

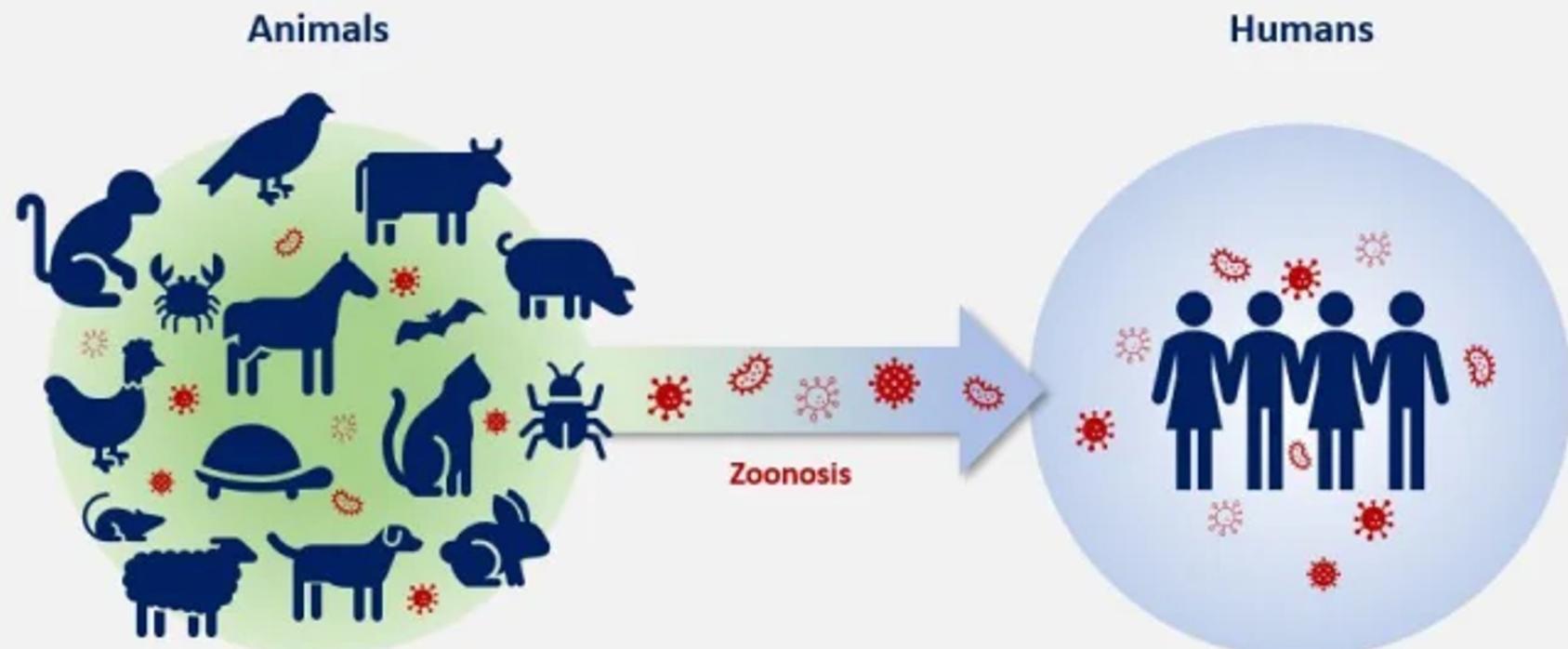


# Mouvements d'oiseaux marins et grippe aviaire en Nouvelle-Calédonie



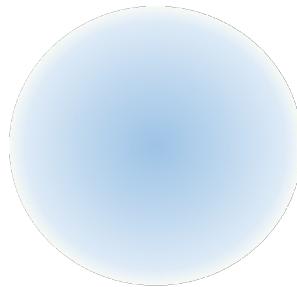
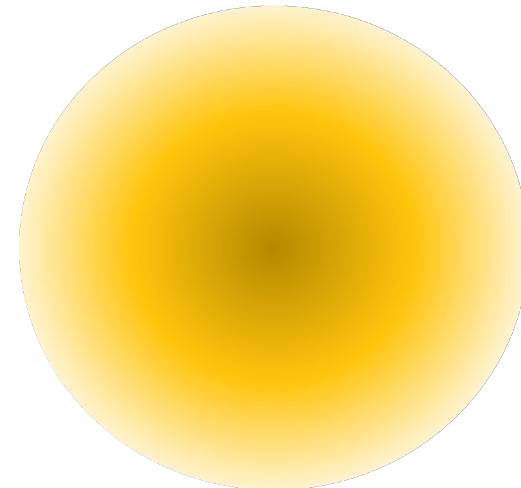
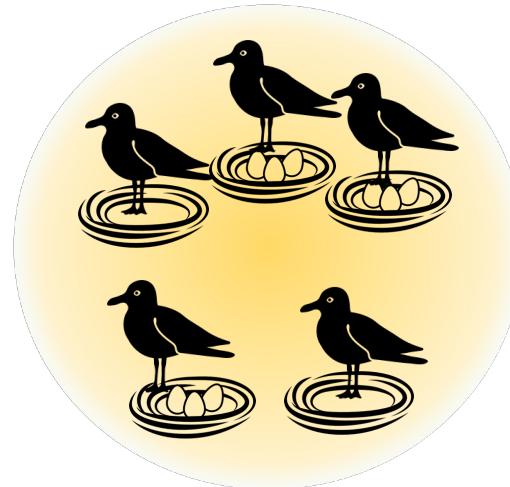
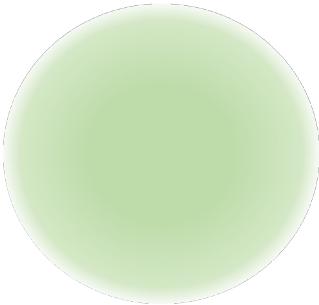
Dr. Aurore PONCHON  
Chargée de recherche

