

What the EURAPMON inventory tells us about panEuropean raptor monitoring capacity

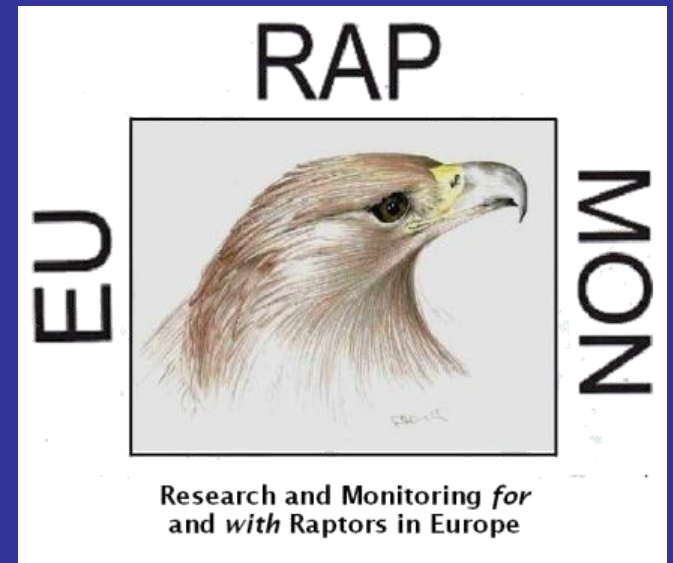
Al Vrezec, Maja Derlink, Chris Wernham,
Irena Bertoncelj, András Kovács, Pertti Saurola,
Guy Duke, Paola Movalli

- What is EURAPMON?

EURAPMON

Research & monitoring *for*
and *with* raptors in Europe
2010 - 2015

www.eurapmon.net



EURAPMON raptor monitoring inventory

1. Raptor contaminant monitoring inventory (*with* raptors)

Environment International 67 (2014) 12–21



ELSEVIER

Contents lists available at ScienceDirect

Environment International

journal homepage: www.elsevier.com/locate/envint



An overview of existing raptor contaminant monitoring activities in Europe



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2. Raptor population monitoring inventory (*for* raptors)

ACROCEPHALUS 33 (154/155): 145–157, 2012
10.2478/v10100-012-0003-y

OVERVIEW OF RAPTOR MONITORING ACTIVITIES IN EUROPE

Pregled monitoringa ptic rop

AL VREZEC¹, GUY DUKE², ANDRÁS K MOVALLI⁷ & IRENA BERTONCELJ¹

BIRD STUDY, 2018
<https://doi.org/10.1080/00063657.2018.1447546>



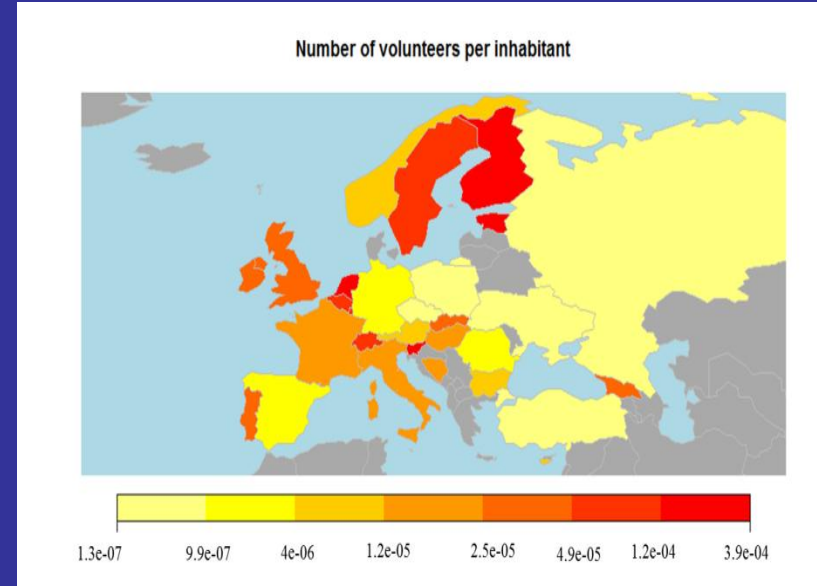
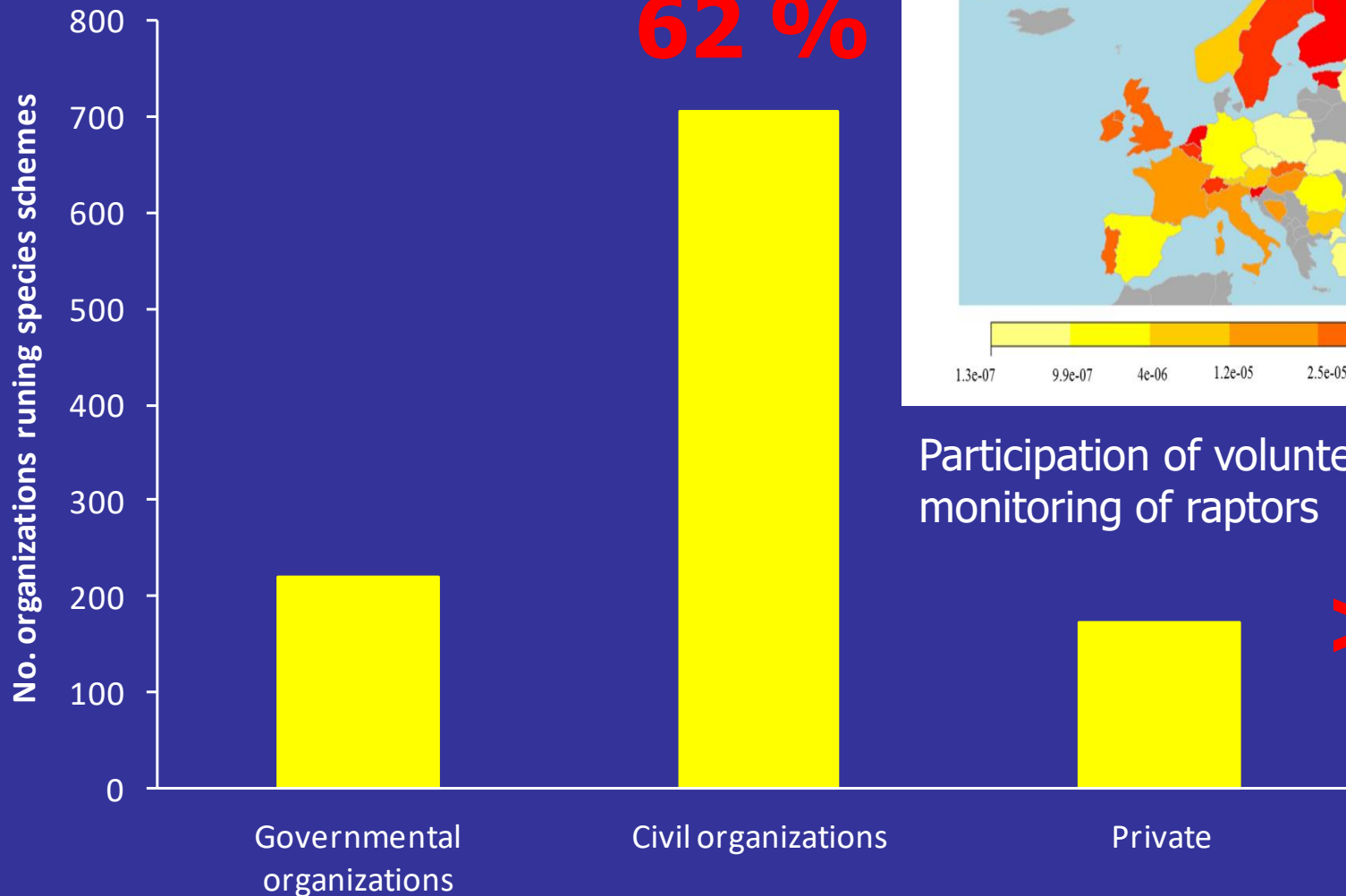
OPEN ACCESS

