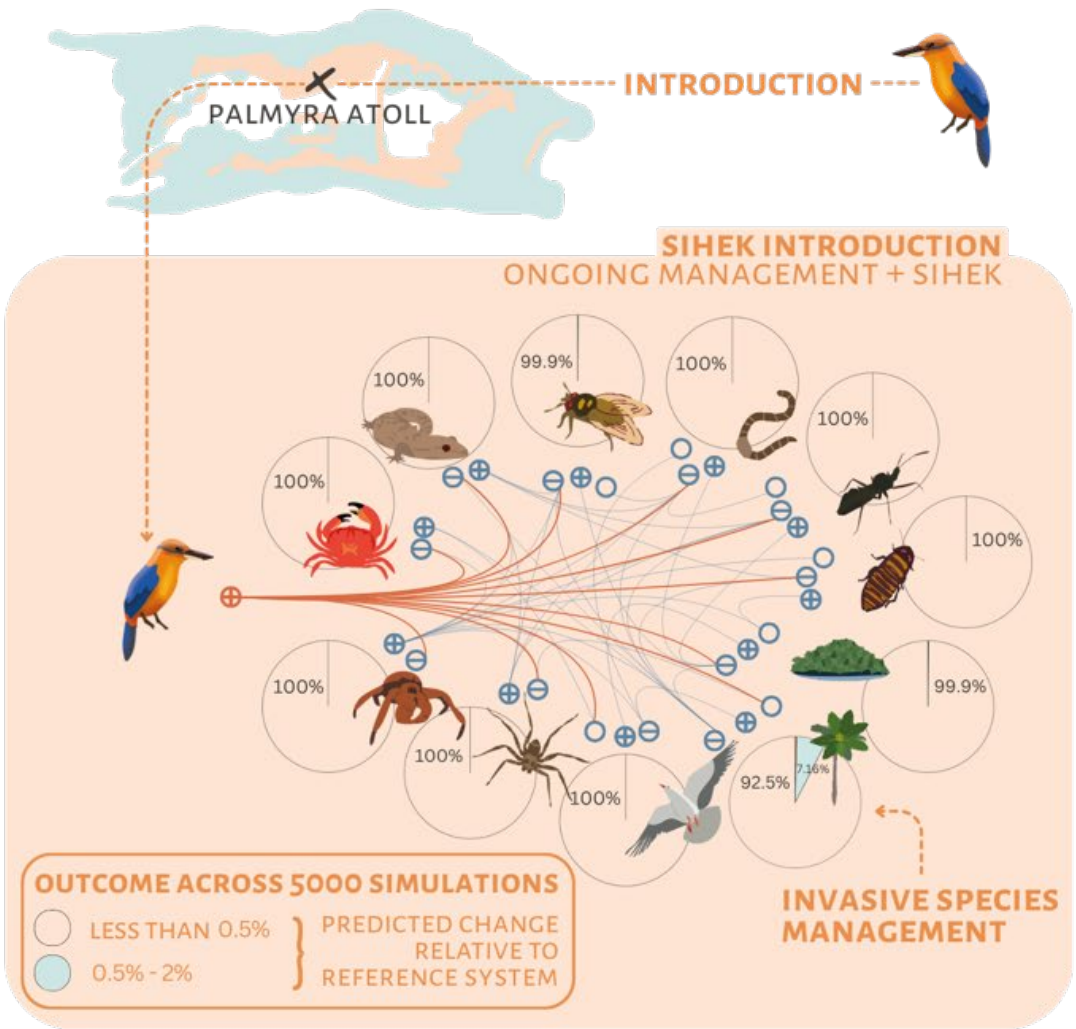
