

**Conservation de la biodiversité
terrestre en Polynésie française :**



**statut, enjeux, menaces et
apports de la recherche**



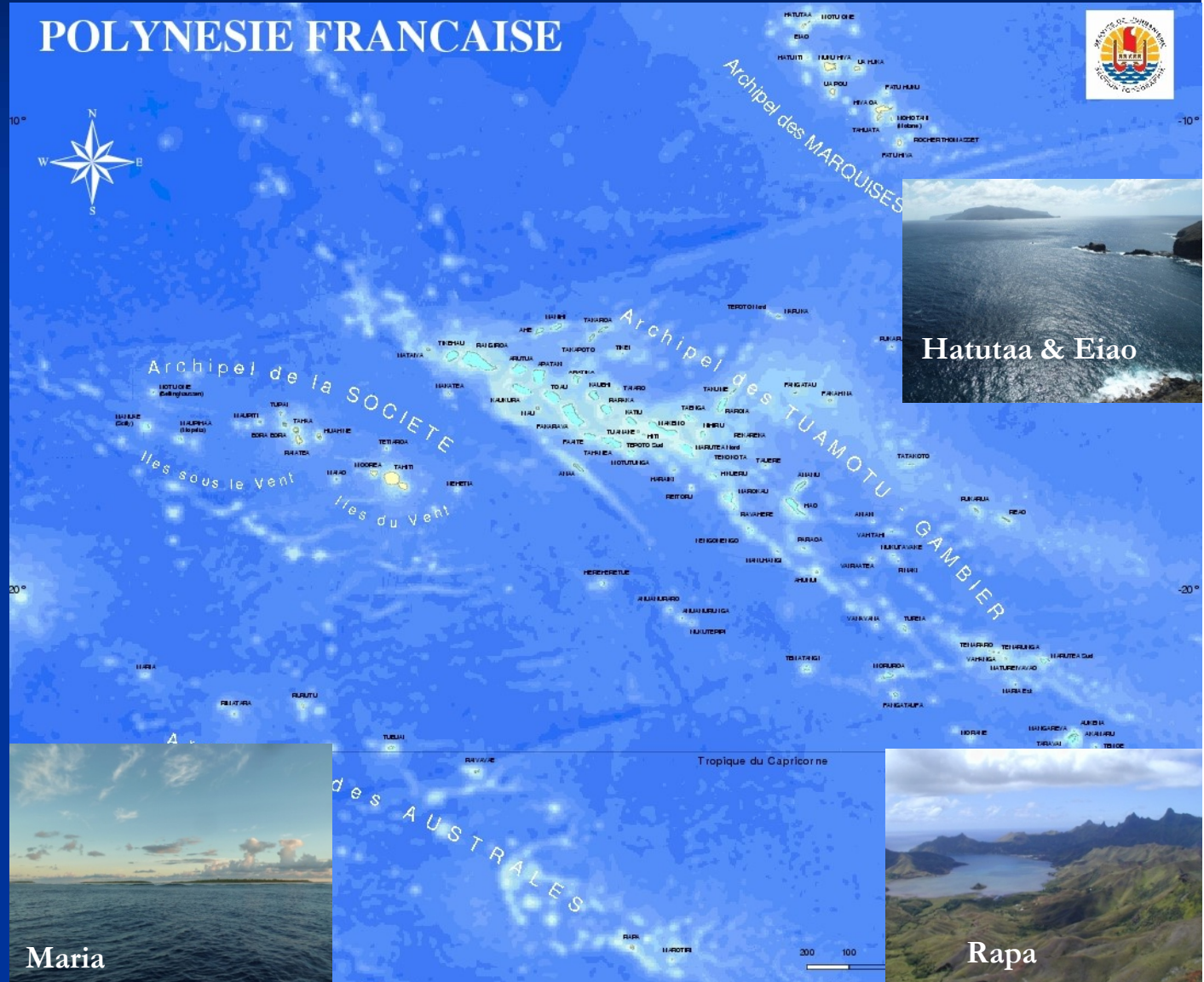
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Isolement

POLYNESIE FRANCAISE



La Polynésie Française dans le Pacifique



Hatutaa & Eiao



Maria



Rapa

Diversité

- ❑ 120+ îles océaniques
- ❑ 3500 km²
- ❑ 30 000 ans à 60 MA
- ❑ climat tropical et subtropical
- ❑ 34 îles hautes, presque'atolls, îles « composites »
- ❑ 83 atolls dont 6 soulevés



