

Relevant findings from the EURAPMON raptor monitoring inventory

Al Vrezec, Maja Derlink, Chris Wernham,
Irena Bertoncelj, András Kovács, Pertti Saurola,
Guy Duke, Paola Movalli



EURAPMON

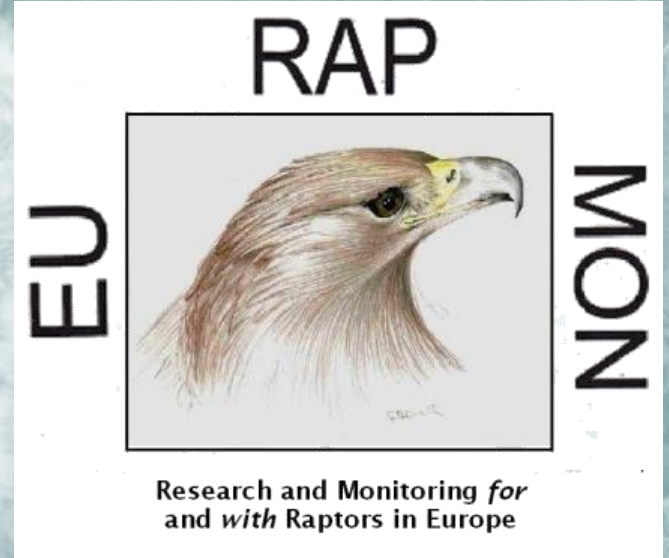
- What is EURAPMON?

EURAPMON

Research & monitoring *for*
and *with* raptors in Europe

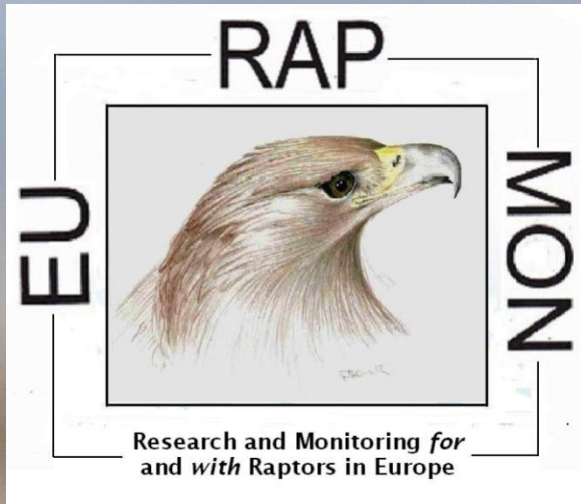
2010 - 2015

www.eurapmon.net



EUROPEAN
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BIRD STUDY, 2018

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 OPEN ACCESS



A review of raptor and owl monitoring activity across Europe: its implications for capacity building towards pan-European monitoring

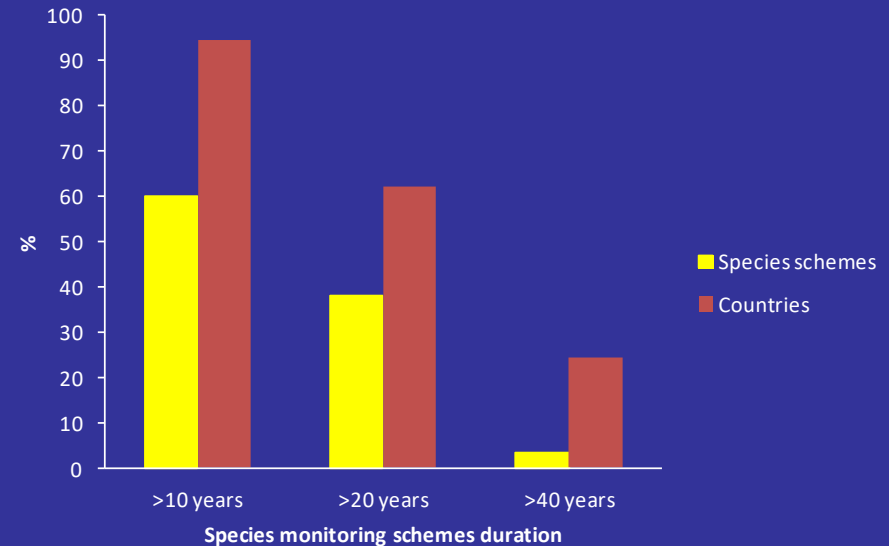
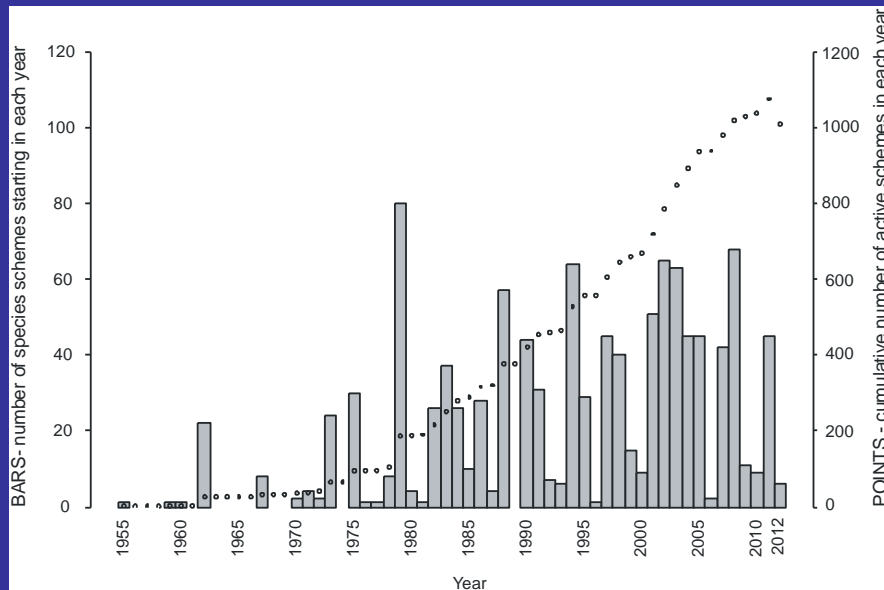
Maja Derlink^a, Chris Wernham^b, Irena Bertonec^c, András Kovács^d, Pertti Saurola^e, Guy Duke^f, Paola Movalli^g and Al Vrezec^a

August 2018



Inventory of existing monitoring activities for raptors

Questionnaire on the monitoring for raptors (236 programs, 1196 schemes, 37 countries)