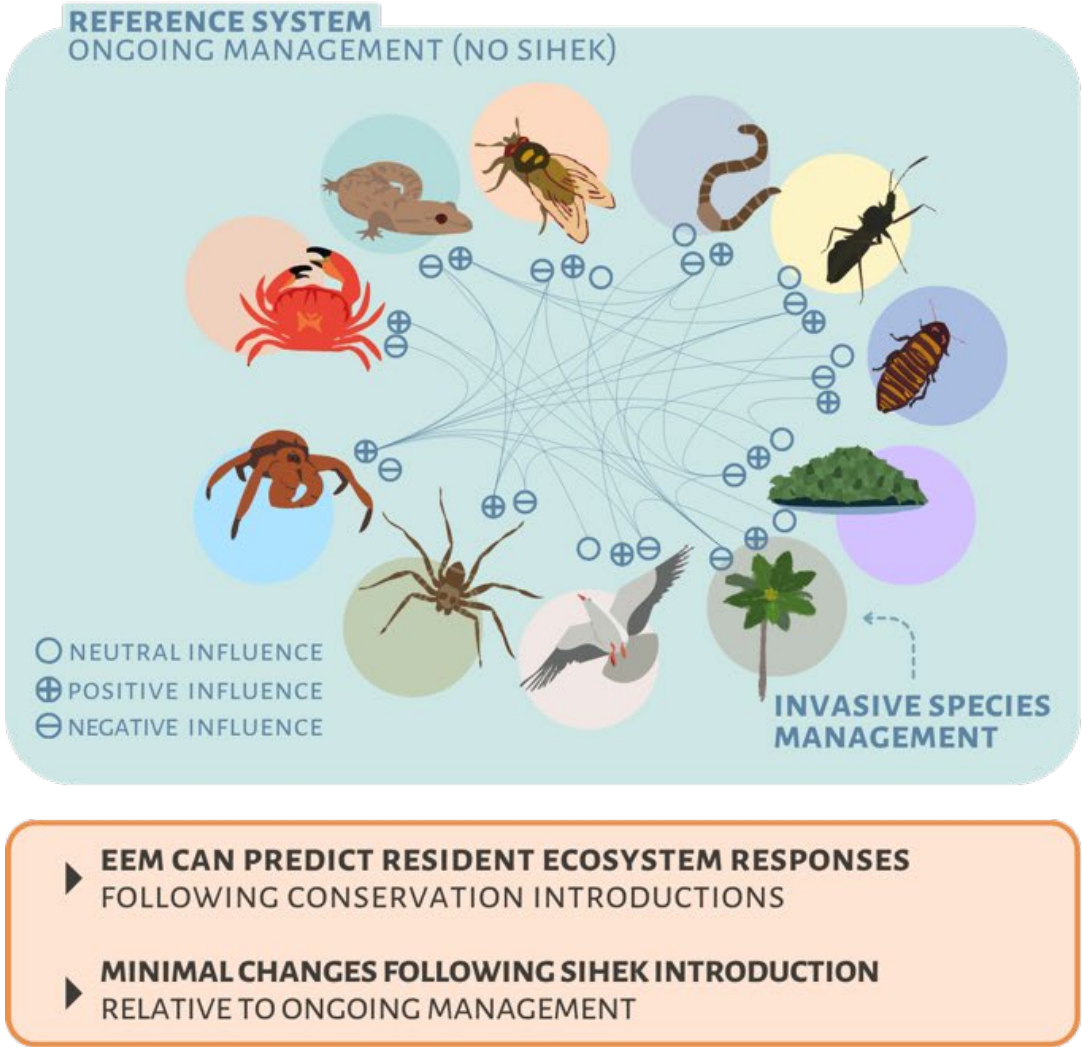
DESTINATION: ENGLAND



