

EUMon contributions to support the implementation of the Habitats and Birds Directives



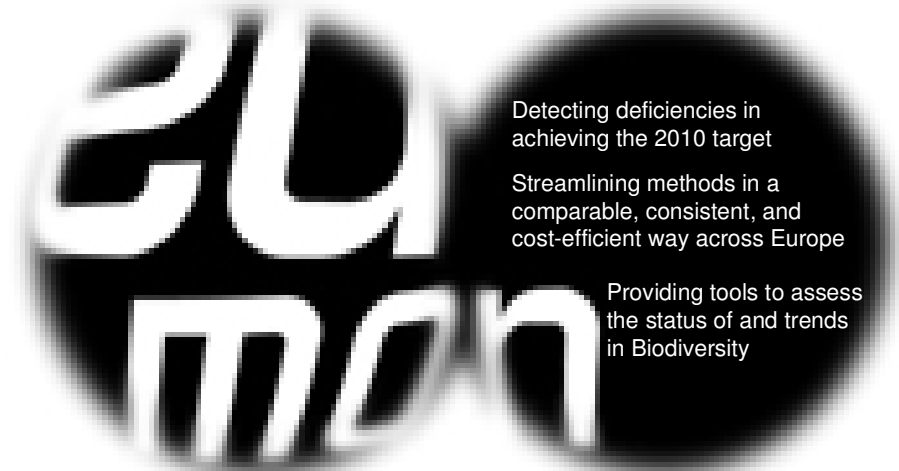
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Dirk S. Schmeller



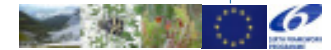
EUMon – EU-wide monitoring methods and systems of surveillance for species and habitats of Community interest – EUMon Conference: 28.- 30. January 2008



Aims of EuMon



EUMon – EU-wide monitoring methods and systems of surveillance for species and habitats of Community interest – EUMon Conference: 28.- 30. January 2008



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EuMon can provide support by

- Database of existing monitoring schemes
- Methods & tools
- Guidelines & recommendations
- Gap analyses



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EuMon does not provide

- Database of original monitoring data or results
- Tools to substitute or do the reporting of Member States
- Handbook for field methods/taxa specific methods



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But EuMon....

can assist **implementation of Directives** by

- **Methodological support**
 - **Monitoring**
 - **Determining national responsibilities**
 - **Effectively select N2000 sites**
- **Evaluate monitoring results & N2000 network**
- **Provide overviews of and characterise monitoring schemes - benchmarking monitoring activities in Europe**
- **Provide input for Member State reports**

Methodological support - monitoring

Important criteria when designing a monitoring scheme

Representativity of data

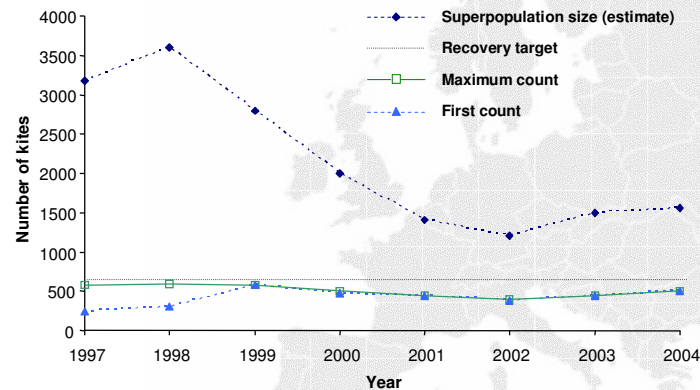
- ➔ **sampling design** (stratification, method for choosing sites)
- ➔ **choice of species to be monitored**
- ➔ **accounting for the probability of detecting the species** (nb. of visits/year)

Ability to statistically **detect temporal/spatial trends**

- ➔ **number of sites monitored**
- ➔ **number of years of monitoring**
- ➔ **among-year frequency of monitoring**

„Report on basic principles for biodiversity monitoring”
available at http://eumon.ckff.si/d2_fin.pdf

Methodological support - monitoring



Methods - National responsibility

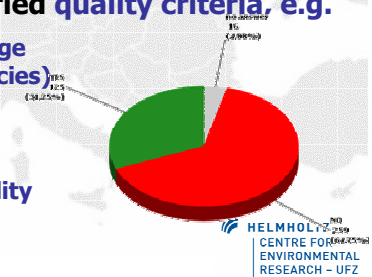
- **5 European countries** (CH, DE, HU, IT, UK) have **methods for species**
- **AT plans to use the DE species method for habitats**
- **Methods differ strikingly and are not transferable among countries**
 - ⇒ **Results not comparable**
- **EuMon developed a simple consistent system scaleable to countries of any size**
- **Approx. 1000 species in 4 countries & several grassland habitat types have been assessed by EuMon**

