

# Working Group 4 - Field Arena

European  
Raptor  
Biomonitoring  
Facility





## WG4 Team

Management of WG4 work programme

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STSM Mission hosts

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## WG4 Corresponding members

including other WG Leads

# WG4 Field Arena



Offers of help welcome!  
Please speak to Chris if you would like to help!



# WG4

## Field Arena



### Research Coordination Objective R3

To develop a framework, standards and protocols for a **European Raptor Sampling Programme (ERSamP)**

- The collection of the right samples from the right locations at the right times
- Standards and protocols to ensure harmonised sampling methods
- Standards and protocols to harmonise recording of relevant field data (to support interpretation of contaminant exposure data in terms of effects on raptors at individual and population levels = “contextual data”)





# WG4 Field Arena

## Capacity-building Objective C3

**To build capacity in the 'field arena' through networking and collaboration among field ornithologists, raptor collections and ecotoxicologists**

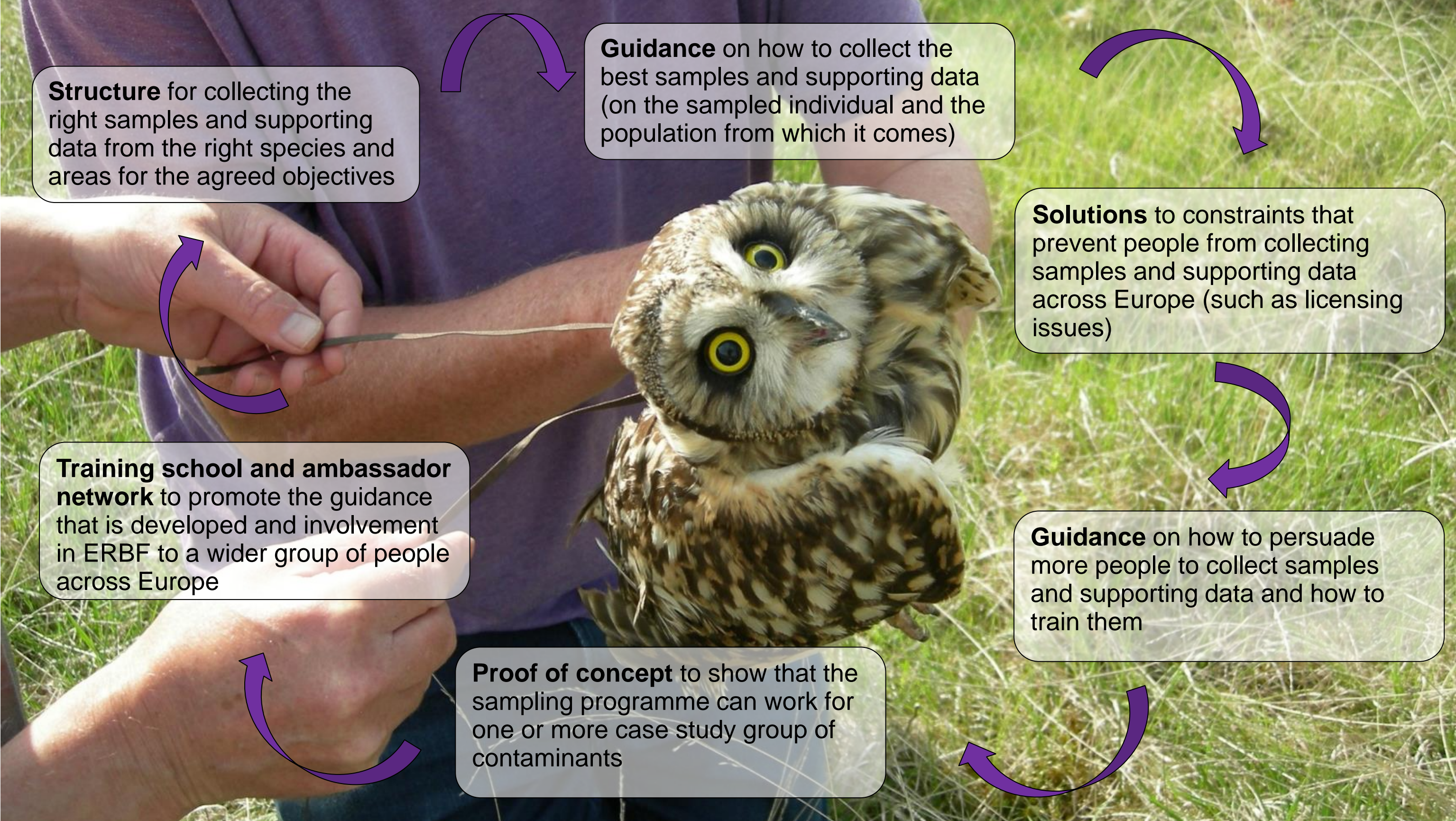
- stimulating and harmonising collection of raptor samples and contextual data on raptor reproduction, survival and other field data relevant to interpretation of data on contaminant exposure, in support of ERBioMS
- testing the sampling framework, standards and protocols in the field through networks of professionals and volunteers, to deliver proof of concept case studies.

