



LIFE + LAMPROPELTIS 2011-2014

26 years since the invasion of the California kingsnake (*Lampropeltis californiae*) in Gran Canaria (Spain)



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Gobierno
de Canarias

Working Group 2 – ARC and Invasive Species
Platform Meeting – 23rd May – Santander, Spain



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The California kingsnake



USA



MEXICO

A wide range of thermal activity, mainly fossorial behaviour, and lacks parental care

The California kingsnake in Gran Canaria

1336
Endemic species

480
Exclusive species

1560 km²

Monzón-Argüello et al. (2015)

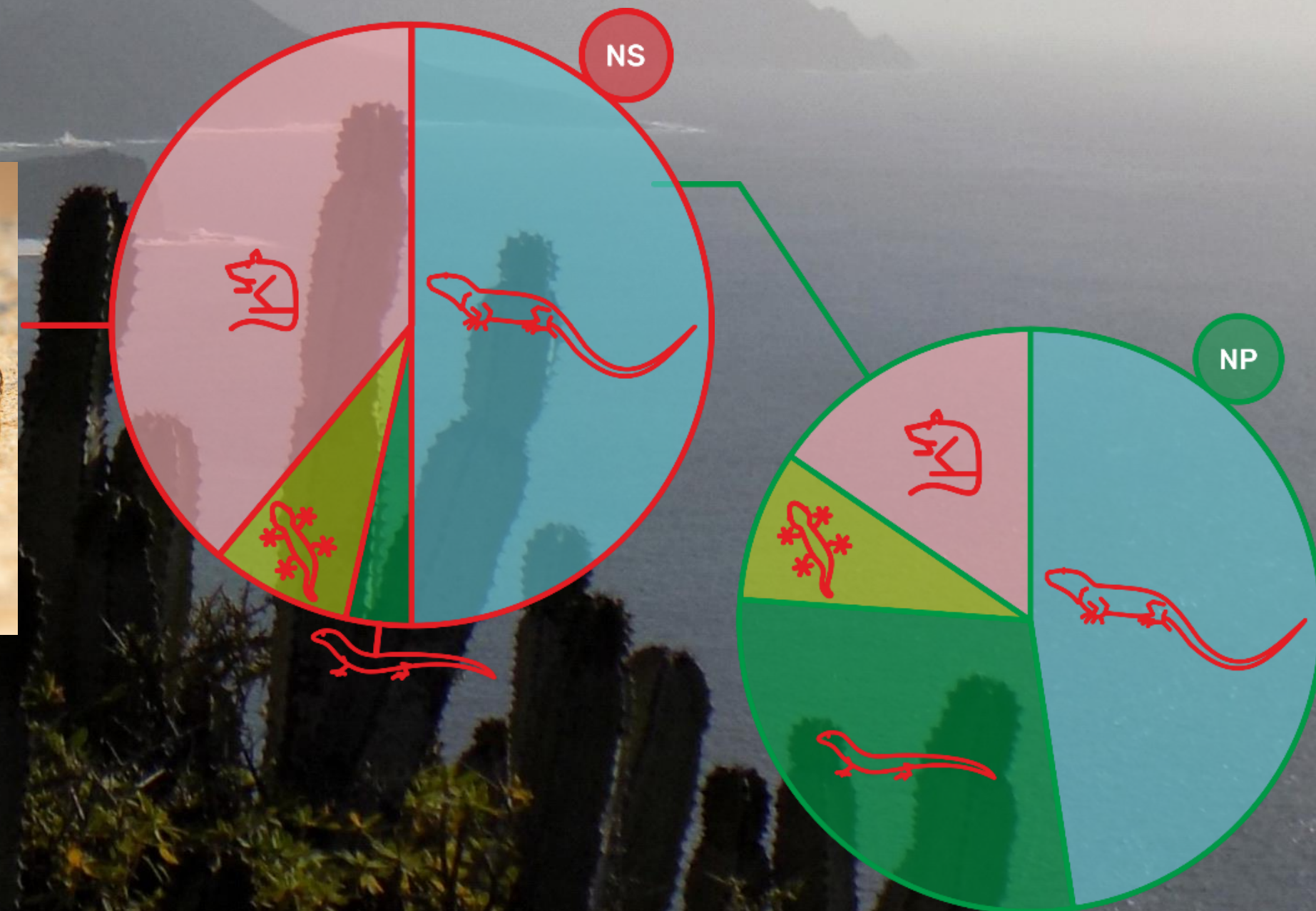
Gallotia stehlini



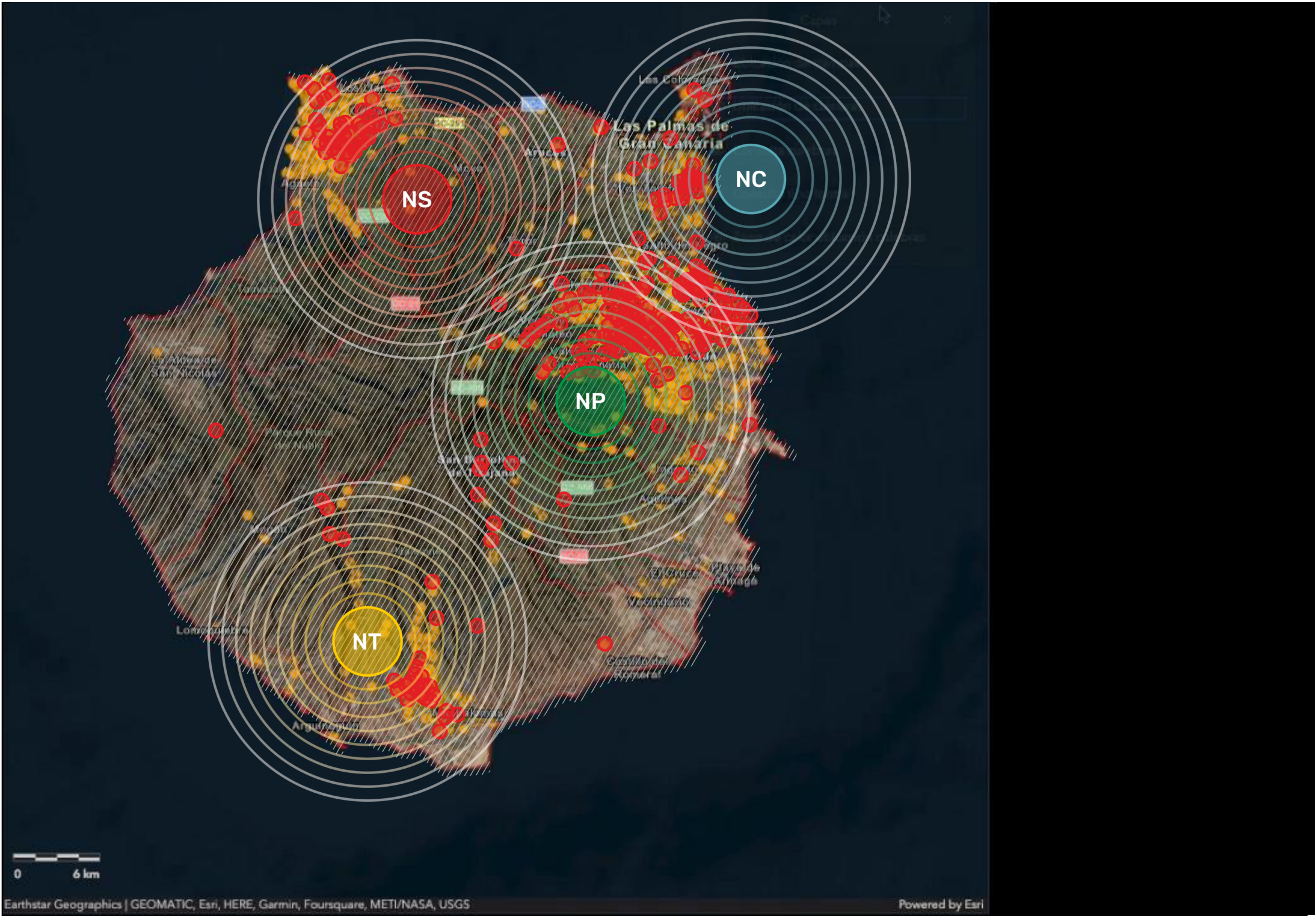
Chalcides sexlineatus



Tarentola boettgeri



The California kingsnake in Gran Canaria

