

Key Constraints in Raptor Sampling



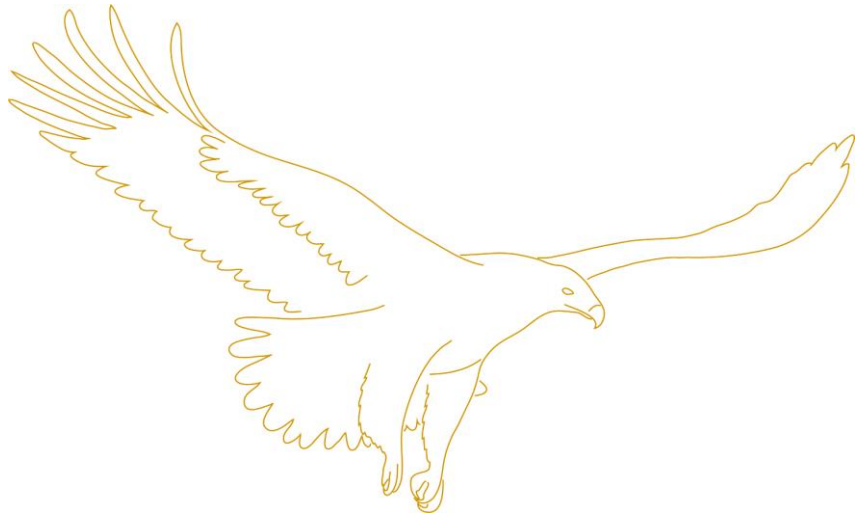
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1. STSM objectives

Review of key constraints

The aim of this STSM is to **identify and search for solutions to the main constraints** to obtain and **share raptor samples and related contextual data** about the individual and/or population from which samples are obtained.