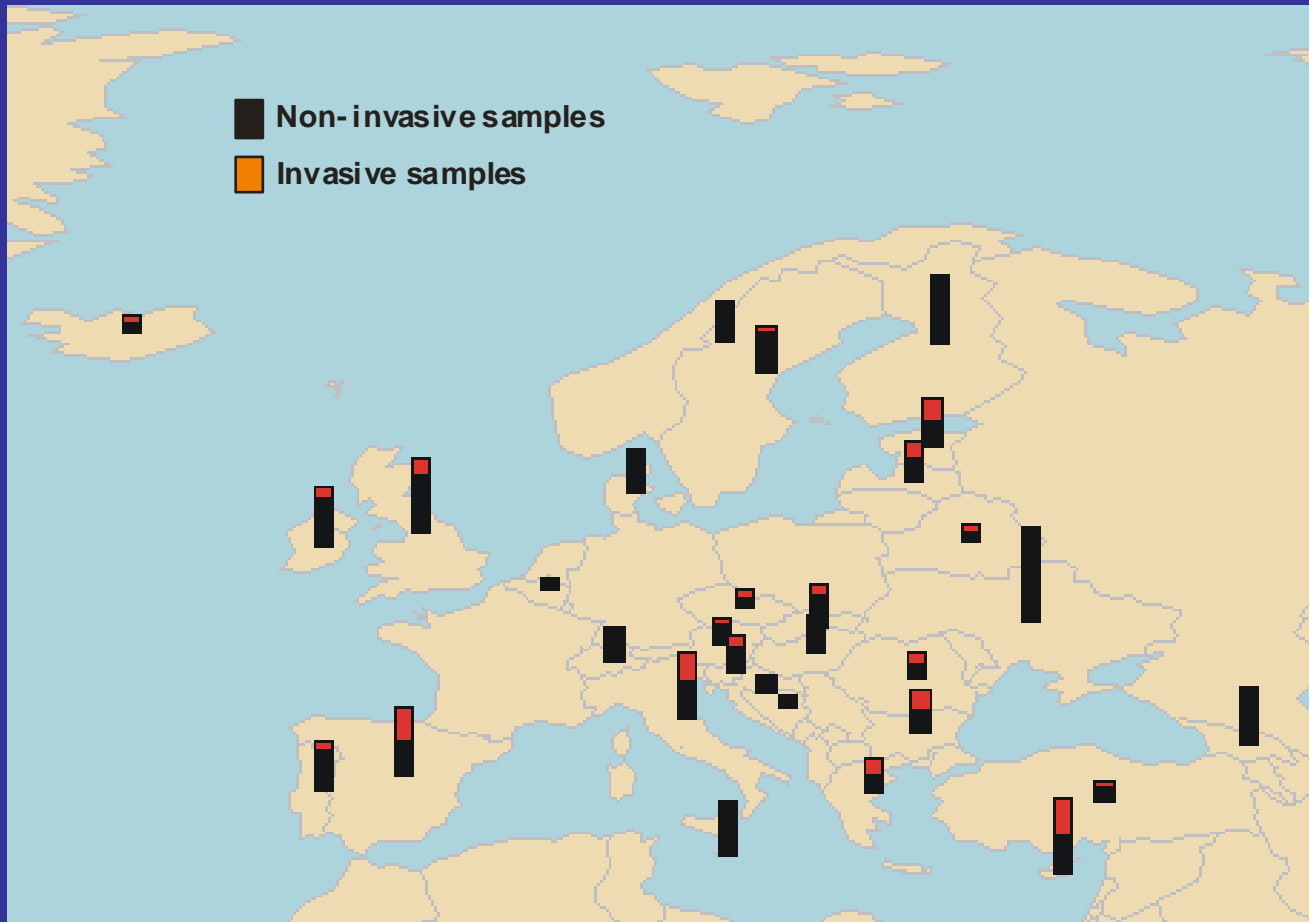


Number of active species schemes and their establishment per year (N = 1196)

Duration of active species schemes

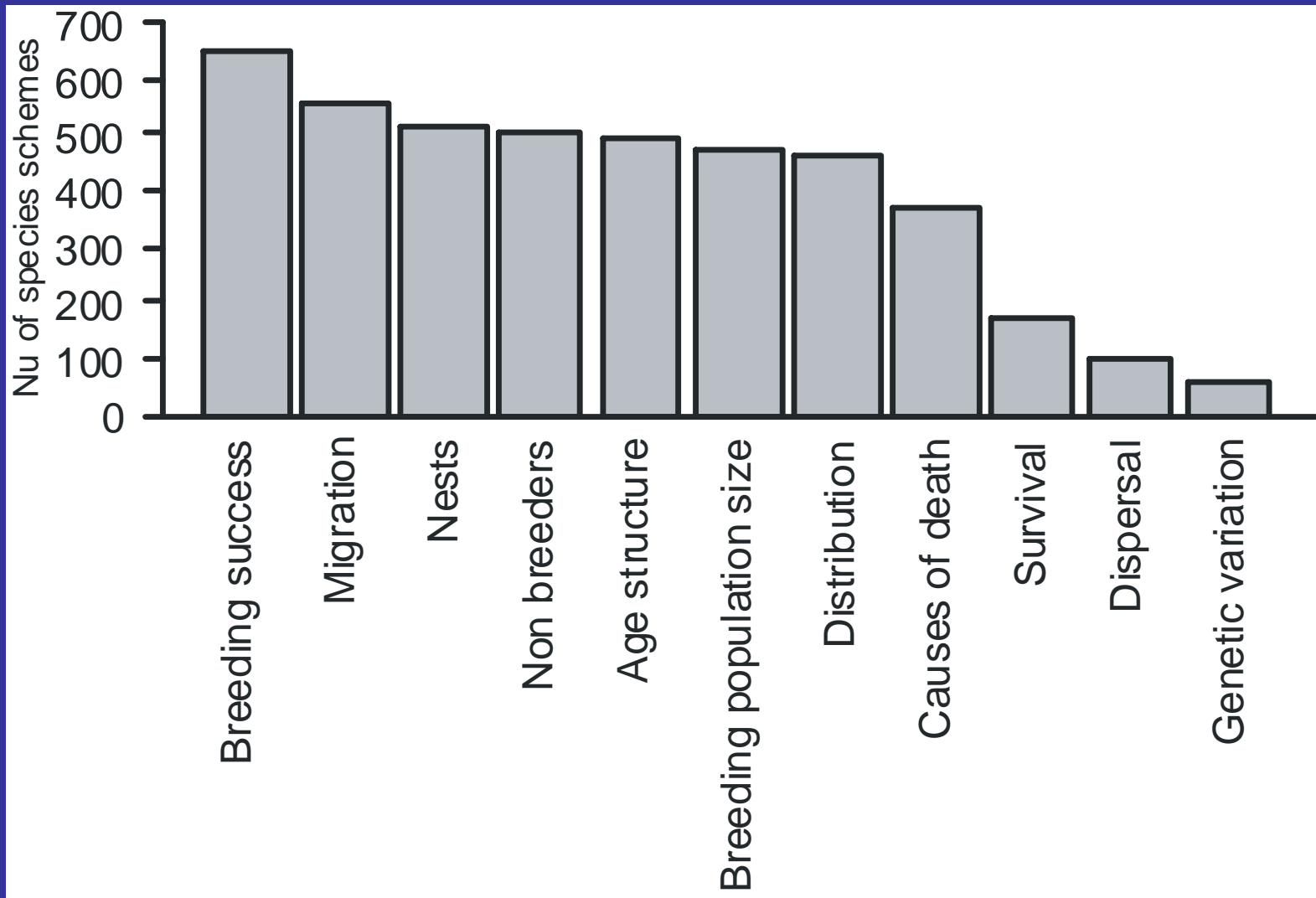
Mean duration: 18.4 ± 12. years

Material sampling



Numbers of raptor population monitoring species schemes per country which collect any samples of invasive and non-invasive biological material.

Contextual data



Number of European raptor monitoring species schemes in which different contextual data are gathered and monitored.

Species monitored



Falco peregrinus
(N=52)



Falco tinnunculus
(N=52)



Buteo buteo
(N=50)



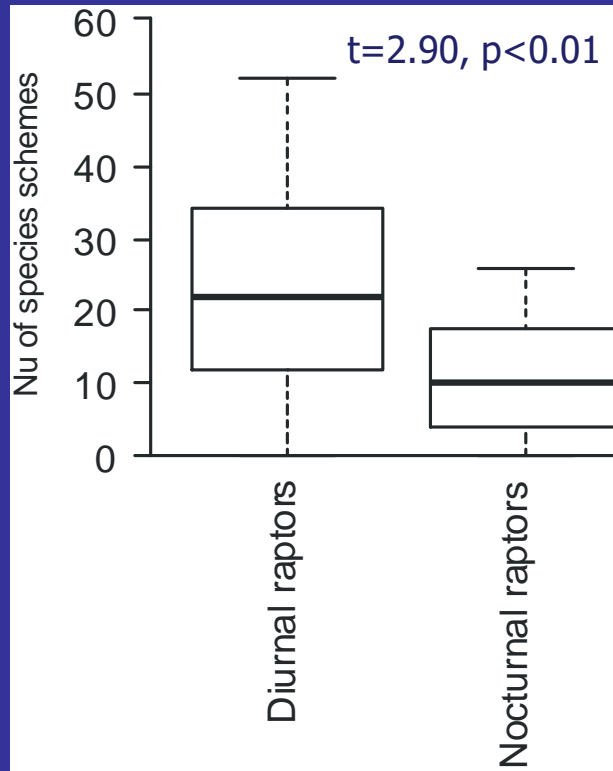
Strix aluco
(N=26)