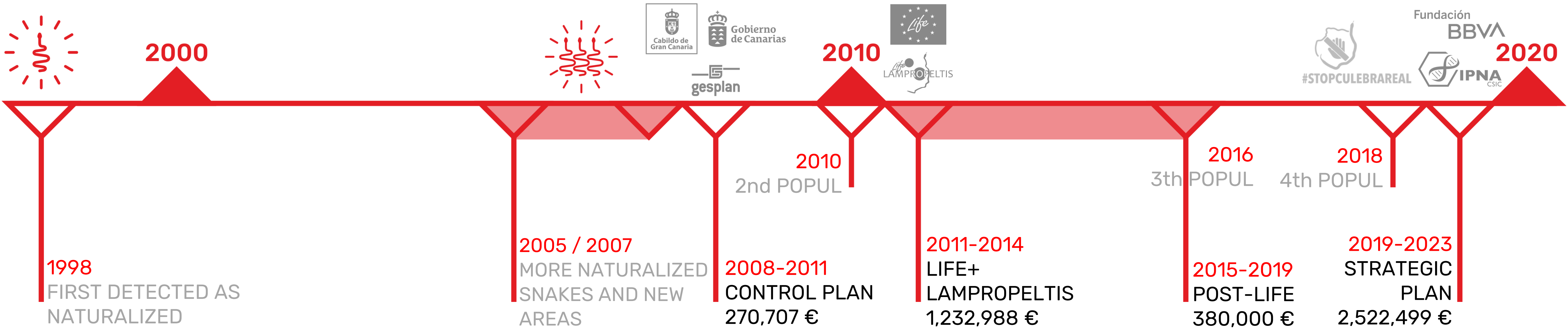


342%
increase of
the invaded
range since
2011



17.779
captures
since **2007**

949
captures en **2024**
(19/05/2024)



Impact on the endemic reptiles



More than
90%

Around
80%

Almost
50%

Drastic reduction of all endemic reptiles in the island

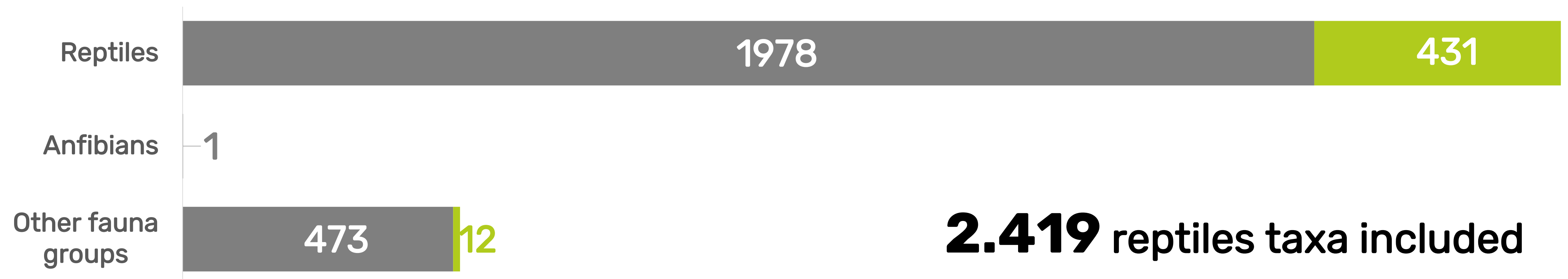
Pîquet & López Darias (2021)



Spanish Royal Decree 630/2013, which regulates the catalog of invasive alien species (IAS).

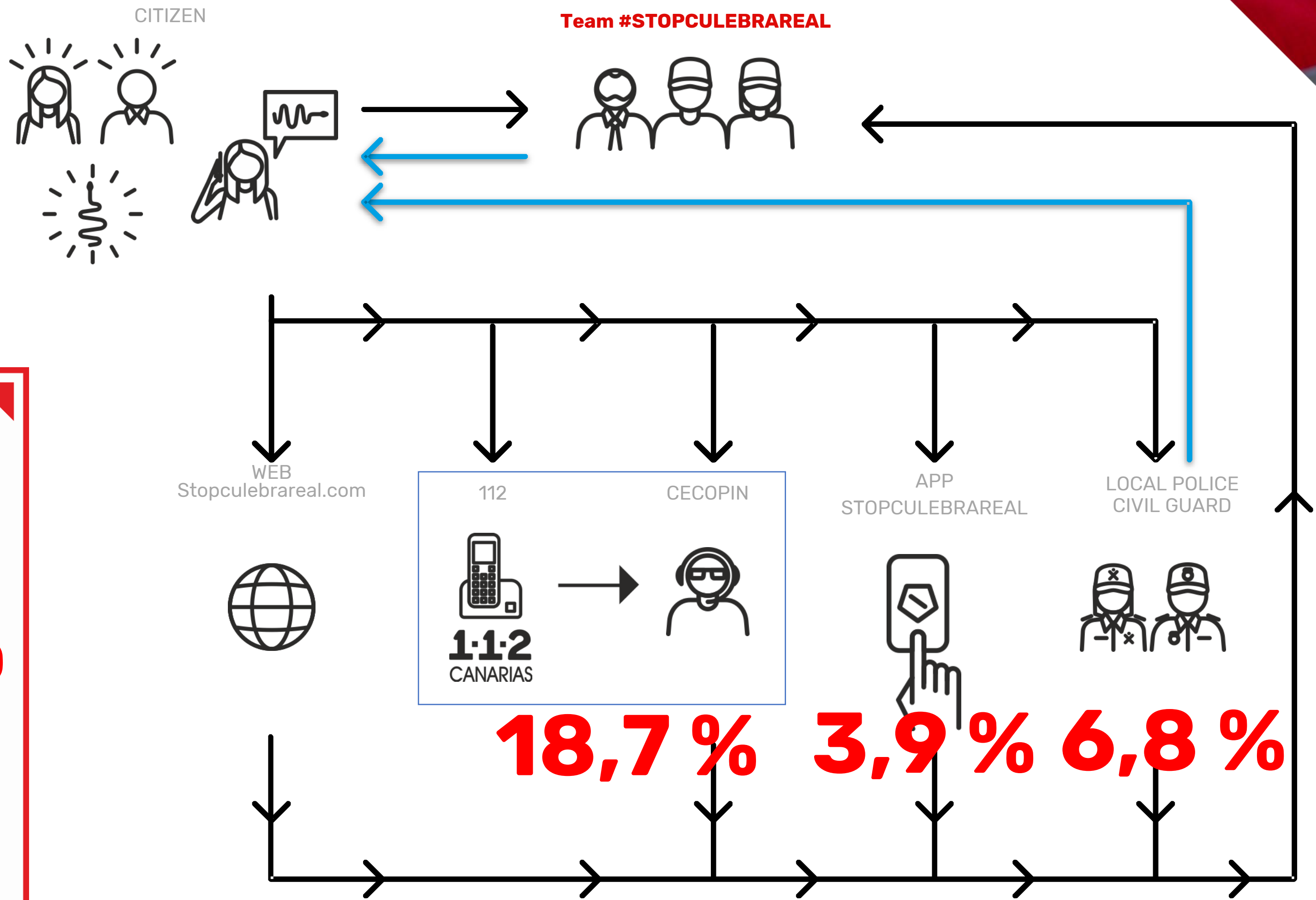
Family Colubridae - *sensu lato* - *Canary Islands , Ibiza and Formentera*

Spanish Royal Decree 216/2019, approving the list of invasive alien species of concern for the outermost region of the Canary Islands and amending Royal Decree 630/2013



2.419 reptiles taxa included

Early Warning System (EWS)