2. Our pathway



IDENTIFICATION OF CONSTRAINTS



LIST OF CONSTRAINTS

Legal
Methodological
Spatial coverage
Skills



GREECE WORKSHOP



CONSTRAINTS SOLUTIONS



RESULTS OF THE QUESTIONNAIRE



FLORENCE WORKSHOP

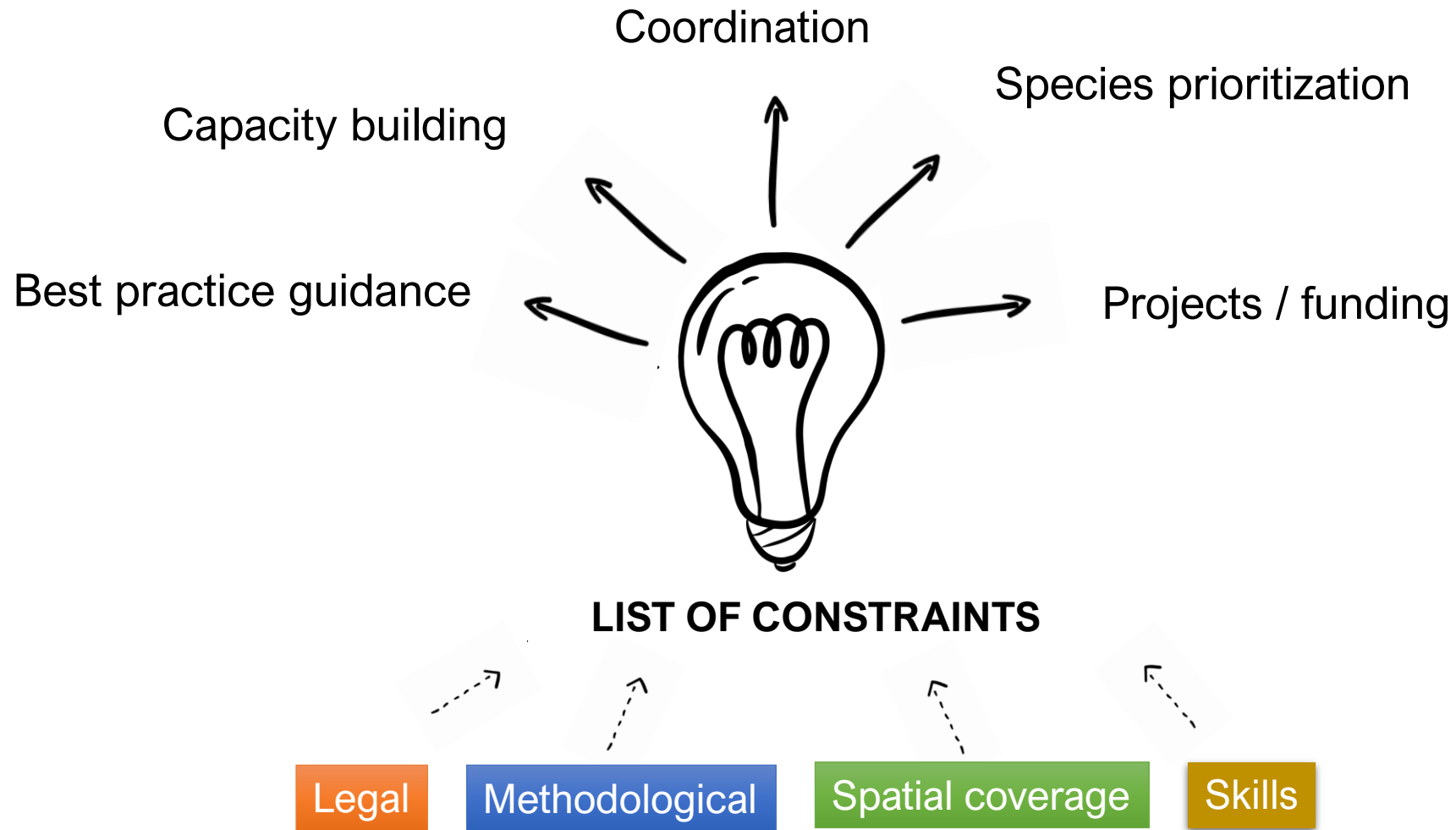
How to implement solutions



DISTRIBUTION OF THE QUESTIONNAIRE



3. Constraints Solutions



3. Constraints Solutions

Best practice: Creation or implementation of protocols

- Provide and spread sampling **protocols**
 - ✓ Lack of **adequate protocols** for collecting samples
 - ✓ Providing **material for sampling**
 - ✓ Lack of **amount** of sampling **blood** for nestlings
 - ✓ **Correct short-term storage** of the samples

- **Database** with specific **ID code**
 - ✓ **Storage of contextual data** related with the sample
 - ✓ No **land-use information** because an imprecise location is given

3. Constraints Solutions

Capacity building: Training activities to get specific skills and permits

- Training activities to get skills and knowledge
 - ✓ **Mandatory contextual data** (age, sex, feather type, raptor species)
 - ✓ **Skilled people** for field sampling (samples and data)
 - ✓ Visiting **active nests** (e.g. climb trees)
 - ✓ Data related with **reproductive performance and diet**
 - ✓ **Post-processing of carcass** (necropsies)
- Training activities to get permits
 - ✓ Visiting **active nests**
 - ✓ Handling **live birds**
 - ✓ Sampling blood or other **invasive samples**
 - ✓ To **holding** and **storing** raptor **samples** (carcass, feathers, eggs)

3. Constraints Solutions

Coordination: Between institutions, researchers and field workers

- National / Regional Ambassadors



Natural History Museums
Environmental Specimen Bank
Research institutions
...

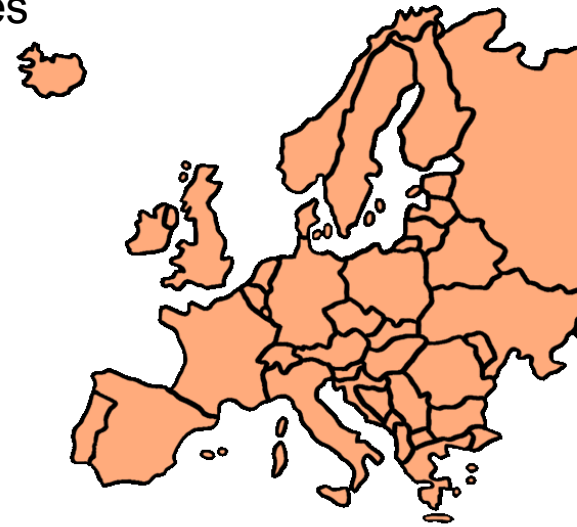
- ✓ Lack of **institutions** to store and send samples
- ✓ Difficulty to support the **shipping cost** or ensure a **correct transportation**
- ✓ Legal restrictions on **transportation** of samples within country
- ✓ Lack of **motivation** among field workers
- ✓ Legal restrictions to **access** private property
- ✓ Legal restrictions to **holding and storing** raptor samples
- ✓ Difficulty in **collecting contextual data** - potential sources of contamination

3. Constraints Solutions

Species prioritization: focal species and contaminants chosen

- Prioritization of species

- ✓ Low **habitat** areas in the country
- ✓ Focal raptor population with very **low abundance** or uneven distribution
- ✓ Lack of **amount** of sampling blood for nestlings
- ✓ Difficulty to **access** to the nests
- ✓ Difficulty to **access** to breeding zones



3. Constraints Solutions

Projects / Funding: Increase number of projects and budget

- Funding for projects

- ✓ Low number of **monitoring schemes** and ecological studies to provide access to raptors samples and contextual data
- ✓ Lack of **means for capacity building** by field coordination institutions
- ✓ Lack of **institutions** to participate in the biomonitoring scheme



4. Solutions difficult to implement

- National/Regional ambassadors
- Funding (field projects + capacity building)
- Training activities to work with raptors



Actors involved



Potential conflicts of interest



Time for implementation



Funding sources

5. Next steps



Report
Scientific paper



Constraints solutions



Distribution of the
Questionnaire



Florence workshop



Results of the questionnaire



How to implement solutions



BREAKOUT



Thank you for your attention