# Maladies infectieuses émergentes

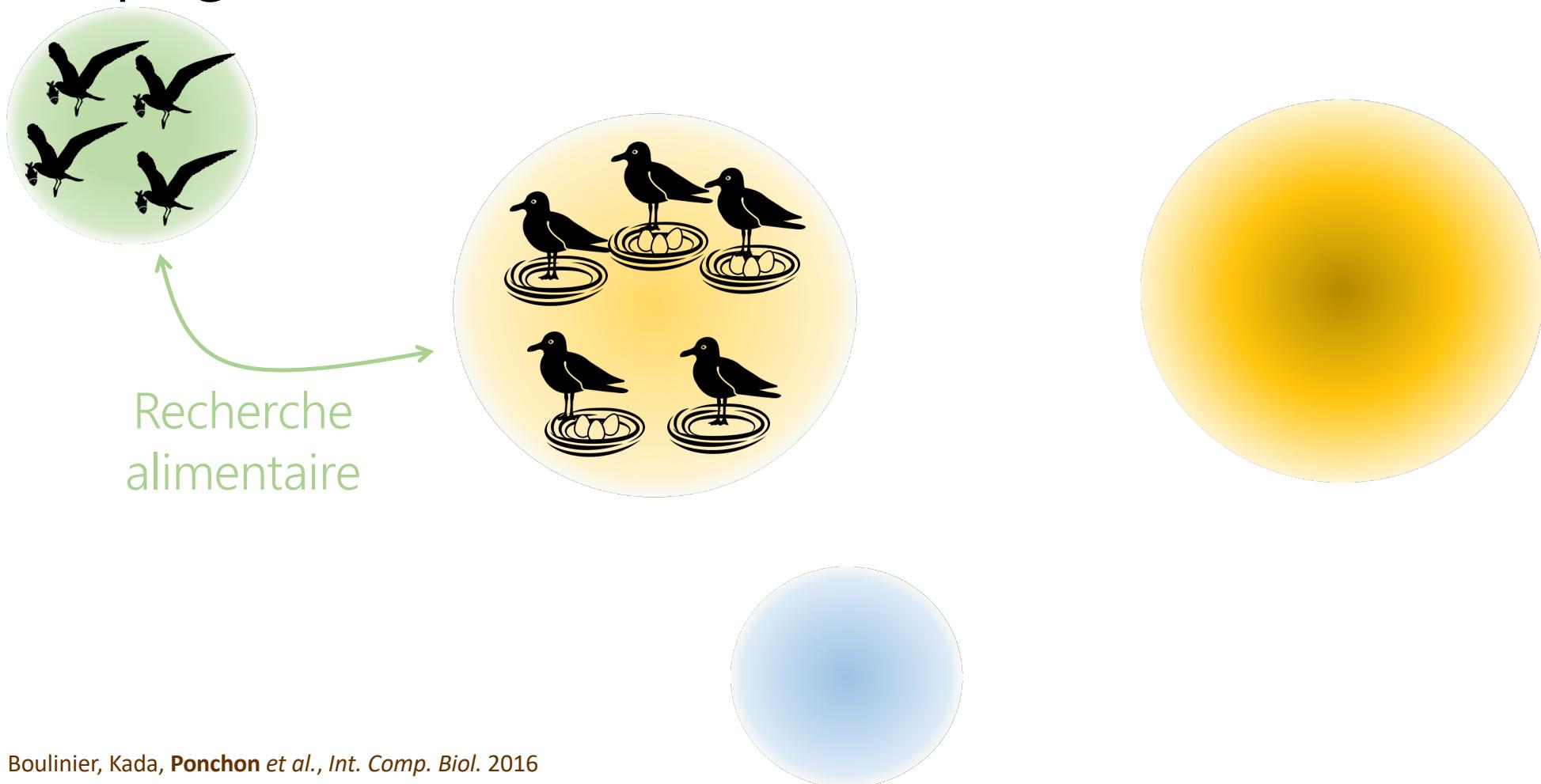


SICPA, 2022

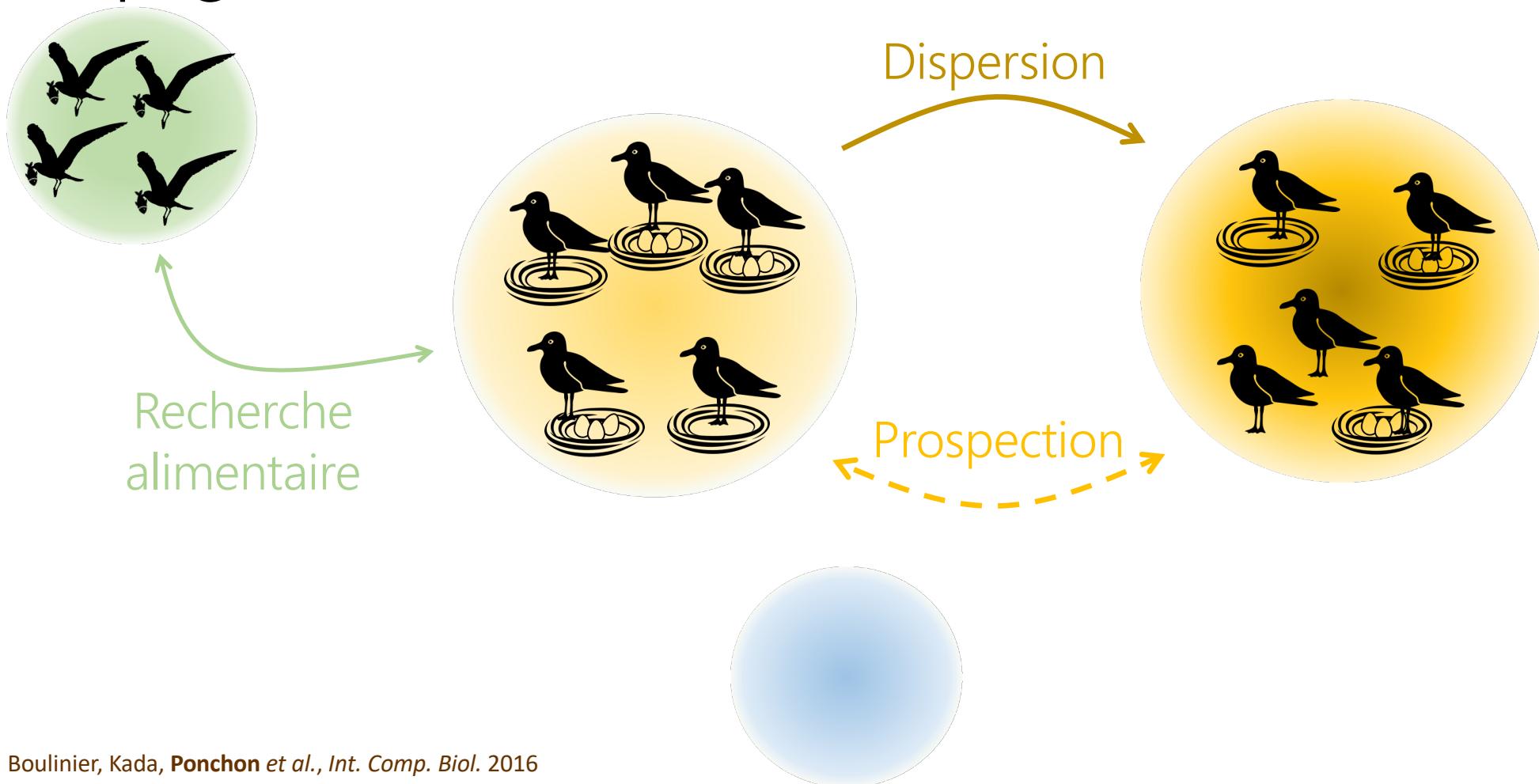
# Propagation des maladies infectieuses



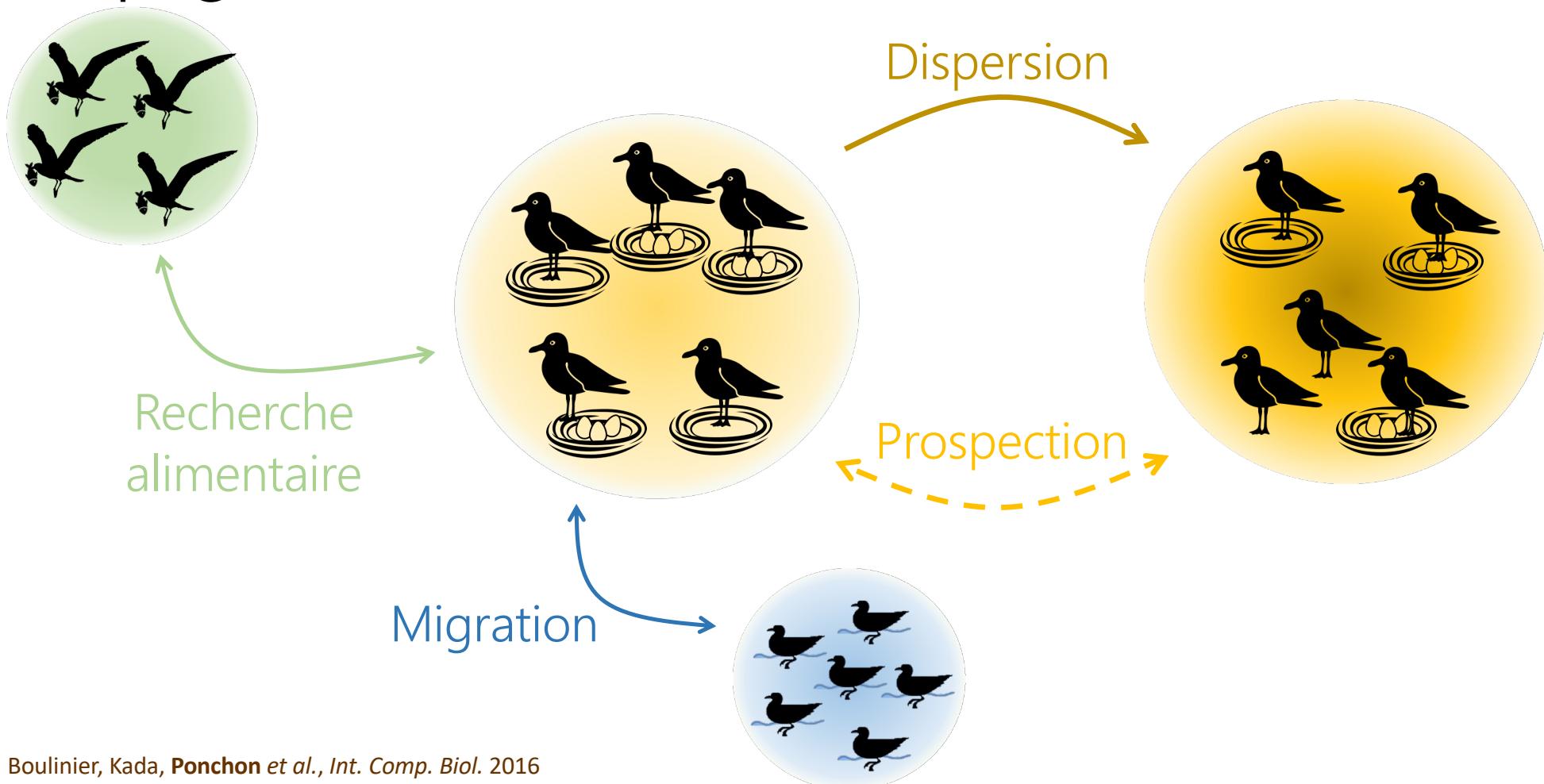
# Propagation des maladies infectieuses



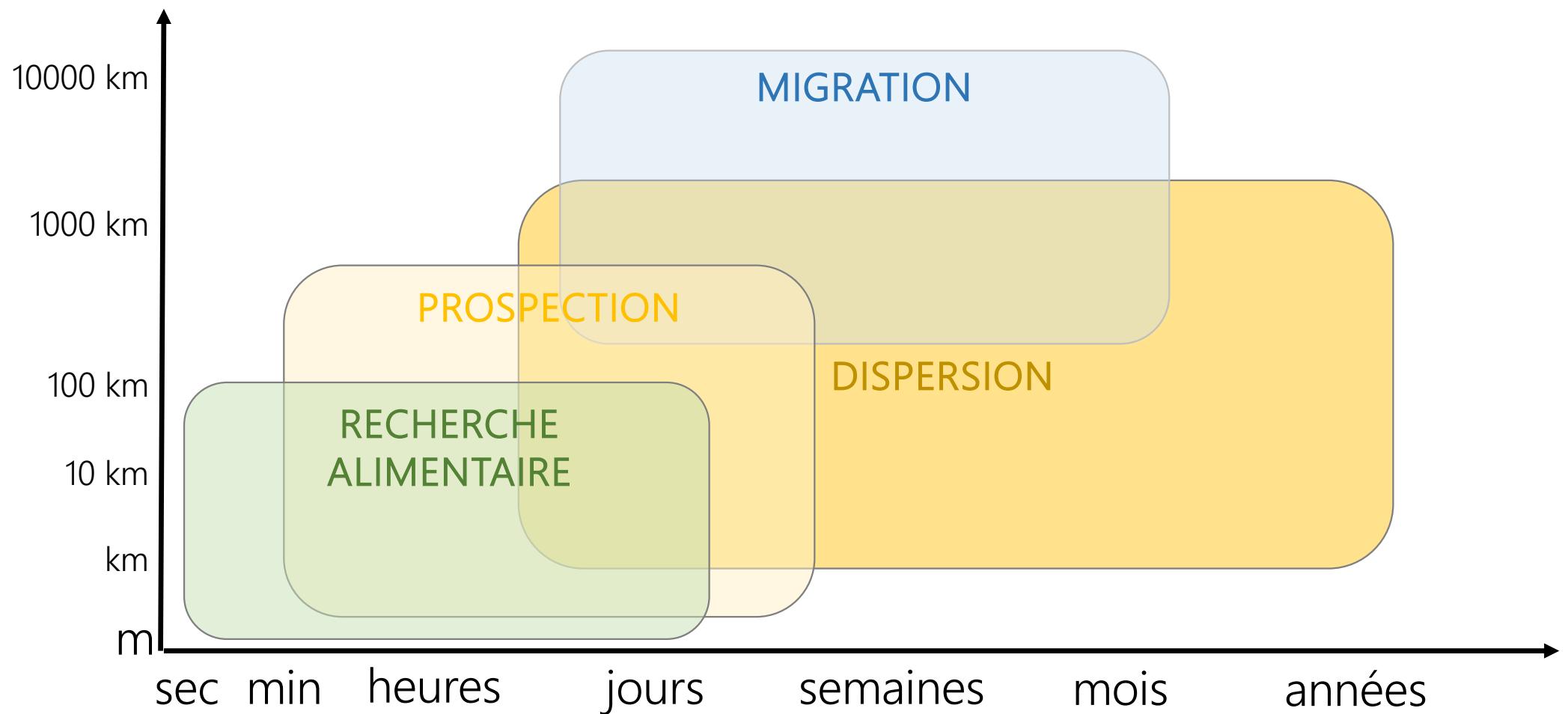
# Propagation des maladies infectieuses



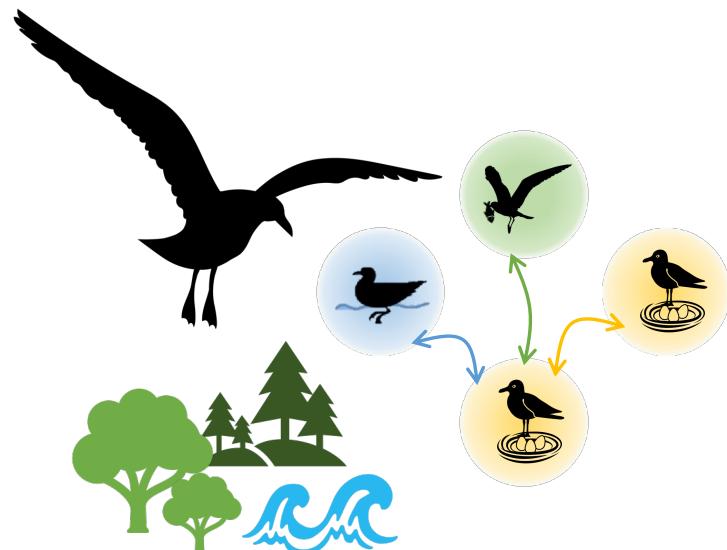