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 Bertoncej^c, András Kovács^d, Pertti Saurola^e, Guy Duke^f, Paola Movalli^g and Al Vrezec^a

Main players

Main actors in raptor monitoring for raptors



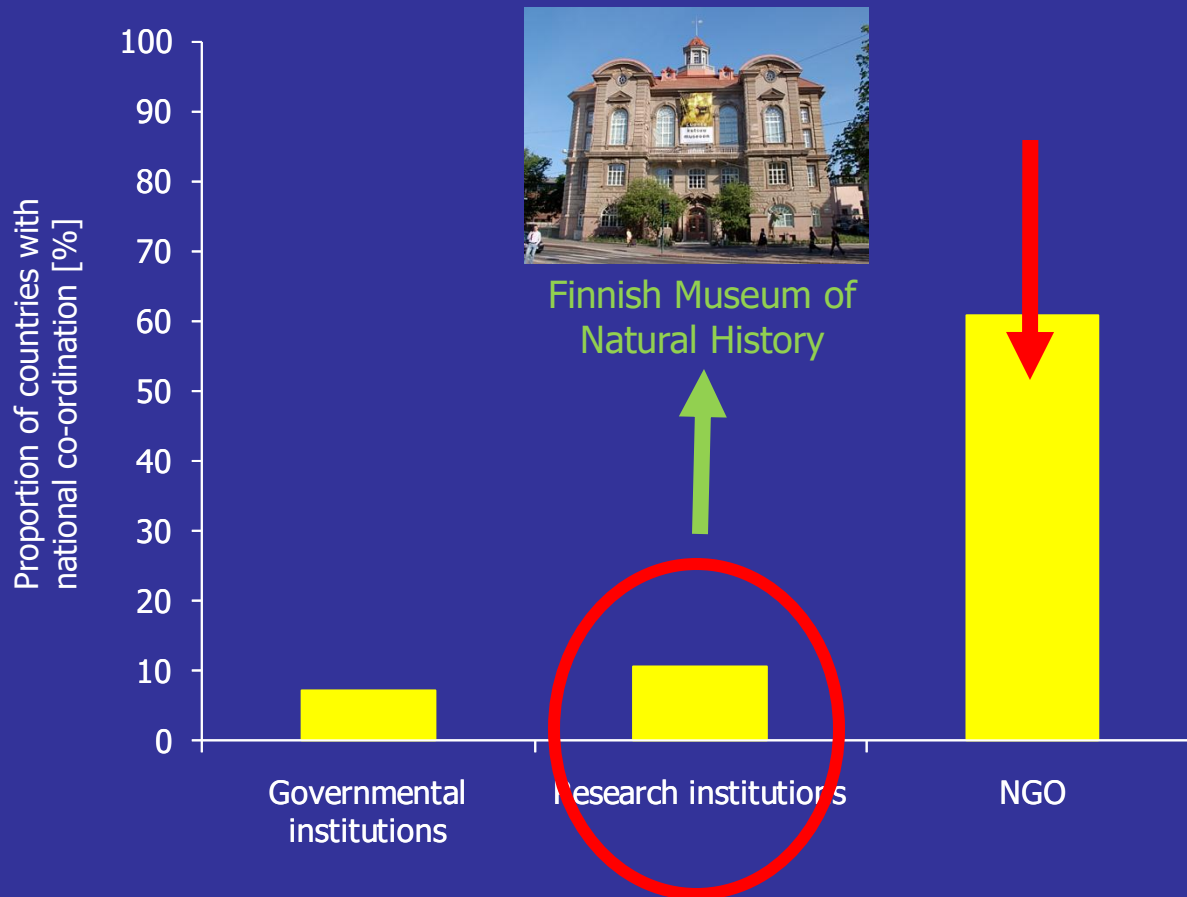
Participation of volunteers in the monitoring of raptors