Makatea (Tuamotu)



Mehetia (Société)



Etage subalpin, Mt Orohena, Tahiti



Ua Pou (Marquises)



Roto Rahi & Roto Iti, Maiao (Société)



Forêt sèches, Pariati, Rapa (Australes)



Forêts de nuage, Mt Aorai, Tahiti

Endémisme

- ❖ **> 3000 arthropodes** (dont 1570 endémiques)
- ❖ **> 900 plantes vasculaires** (570 endémiques)
- ❖ **> 525 mollusques** (95% endémisme)
- ❖ **37 poissons d'eau douce** (15 endémiques)
- ❖ **36 oiseaux terrestres** (27 endémiques)
- ❖ **9 reptiles** (geckos & scinques)



Rhyncogonus planatus (Ua Huka)



Nacaduba tabitiensis (Tahiti)



Lentipes rubrofasciatus
(Marquises) Photo : P. Keith



Microcystis sp. (Australes)
Photo : O. Gargominy



Sclerotheca (Apetahia) raiateensis (Raiatea)



Ducula galeata (Nuku Hiva)



Vini kuhlii (Rimatara)

Pressions

- ❑ Population (x 2 en 30 ans)
- ❑ Urbanisation
- ❑ Déforestation et feux
- ❑ Pollutions
- ❑ Sur-exploitation



Invasions

- Impacts écologiques
- Impacts économiques
- Impacts sanitaires
- Impacts socio-culturels



