



Council of Europe
Conseil de l'Europe

Standing Committee 36th meeting Emerald Biogeographical Evaluations From Data to Information

Marc Roekaerts, Otars Opermanis, Inese Gmizo-Larmane, Baiba Strazdina
Strasbourg
15 November 2016

Council of Europe
Conseil de l'Europe

Convention de Berne
Bern Convention



Réseau Émeraude
Emerald Network



Presentation Content

- ✓ **Short overview of ALL data collected**
- ✓ **Extracting Information: consolidated versions**
- ✓ **Presentation of the Emerald Tools**



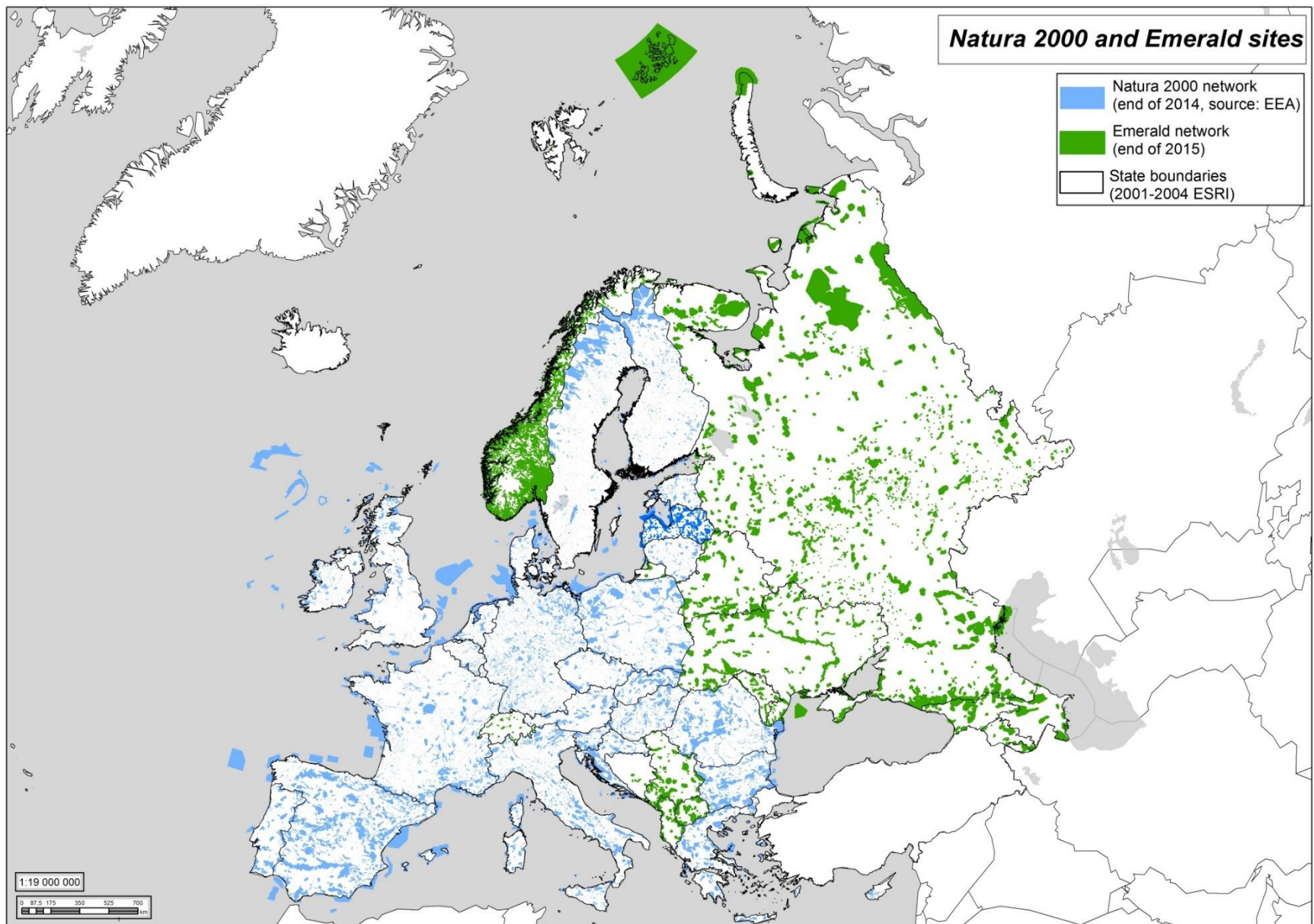


“Internal” Data Layers

- **Sites:** delivered in xml or MSAccess
- **Site boundaries:** delivered in shp-files and MapInfo
- **Country Reference Data Base:** delivered in MSAccess
- **Draft Conclusions and Conclusions Database:** MSAccess
- **Reference List:** MSAccess (as resulting from biogeo process)
- **Distribution maps** on species and habitats: delivered in a variety of formats but all integrated in shp

- **Database on possible candidate species for Res. 6**

Emerald and N2000 Site Boundaries





Results of all biogeographical evaluation Seminars

- ✓ **Consolidated version of countries
*Reference Lists***
- ✓ **Consolidated version of countries
*Conclusions Databases***