>50%

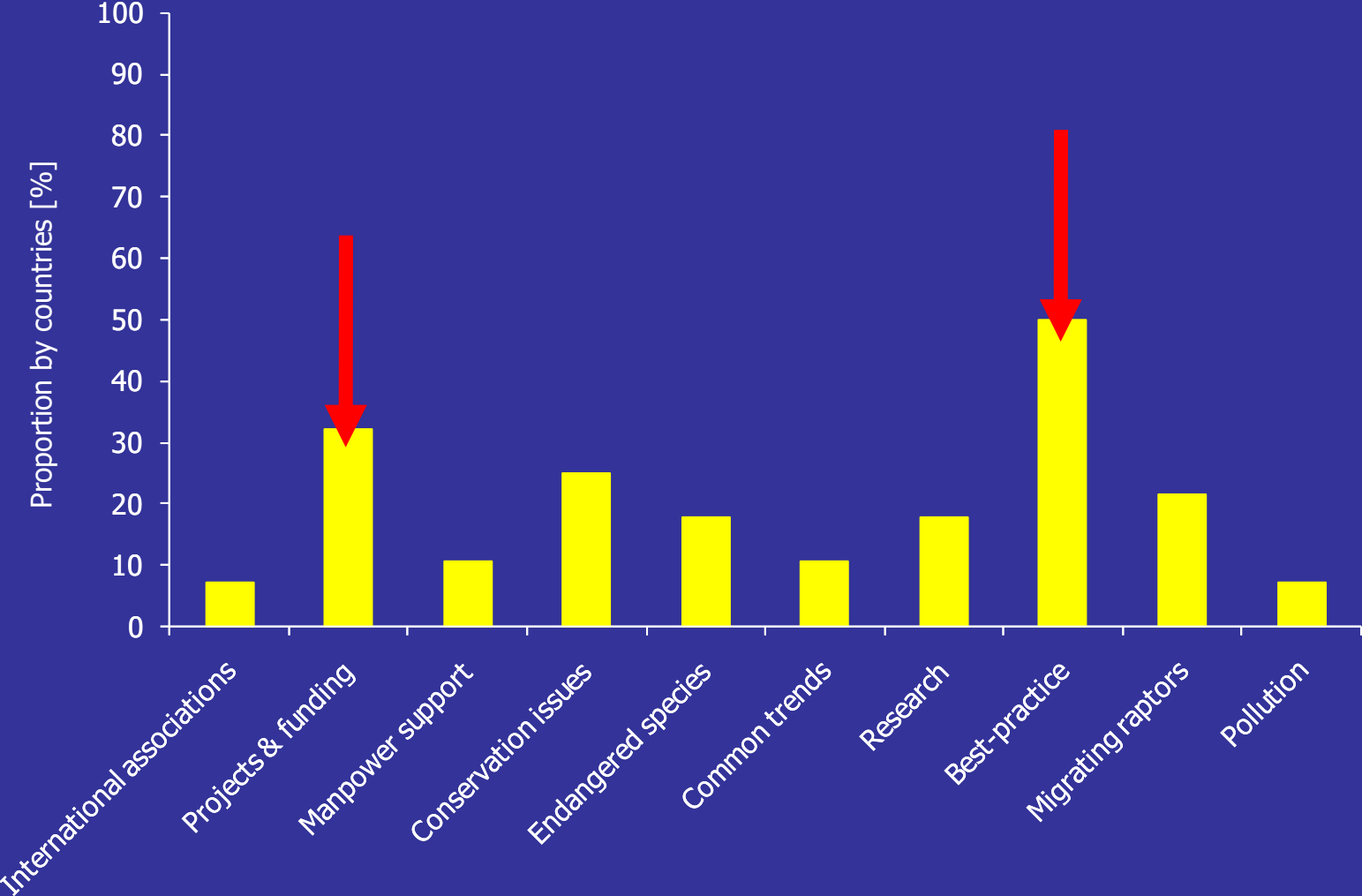
National coordination

At least some co-ordination exists in 70 % of surveyed countries

FINLAND

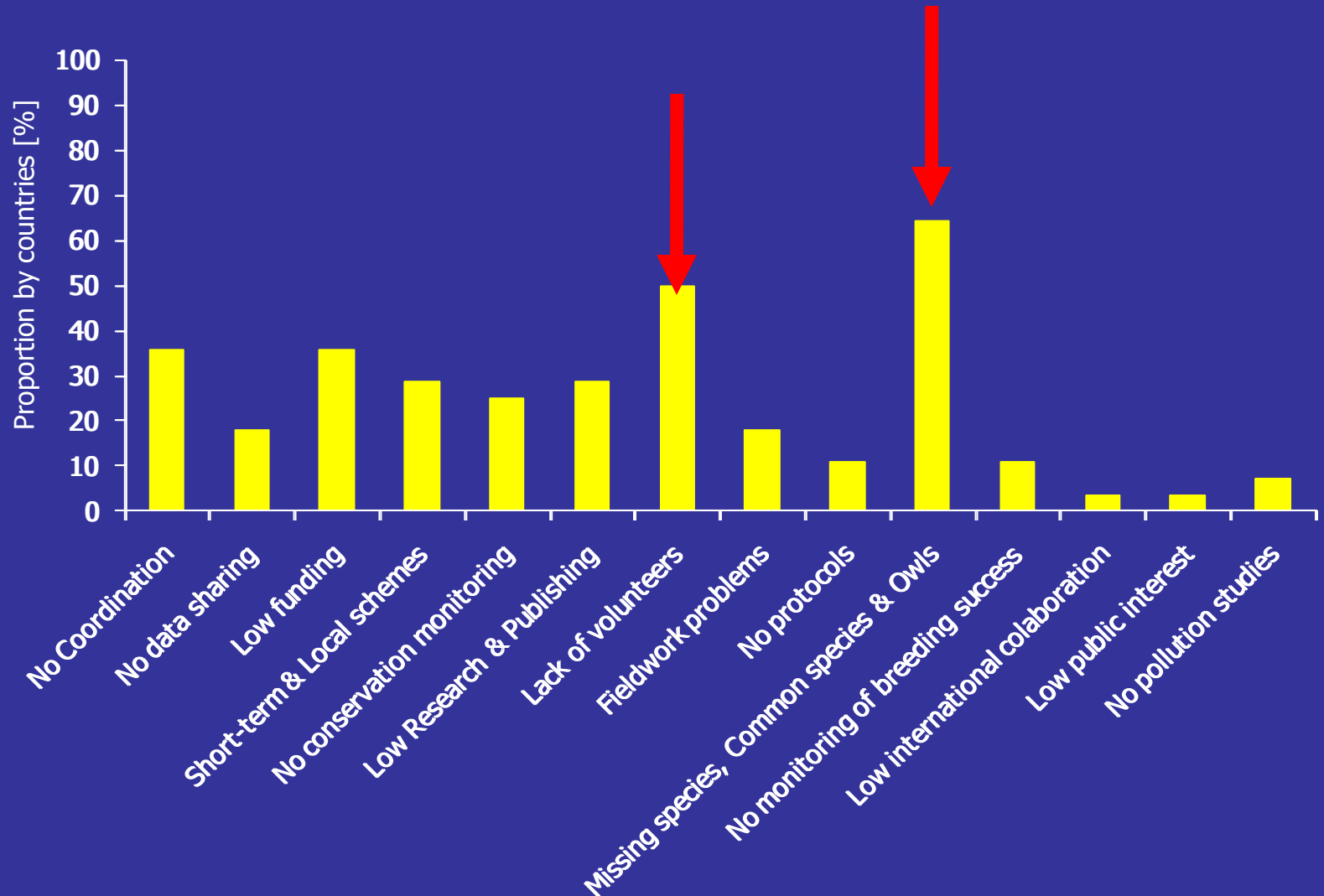


Benefits from international networking