Photo : P. Palmas

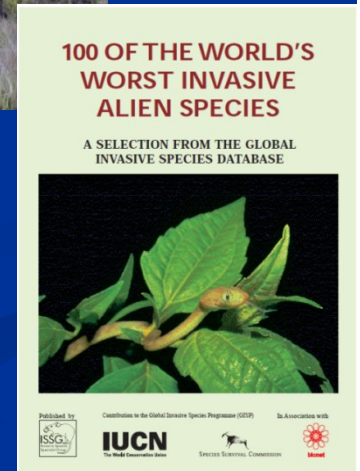


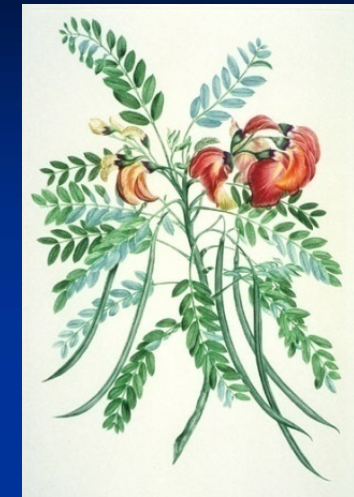
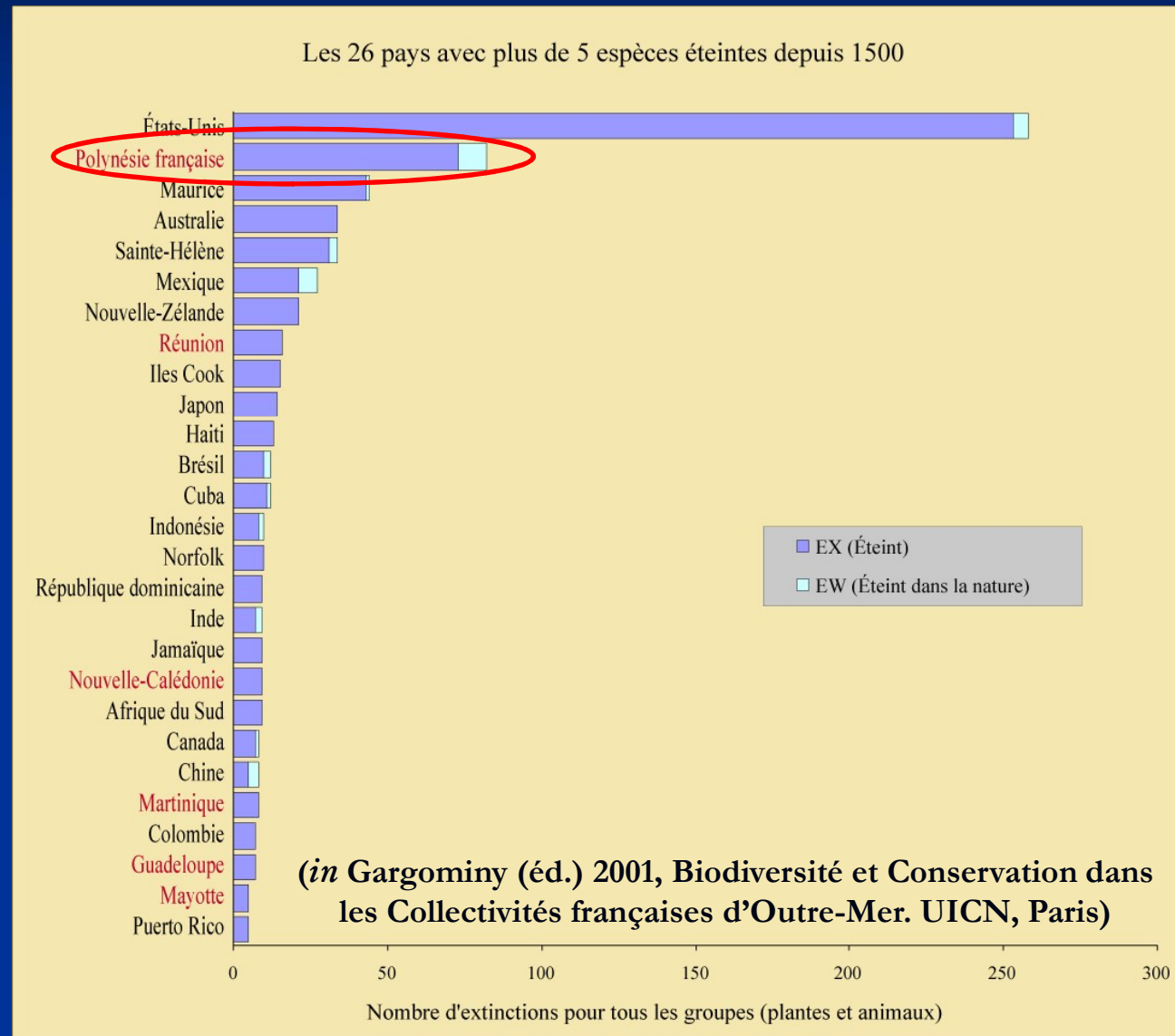
Photo : H. Jourdan



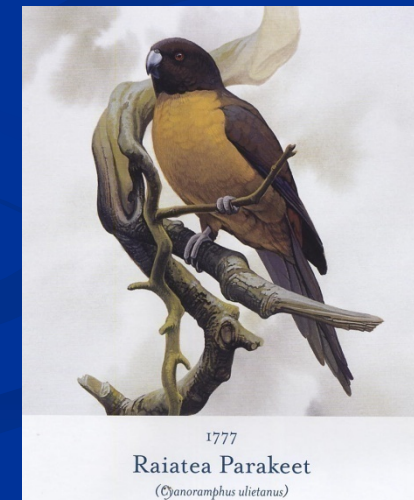
Impacts sur les écosystèmes



Extinctions



Sesbania coccinea subsp.
atollensis var. *parkinsonii*
(Sydney Parkinson, 1773)