# Propagation des maladies infectieuses



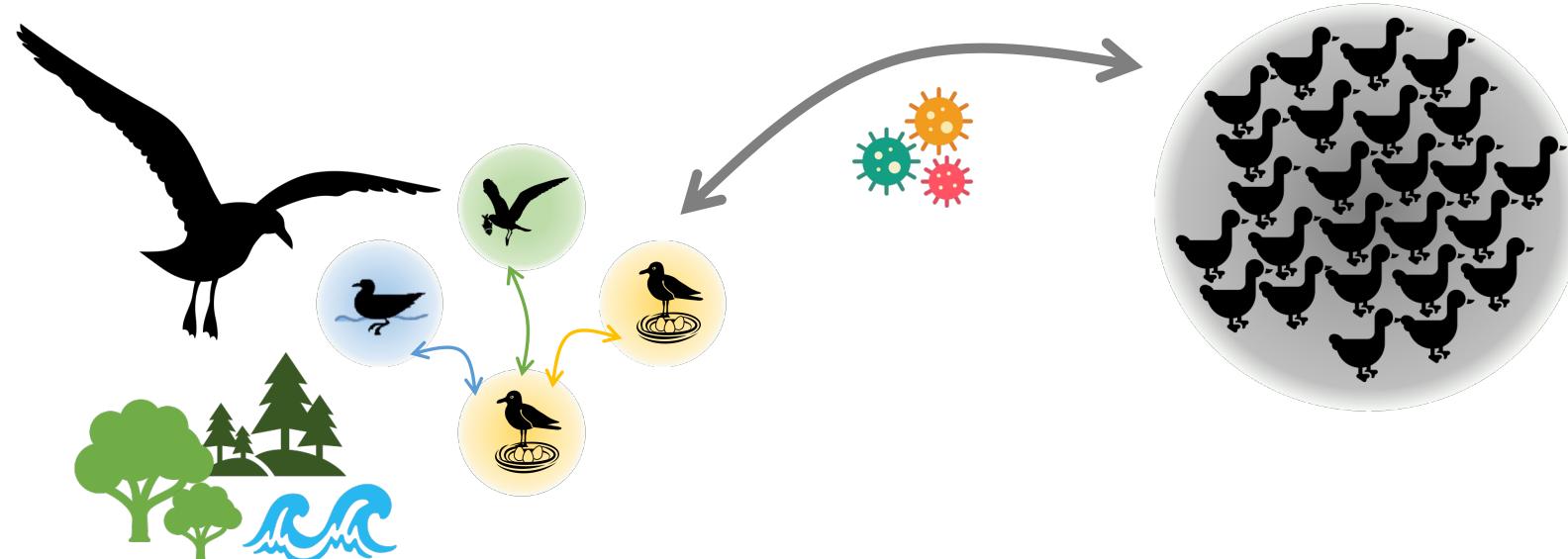
# Propagation des maladies infectieuses



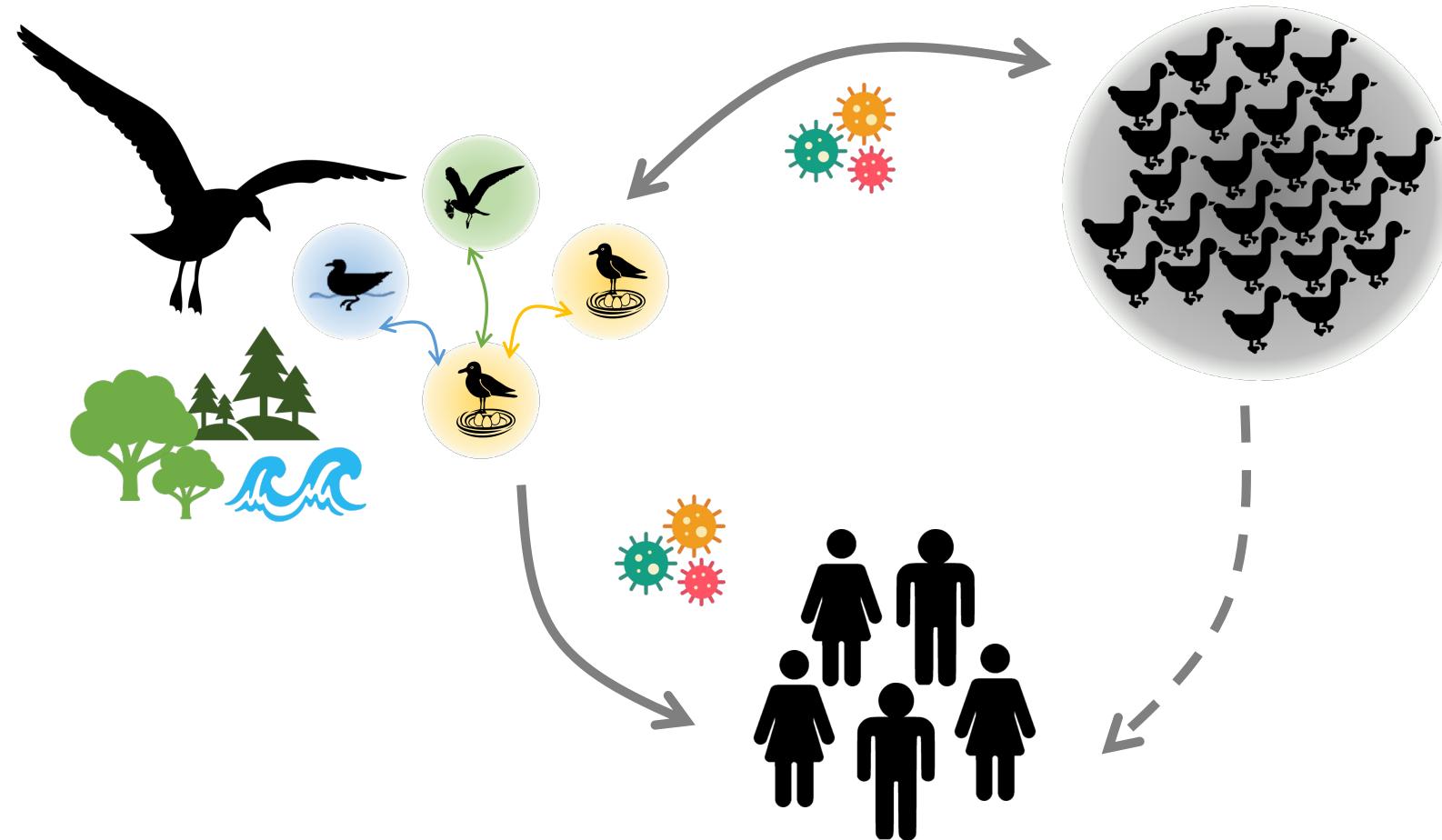
# Propagation des maladies infectieuses



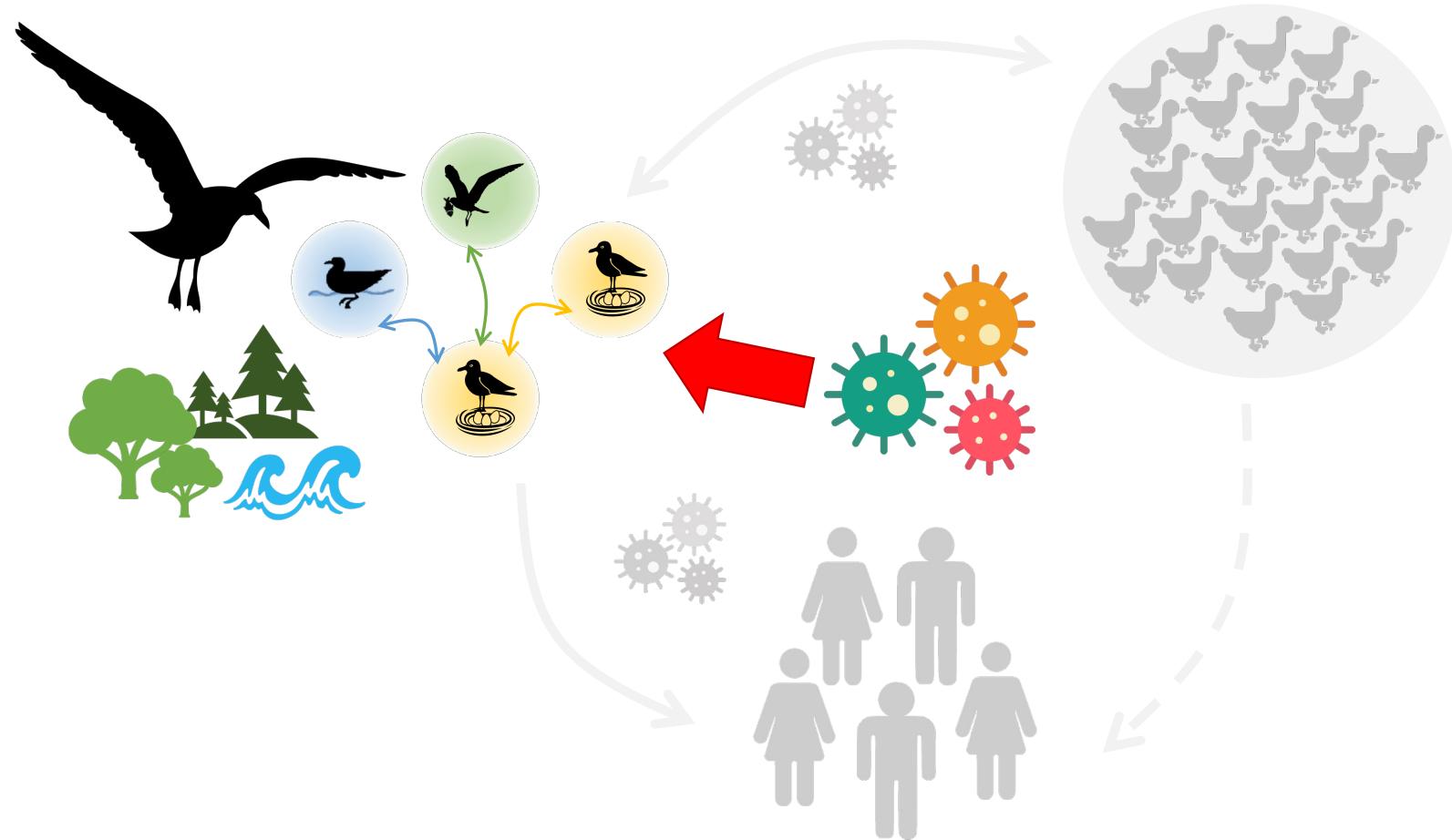
# Propagation des maladies infectieuses



# Propagation