JM Moreno-Benítez

C. Carraro, *pers. comm.*

Riesgos de impactos ambientales



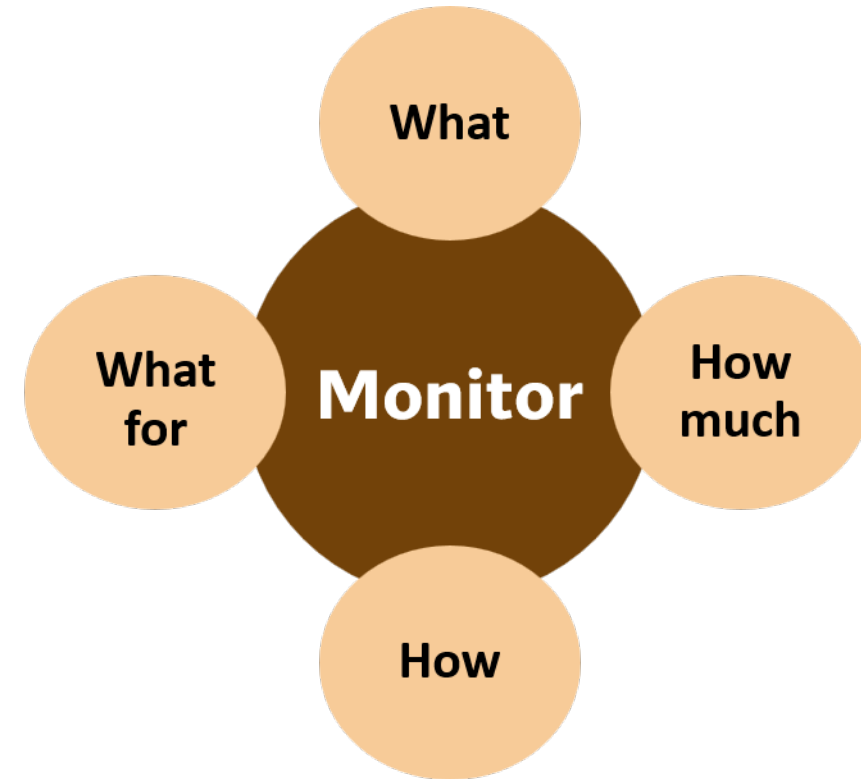
Seguimiento: objetivos

Comprender el estado del sistema

Evaluar la eficacia de las acciones

Reducir las incertidumbres críticas

Lyons et al. 2008 *J. Wild. Mgt.*



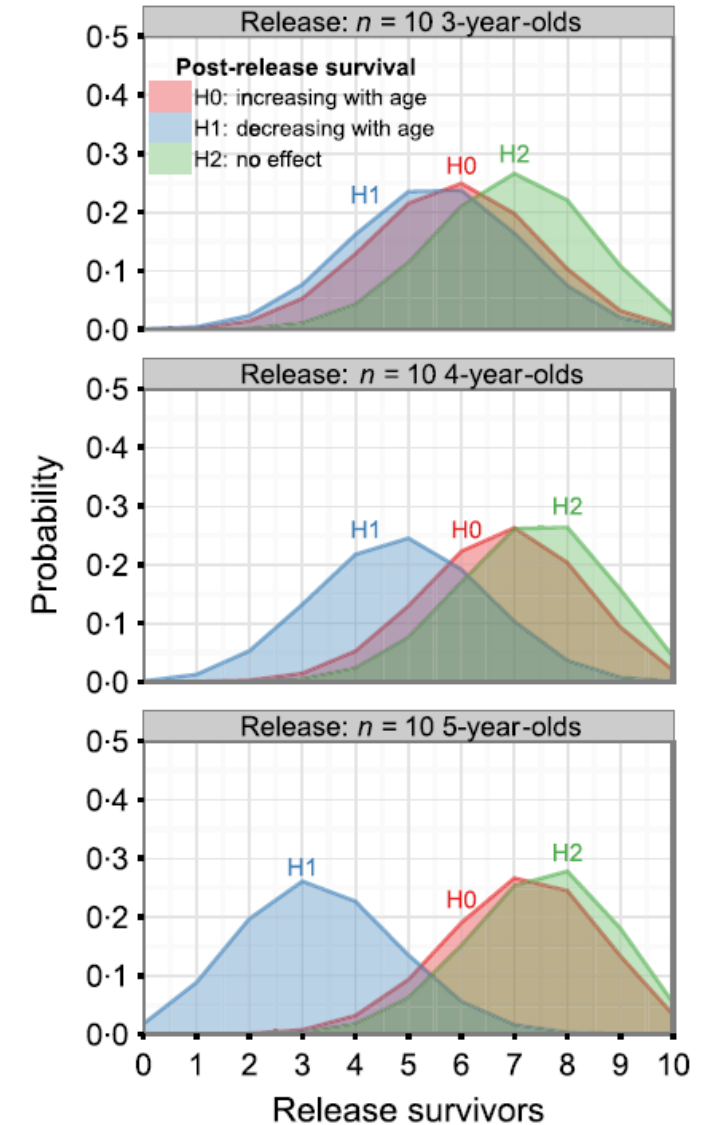
Seguimiento: gestión adaptativa

¿Qué necesitamos saber?

¿Qué sabemos ya?

¿Qué podemos aprender?

¿Cómo podemos adaptarnos?



Canessa et al. 2015 *MEE*

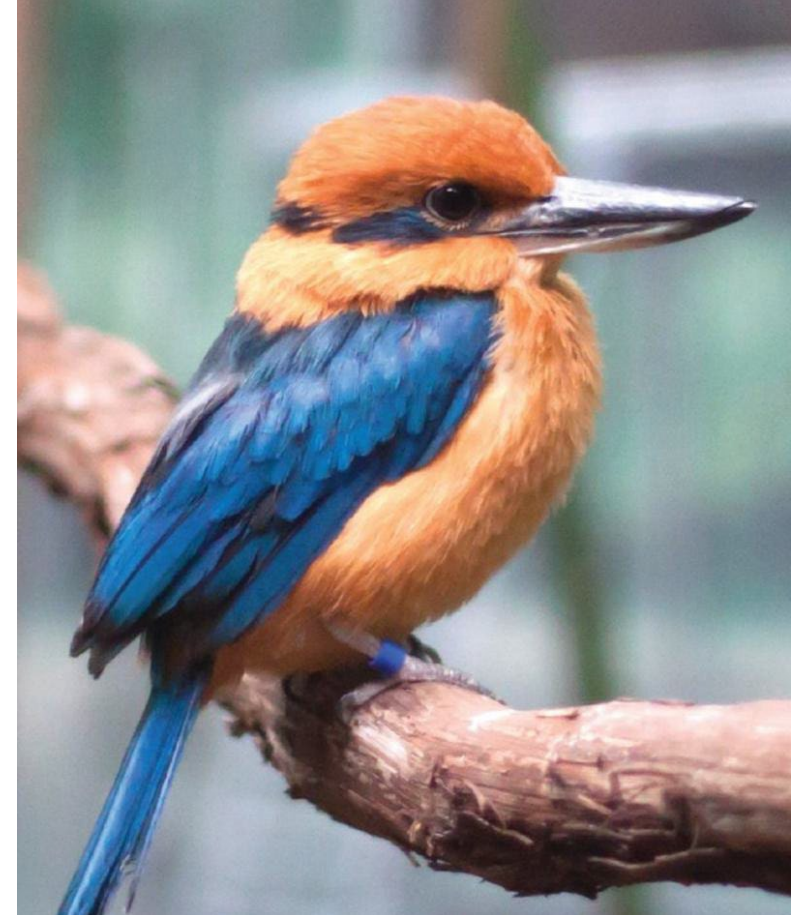
Conclusiones

Una herramienta de conservación cada vez mas aplicada

Siempre parte de un conjunto más amplio y complejo de acciones

Enfoque en conservación pero con una amplia gama de objetivos

Incertidumbre omnipresente e influyente



Conclusiones

La planificación compleja requiere muchas habilidades diferentes

Evaluar el contexto, valorar la viabilidad y el riesgo

Seguimiento, evaluación y gestión adaptativa

Buscar el éxito, pero aceptar el fracaso y el azar



Muchas gracias por su atención

LIFE Connect Ricotí Final Congress

Stefano Canessa

Università degli Studi di Milano

IUCN/SSC Conservation Translocation Specialist Group