



# **Increasing risk of biological invasion posed by trade in wildlife via e-commerce and associated materials**

Junko Shimura

Secretariat of the Convention on Biological Diversity



# Achieving Aichi Biodiversity Target 9

Guidance on devising  
and implementing  
measures to address the  
risks associated with the  
introduction of alien species  
as pets, aquarium and  
terrarium species, and  
as live bait and live food

Annex to decision XII/16  
of the Conference of the  
Parties to the Convention  
on Biological Diversity

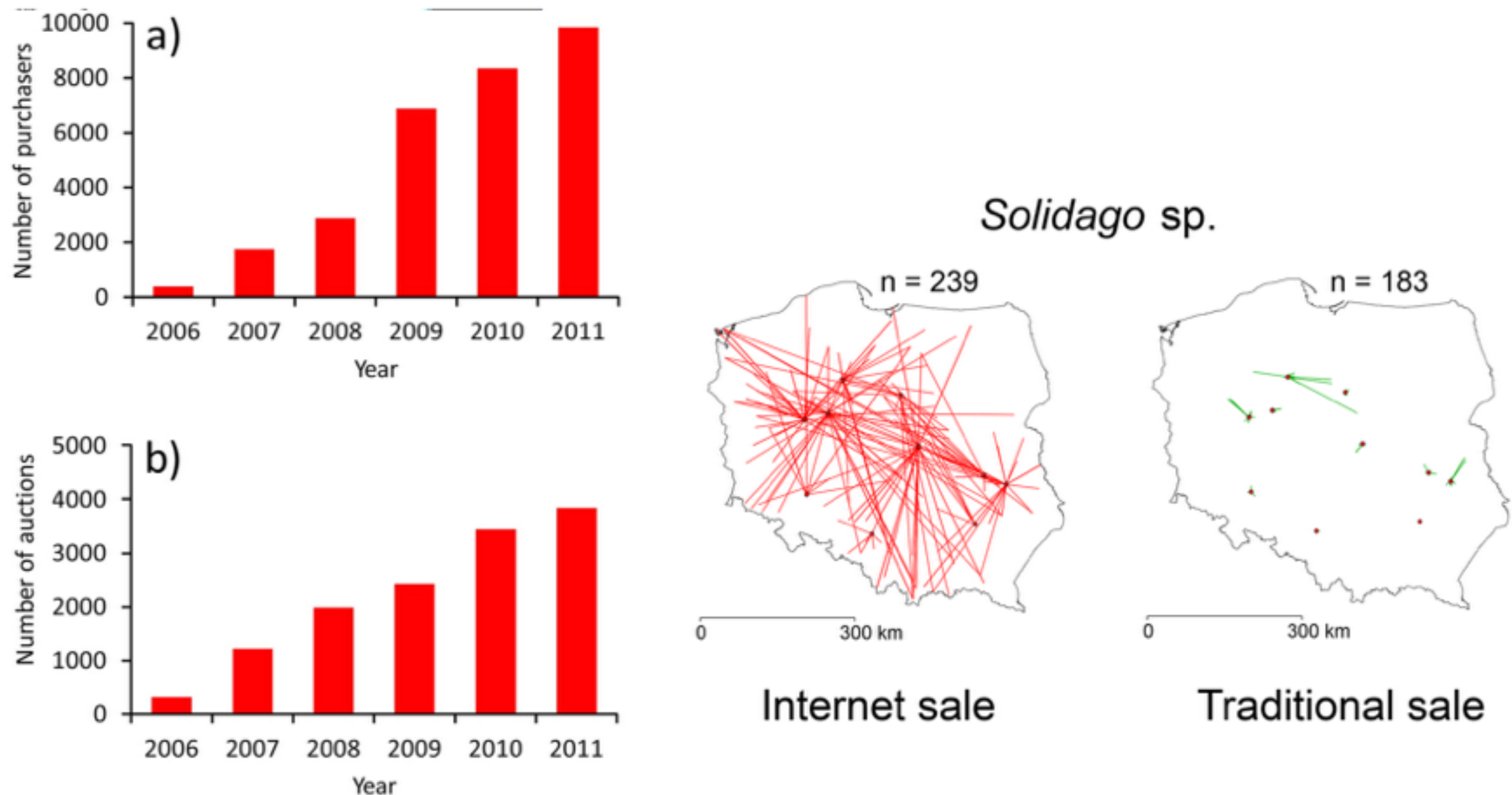




# Effect of the Internet Commerce on Dispersal Modes of Invasive Alien Species

Magdalena Lenda<sup>1\*</sup>, Piotr Skórka<sup>2</sup>, Johannes M. H. Knops<sup>3</sup>, Dawid Moroń<sup>4</sup>, William J. Sutherland<sup>5</sup>, Karolina Kuszewska<sup>1</sup>, Michał Woyciechowski<sup>1</sup>