68,0%

Alerts are direct calls to the EWS team

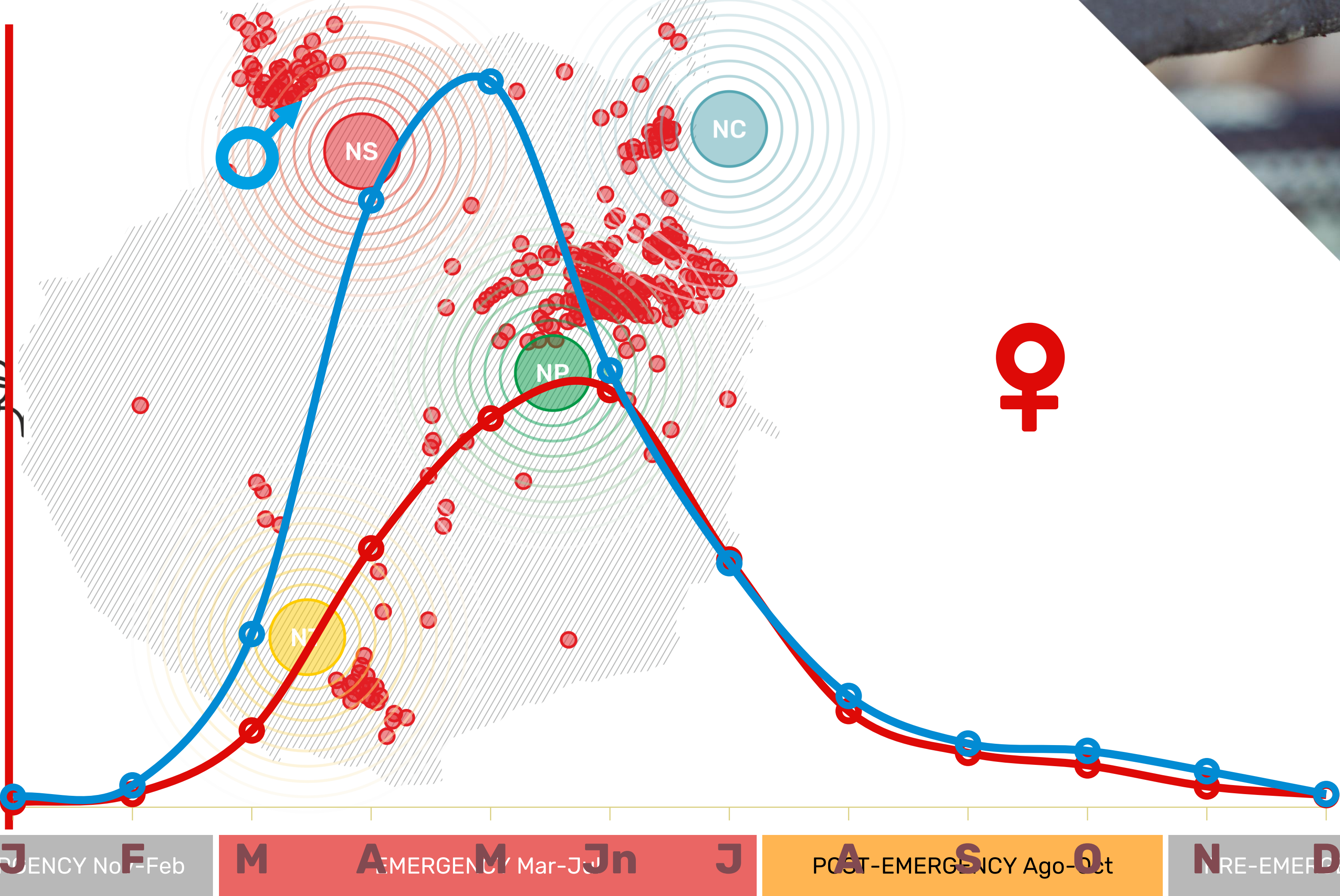
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www.stopculebrareal.com

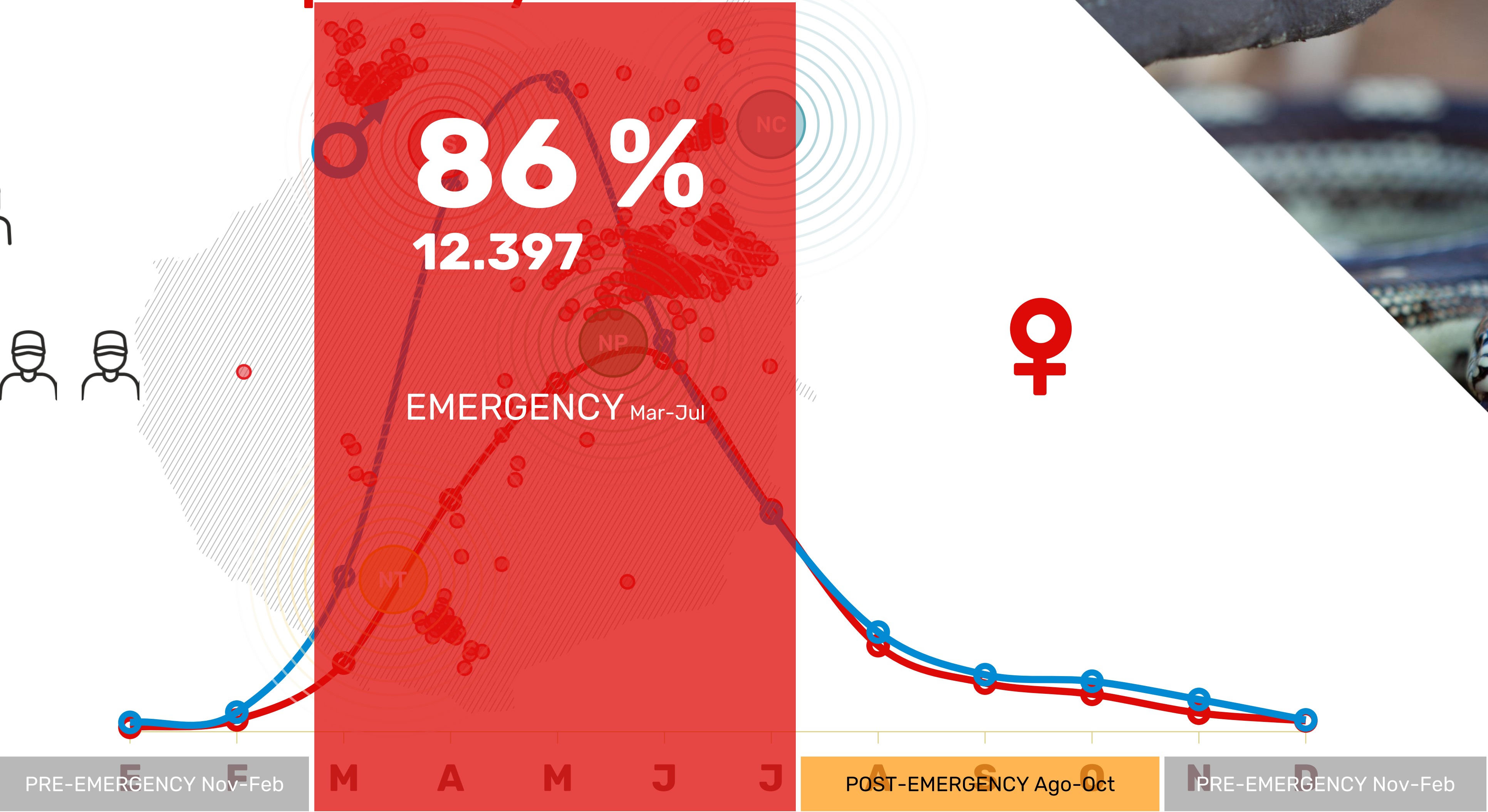
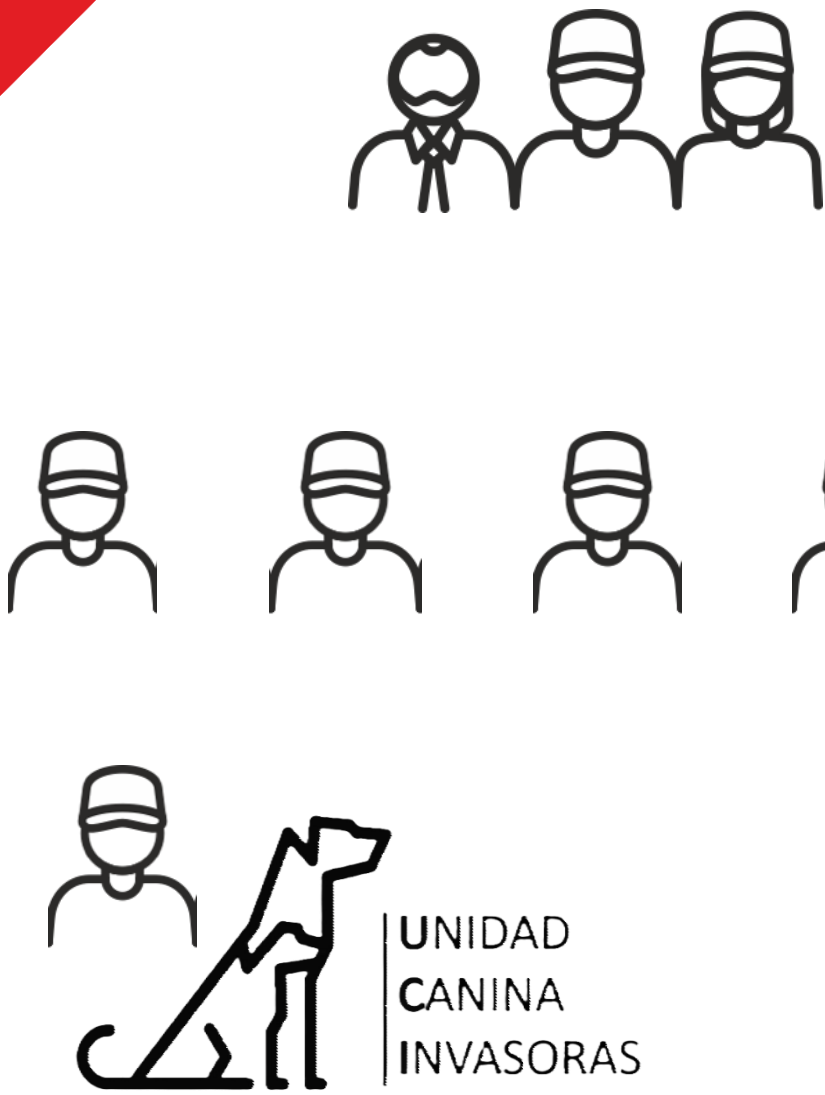
<https://gesplangis.es/arcgis/apps/opsdashboard/index.html#/9d46ff1b76c342f79f6a9ee1b3dc3688>