1777
Raiatea Parakeet
(*Cyanoramphus ulietanus*)
Cyanoramphus ulietanus

Vulnérabilité

- ❖ Oiseaux : 11 CR, 17 EN, 13 VU
- ❖ Plantes : 118 CR, 134 EN, 50 VU

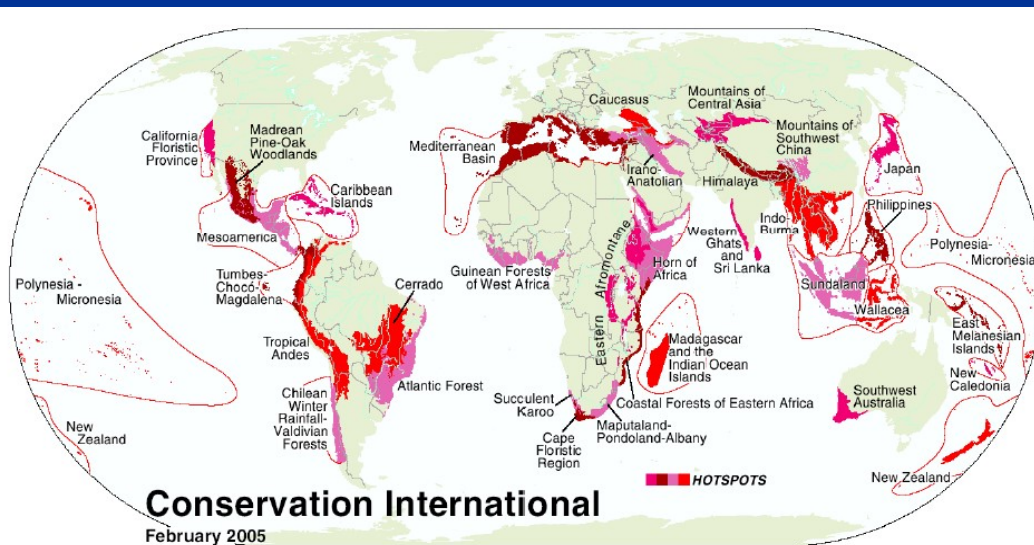
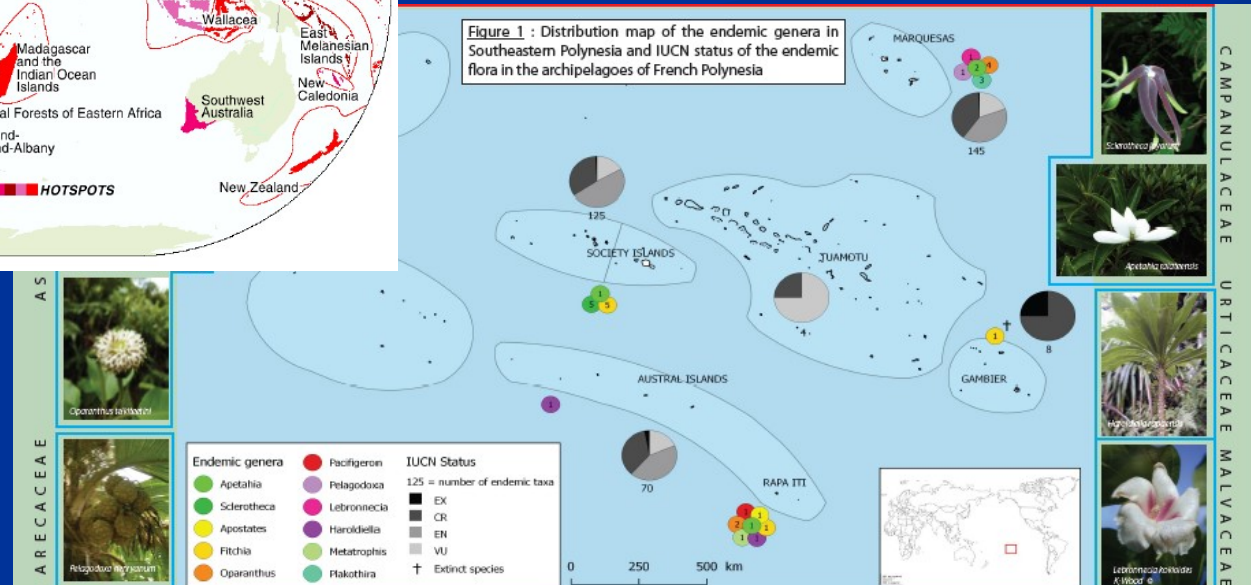