des maladies infectieuses

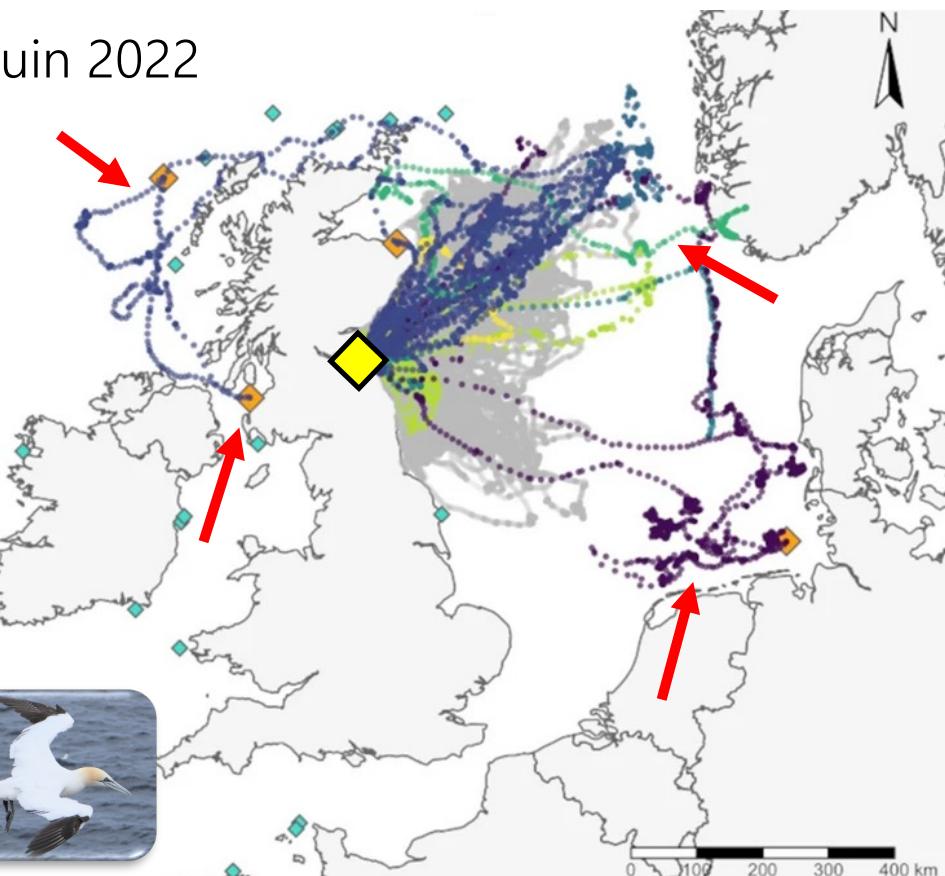


# Propagation des maladies infectieuses



# Schémas de mouvements en mer des fous de bassan

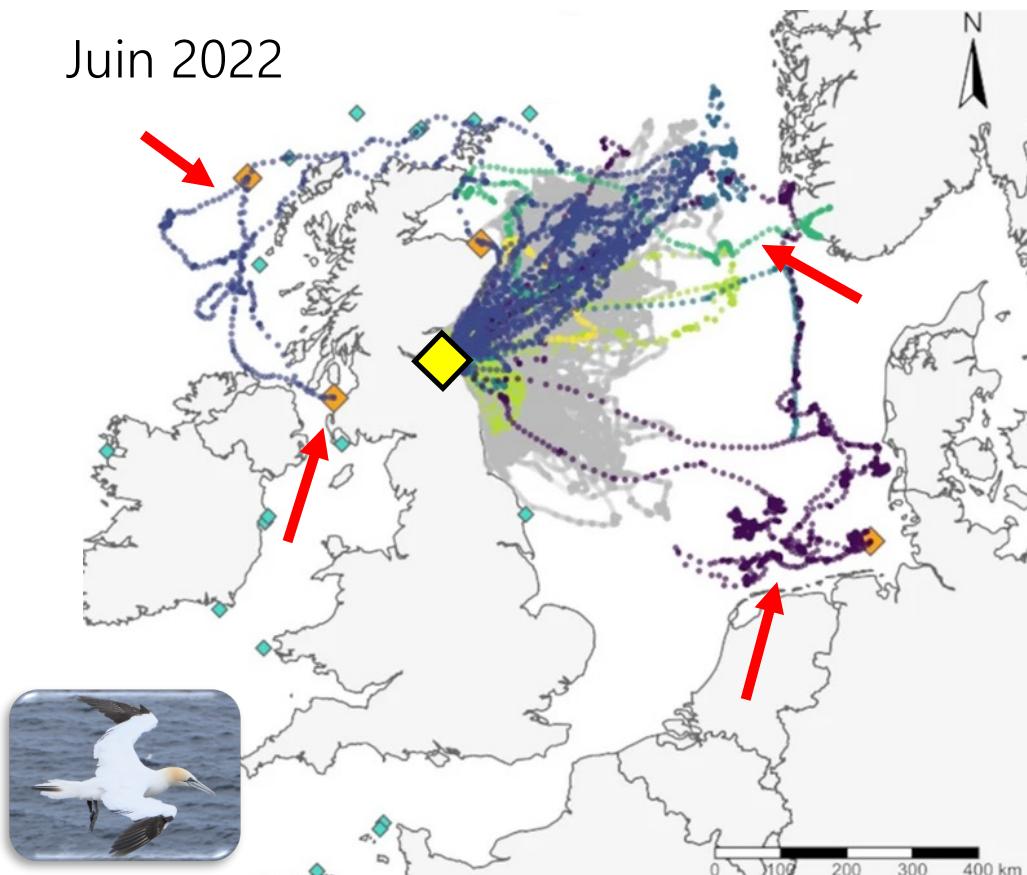
Juin 2022



Jeglinski et al., *Scient. Rep.* 2024

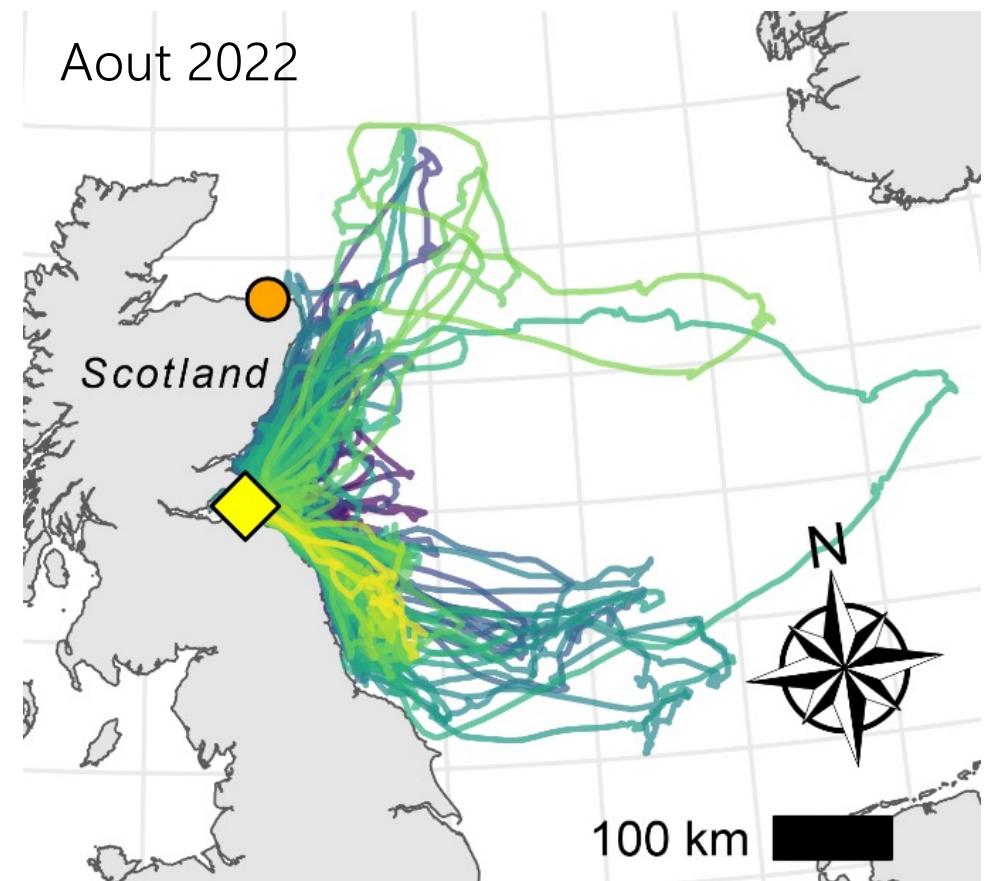
# Schémas de mouvements en mer des fous de bassan