Captures by month and sex. 2009-2022



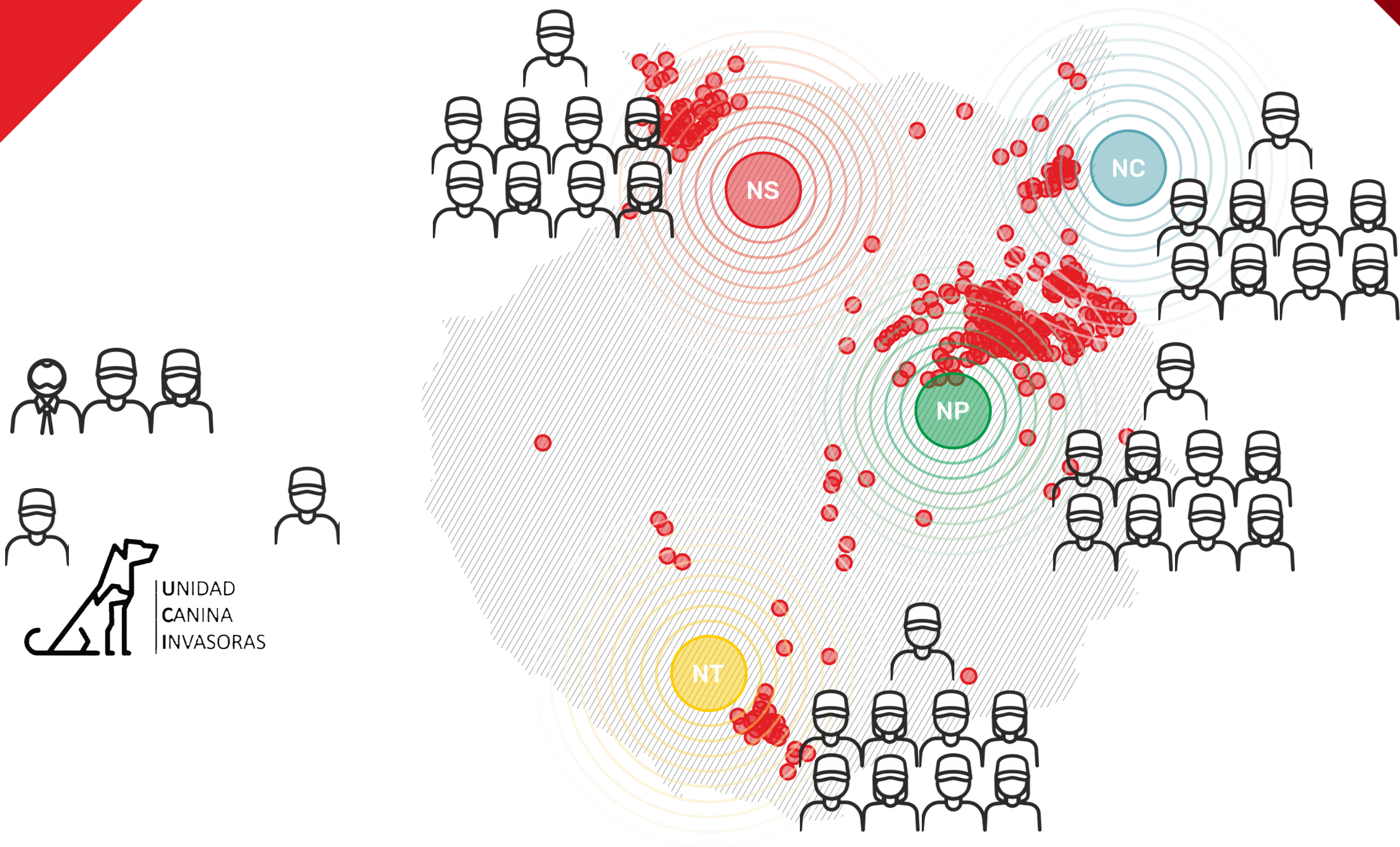
Captures by month and sex. 2009-2022



Control

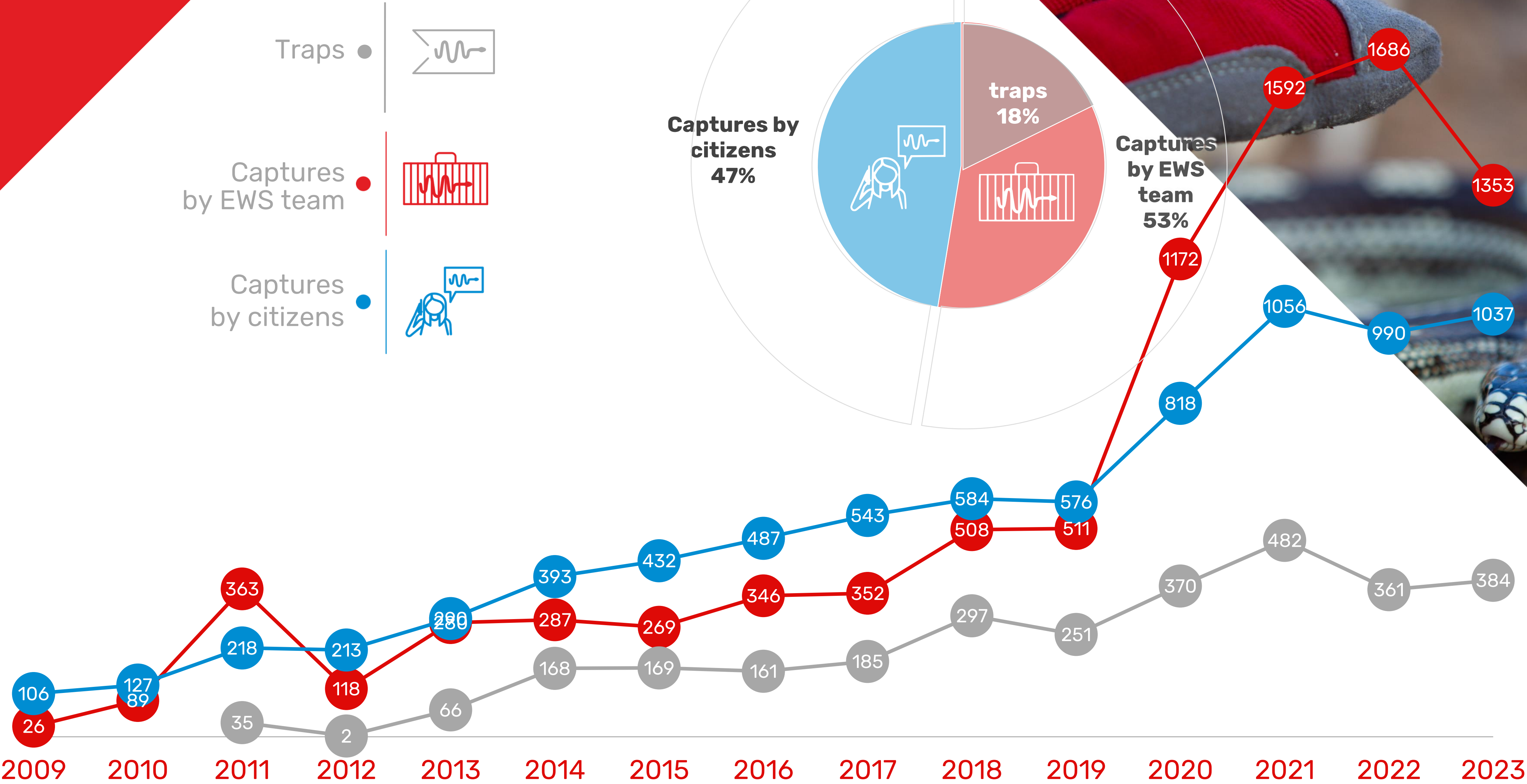
EMERGENCY Mar-Jul

86%



Monday to Sunday, mornings and afternoons

Control



Trapping methods

Traps ●



traps
18%

Improved trap selectivity