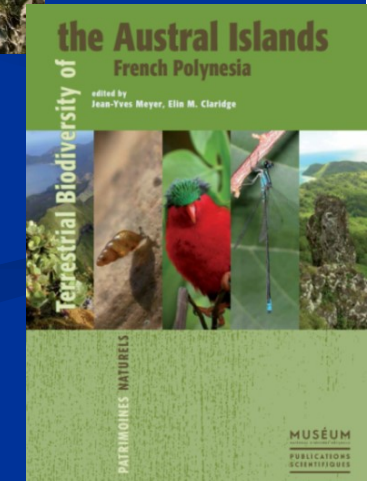
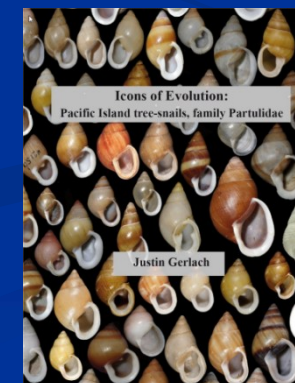
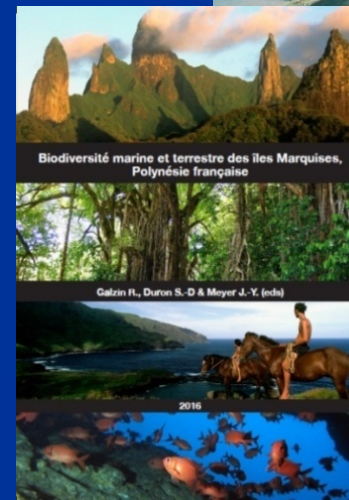
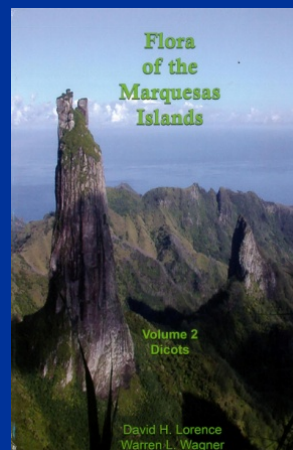
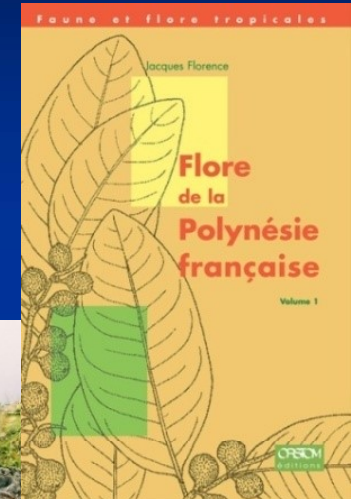
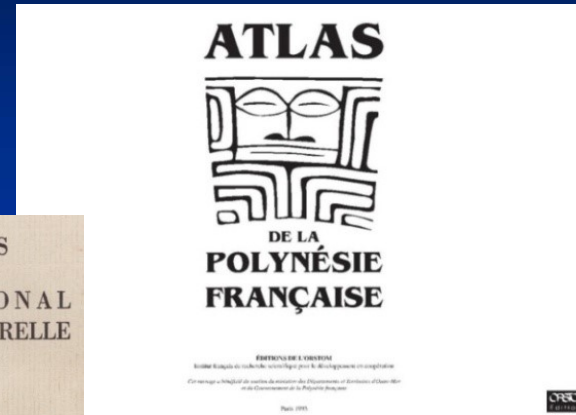
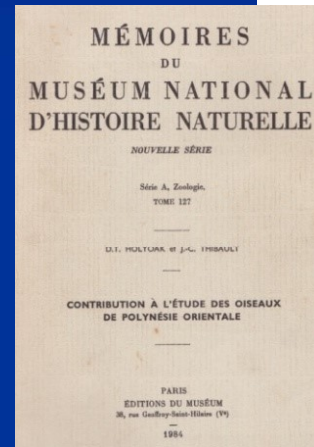
Figure 1 : Distribution map of the endemic genera in Southeastern Polynesia and IUCN status of the endemic flora in the archipelagos of French Polynesia



Apports de la recherche (I)