Bubo bubo
(N=24)



Asio otus
(N=24)



Proof of concept species selection

1. Europe-widespread species
2. Good contaminant indicator species
3. Easy access to different and appropriate matrices
4. Easy access to the needed amount of samples
5. Well defined specimens origin
6. Good access to high quality contextual data (good population monitoring coverage)

Potential priority species



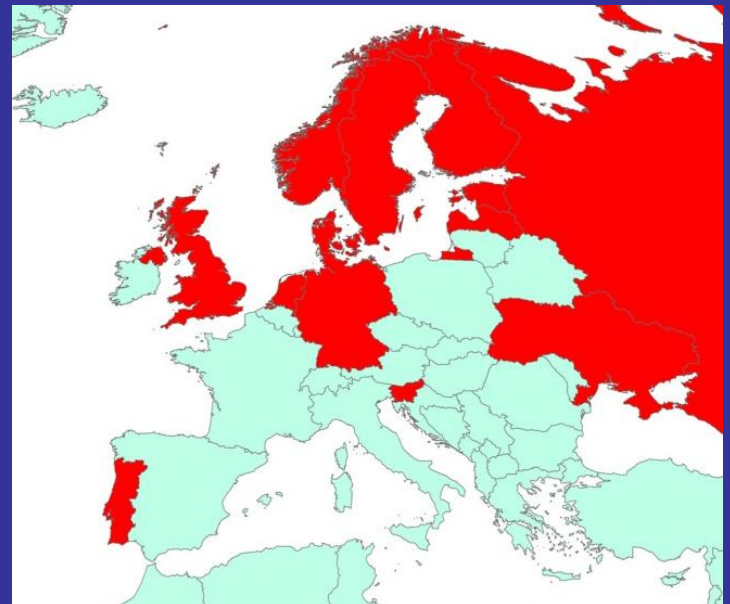
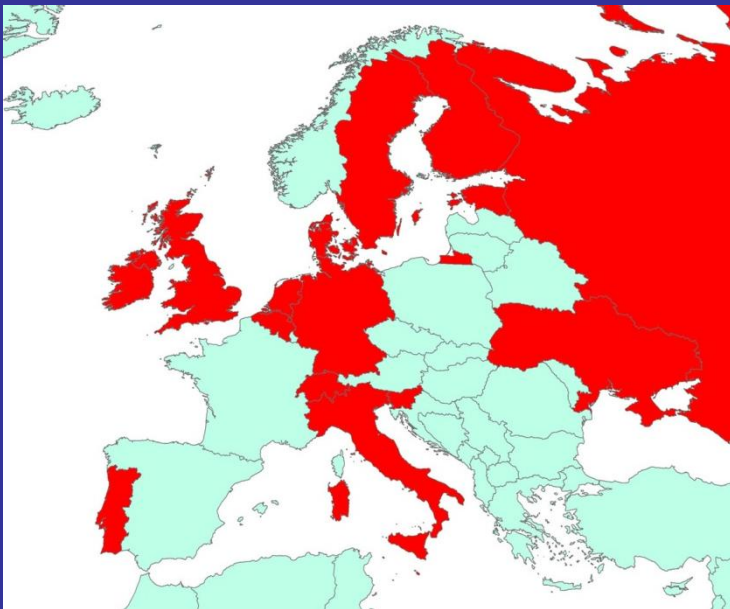
Buteo buteo

No. schemes: 50
No. countries: 16
Breeding range coverage: 38 %

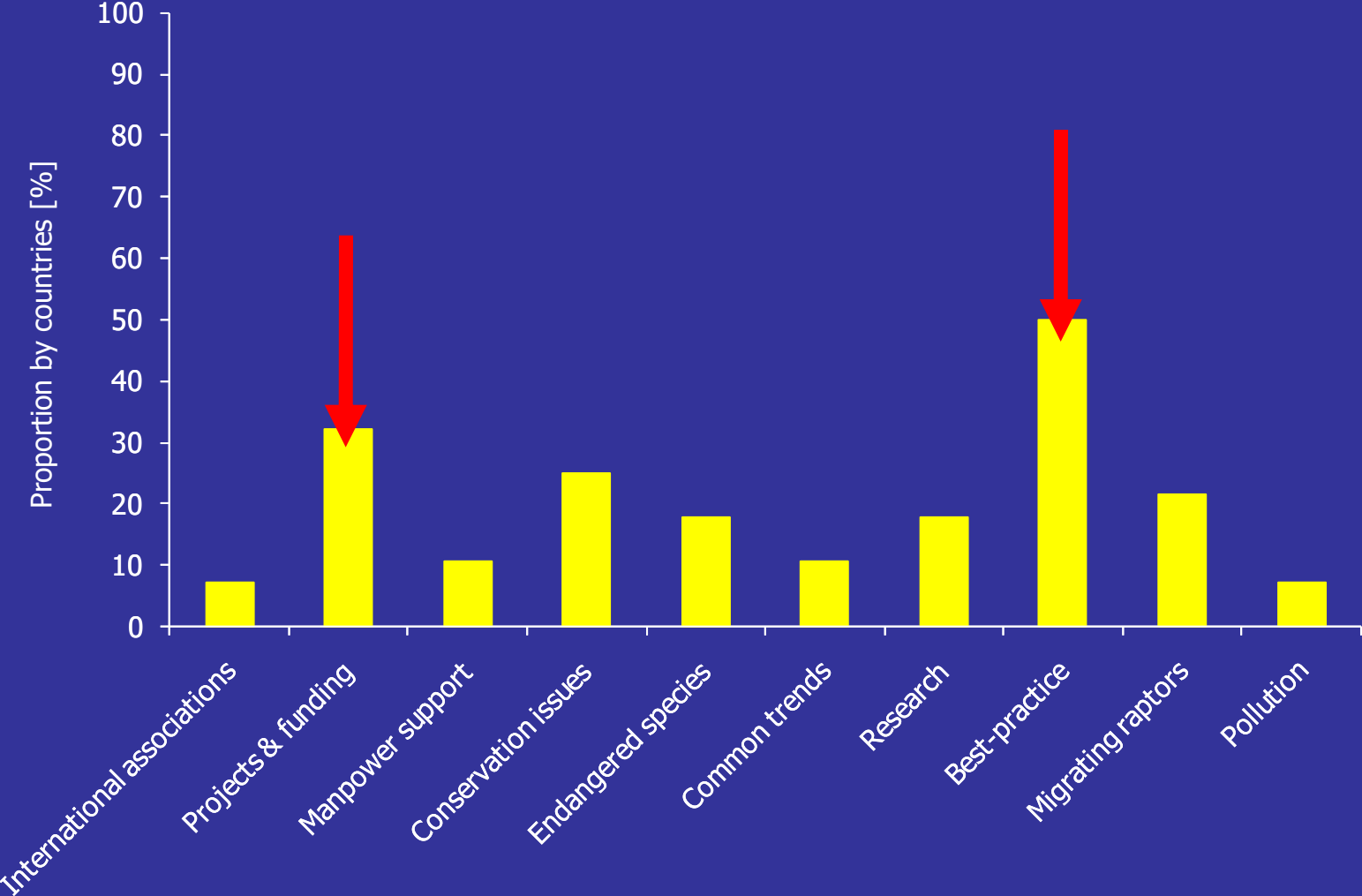


Strix aluco

No. schemes: 26
No. countries: 13
B. range coverage: 32 %



Benefits from international networking





Review of raptor ringing in Europe: preliminary results

Al Vrezec, Jari Valkama, Abigail Maiden, Chris Wernham



Inventory of raptor ringing activity in Europe



COST ERB Facility Programme

Short Term Mission holder: Abigail Maiden (UK)

Host supervisor: Dr Jari Valkama (Finland)

Scientific collaborators: Dr Chris Wernham (UK), Dr Al Vrezec (Slovenia)