Experimental design for the quantification of the selectivity of different types of mechanisms in the capture of *Lampropeltis californiae*.



Risk analysis manual of trade in exotic species



Prevention

Early detection

Control / eradication

Difficulty of handling and increased costs



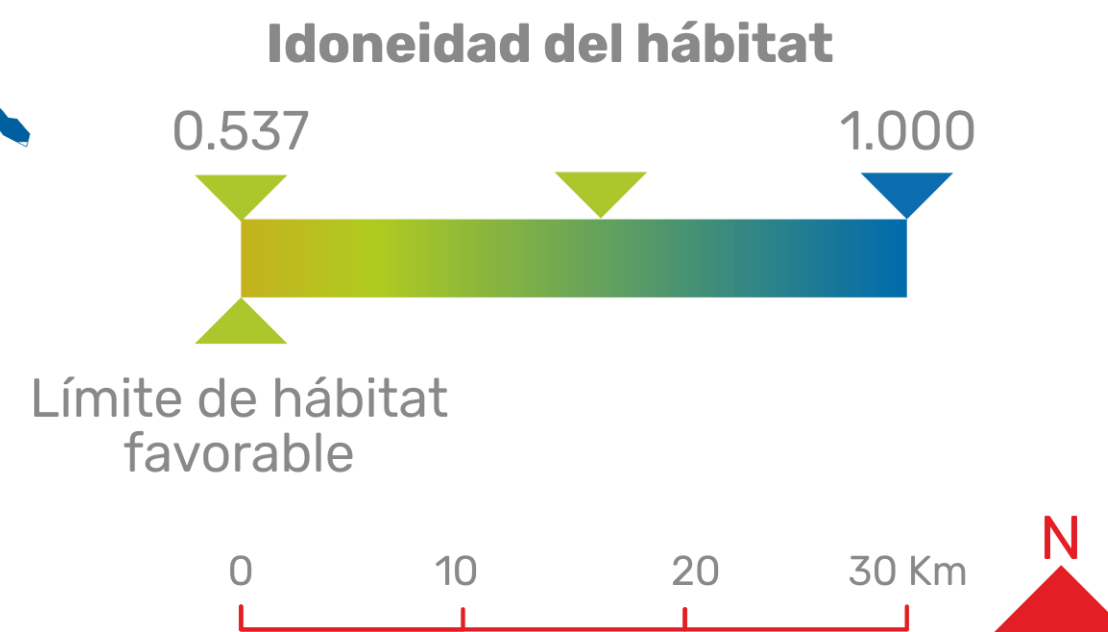
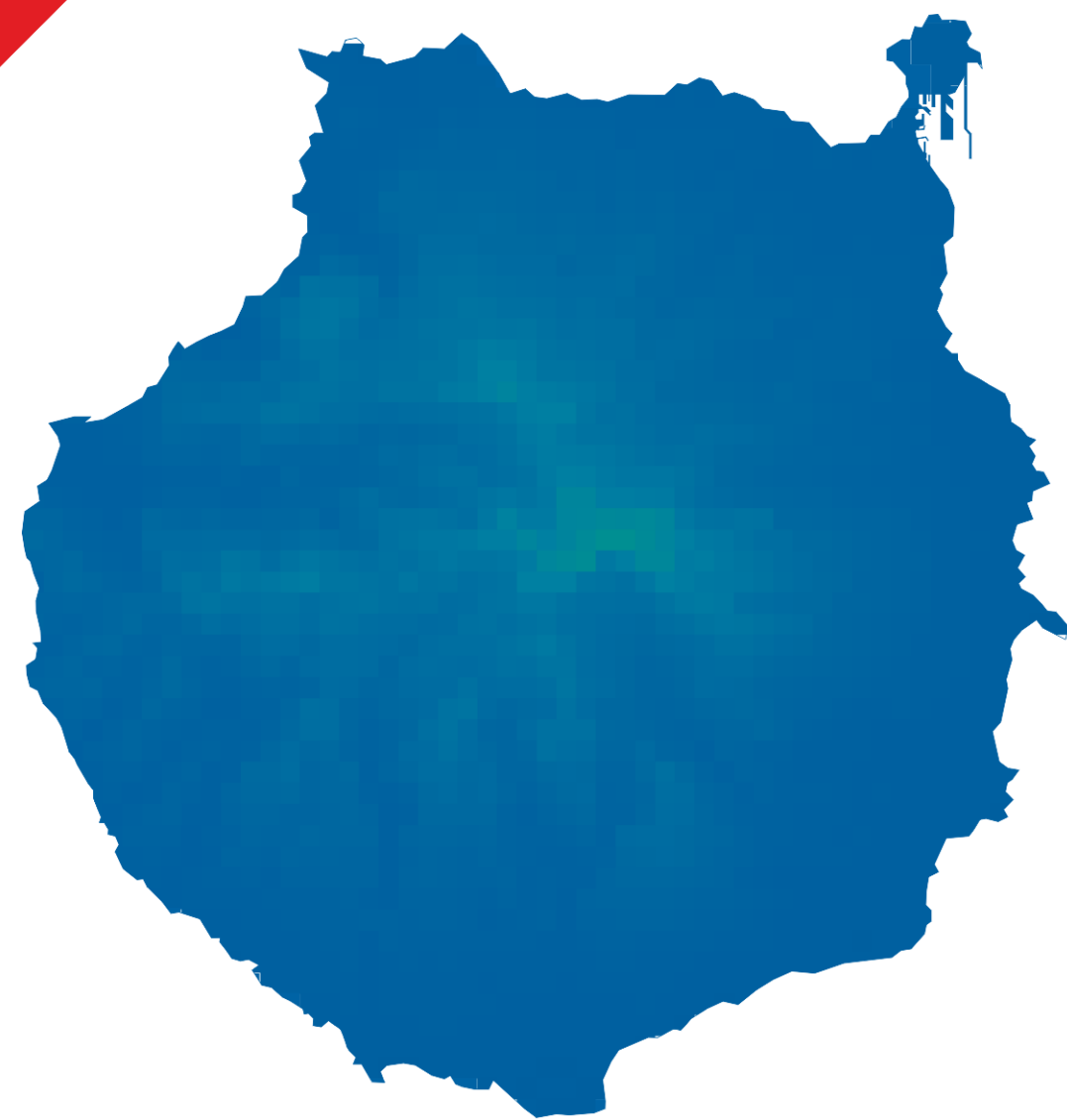
Ease of operation and cost reduction



