

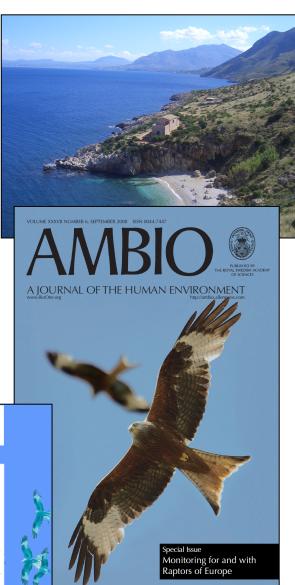
Guy Duke
Candidate Chair

1st Management Committee meeting
Brussels, 17 October 2017

A little history

- Workshop, Scopello, Sicily 2006
- Special Issue Ambio 2007
- EURAPMON proposals 2007/08
- EURAPMON 2010-15 (ESF, c.€500k)
 - Network ecotoxicologists, ornithologists
 - Inventory raptor monitoring in Europe
 - Reviews monitoring for, monitoring with raptors
 - Papers e.g. what samples types to use
 - Protocol contaminant monitoring with raptors
 - Acrocephalus 2017
- ERBFacility proposals Feb & Dec 2016
- ERBFacility 2017-21 (COST, c.€600k)





The challenge

- Environmental contaminants:
 € multi-bn costs to human and wildlife health
- EU objective (7EAP) a non-toxic environment
- EU chemicals regulations assess risk, impose risk mitigation measures (restrict/ban)
- Need biomonitoring data to:
 - enhance chemical risk assessment
 - enhance assessment of effectiveness of regulations
 - provide early warning of emerging contaminant problems



Why 'ERBFacility'

- 'Facility' (from Latin facilis 'easy')
 - not an infrastructure, but a 'provision' or 'package' of key elements
- 3 key elements:
 - European Raptor Monitoring Scheme (ERBioMS)
 - Distributed European Raptor
 Specimen Bank (ERSpeB)
 - European Raptor Sampling Programme (ERSamp)



The goal

- Underpin generation and use of raptor biomonitoring for regulatory applications
- Use raptors as sentinel species to answer:
 - 1. What are the environmental risks of specific chemicals?
 - 2. Are chemicals regs effective in reducing environmental exposure to contaminants?
 - 3. Are there emerging contaminant problems requiring remedial action?
- Thereby:
 - contribute to a non-toxic environment
 - Reduce contaminant toll on human and wildlife health

The three 'arenas'

- Analysis arena labs, ecotoxicologists
- Collections arena NHMs, ESBs, other collections
- Field arena field ornithologists/ecologists, raptor conservationists

Research Coordination Objectives

- R1 Assess current capacities for pan-European raptor biomonitoring, develop a framework for ERBioMS
- R2 develop a framework for a distributed ERSpeB
- R3 Develop a framework, standards and protocols for a ERSamP



Capacity Building Objectives

C1 - Analysis arena

- Collaborative work on ERBioMS
- Piloting joint assessment and reporting
- Developing guidance on integrating reports with regulatory assessments

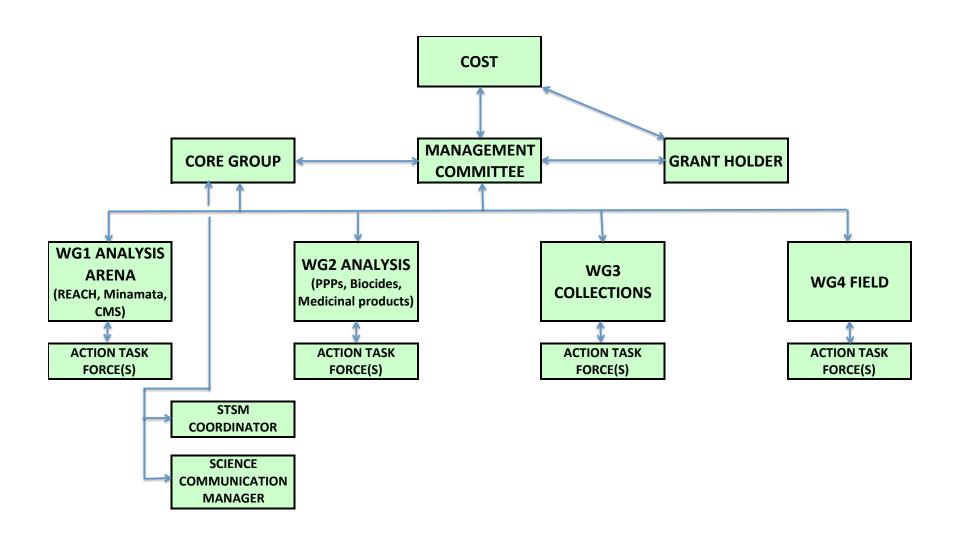
C2 - Collections arena

- Collaborative work on ERSpeB
- Constructing meta-database of samples/data
- Stimulating expansion of raptor collections