Questionnaire for basic data collection from EURING ringing schemes

Raptor ringing review

SurveyMonkey

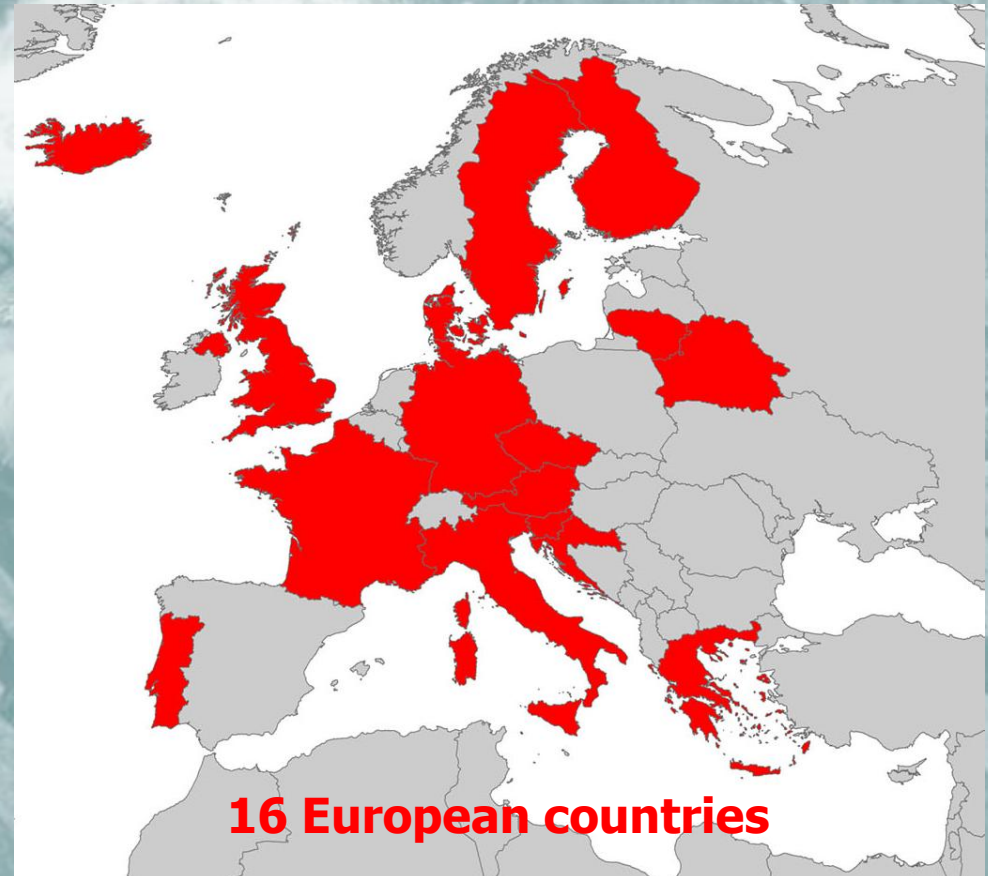
⊕ PAGE TITLE

1. Country

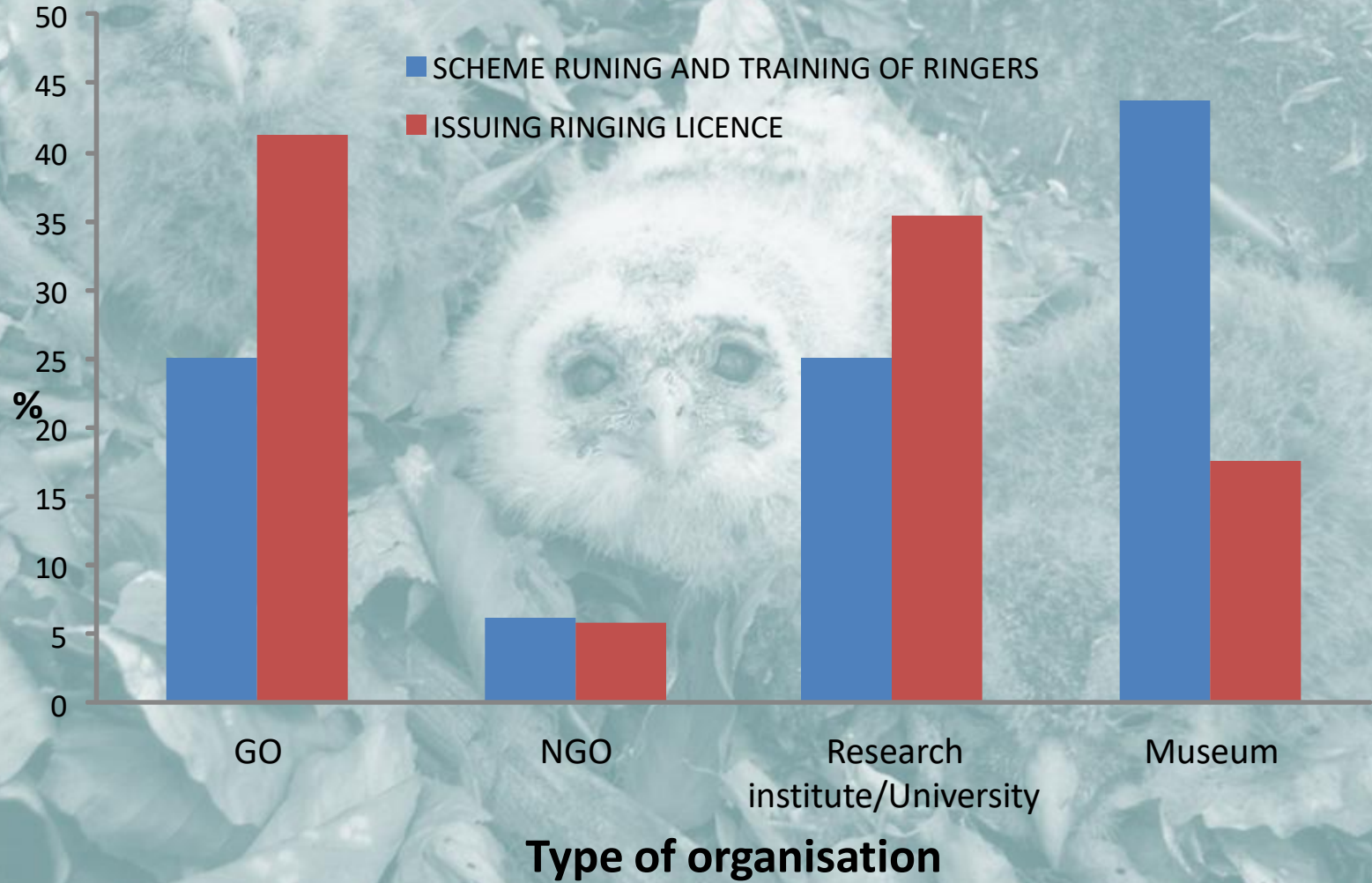
2. Ringing scheme

3. Organisation running the ringing scheme

4. Main contact

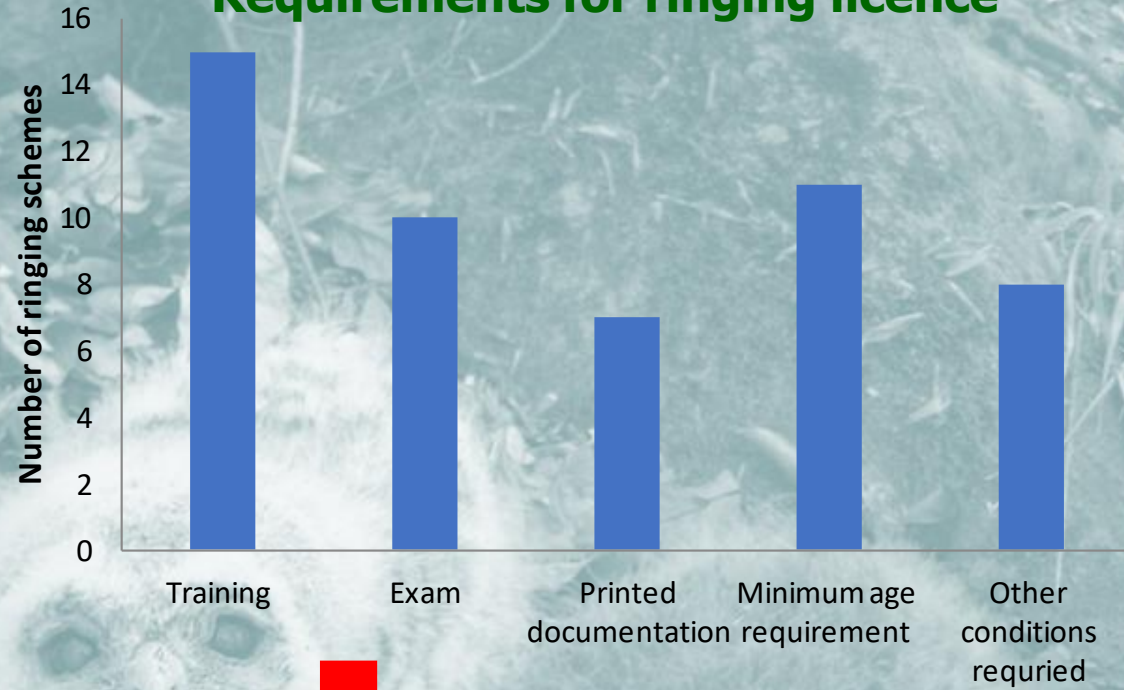