Manual for risk analysis for trade in
exotic vertebrates. Rando 2014

RESEARCH

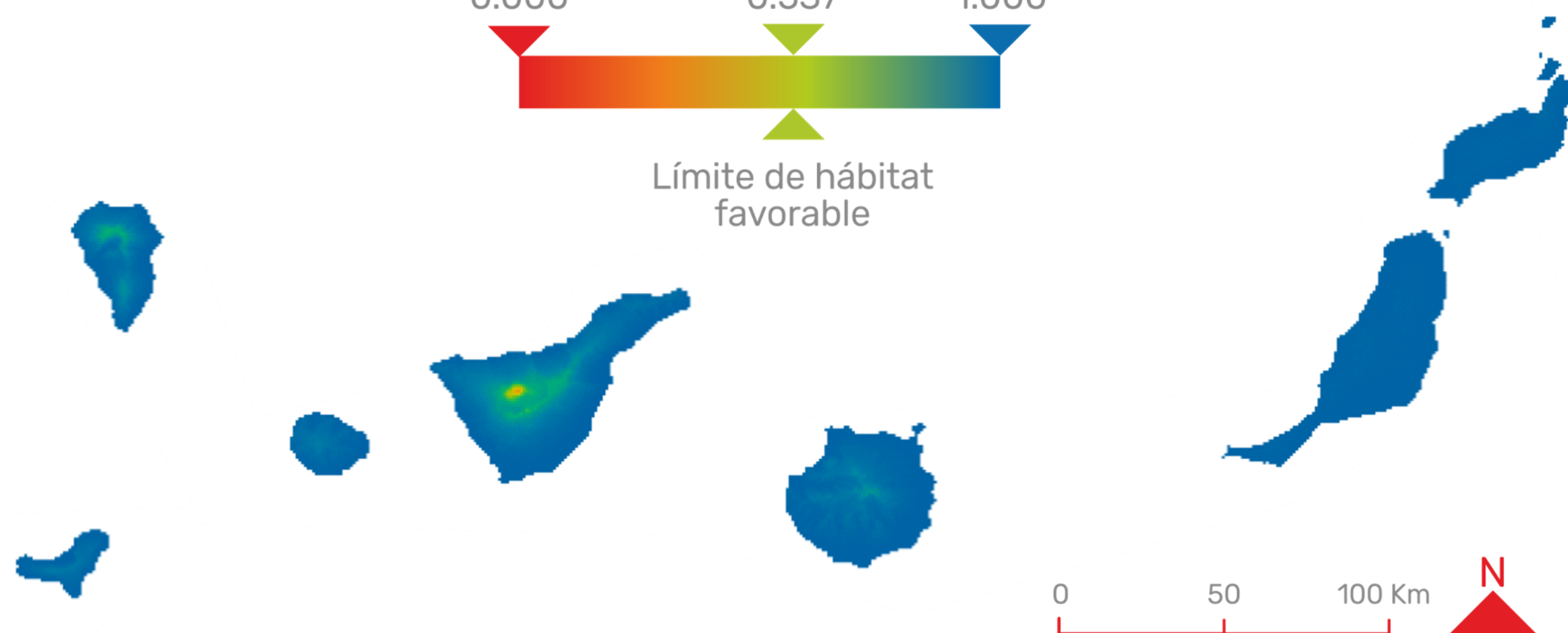
Climatic suitability



Over
90%
of the
archipelago
is suitable

100%
of Gran
Canaria is
climatically
favourable

Piquet et al. (2021)



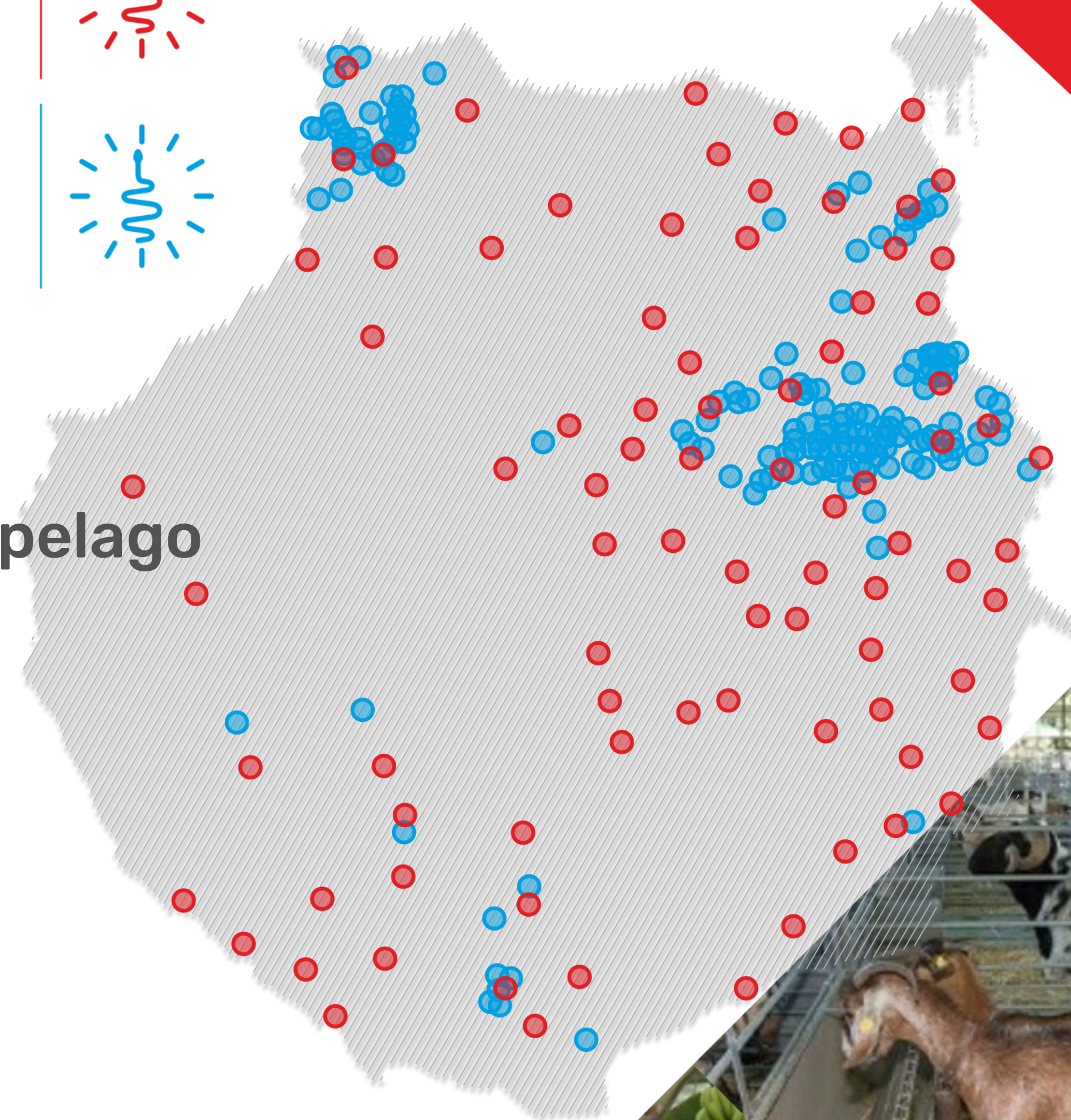


Biosecurity in Gran Canaria.