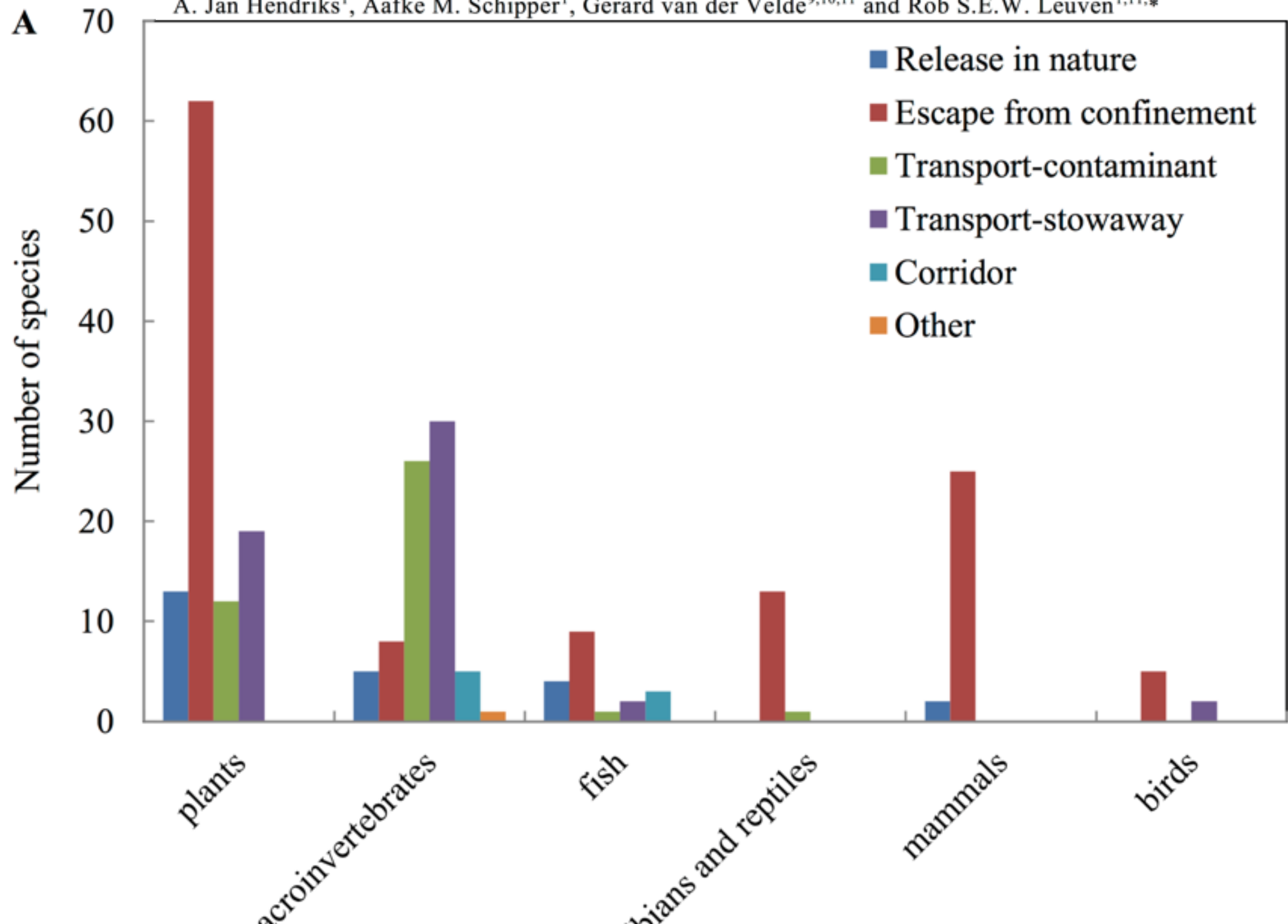
PLoS ONE 9(6): e99786. doi:10.1371/journal.pone.0099786