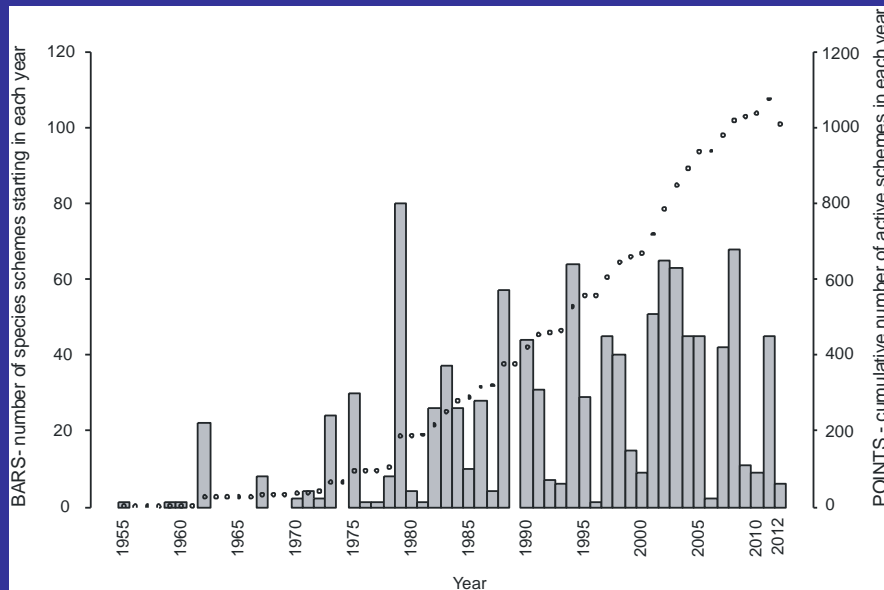
Weaknesses & Gaps

Main weaknesses and gaps of raptor monitoring

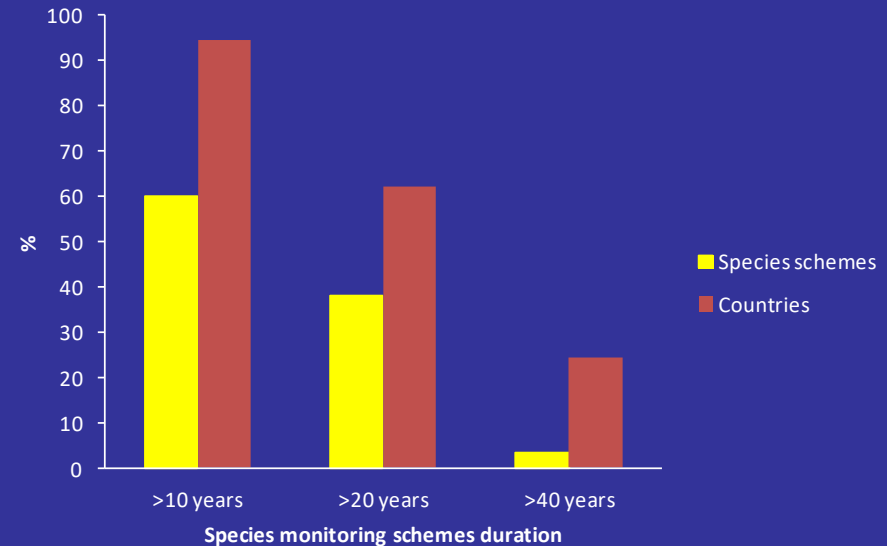


Comprehensive inventory of existing