Juin 2022



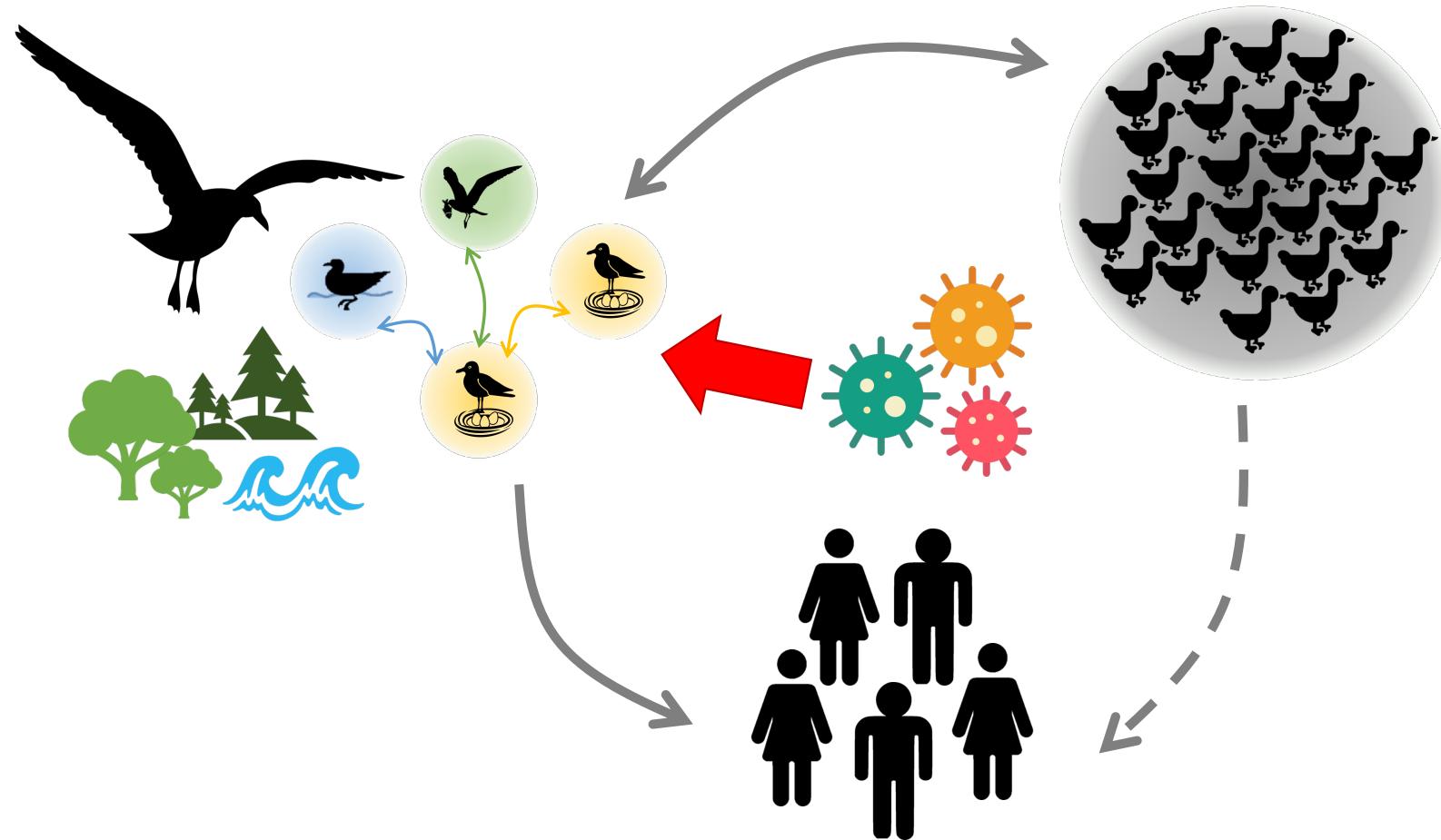
Jeglinski *et al.*, *Scient. Rep.* 2024

Aout 2022

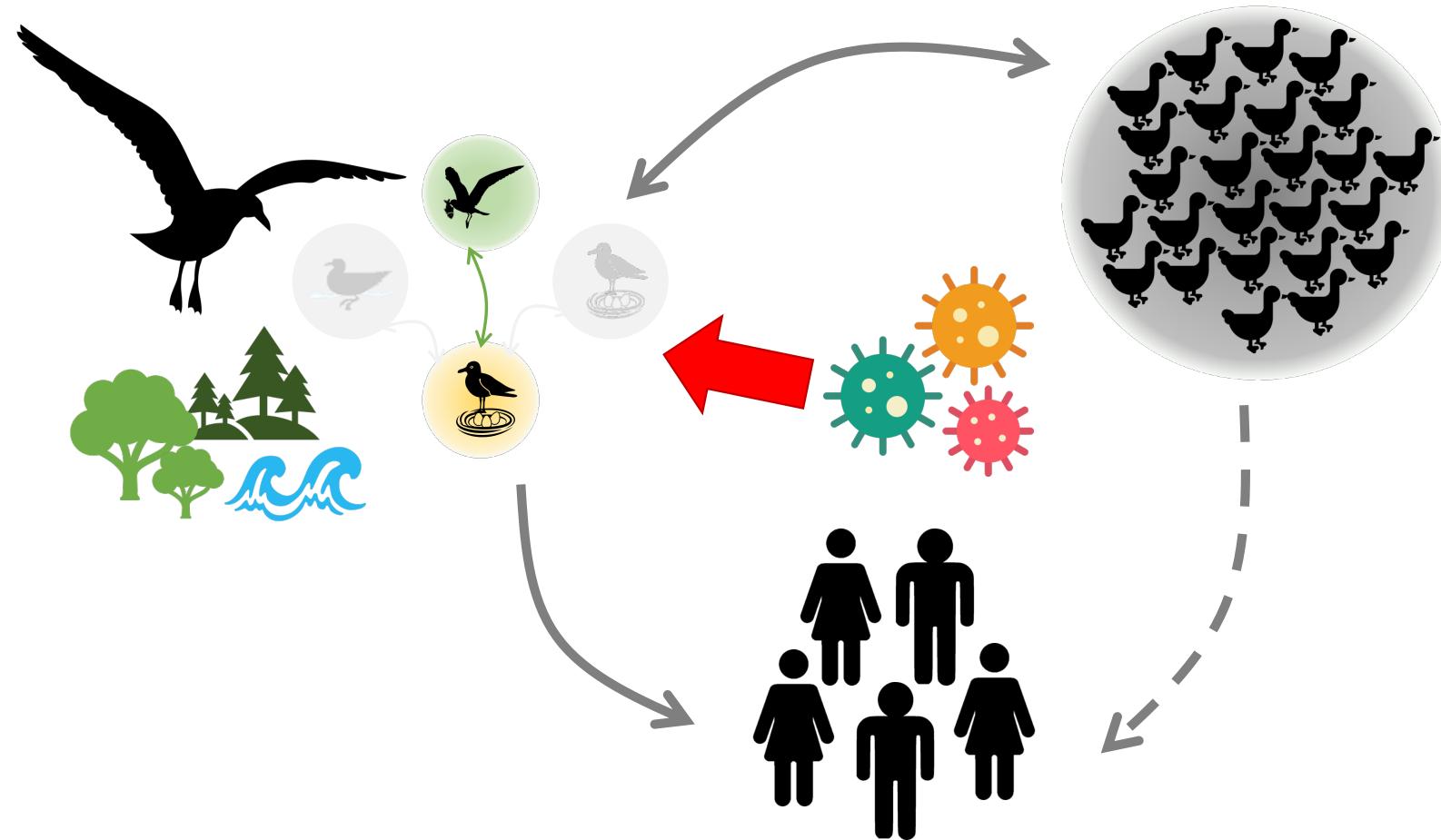


Grémillet, Ponchon *et al.*, *Biol. Cons.* 2023

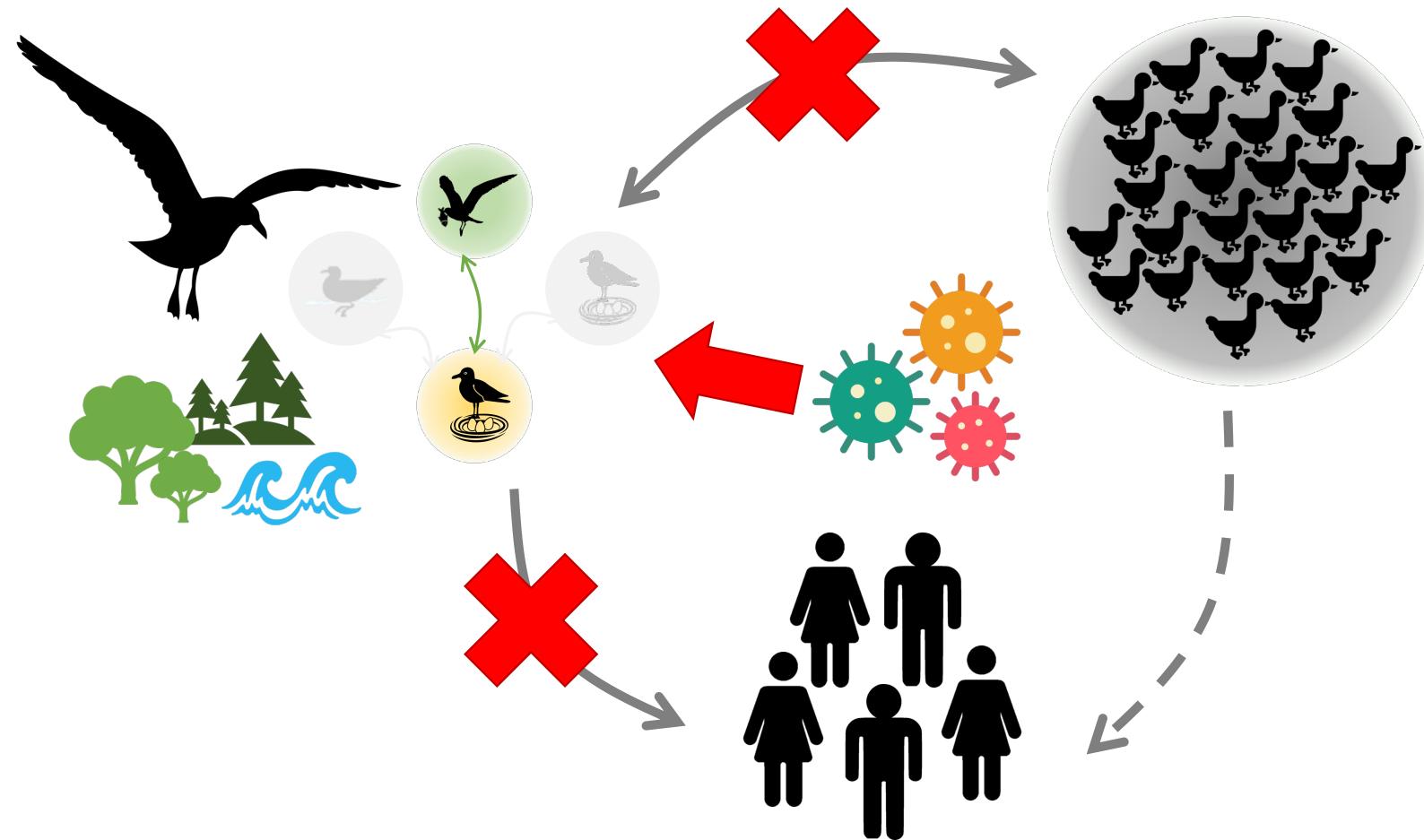
# Propagation des maladies infectieuses



# Propagation des maladies infectieuses



# Propagation des maladies infectieuses



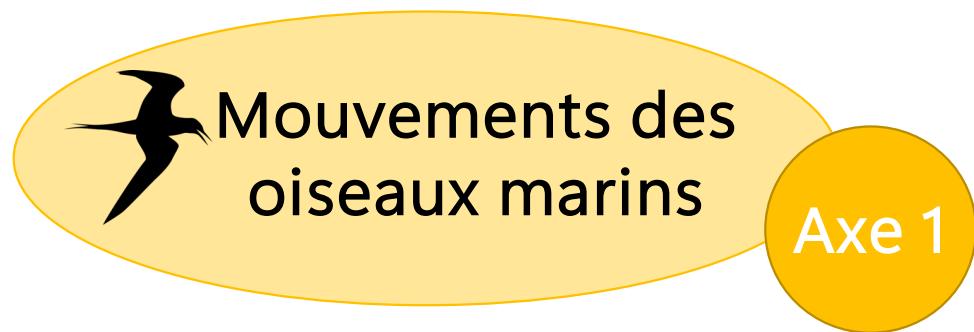
Contexte

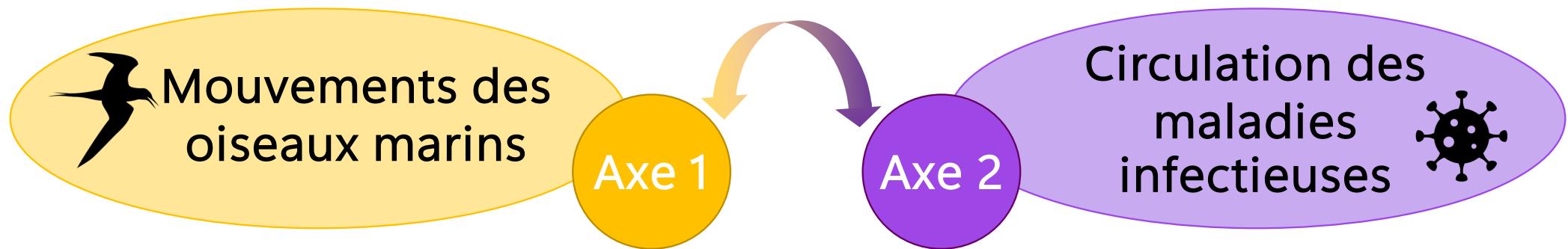
La grippe aviaire en NC

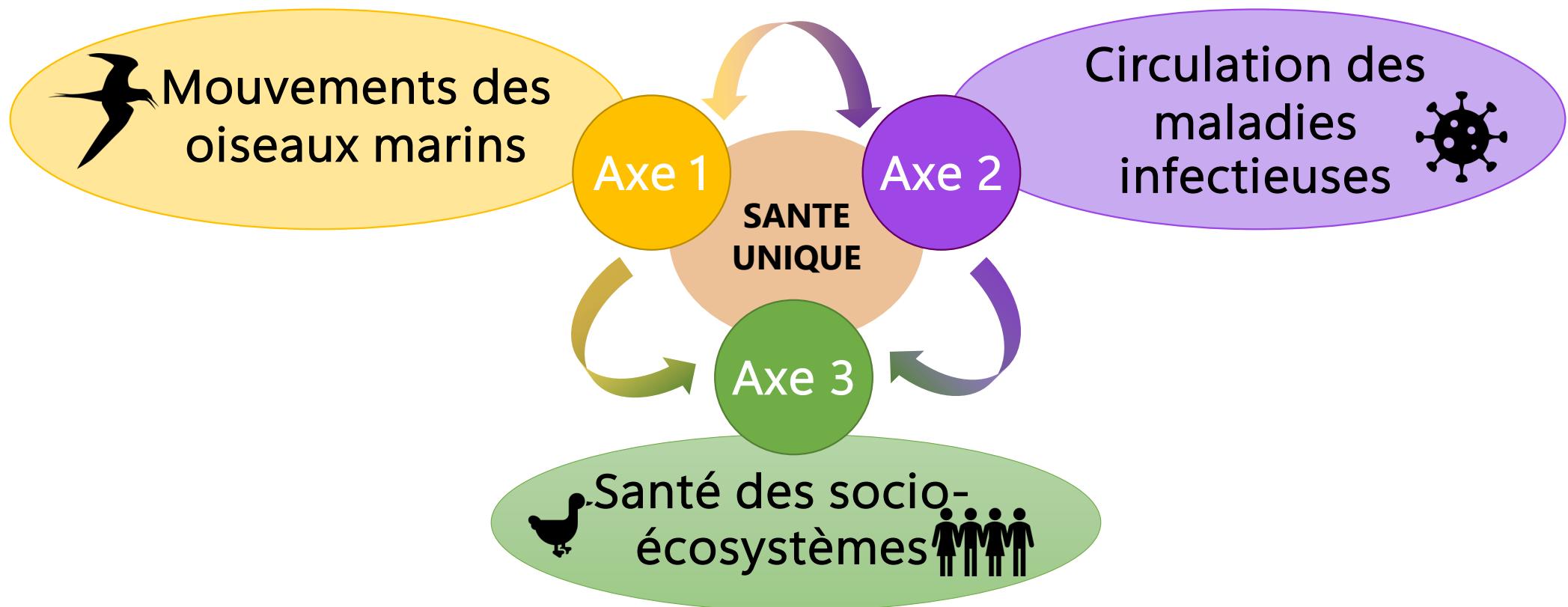
Méthodes

Résultats préliminaires

Perspectives



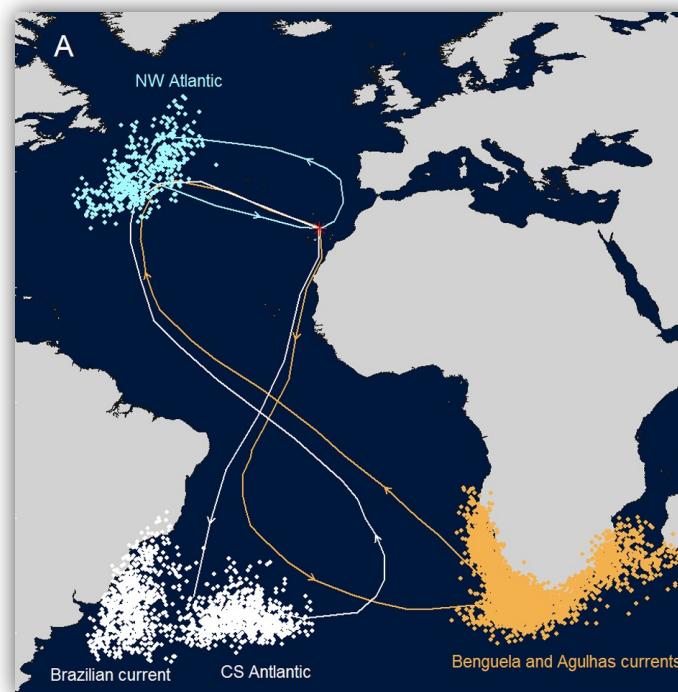




# Les oiseaux marins face à la grippe aviaire H5N1



Colonies denses



Dias et al., Plos One 2012

Grande capacité de  
mouvements



2006

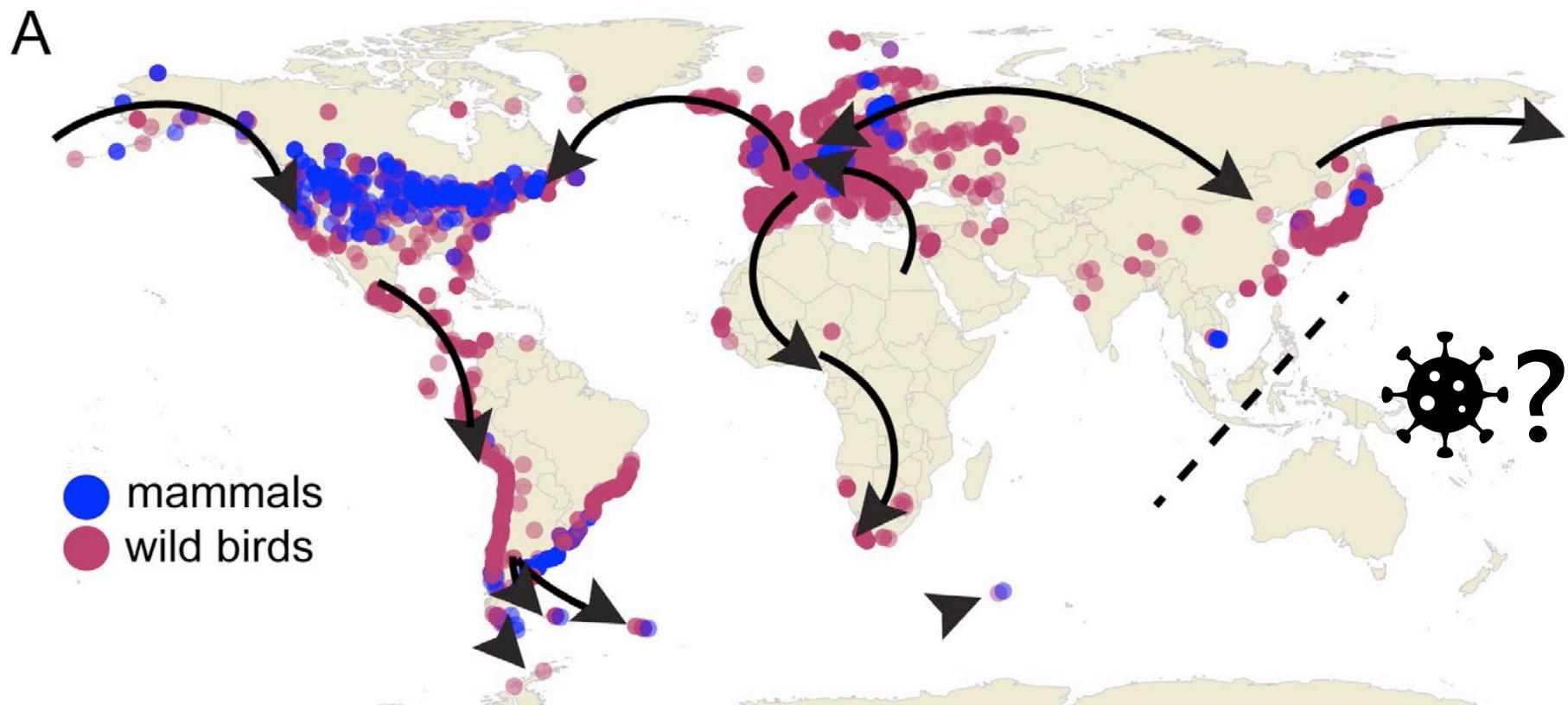


2023

© Rob. Barrett