# WG4 Field Arena - Tasks



<b>T4.1 Develop framework for European Raptor Sampling Framework (ERSampP)</b> (a) focal species & sample matrices (b) existing sampling coverage and gaps (c) opportunities to fill gaps (d) contextual data for interpretation of contaminant exposure	<b>Grant Period 1-2</b> First draft by April 2019
<b>T4.2 Review key constraints</b> (legislative/practical) to activities (e.g. nest visits, transfer of samples between countries) for sampling and contextual data; identify how to resolve constraints	<b>Grant Period 1-3</b> Mission by April 2019
<b>T4.3 Develop best practice guidance and protocols</b> for raptor sampling and contextual data capture; trial with one or more case study species from several European countries; review and amend as appropriate; disseminate guidance and protocols	<b>Grant Period 2-3</b> Mission by April 2019 Vulture Task Group 2 Missions in 2019
<b>T4.4 Expand stakeholder involvement in raptor sampling and contextual field data gathering</b> - assessing potential; identifying ways to involve more professional and amateur ornithologists in raptor biomonitoring (working with NGOs and raptor ecologists in the network); developing guidance on recruitment and training	<b>Grant period 3-4</b> Mission in 2019 Workshop in 2019 Training school
<b>T4.5 Deliver proof of concept</b> involving, for a case study focal species (or group of species), applying the framework, guidance and protocols to collect new raptor samples and contextual field data through existing and/or novel networks	<b>Grant period 3-4</b> Workshop in 2019 Funding discussions Missions



A person wearing a purple t-shirt is holding a small, brown and white speckled owl. The owl has large, bright yellow eyes and is looking directly at the camera. The person is holding a thin, light-colored stick or twig in their hand, which is positioned near the owl. The background is a field of tall, dry grass.

**Structure** for collecting the right samples and supporting data from the right species and areas for the agreed objectives

**Guidance** on how to collect the best samples and supporting data (on the sampled individual and the population from which it comes)

**Solutions** to constraints that prevent people from collecting samples and supporting data across Europe (such as licensing issues)