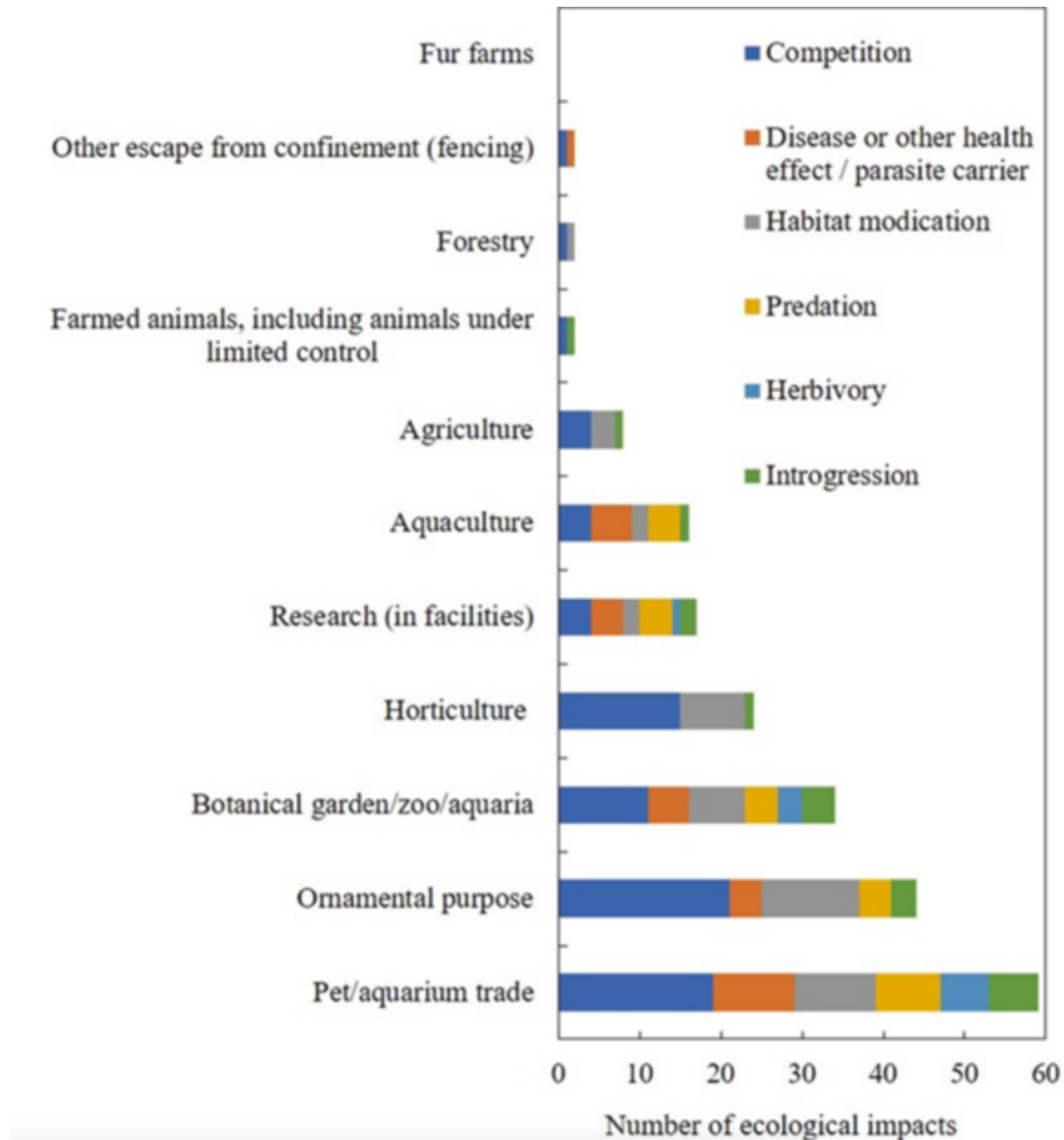
**Figure 5. Number of purchasers (a) and number of auctions (b) of 13 invasive alien species in different years in the largest Polish internet auctioning portal.**  
doi:10.1371/journal.pone.0099786.g005