monitoring activities *for* raptors

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



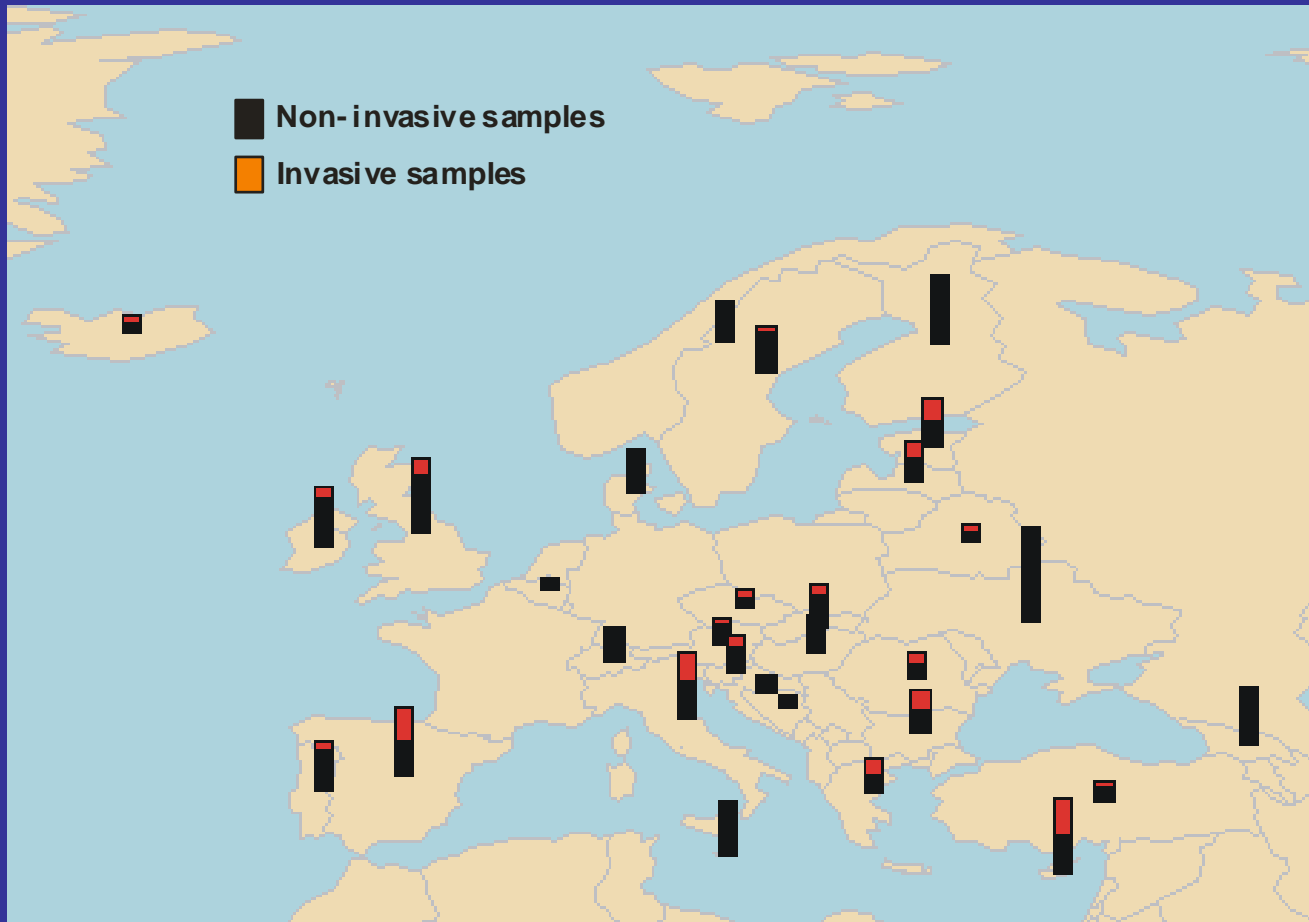
Number of active species schemes and their establishment per year (N = 1196)