Ringling scheme running and licence issuing



Training of ringers

Requirements for ringing licence



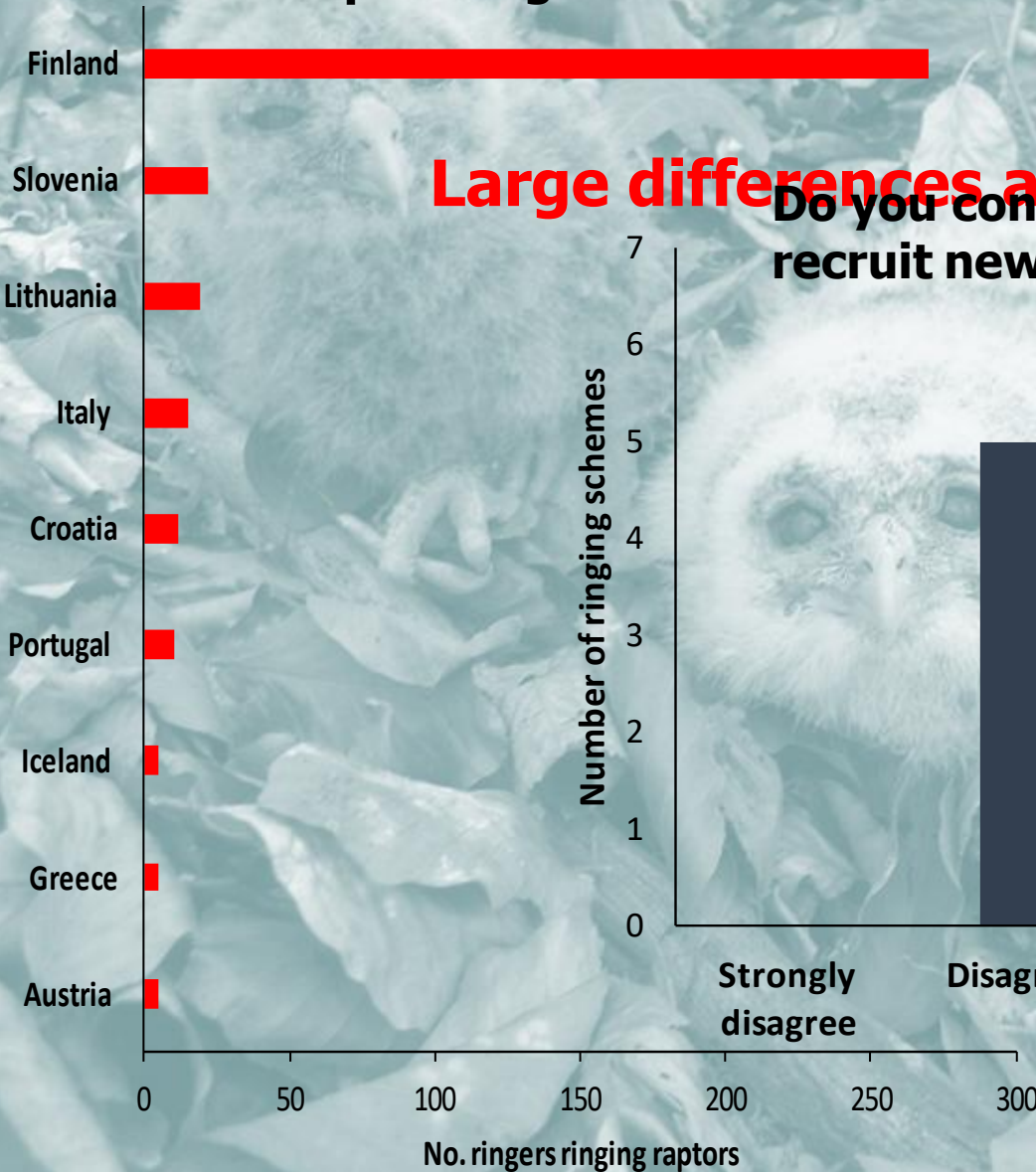
Time for training of ringers



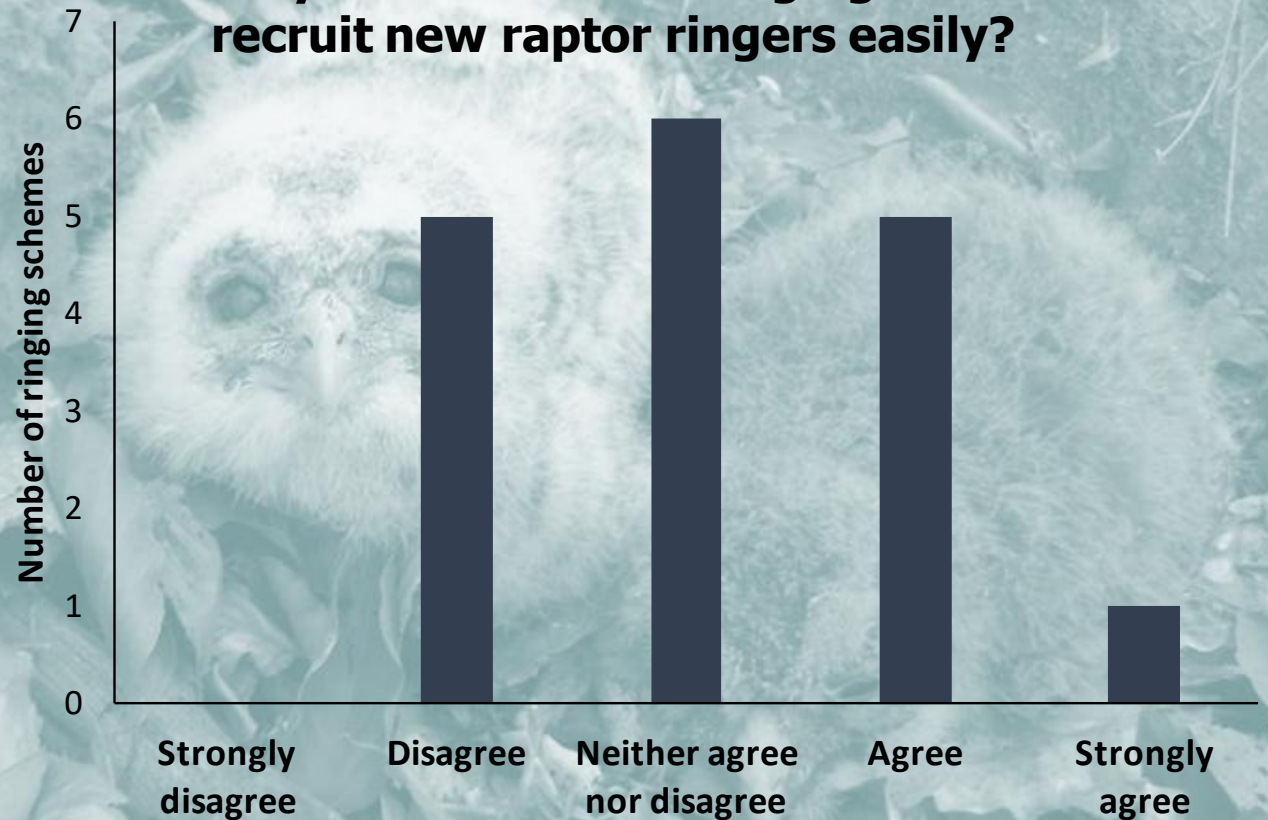
Requirements for ringing permit

Capacity building for raptor ringing

No. raptor ringers in 2018



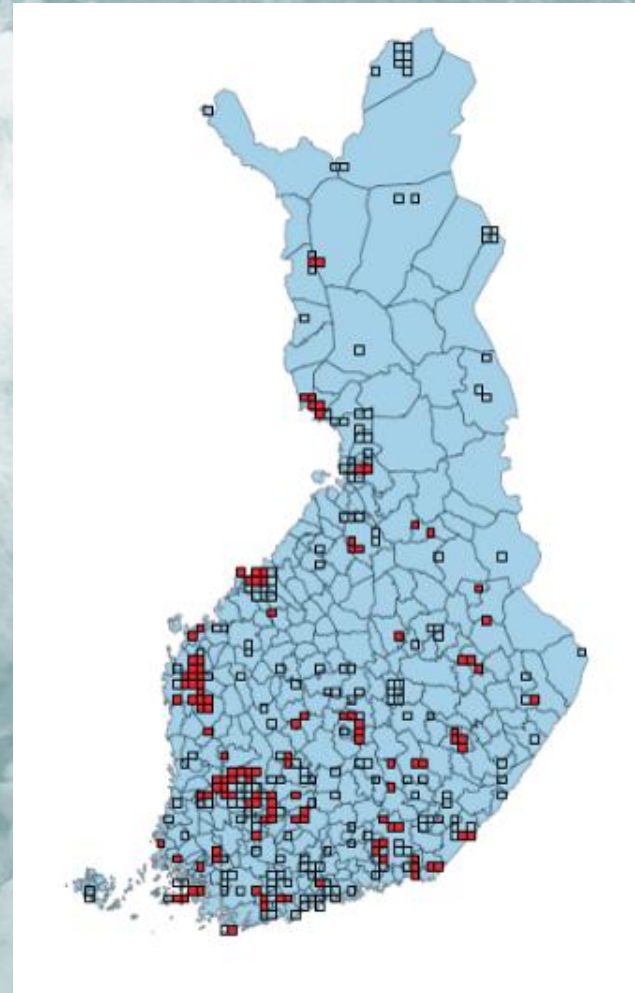