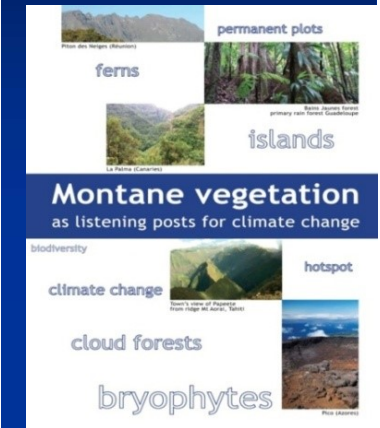
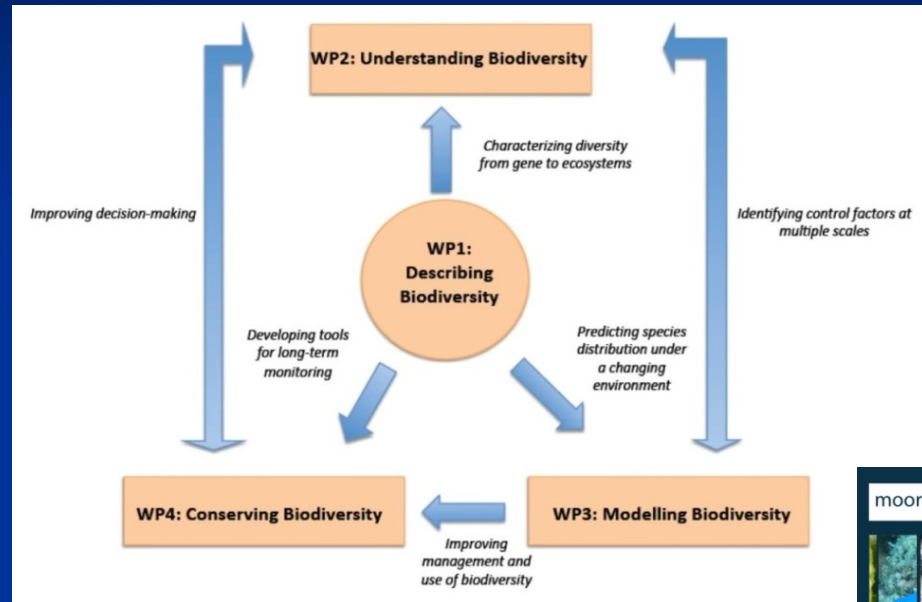
- ✓ Acquisition des connaissances
- ✓ Validation
- ✓ Diffusion

- Publications
- Bases de données
- Formations



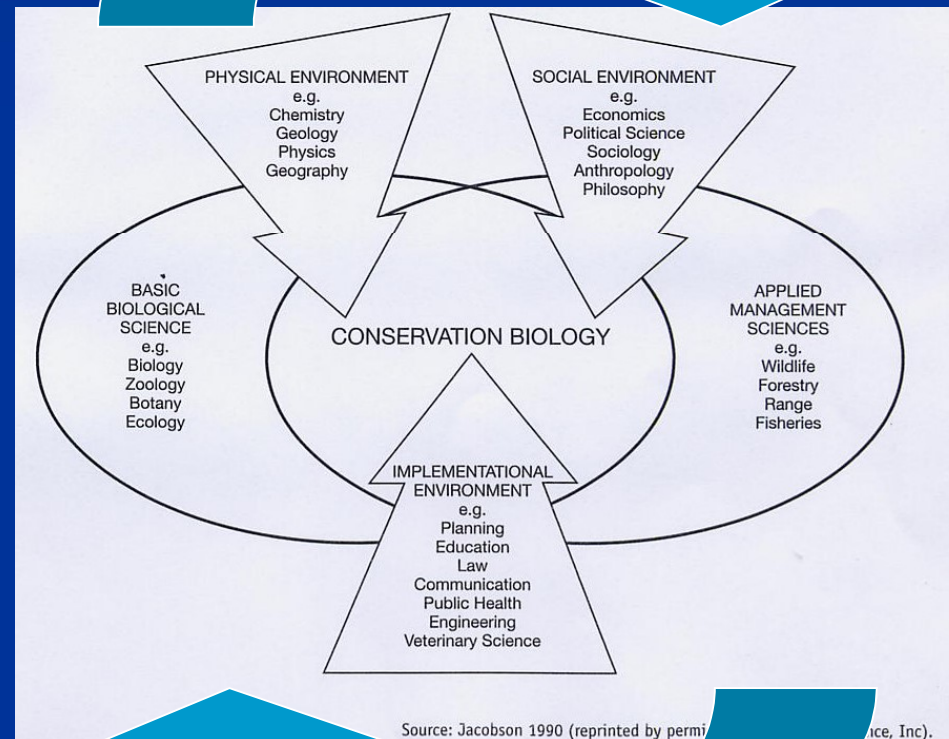
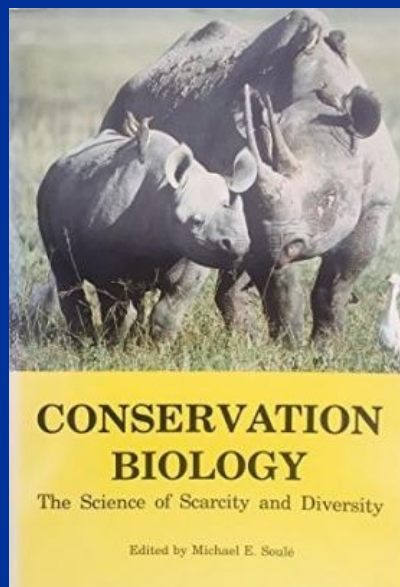
Apports de la Recherche (II)