Duration of active species schemes

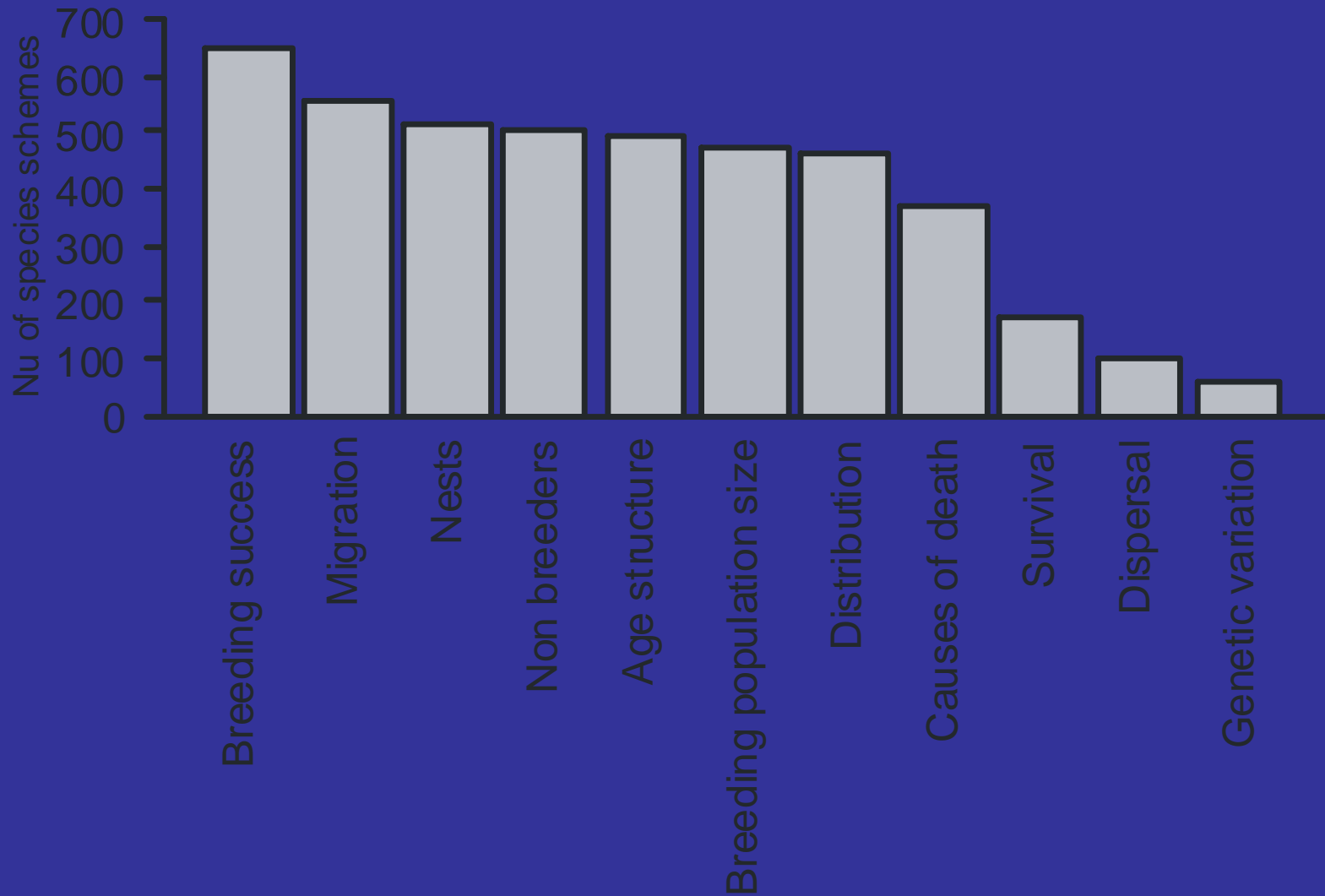
Mean duration: 18.4 ± 12 years

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)



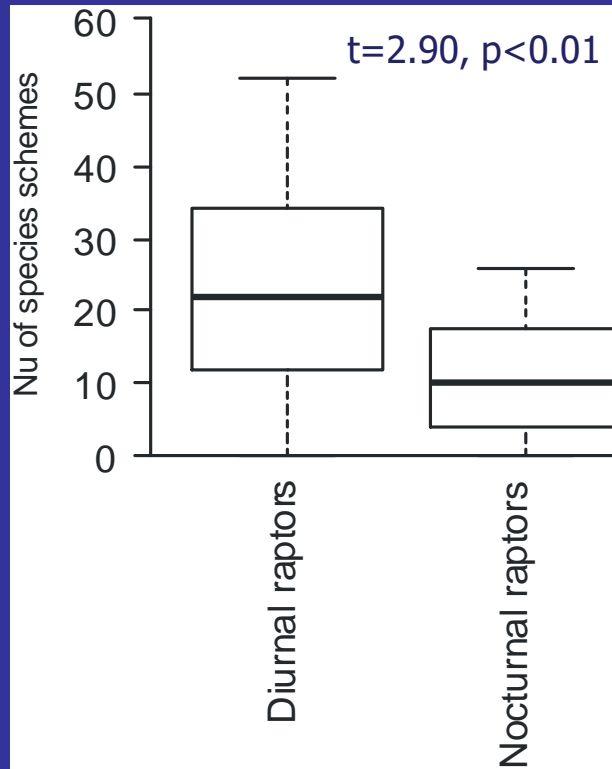
Strix aluco
(N=26)



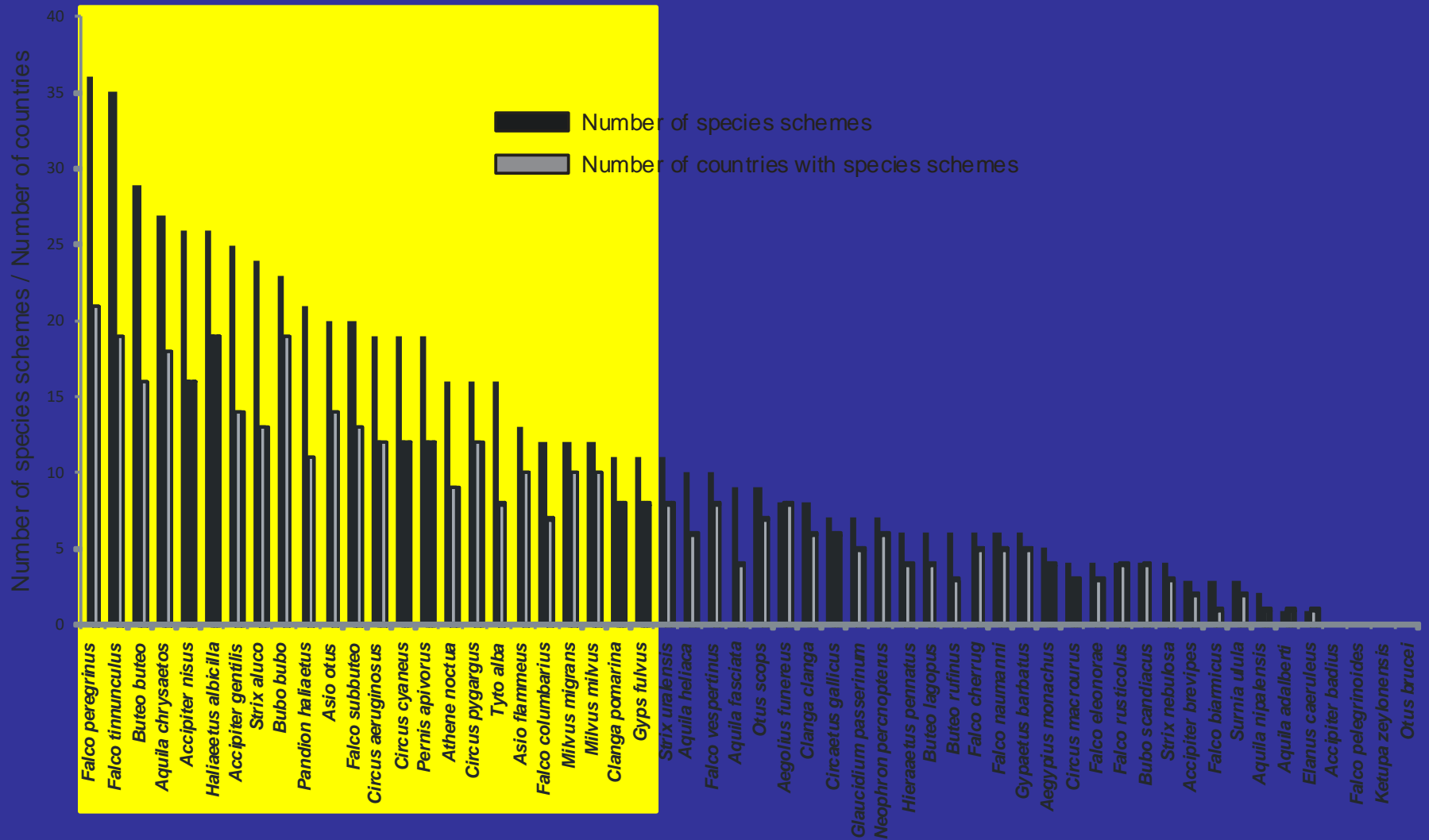
Bubo bubo
(N=24)