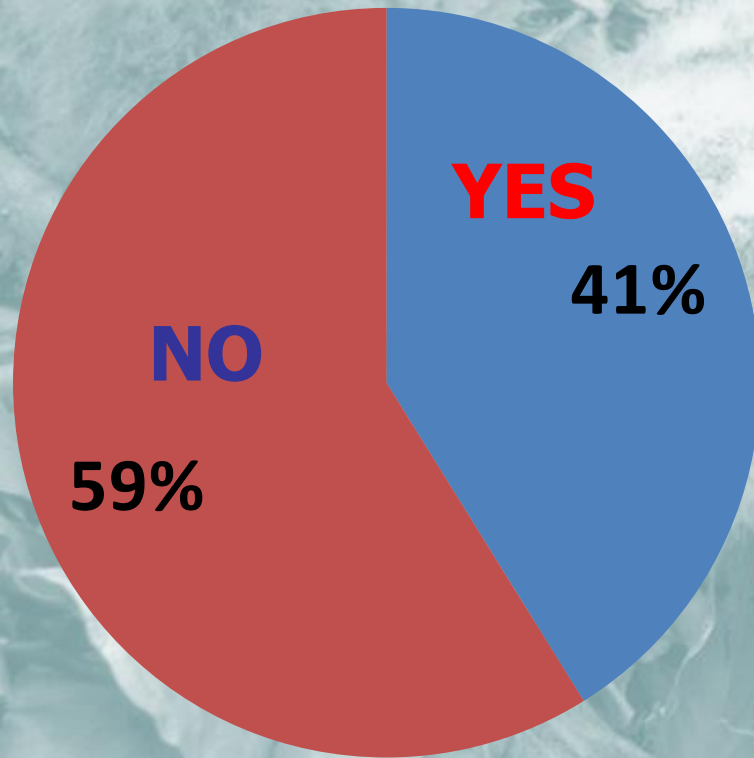
Large differences among ringing schemes!
Do you consider the ringing scheme able to recruit new raptor ringers easily?



Organisation of raptor ringing

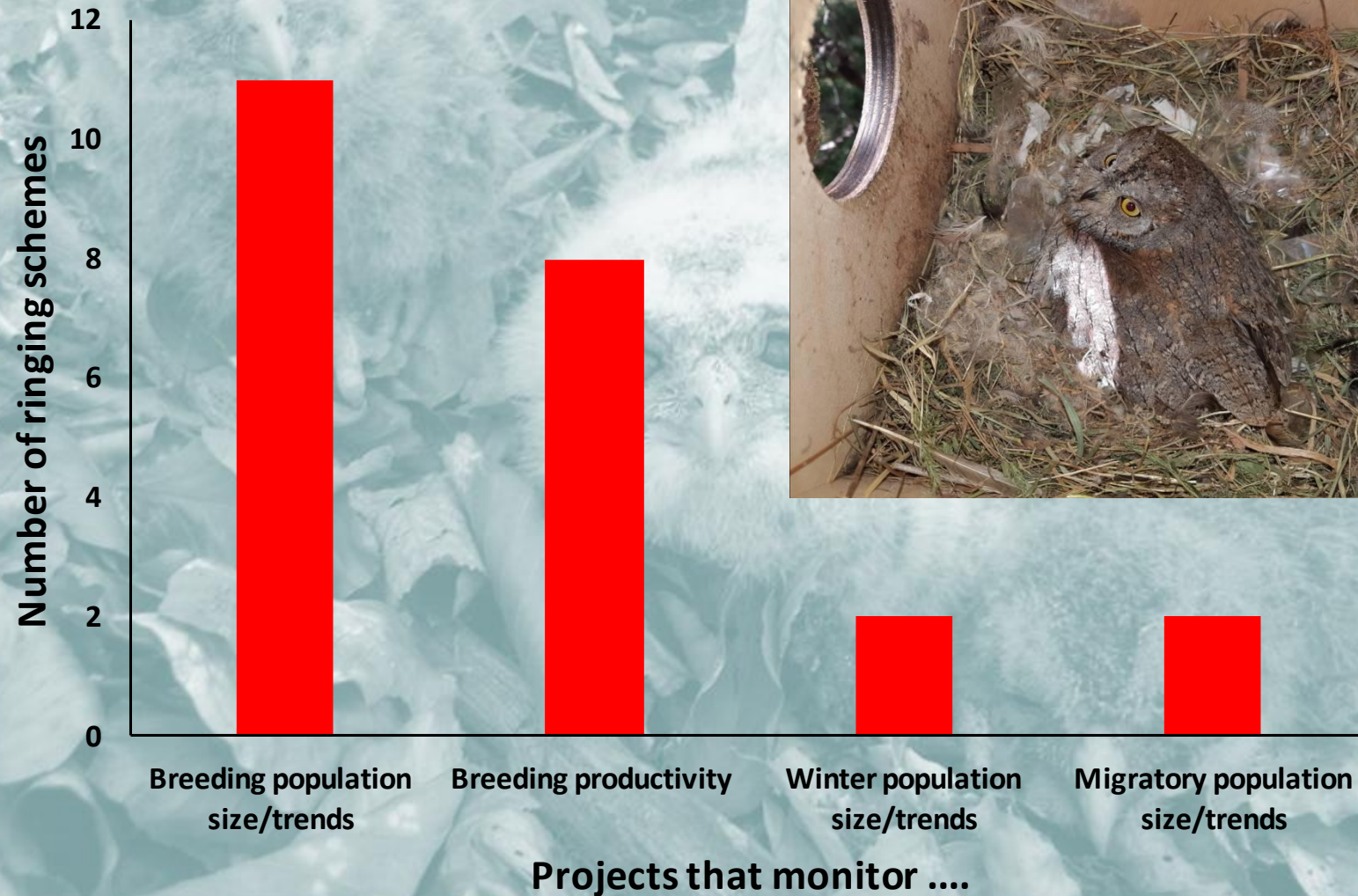
Does the ringing scheme currently run a standardised ringing project (s) for any raptor species?