No natural (86)



Natural (825)



Biosecurity in the rest of the Canary Archipelago



86

encounters
between
2009-2019
did not
follow a
natural
dispersion
pattern

Romero &
López-Darías (2019)





Canary Islands Early Warning Network for Invasive Alien Species RedEXOS

Canary Islands Decree 117/2020



www.redexos.com

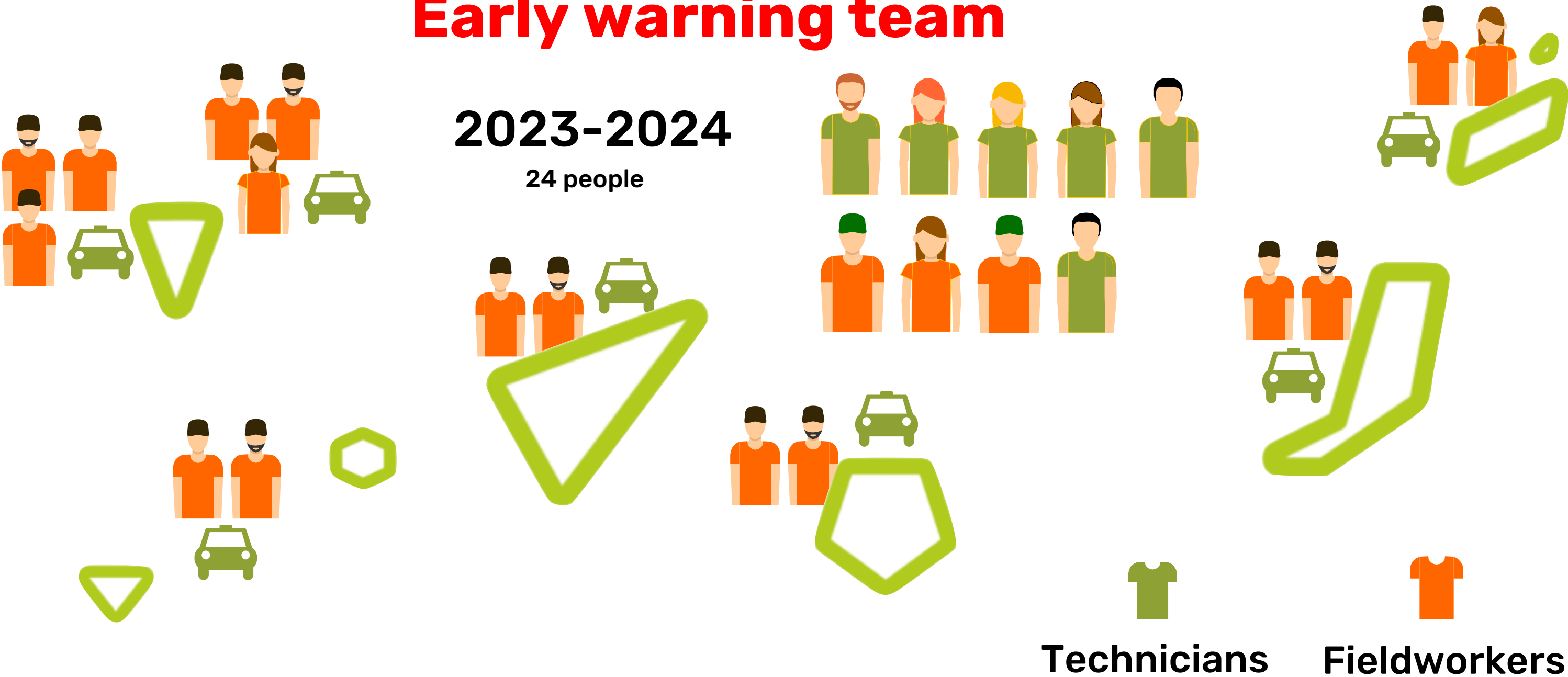
Purposes

Location, identification, analysis, control or eradication of **new outbreaks or populations** of IAS.

Collect and coordinate **information** on IAS (catalogued or with invasive potential).