• C3 - Field arena

- Collaborative work on ERSamP
- Stimulating/harmonising collection of raptor samples and contextual data
- Developing and field-testing sampling framework, standards and protocols

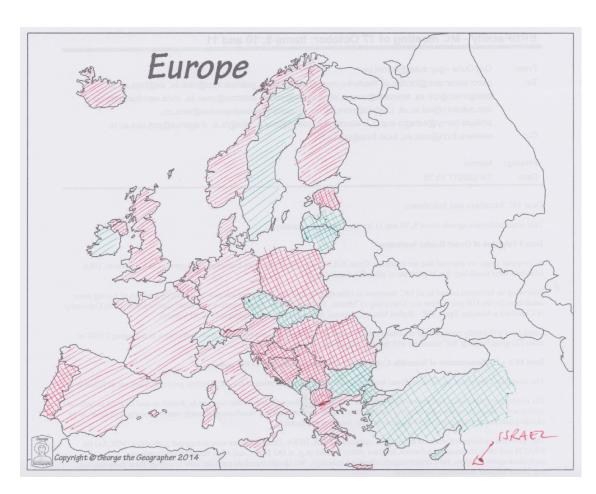
MANAGEMENT STRUCTURE



THE NETWORK

- 25 Parties more expected to join
- 40 MC members
- IPC secondary proposers (US)

Red = ERBFacility Party Green = COST country not yet a Party (cross-hatch =ITC)



COST policies

- Geographical coverage/ICT countries
 - 25 of 37 COST countries
 - 10 of 25 Parties ICT (40%)
- Gender balance
 - Only 9 of 35 Members female
 - 2 of 4 candidate WG Leads female
- Early Career Investigators
 - ? How many MC members <8 years post PhD?</p>

Relations to existing efforts

- <u>EURAPMON</u> monitoring for and with raptors
- HBM4EU human biomonitoring
- NORMAN monitoring of emerging substances
- <u>IPCheM</u> European platform for chemical monitoring

Main deliverables

WGs 1 & 2

- ERBioMS technical specs
- Papers lab analyses capacities, ERBioMS framework
- Pilot reports selected substances
- Proof of concept, guidance for integration with regulatory processes

WG3

- ERSpeB technical specs
- Meta-database of samples & linked data
- Guidance use of collections for contaminant monitoring
- Papers collections/constraints, ERSpeB framework

WG4

- ERSamP technical specs
- Best practice guidance, protocols for sampling
- Guidance volunteer recruitment
- Reports proof of concept, network of collaborating organisations

EXPECTED IMPACT

- Analysis arena
 - European capability for pan-European assessment of contaminant exposure
 - Pan-European consensus on priority species/samples
 - Clarity on integration of these assessments with regulatory processes
- Collections arena
 - New distributed ERSpeB
 - Enhance access to samples and related data
- Field arena
 - New European approach to collection of samples
 - Enhance sampling capabilities

Dissemination/exploitation

- Dissemination and Exploitation Plan
- Dissemination and communication tools:
 - Website
 - Social media
 - Publications frameworks, proof of concept reports, tech specs, guidance, protocols
 - High impact papers
 - Media articles
- Exploitation opportunities

PERIOD 1 MILESTONES & DELIVERABLES (Period 1 & beyond to m12)

WG1

- M1.1 WG1 Workplan [m6]
- M1.2 STSM1: ability to conduct pan-European assessment for priority contaminants (m10)

WG2

- M2.1 WG2 Workplan (m6)
- M2.2 STSM2: ability to conduct pan-European assessment for PPPs, biocides & medicinal products (m10)

WG3

- M3.1 WG3 Workplan (m6)
- M3.2 STSM5: consideration for development of ERSpeB framework (m9)

• WG4

- M4.1 WG4 Workplan (m6), scoping of framework
- M4.2 STSM8: Questionnaire on constraints to data gathering
- M4.3 M/WS2: Development of ERSamP framework: pan-European review of field protocols and monitoring results for selected species