- ✓ Protocoles expérimentaux
- ✓ Indicateurs de suivi
- ✓ Modélisations

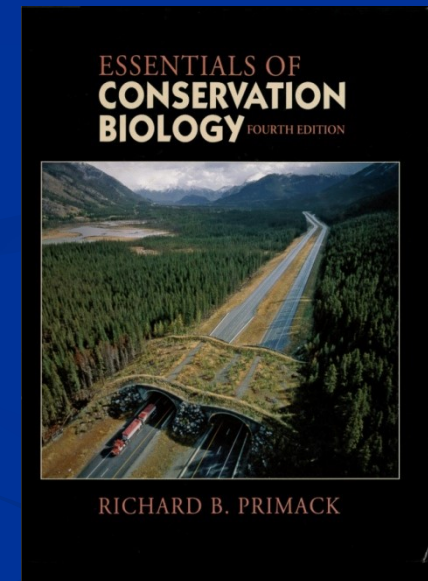


Biologie de la conservation

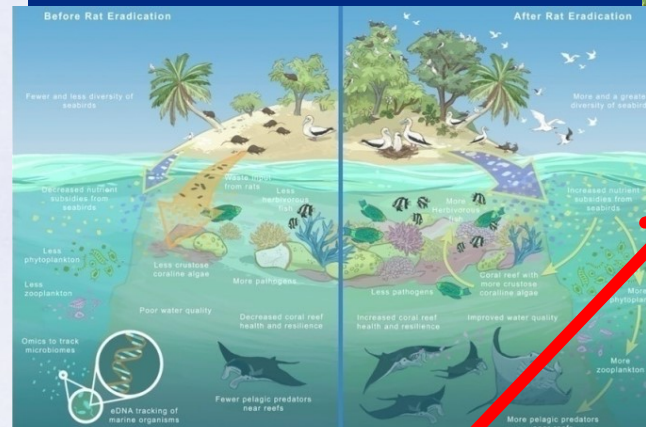
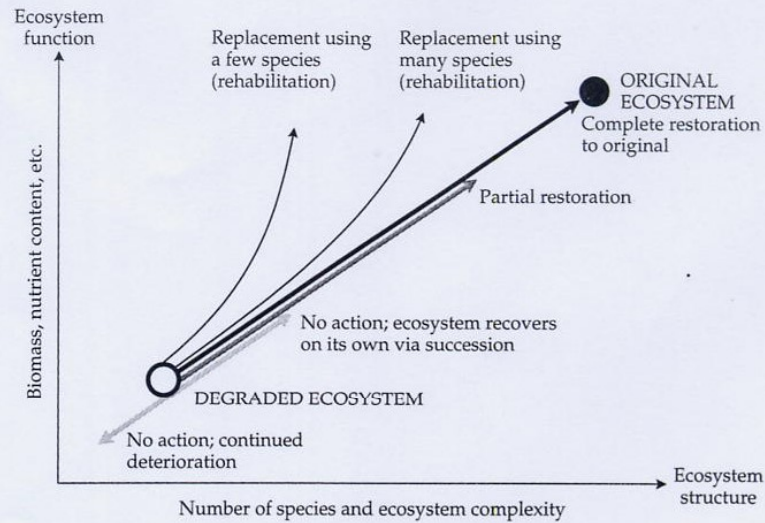
New ideas, principles and approaches



Field experiments and research needs



Ecologie de la restauration



(VEGA-THURBER *et al.*)



Pisonia grandis forest



Rat-free Motu 'A'ie, Tetiaroa



Pandanus tectorius forest in rat-free atoll of Morane (Tuamotu-Gambier)



Rattus exulans

« Recherche-Action »

- Evolution, endemism
- Extinction process, rarity
- Biotic interactions
- Ecological networks
- Ecosystem dynamics
- Adaptation and resilience



- ❖ Protected areas & species
- ❖ Invasive species control & management
- ❖ Habitat restoration, rehabilitation
- ❖ Species re-introduction, translocation



SOCIO-ECOLOGICAL SYSTEMS
Nature-Human Interactions



Photo : P. Bacchet

Défis futurs

➤ Vers de nouvelles stratégies & modes de conservation dans des écosystèmes « hybrides » ou « nouveaux » ... et dans un contexte de changements globaux !