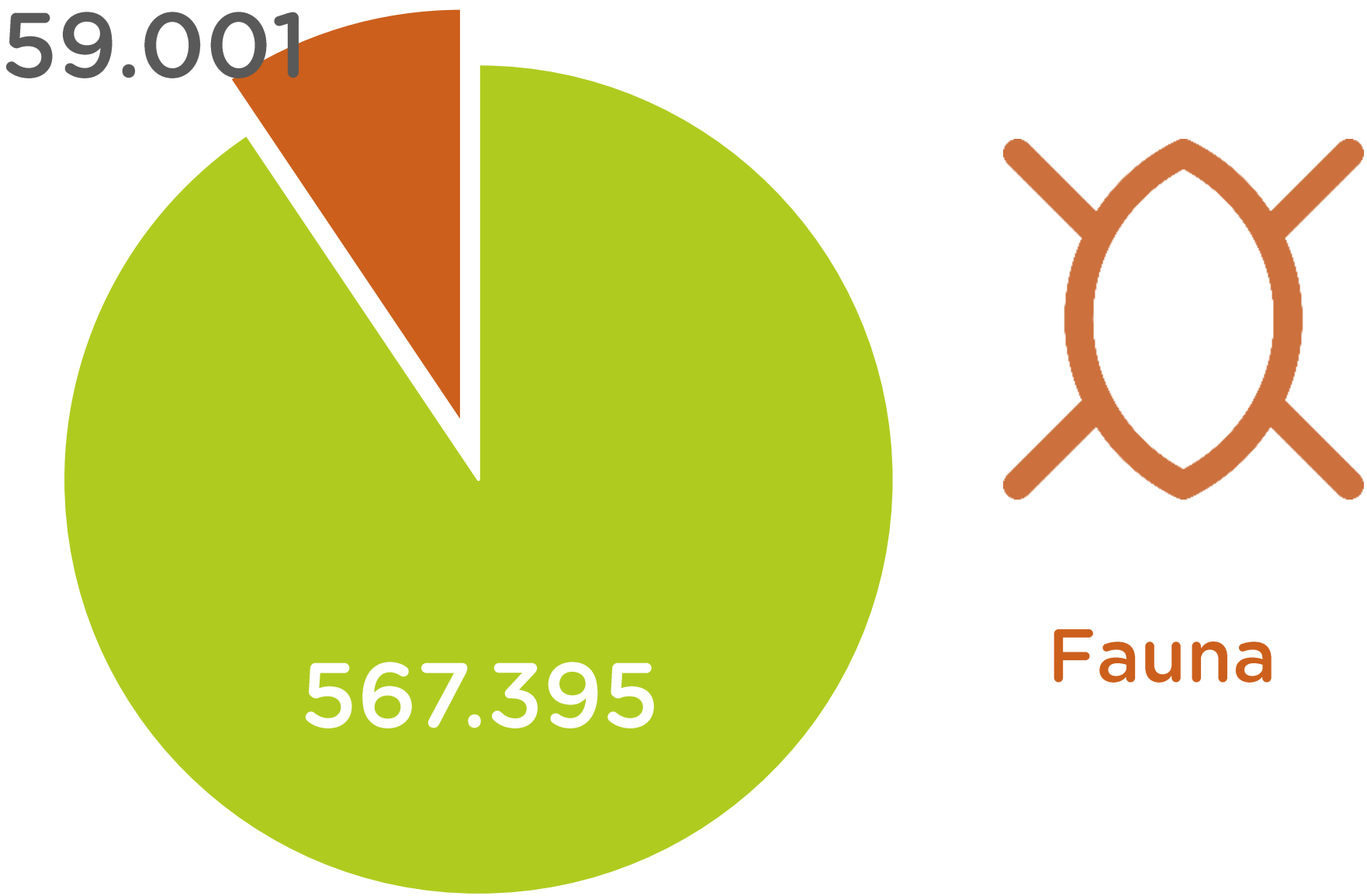
Early warning team

2023-2024
24 people

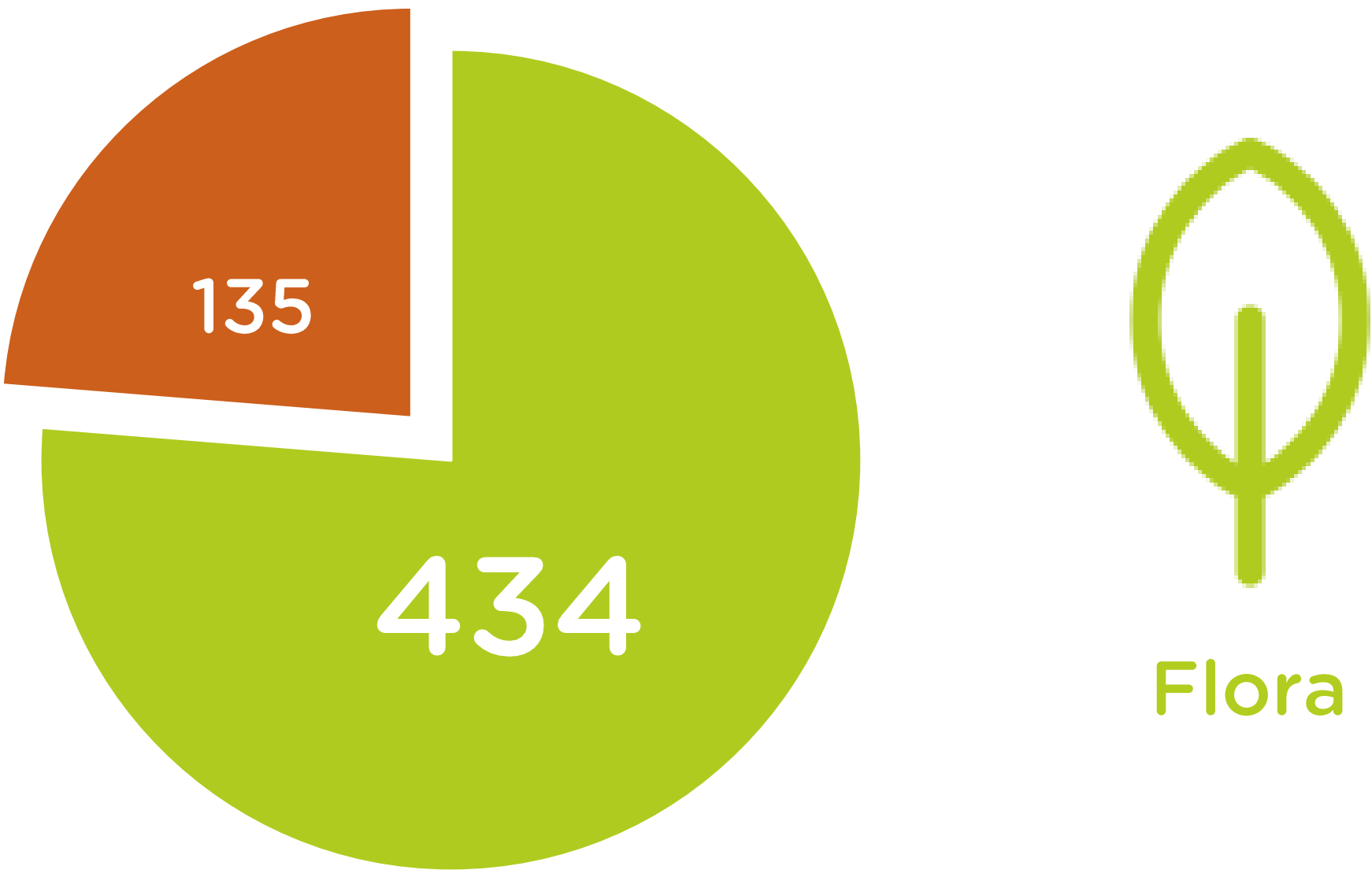




**captured and extracted specimens
2020-2023**



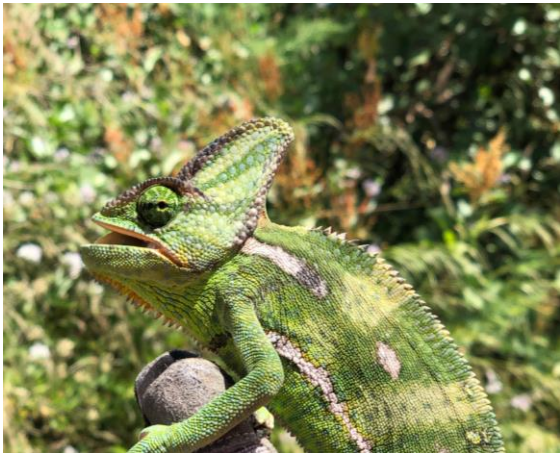
Taxa 2020-2023



6.146
Cuban green anole
Anolis porcatius



167
Veiled chamaelon
Chamaeleo calyptratus





Russell

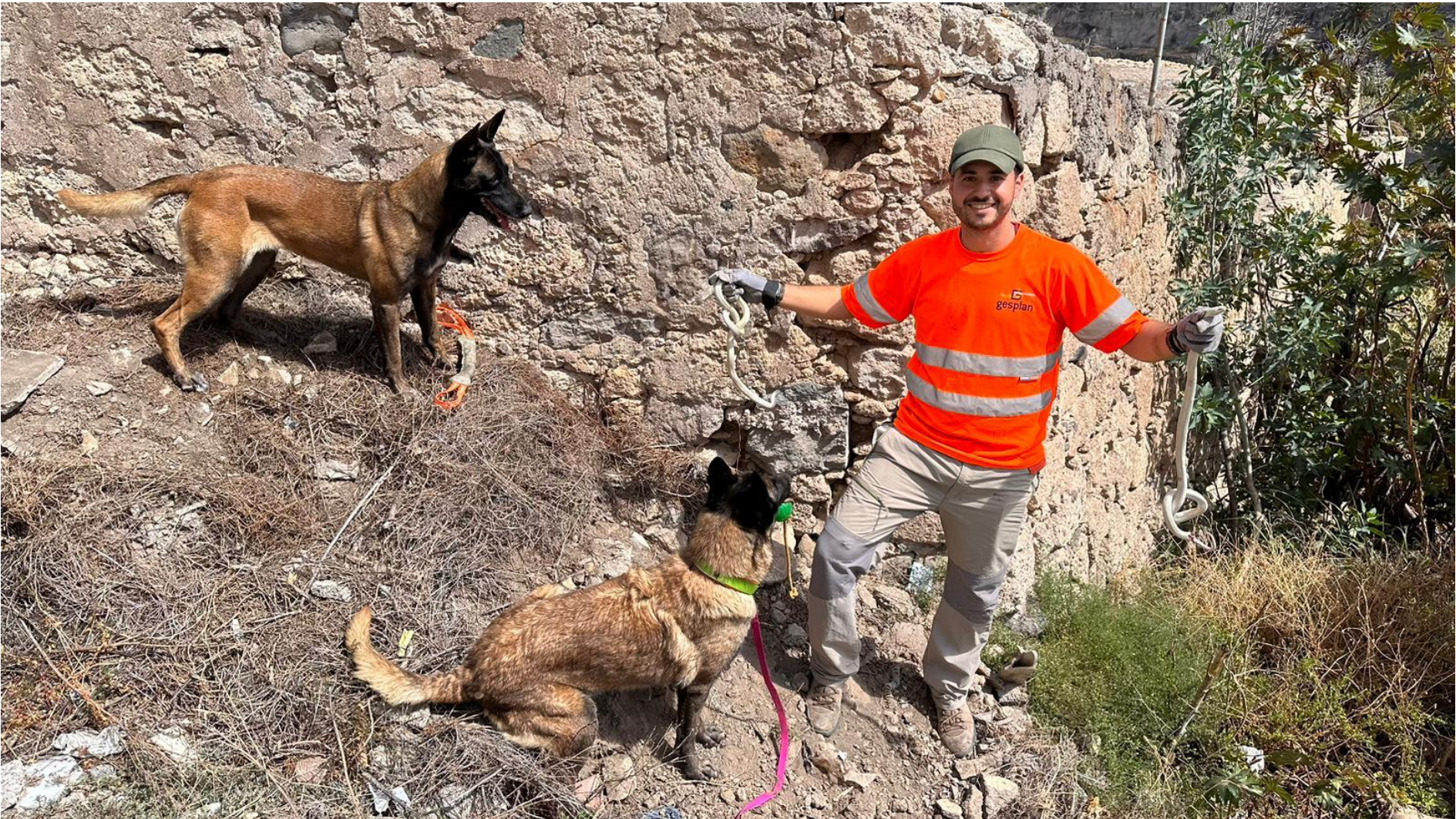
Mamba

Goku

Dubai

California kingsnake, veiled chameleon, brown squirrel and ball python







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DE CIENCIA, INNOVACIÓN
Y UNIVERSIDADES



CSIC



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