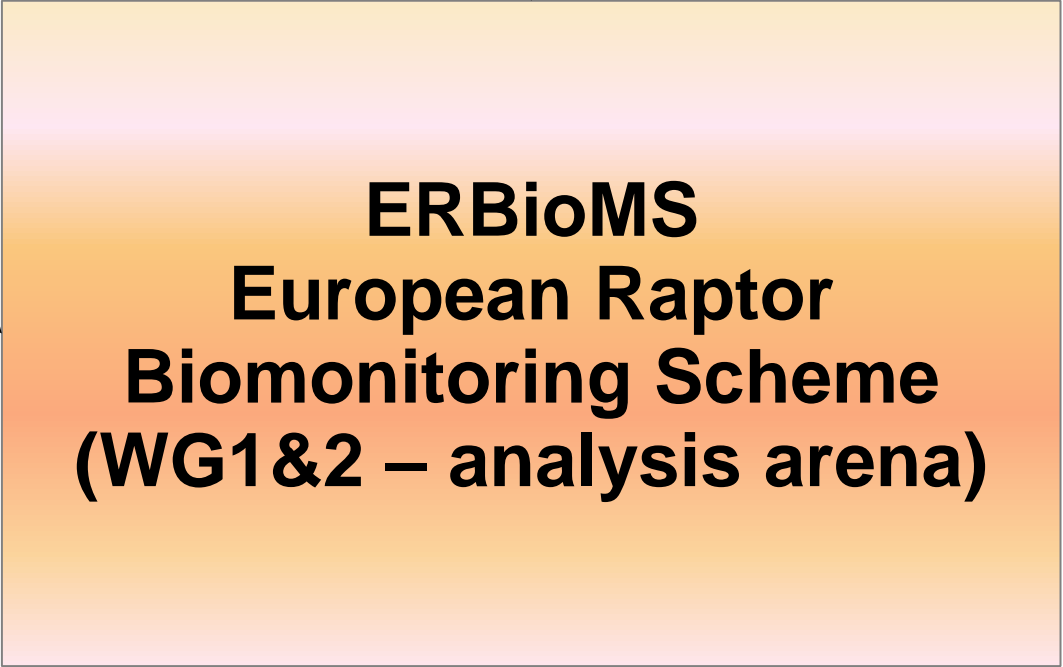
**Training school and ambassador network** to promote the guidance that is developed and involvement in ERBF to a wider group of people across Europe

**Guidance** on how to persuade more people to collect samples and supporting data and how to train them

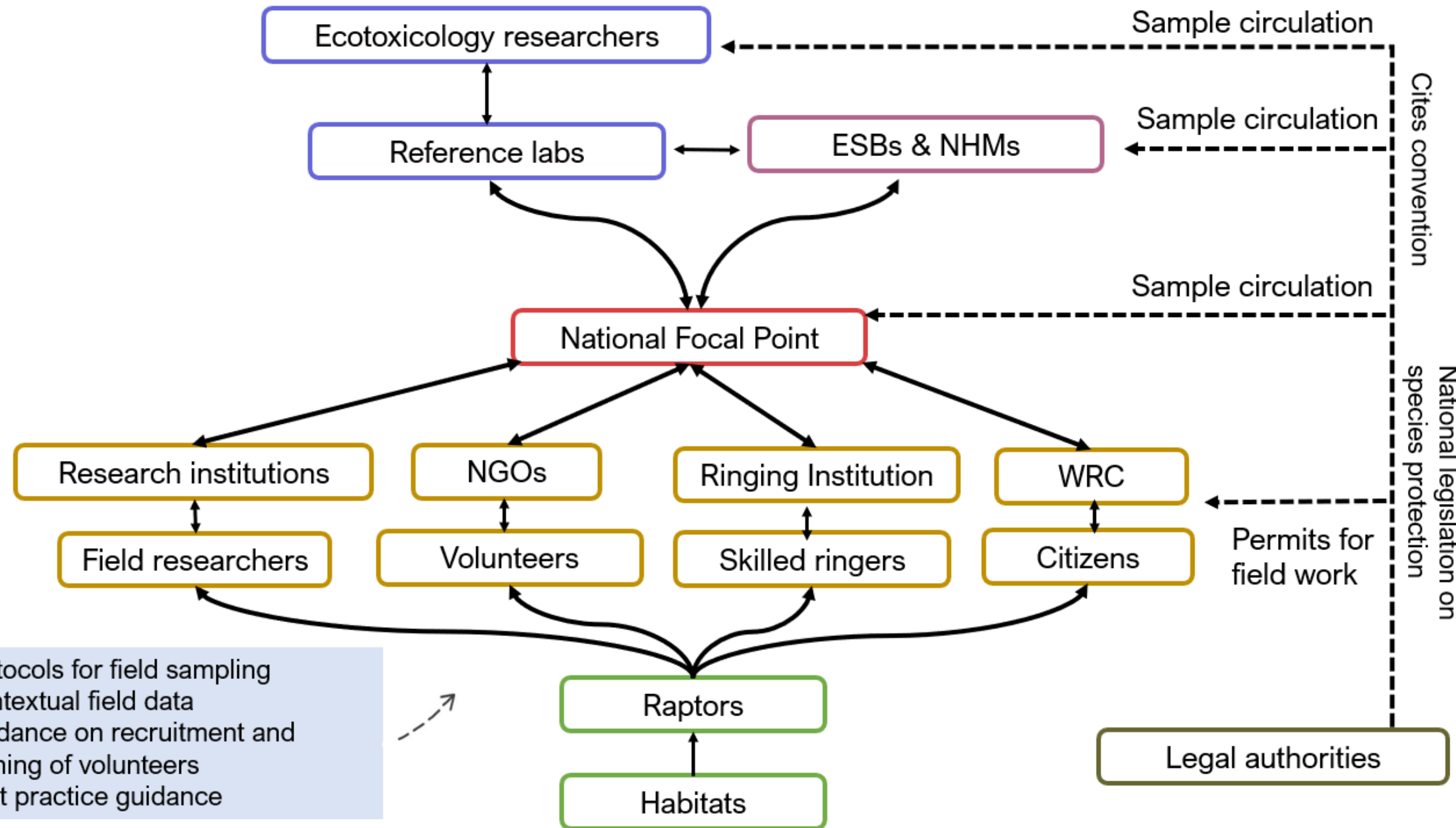
**Proof of concept** to show that the sampling programme can work for one or more case study group of contaminants