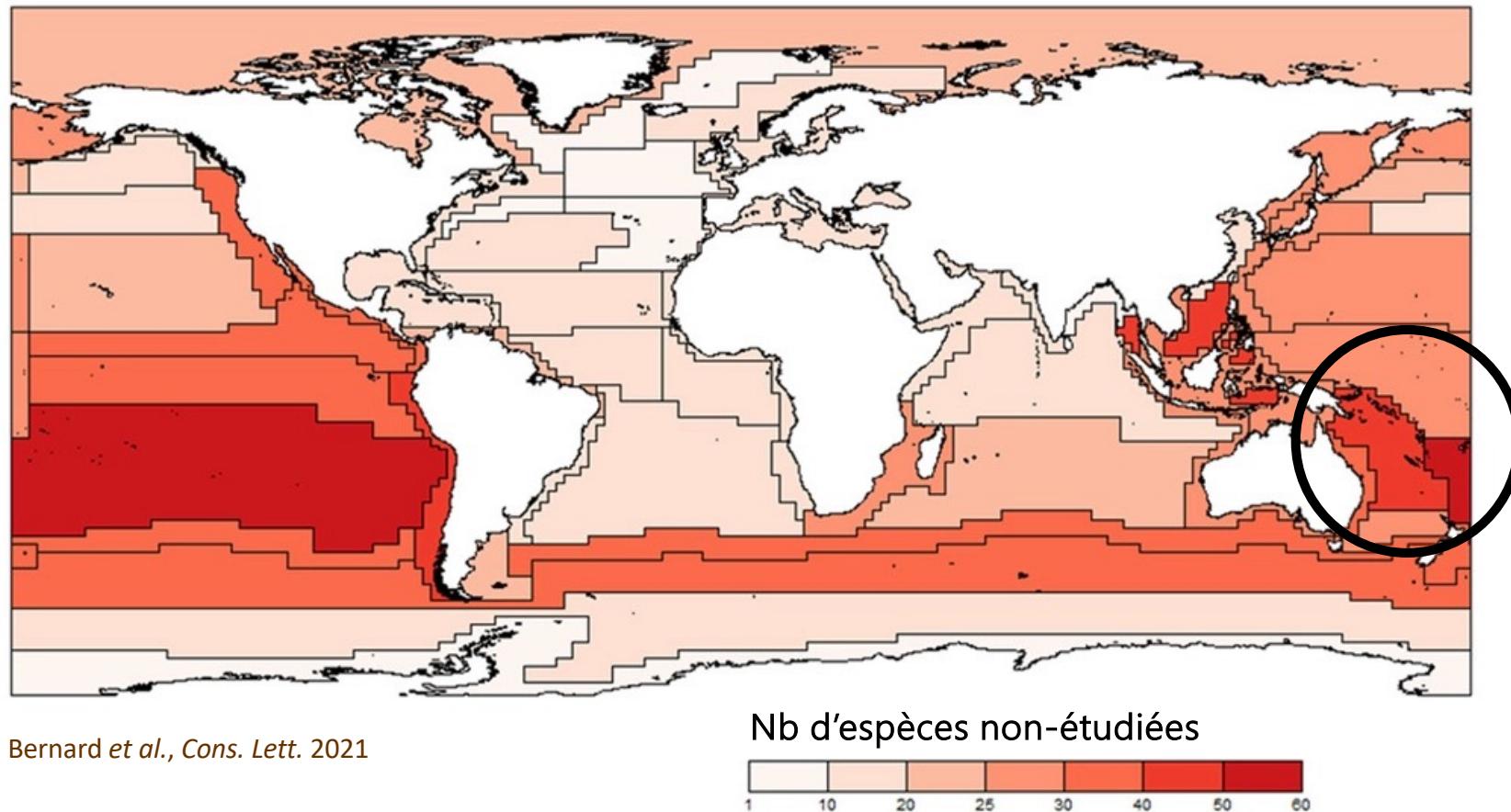
Majorité des populations  
en déclin

# Les oiseaux marins face à la grippe aviaire H5N1

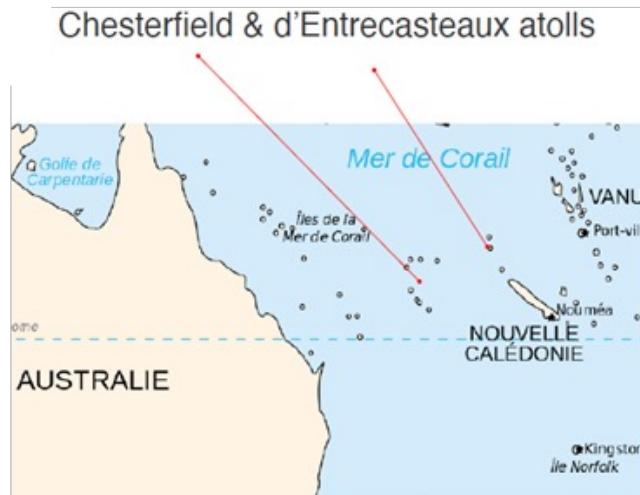


Ryding et al., Austral. Ecol. 2025

# Les oiseaux marins face à la grippe aviaire H5N1



# Les oiseaux marins face à la grippe aviaire H5N1 en Nouvelle-Calédonie



	Blood samples ( <b>serology</b> ) July 22		Cloacal samples (PCR) July 22, July 23, January 24
	Type A	Type H5	
Sooty stern	4.5% (n=22)	0.0% (n=2)	0.0% (n=30)
<b>Red-footed booby</b>	<b>42.9% (n=14)</b>	<b>14.3% (n=7)</b>	0.0% (n=24)
Great fregatebird	0.0% (n=5)	-	0.0% (n=12)
Brown booby	-	-	0.0% (n=5)
Black noddi	-	-	0.0% (n=5)

Vidal & Hue, unpublished, 2024

## Première campagne de terrain – Juillet 2025

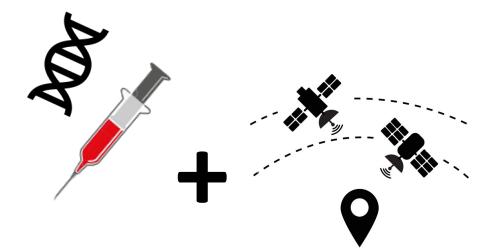
- Evaluation de la présence active de H5N1