Finnish Raptor Grid Network



Outcomes of raptor ringing

Within the organisation that runs the ringing scheme, do you also run projects that monitor raptors?



Buteo buteo



Raptors ringed

2012-2017

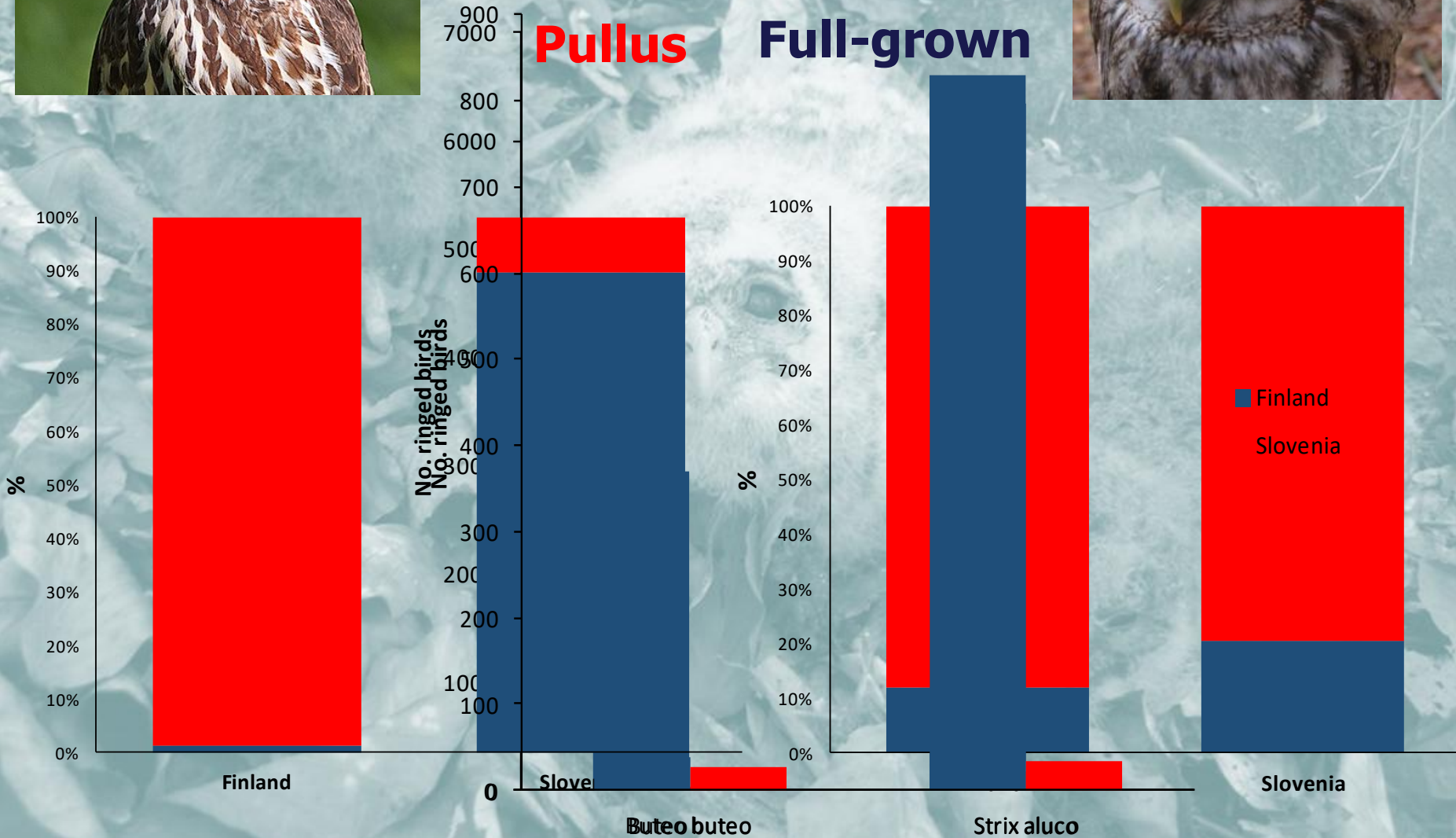
Finland : Slovenia

Strix aluco



Pullus

Full-grown



Collecting samples



Other

I do not know

Nest materials

Pellets/prey items

44%

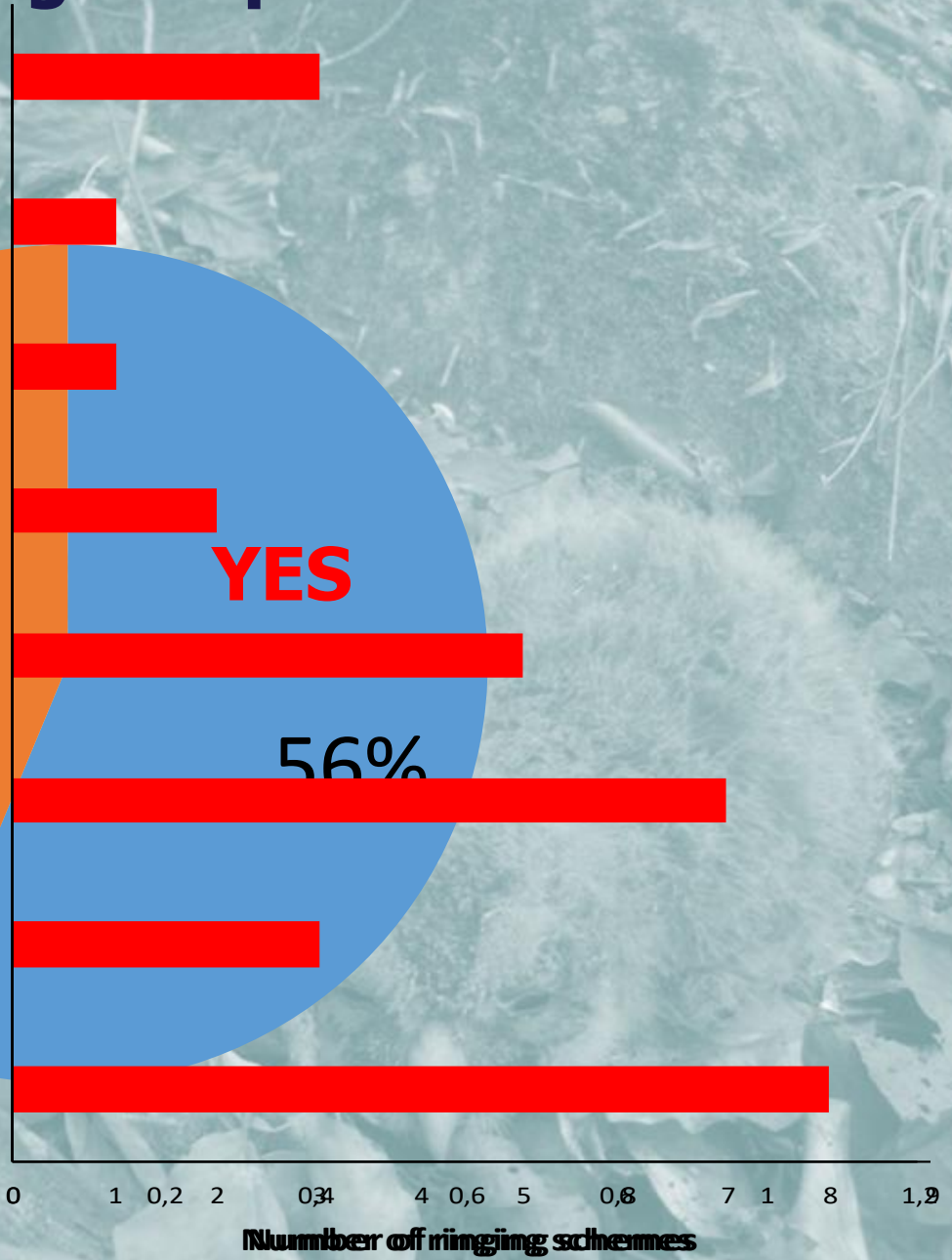
Eggs

NO

Feathers

Blood samples

Carcass/tissue samples



Response from EURING General Assembly

Zrenjanin (Serbia), 9-13 September 2019

To enhance raptor ringing in Europe a good best practice guidance is needed!