Asio otus
(N=24)



Species monitored



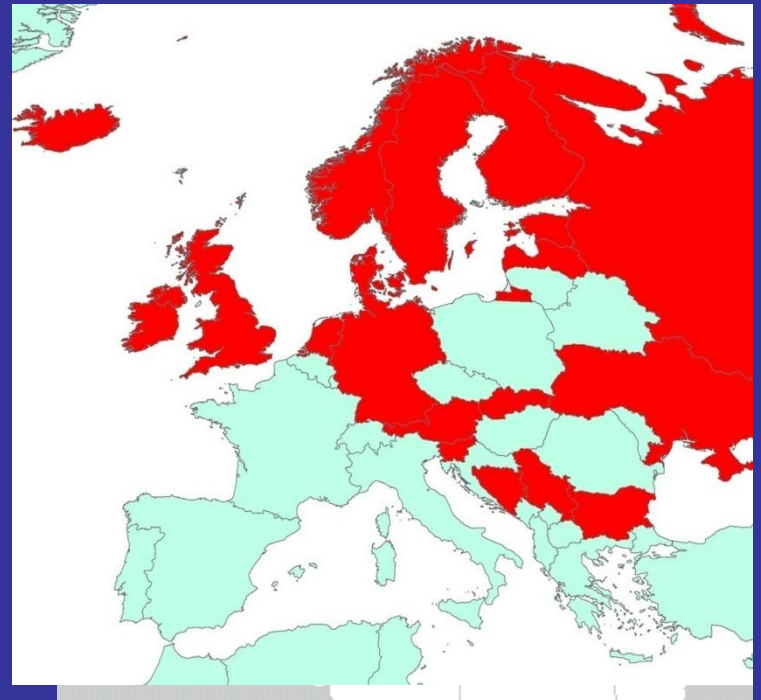
Potential priority species



No. schemes: 19
No. countries: 8
Breeding range coverage: 47 %



No. schemes: 39
No. countries: 19
Breeding range coverage: 68 %



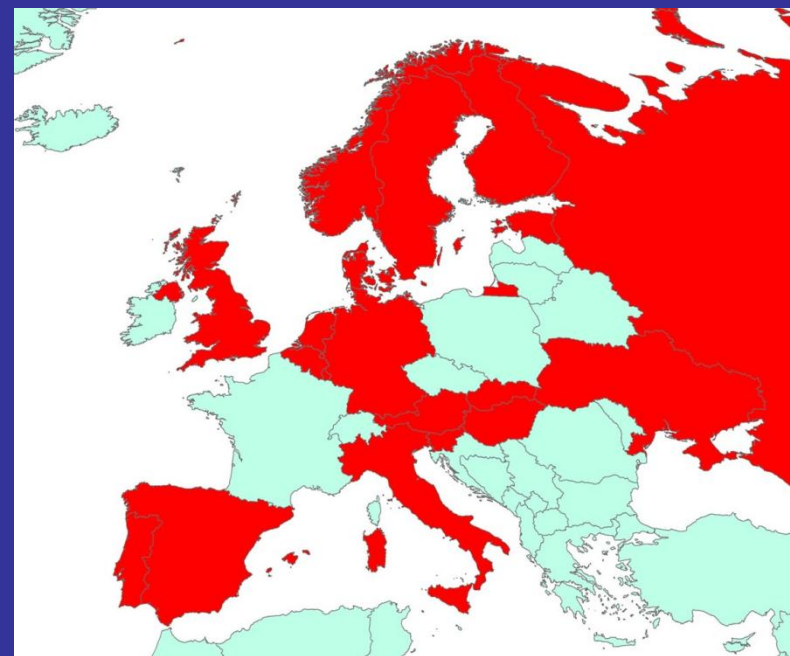
Potential priority species



No. schemes: 31
No. countries: 10
Breeding range coverage: 27 %



No. schemes: 24
No. countries: 19
Breeding range coverage: 48 %



Potential priority species



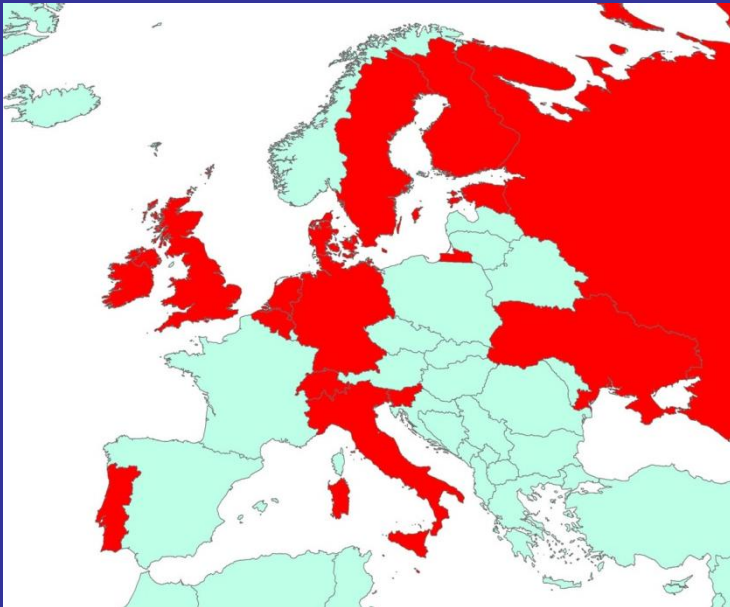
Buteo buteo

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



Falco tinnunculus

No. schemes: 52
No. countries: 19
Breeding range coverage: 43 %



Potential priority species



Strix aluco

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



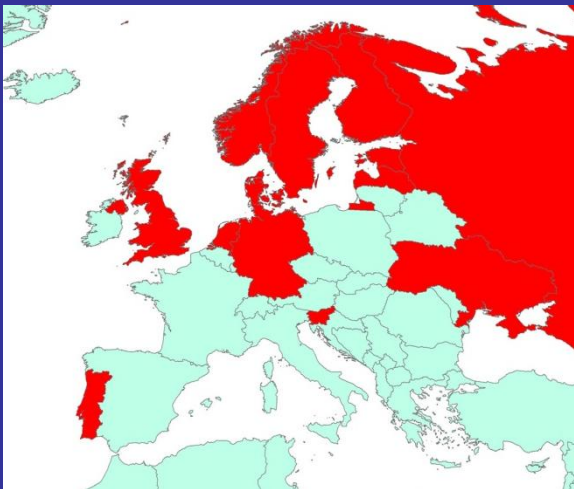
Tyto alba

No. schemes: 16
No. countries: 8
B. range coverage: 21 %



Asio otus

No. schemes: 24
No. countries: 14
B. range coverage: 33 %



15 countries

Best monitored species



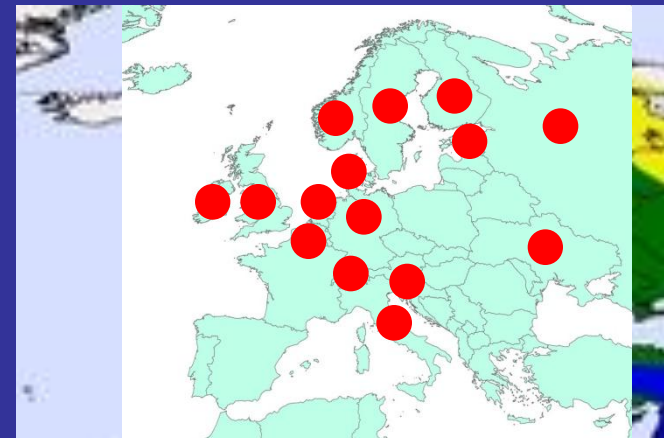