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# European Raptor Sampling Programme (ERSamP)



➤ The collection of the right samples from the right locations at the right times

➤ Standards and protocols to ensure harmonised sampling methods and recording of contextual data



# European Raptor Sampling Programme (ERSamP)



- **Vision and overall objectives** of the Sampling Programme
  - Focal **contaminant types, sample types, traits/species** and **geographical areas** (sample sizes)
  - Generic **best practice guidance – sampling protocols** – Espin *et al.* EURAPMON – enhanced
  - Generic **best practice guidance** – collection of **contextual data**
    - data relevant to individual sample (e.g. date, time, species, age, sex, location etc – essential)
    - data relevant to individual bird (e.g. breeding success, movements)
    - data relevant to population (e.g. population trends, timing of breeding productivity, survival, movements) e.g. Hardey *et al.* *Raptors – a Field Guide to Survey and Monitoring*
    - environmental data – (e.g. known contaminant sources; local land use)
  - **Project- and species-specific best practice guidance** (e.g. falcons; vultures)
  - **People and institutions** available to collect samples and contextual data in the field
  - Generic **best practice guidance on how to engage / motivate / train field participants** by actor group
  - **Project-specific guidance for involving people in the field** e.g. for proof of concept studies
  - Consideration of **national ambassadors / coordinators / focal points**
- The collection of the right samples from the right locations at the right times
  - Standards and protocols to ensure harmonised sampling methods and recording of contextual data