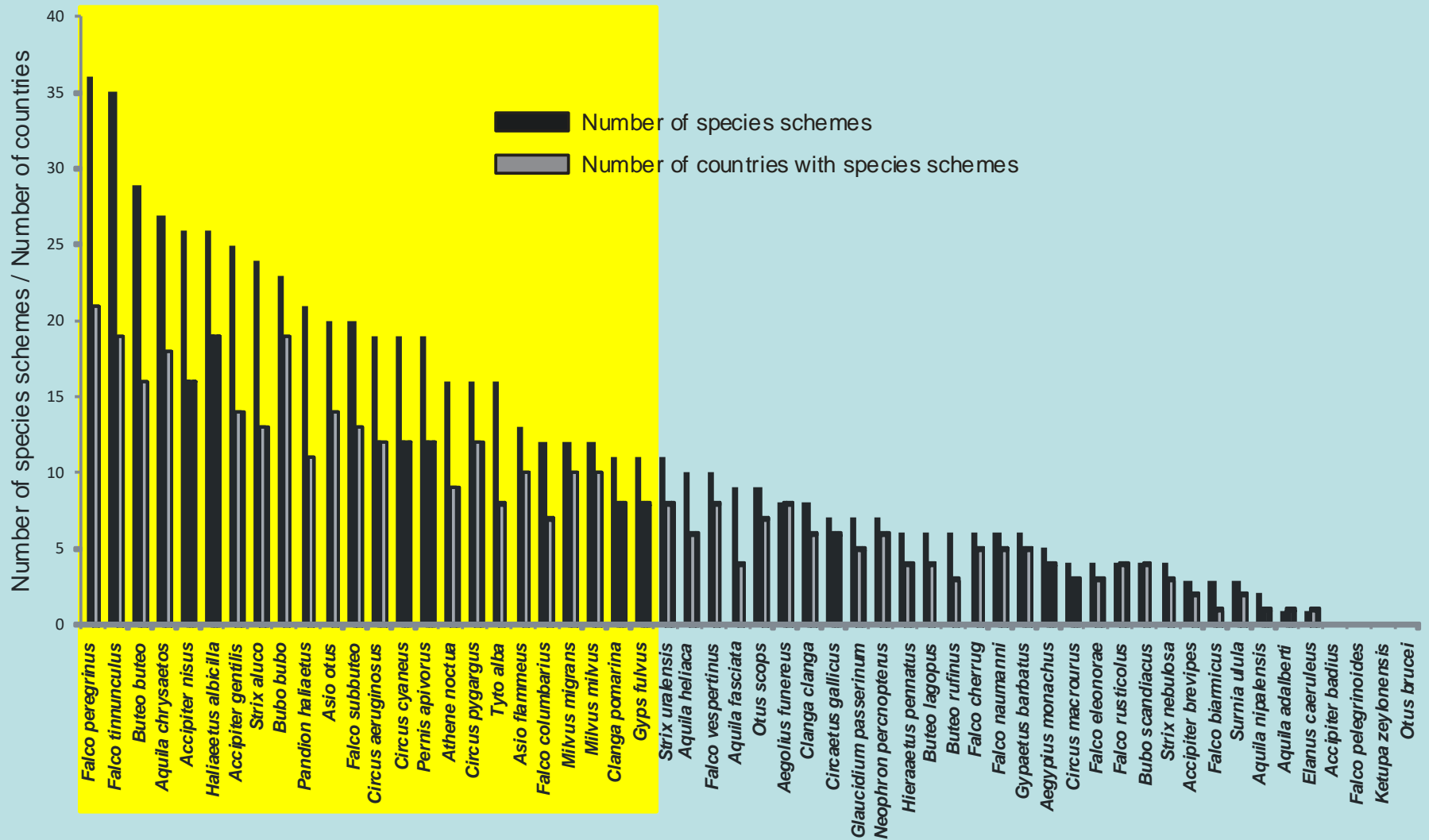
EURING

The European Union for Bird Ringing

**Thank you
for listening!**



Species monitored



Best monitored species



Buteo lagopus

No. schemes: 19

No. countries: 4

B. range coverage: 100 %



Falco peregrinus

No. schemes: 52

No. countries: 21

B. range coverage: 53 %

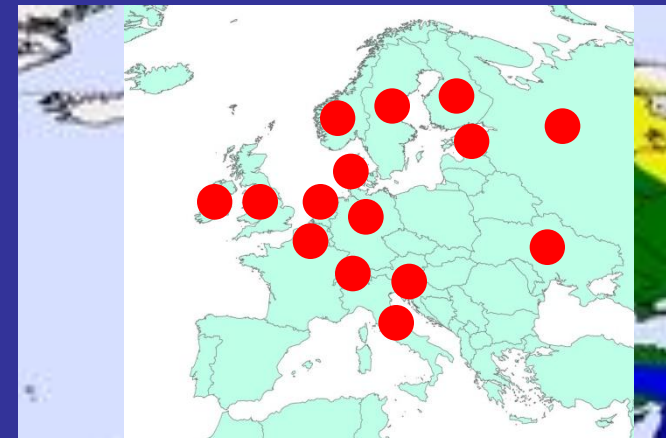
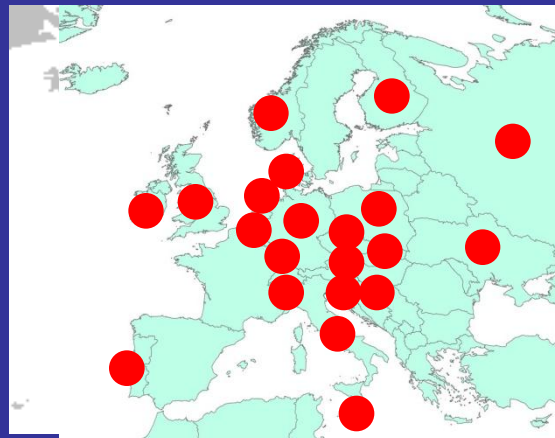
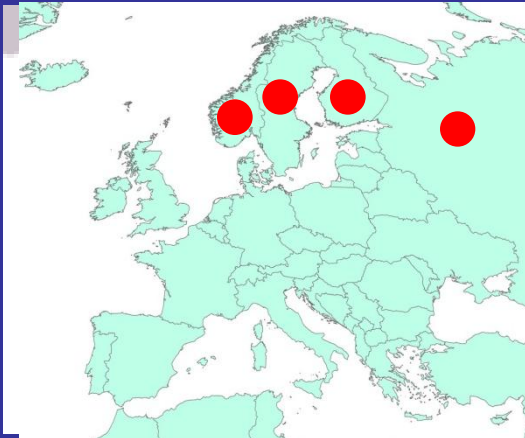


Accipiter nisus

No. schemes: 44

No. countries: 16

B. range coverage: 38 %



RAPTOR RINGING



Contextual data

- population monitoring
- breeding success
- migration/dispersal
- survival / mortality

**CONSERVATION
SCIENCE
WILDLIFE AND HUMAN
HEALTH**

Samples

- diet
- phylogeny
- diseases
- contaminants