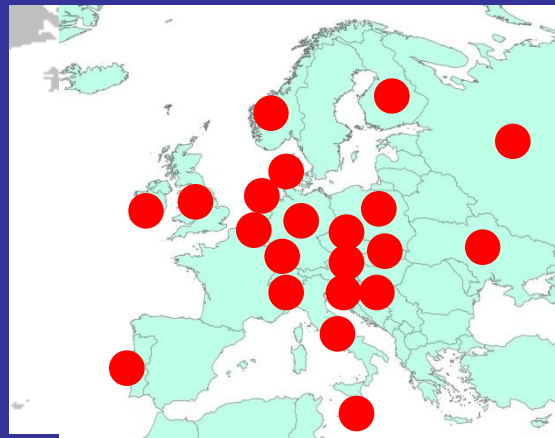
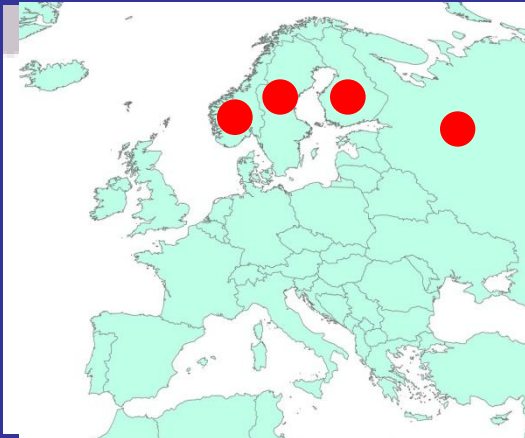
No. schemes: 19
No. countries: 4
B. range coverage: 100 %



No. schemes: 52
No. countries: 21
B. range coverage: 53 %



No. schemes: 44
No. countries: 16
B. range coverage: 38 %



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)

Thank you for your attention!



THE EUROPEAN RAPTOR CONTAMINANT BIOMONITORING FACILITY

COST: ERCBFacility

Main proposer: **University of Oxford (UK)**

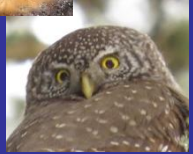
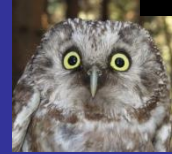
Currently 22 participating countries:

Austria	Italy
Belgium	Macedonia
Bosnia and Herzegovina	Netherlands
Croatia	Norway
Denmark	Poland
Estonia	Portugal
Finland	Romania
France	Slovenia
Germany	Spain
Greece	United Kingdom
Hungary	
Israel	



COST proposal page: http://www.cost.eu/COST_Actions/ca/CA16224

Monitoring of owls in Europe



Networking

EURAPMON - Research Networking Project

9-17 February 2012 Brussels (Belgium)

NETWORK OF NATIONAL COORDINATORS