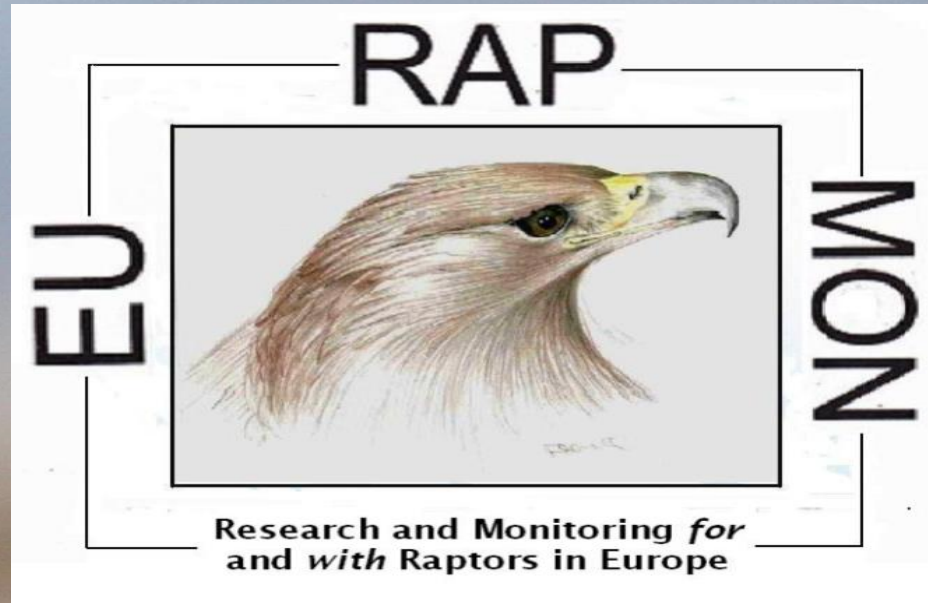
# WG4 Field Arena STSM missions

## WG4

- **Review of constraints for collection and sharing of raptor samples in Europe** – **Maria Dulsat**, IDAEA-CSIC Barcelona, Spain – hosted by **Rui Lourenco**, University of Evora, Portugal - dates (75 days)
- **Review of ringing effort in Europe** – **Abigail Maiden**, Northern Ireland Raptor Study Group – hosted by **Jari Valkama**, Finnish Museum of Natural History, Helsinki – Jan 2019 (10 days)
- **Review of protocols to inform best practice guidance for peregrine sampling** – **Lucie Michel**, University of Giessen, Germany – hosted by **Giacomo dell'Omo**, Ornis Italica, Rome, Italy – Jan-Apr 2019 (ECI) (3 months)



# PUBLICATIONS



## Bird Study special issue

**Guest Editors:**  
**Chris Wernham**  
**Al Vrezec**

**Bird Study** The Science of Pure and Applied Ornithology

Volume 65 Part 3, August 2018

Volume 65, Eurapmon Special Issue, December 2018

ISSN: 0006-3657

# Bird Study

The Science of Pure and Applied Ornithology





➤ **Editorial**

Guy Duke, Al Vrezec, Paola Movalli, Irena Bertoncelj & Chris Wernham

➤ **Raptor monitoring: challenges and benefits**

Fabrizio Sergio

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

Maja Derlink *et al.*

➤ **The Scottish Raptor Monitoring Scheme: recent developments in good practice monitoring**

Amy Challis *et al.*

➤ **Are common bird monitoring schemes and opportunistic observations appropriate for estimating raptor trends?**

Ülo Väli *et al.*

➤ **Monitoring methods for the Golden Eagle *Aquila chrysaetos* in Norway**

Jan Ove Gjershaug *et al.*

➤ **Territory monitoring of Tawny Owls *Strix aluco* using playback calls is a reliable population monitoring method**

Al Vrezec & Irena Bertoncelj

➤ **Towards integrated population monitoring based on the fieldwork of volunteer ringers: productivity, survival and population change of Tawny Owls *Strix aluco* and Ural Owls *Strix uralensis* in Finland**

Pertti Saurola & Charles Francis

➤ **Migrating raptor counts: the need for sharing objectives and field protocols, and the benefits of using radar**

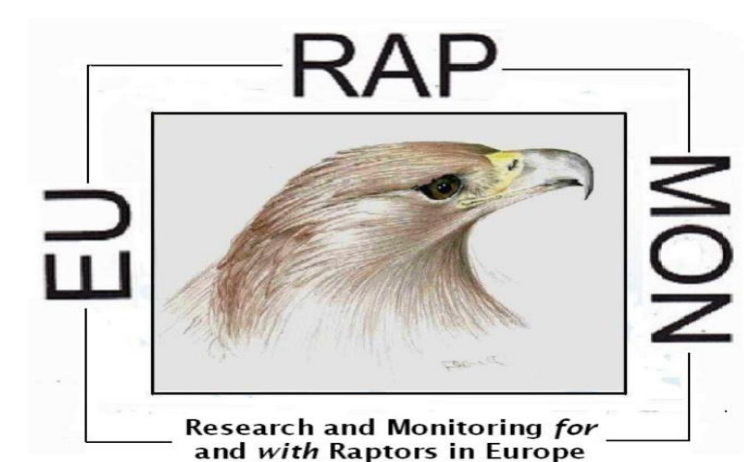
Michele Panuccio *et al.*

➤ **A comparative study of Ural Owl *Strix uralensis* breeding season diet within its European breeding range, derived from nest box monitoring schemes**

Al Vrezec *et al.*

➤ **Monitoring contaminants, emerging infectious diseases and environmental change with raptors, and links to human health**

Paola Movalli *et al.*



**Bird Study  
Special Issue  
2018**



# WG4 Field Arena GP2 Questions?