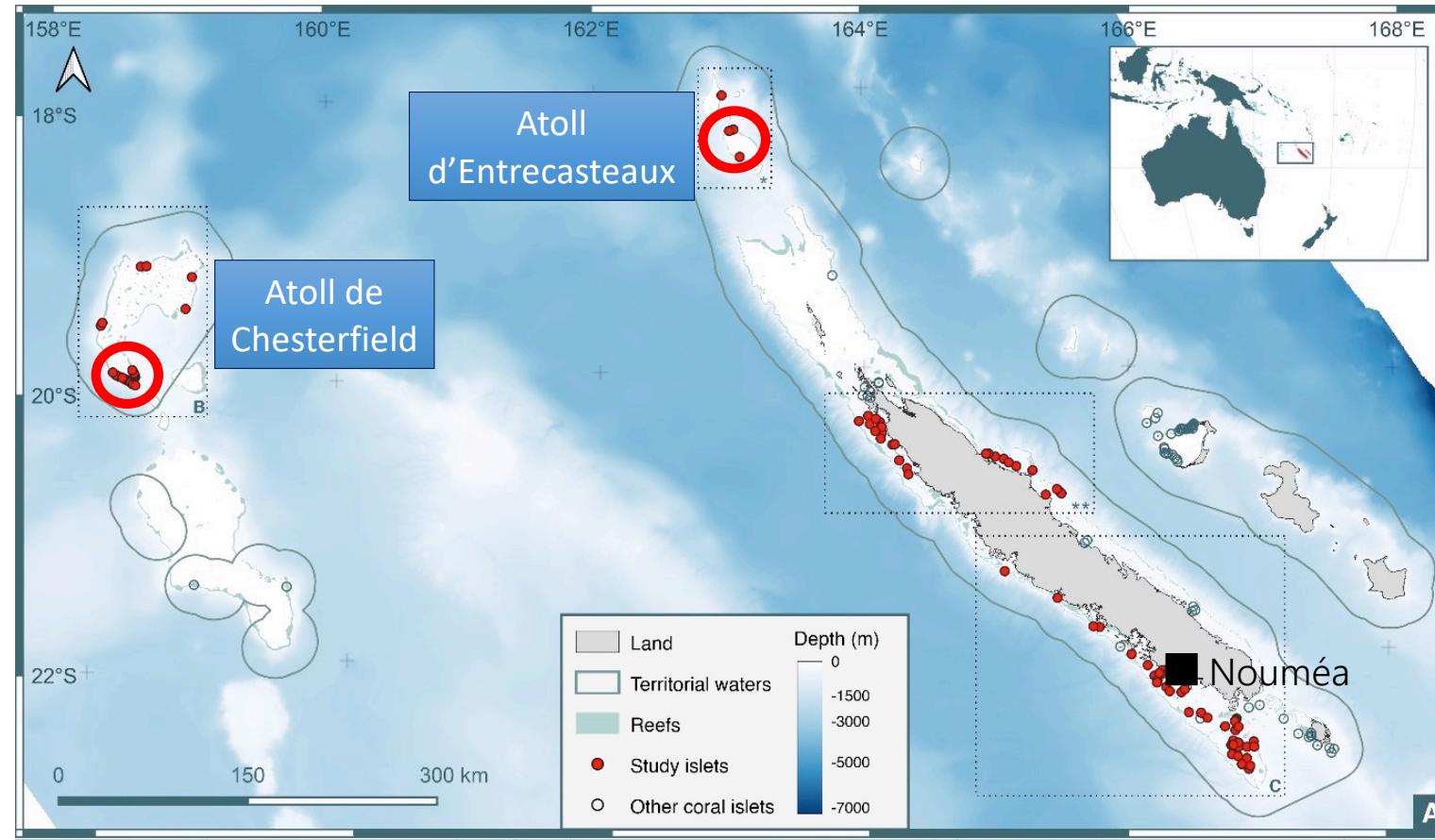
- Traces de circulation passée de H5N1



- Evaluation de la connectivité des îles éloignées



# Première campagne de terrain – Juillet 2025



Berr T., thèse IRD, 2023

Contexte

La grippe aviaire en NC

Méthodes

Résultats préliminaires

Perspectives

# Première campagne de terrain – Juillet 2025

## CHESTERFIELD



Ilot du Mouillage



Ilot Loop

# Première campagne de terrain – Juillet 2025

## CHESTERFIELD



Ilot du Mouillage



Ilot Loop

## ENTRECASTEAUX



Ilot Fabre



Ilot Le Leizour



Ilot de la Surprise

# Première campagne de terrain – Juillet 2025

## CHESTERFIELD



Ilot du Mouillage



Ilot Loop

## ENTRECASTEAUX



Ilot Fabre



Ilot Le Leizour



Ilot de la Surprise



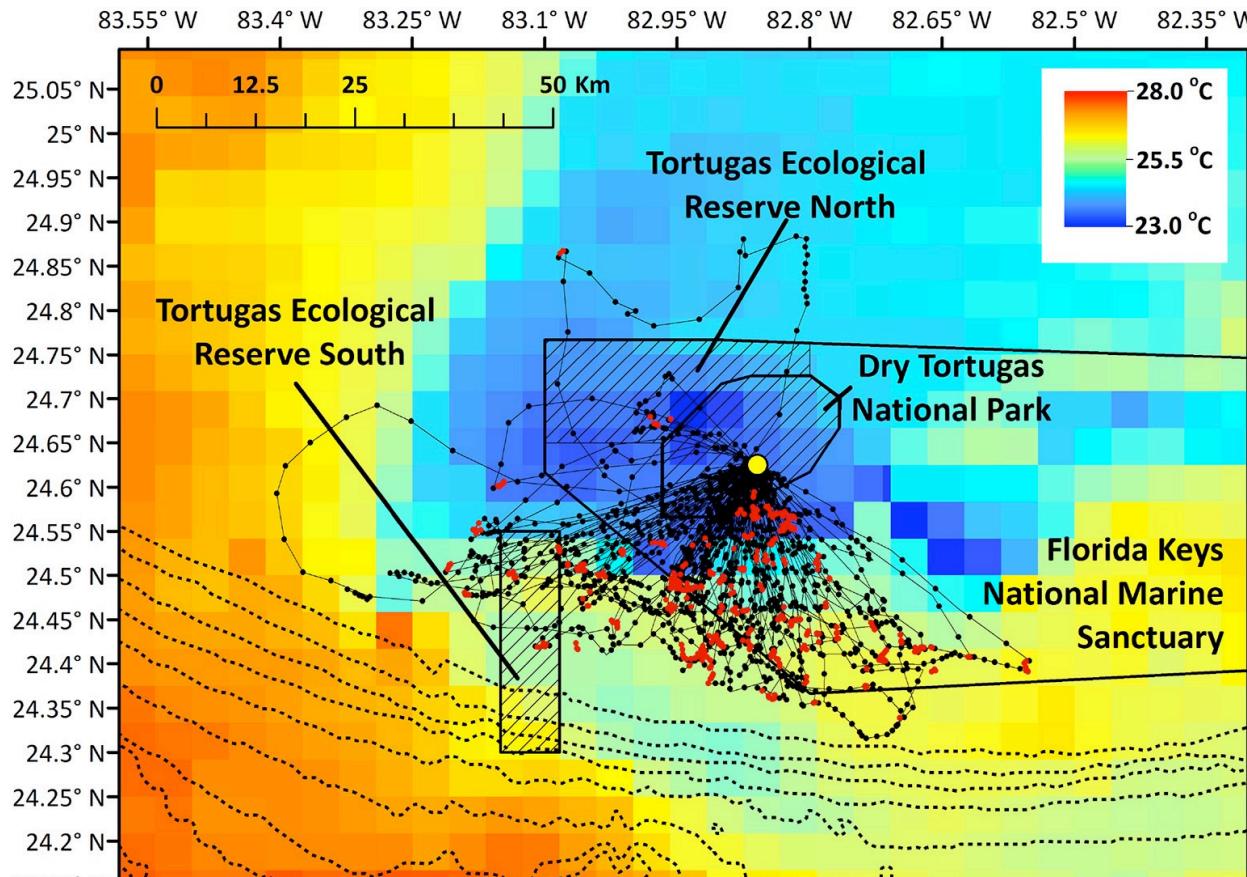
> 400 échantillons de sang + faeces

# Première campagne de terrain – Juillet 2025



Le noddi brun, écologie spatiale quasi-inexistante

# Première campagne de terrain – Juillet 2025



Maxwell et al., *Front. Mar. Sci.* 2016

10 ind sur poussin

Rayon d'action: ~40km  
(max 70km)

Durée des trajets: ~3h40  
(<13h)

Très peu de voyages nocturnes

Contexte

La grippe aviaire en NC

Méthodes

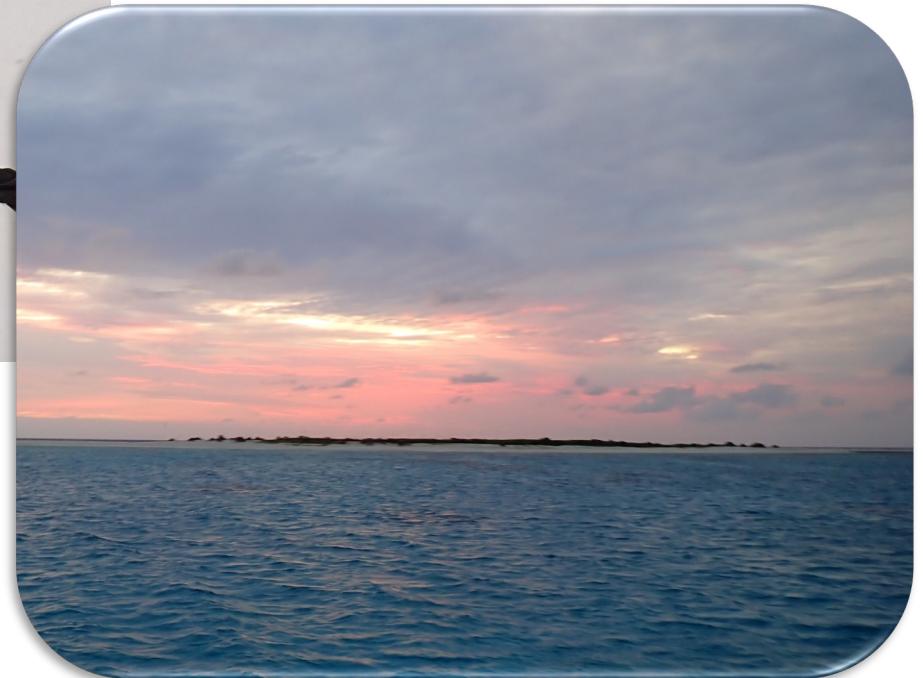
Résultats

Perspectives

# Première campagne de terrain – Juillet 2025



Ilot du Mouillage  
4 individus sur œuf  
Suivi sur 3 jours



# Première campagne de terrain – Juillet 2025

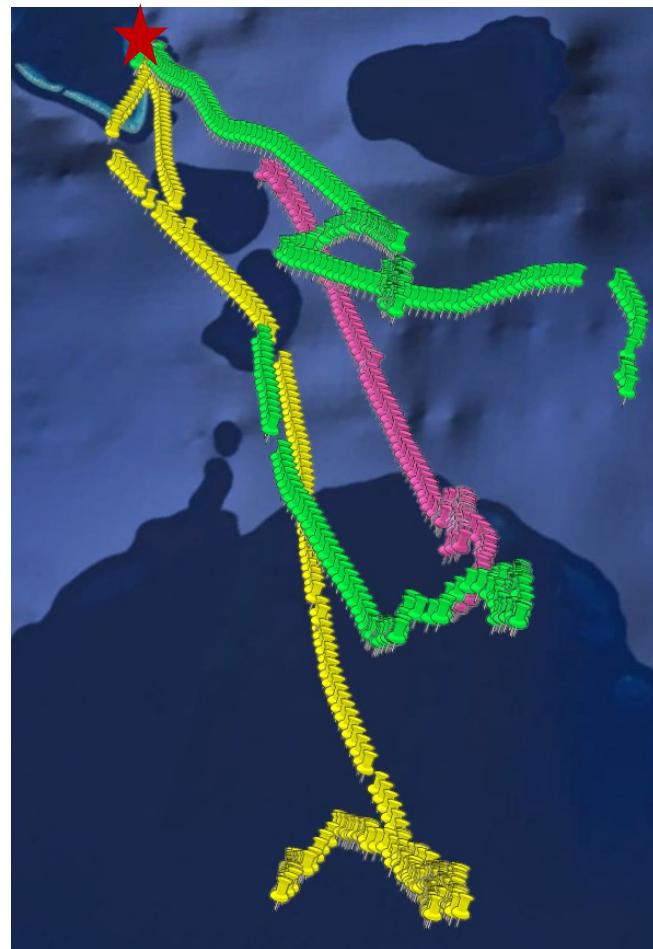
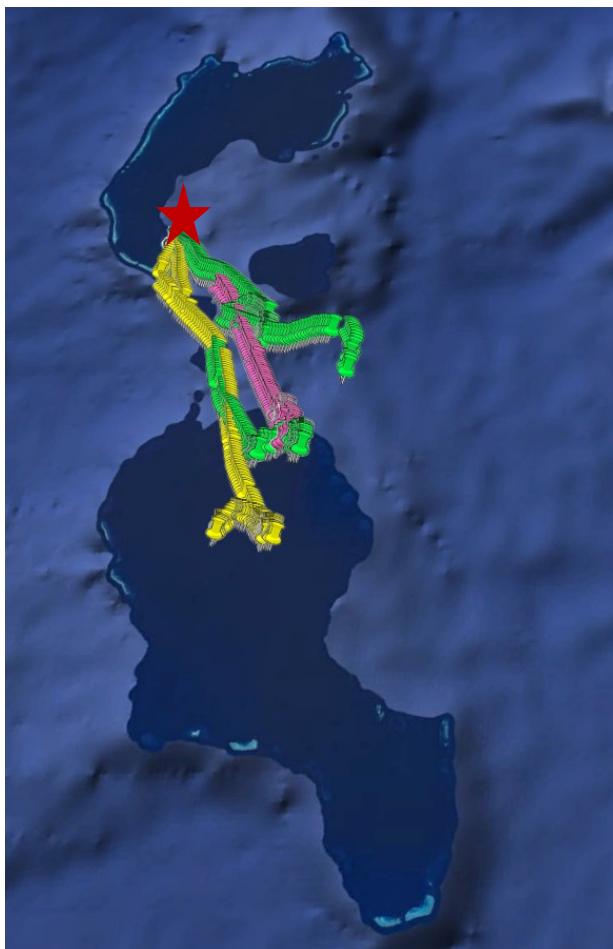


## Résultats inattendus

> 24h pour partir en  
mer

Utilisation de clubs

# Première campagne de terrain – Juillet 2025



## Résultats inattendus

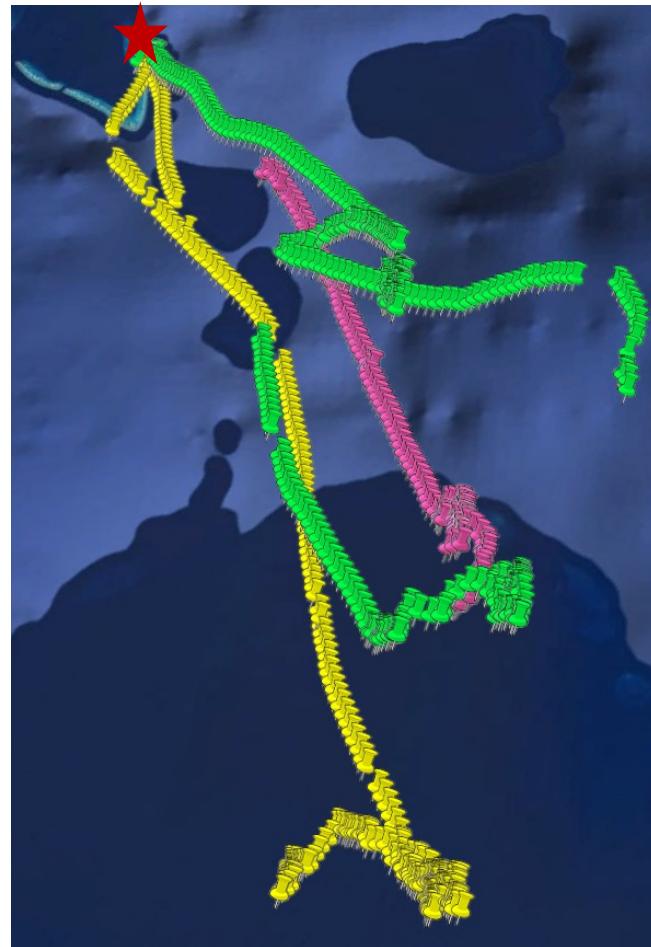
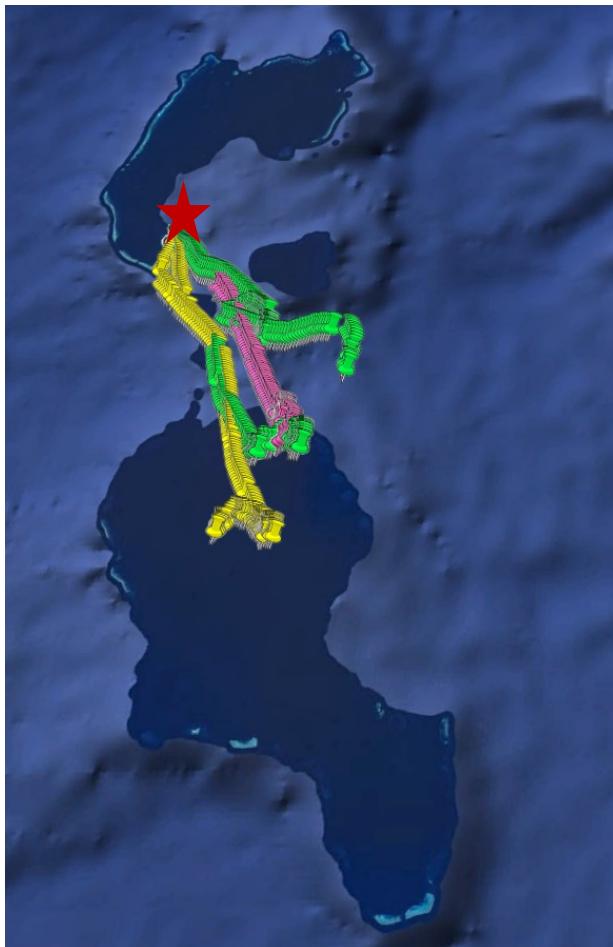
Rayon d'action: ~120km

Durée des trajets: >20h

Vols nocturnes

Trajets vers l'atoll voisin de  
Bellona

## Première campagne de terrain – Juillet 2025



### Résultats inattendus



Résolution temporelle trop fine

Difficultés pour récupérer les données dans le temps imparti

Contexte

La grippe aviaire en NC

Méthodes

Résultats

Perspectives

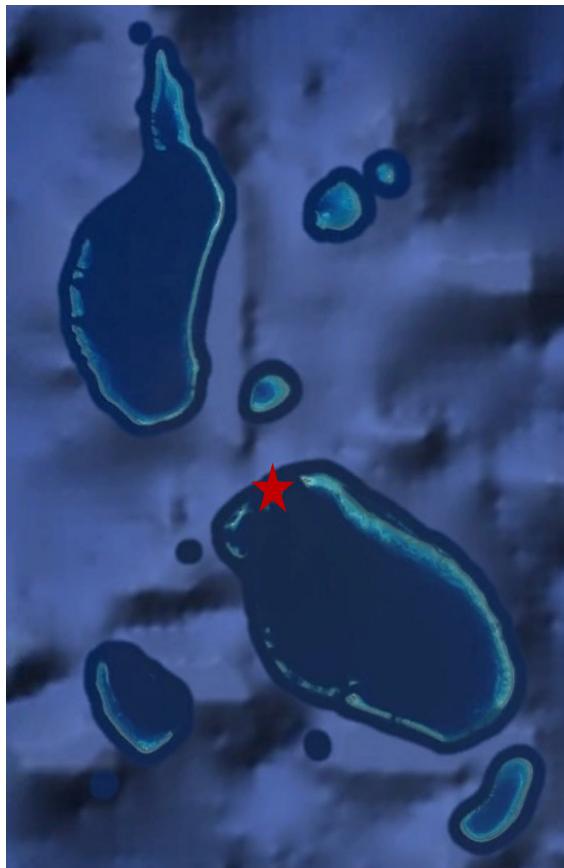
# Première campagne de terrain – Juillet 2025



Ilot Fabre  
3 individus sur œuf  
Suivi sur 5 jours



# Première campagne de terrain – Juillet 2025



**Pas de résultats**

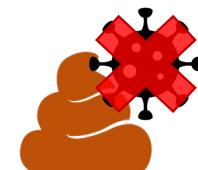


Houle dans le mauvais sens qui a empêché de revenir en bateau...