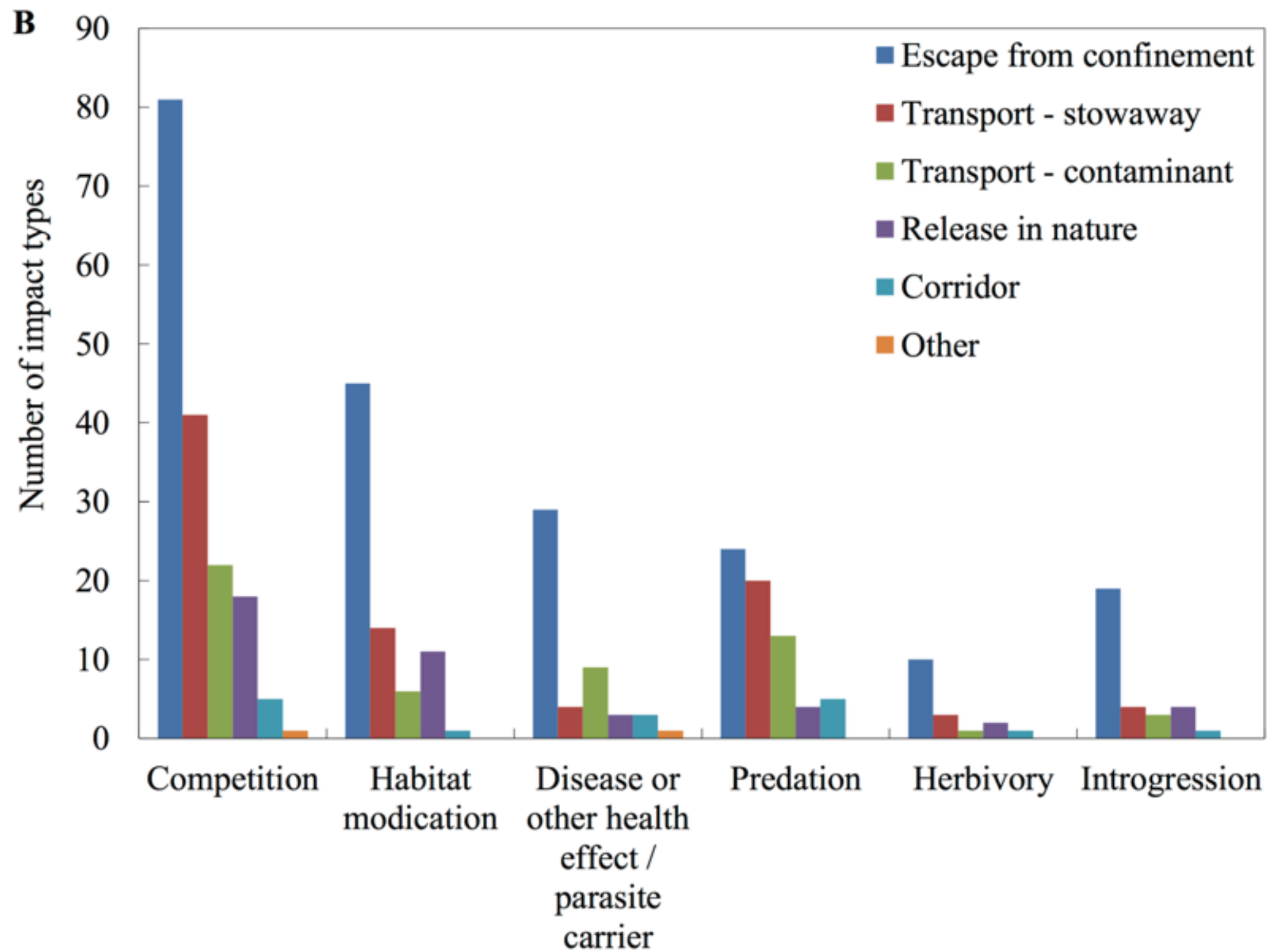
## A new approach to horizon-scanning: identifying potentially invasive alien species and their introduction pathways

Jonathan Matthews<sup>1,11</sup>, Ruud Beringen<sup>2,11</sup>, Raymond Creemers<sup>3,11</sup>, Hans Hollander<sup>4,11</sup>, Nils van Kessel<sup>5,11</sup>, Hein van Kleef<sup>6,11</sup>, Sander van de Koppel<sup>5</sup>, Adrienne J.J. Lemaire<sup>7</sup>, Baudewijn Odé<sup>2,11</sup>, Laura N.H. Verbrugge<sup>8,11</sup>, A. Jan Hendriks<sup>1</sup>, Aafke M. Schipper<sup>1</sup>, Gerard van der Velde<sup>9,10,11</sup> and Rob S.E.W. Leuven<sup>1,11,\*</sup>



# Types of introduction and their ecological Impacts





Number of impact types recorded in regions climatically matched to the Netherlands per introduction pathway

# COP13 decision XIII/13 on risk of trade in invasive alien species sold via e-commerce

<https://www.cbd.int/doc/decisions/cop-13/cop-13-dec-13-en.pdf>

## COP encouraged Parties and other Governments:

- Risk analysis process: Reviewing the risk of biological invasions, and associated phytosanitary risks: endeavor to develop suitable measures and guidance
- Promoting greater awareness about risk of biological invasions
- Collaborating with e-commerce traders and managers in developing measures to reduce the risk
- Guidance on Devising and Implementing Measures to Address the Risks Associated with the Introduction of Alien Species as Pets, Aquarium and Terrarium Species, and as Live Bait and Live Food



**In response to COP13 decision (XIII/13)  
Secretariat of the CBD works on tools  
and guidance setting for :**

- Appropriate national live species import regulation**
- Appropriate border inspection on live species import**
- Implementation of ISPMs and CBD voluntary guidance to regulate and manage invasive alien species**
- Participatory and effective decision making on invasive alien species management (improved collaboration among IPPC and CBD national structures)**



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An expert meeting will be convened  
to address e-commerce and live species trade  
in 2017