Methodological support - Natura2000

- Systematic reserve site selection methods compiled
 - Gaps in Annex species and habitats in Natura2000 determined
 - Natura2000 comprises 20% of the EU area but
 - Not all Annex II species covered (5% are gap species)
- ⇒ MS have used inefficient and biased selection approaches

Evaluation and benchmarking

- Reporting guidelines do not ask information allowing quality assessments
- EuMon developed criteria for benchmarking, e.g.
 - Representativity
 - Accounting for detectability
 - Precision
- BioMAT: Schemes meeting specified quality criteria, e.g.
 - Schemes able to detect 1% change (only 4 for habitats; ≤ 15 for species)
 - Herpetofauna: 31% account for detectability

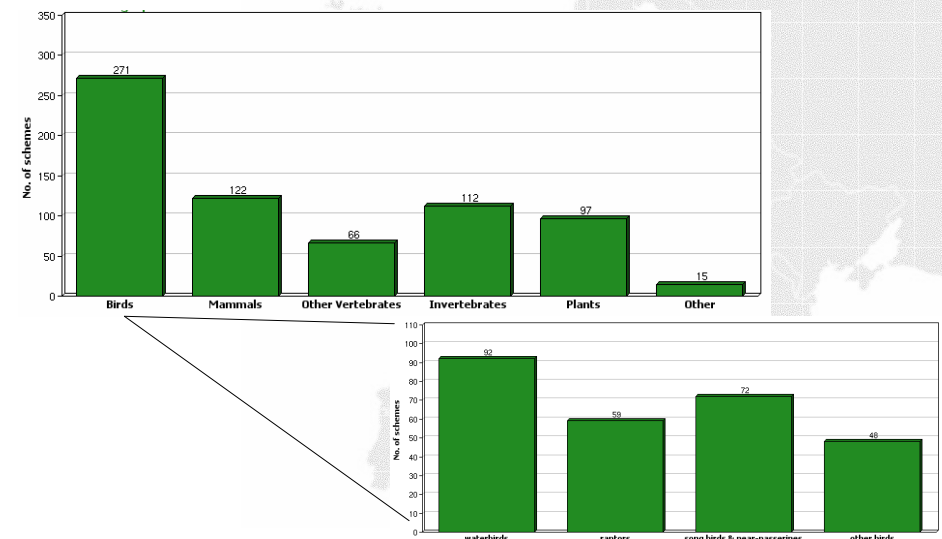


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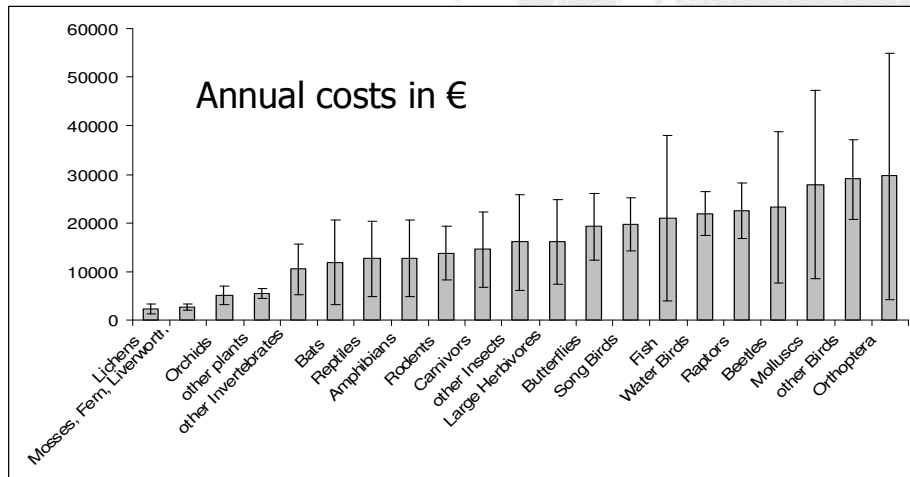
E.g., EU-funded habitat monitoring schemes perform relatively poorly regarding data analysis (significantly better in other schemes)

Overview: Taxa monitored



Support & input for Reports

- Overview project **launching reasons** (e.g. EU policy)
- **Costs of monitoring can be quantified**



Support & input for Reports

BioMAT can create electronic input for Member State reports, conditional on

- **Member States enter their monitoring schemes in DaEuMon**

In any case:

- **Supplementary information on monitoring available in DaEuMon, most likely not covered by Member State reports**

Thank you very much for your attention!