# Première campagne de terrain – Juillet 2025



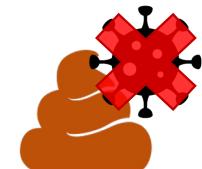
**PAS DE DETECTION DE H5N1 AU MOMENT  
DE L'ECHANTILLONNAGE**



# Première campagne de terrain – Juillet 2025

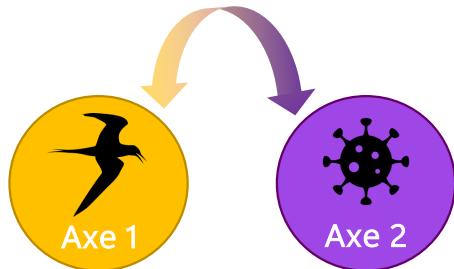


**PAS DE DETECTION DE H5N1 AU MOMENT  
DE L'ECHANTILLONNAGE**

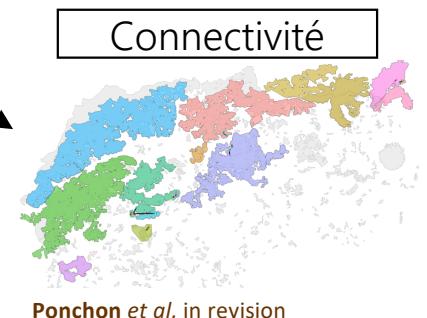
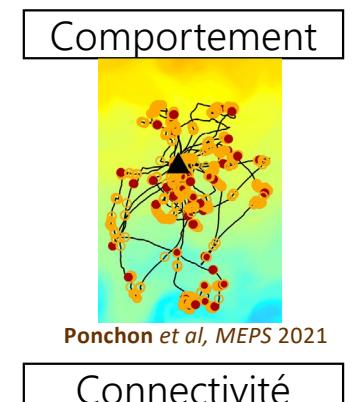
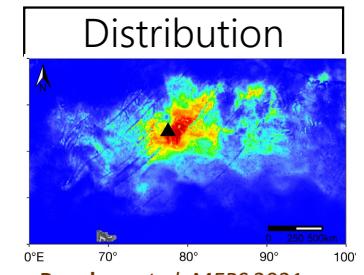
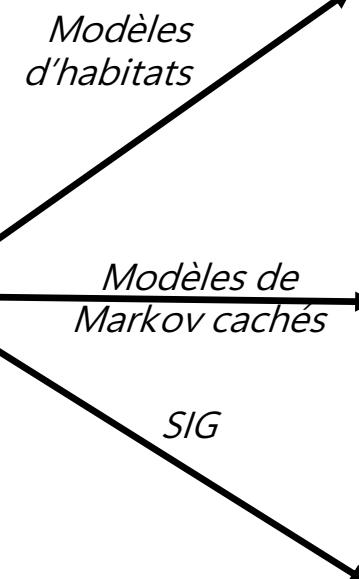
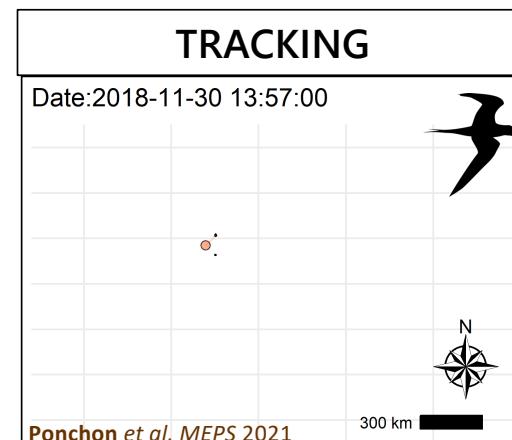
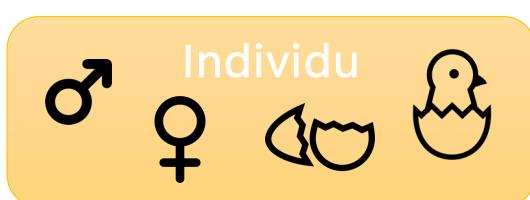
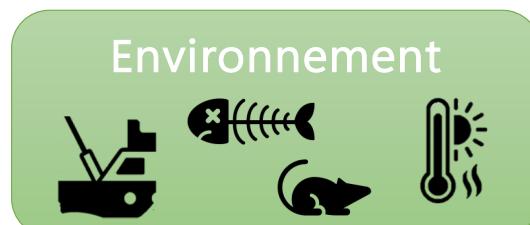


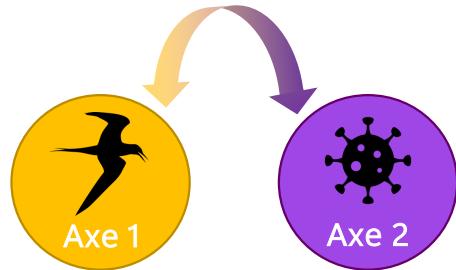
TESTS SEROLOGIQUES EN COURS  
TESTS GENETIQUES EN COURS





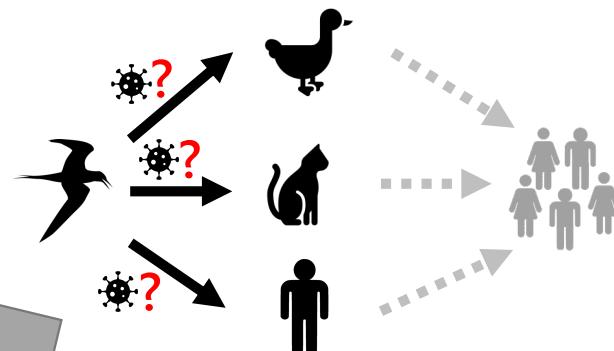
# Suivi des mouvements





# Prédiction des risques

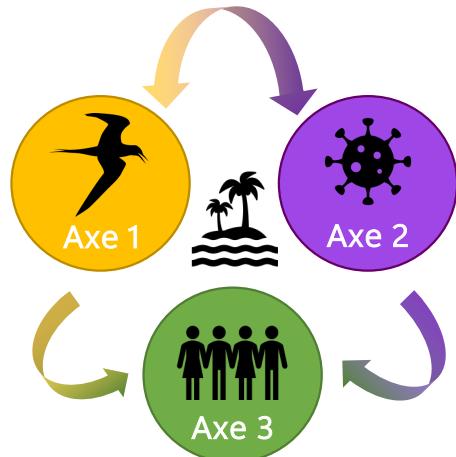
Zones et périodes  
de contact potentiel



Distribution

Comportement

Connectivité



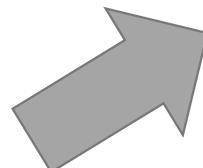
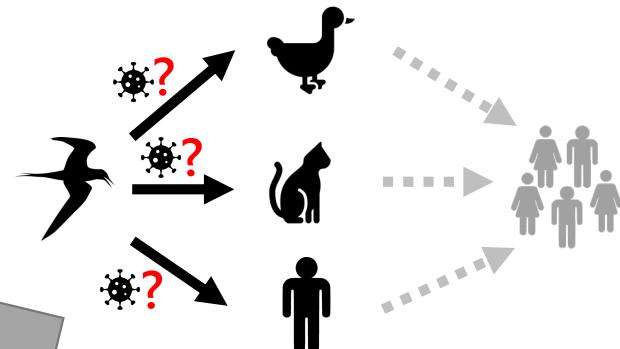
Distribution

Comportement

Connectivité

# Prédiction des risques

Zones et périodes  
de contact potentiel



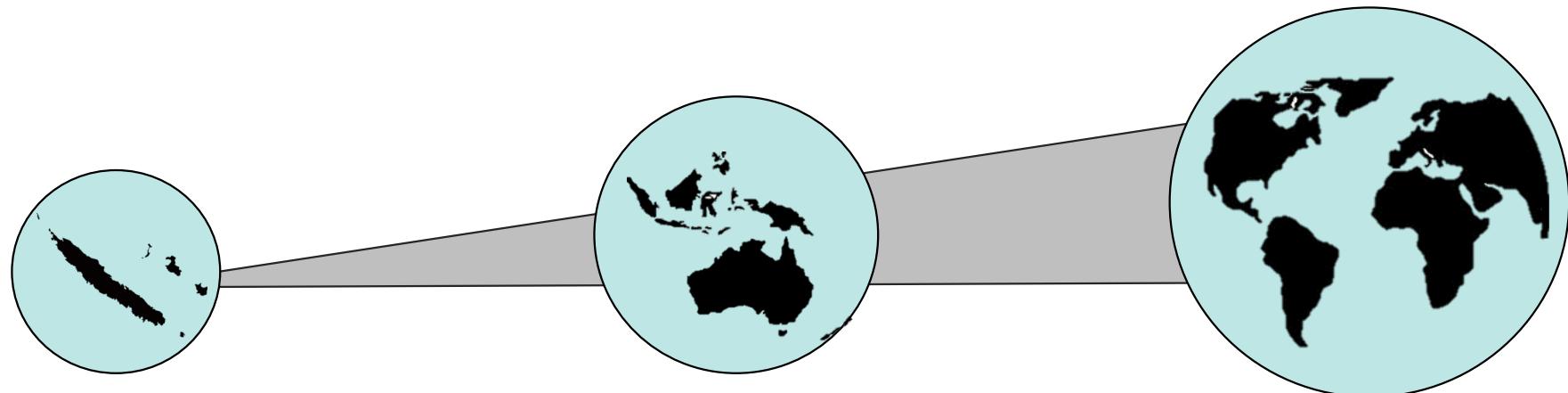
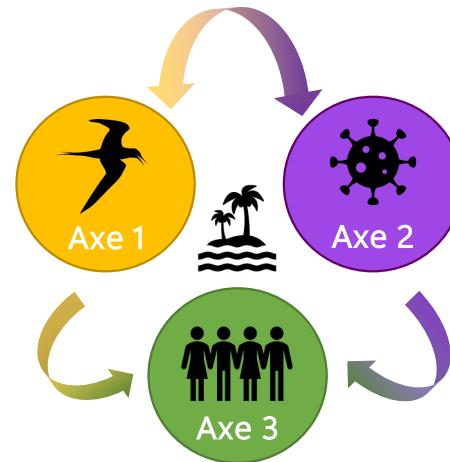
Cartographie des risques



Navarro et al, *Scient. Rep.* 2019

# CONSERVATION

# SANTE UNIQUE



# Remerciements



Jennifer, Martin, Sébastien, Lucille,  
Hélène



Emilien, Matthieu, Thomas, Lauriane, Hélène



Eric  
Vidal



Delphine



Stéphane

A wide-angle photograph of a coastal scene. In the foreground, a green grassy hillside slopes down towards a vibrant turquoise ocean. Numerous dark-colored seabirds, likely boobies or frigates, are scattered across the sky, some in flight and others resting on the ground. The sky is a clear, pale blue with a few wispy white clouds.

Merci de votre attention!