Emerald Network Evaluation Seminars

Year	Venue	Countries concerned	Biogeographical regions concerned	Species and Habitats covered
2011	Bar (Montenegro)	Albania, Bosnia and Herzegovina, Montenegro, Serbia, "the former Yugoslav republic of Macedonia	MED, ALP, CON, PAN	All
2012	Basel (Switzerland)	Switzerland	ALP, CON	All
2013	Trondheim (Norway)	Norway	ARC, ALP, ATL, BOR	All
2015	Tbilisi (Georgia)	Armenia, Azerbaijan, Georgia	STE, ALP-Caucasus, ANA	All (except birds)
2015	Petrozavodsk (the Russian Federation)	Belarus, Republic of Moldova, Russian Federation, Ukraine	ARC, BOR, ALP-Ural	All (except birds)
2015	Minsk (Belarus)	Belarus, Republic of Moldova, Russian Federation, Ukraine	n/a	Birds
2016	Chisinau (Republic of Moldova)	Belarus, Republic of Moldova, Russian Federation, Ukraine	CON, ALP-Car, PAN	All (except birds)
2016	Trondheim (Norway)	Norway	ARC, ALP, ATL, BOR	All (selection)
2016	Kiev (Ukraine)	Republic of Moldova, Russian Federation, Ukraine	STE, ALP-Caucasus, BLS	All (except birds)
2016	Tbilisi (Georgia)	Armenia, Azerbaijan, Georgia	n/a	Birds



Biogeographical Regions in Emerald Network Countries

Country code	Number of biogeographical regions	7 – ENP Countries
AL	2	
AM	2	2
AZ	3	3
BA	3	
BY	2	2
CH	2	
GE	3	3
MD	2	2
ME	2	
MK	2	
NO	5	
RS	3	
RU	7	7
UA	4	4
TOTAL:	42	23



Number of Res. 6 Species and Res. 4 Habitats in Reference List

	Birds	Plants	Habitats	Species
RU	137	82	122	119
AZ	122	16	40	41
UA	112	60	116	111
AM	108	10	28	37
AL	108	9	69	68
MK	103	9	57	66
RS	98	15	65	72
ME	98	13	70	76
BA	92	12	53	77
MD	80	15	33	68
BY	72	22	57	64
NO	56	46	27	33
GE	53	17	44	53
CH	49	11	41	45



Number of Species and Habitats according to consolidated Reference List

nr-countries	Animals	Birds	Plants	Habitats
14	2	8		3
13	9	14		9
12	5	19	1	4
11	8	15	1	3
10	6	17		9
9	4	7	3	6
8	4	9	2	7
7	8	7	2	10
6	16	15	3	5
5	21	13	8	14
4	23	6	3	18
3	19	7	16	9
2	26	11	38	41
1	42	25	63	31
selection:	38	50	20	"19+1"



Reference List: Results, BIRDS

	AL	AM	AZ	BA	BY	CH	GE	MD	ME	MK	NO	RS	RU	UA
A001	X		ND			X	ND	X	X	X	X	SR REF	X	X
A002	X		ND		X	X	ND	X	X	X	X	SR REF	X	X
A003											X			
A007	X		ND	SR REF					X	SR REF	X		X	X
A010	X								SR REF					
A014											X			
A015											X			
A019		ND	ND					X		X			X	X
A020	X	ND	ND					X	X	X			X	X
A021	X	ND	ND	X	X	X		X	X	X		X	X	X
A022	X	ND	ND	X	X	X	ND	X	X	X		X	X	X
A023	X	ND	ND	X	X			X	X	X		X	X	X
A024	X	ND	ND	X				X	X	X		X	X	X
A026	X	ND	ND	X			ND	X	X	X		X	X	X



Presence of HABITATS: number of biogeo-regions/country

CODE	AL	AM	AZ	BA	BY	CH	GE	MD	ME	MK	NO	RS	RU	UA
C1.1	2	1	2	3	1	2	1		2	1	4	2	6	2
C1.222	2			1	2	2		2	1	2		2	4	3
C1.223				1	2			2				2	4	3
C1.224	2	1		3	2	2	2	2	2	2		3	6	3
C1.225	2	1	2	2	1		2	1		2		2	4	3
C1.226	1				1			1		2		2	2	2
C1.2416			1										1	
C1.25	2			1	2	2		1	2	2		2	5	4
C1.32					1			2					3	4
C1.33					1			2					3	4
C1.3411	2			3	2	1		1	2	2		3	4	3
C1.3413				2	1	2		1				2	3	3



43 Res. 4 HABITATS without any reference in any country

CODE	TITLE
B1.9	Machair
B3.24	Unvegetated Baltic rocky shores and cliffs
C1.24113	Transylvanian hot-spring lotus beds
D6.23	Interior Iberian salt pan meadows
E1.55	Eastern sub-Mediterranean dry grassland
E2.15	Macaronesian mesic grassland
E3.3	Sub-mediterranean humid meadows
E7.3	Dehesa
F2.32	Subalpine and oroboreal Salix brush
F2.336	Rhodope Potentilla fruticosa thickets
F2.41	Inner Alpine Pinus mugo scrub
F2.42	Outer Alpine Pinus mugo scrub
F2.43	Southwestern Pinus mugo scrub
F2.44	Apennine Pinus mugo scrub
F2.45	Hercynian Pinus mugo scrub
F3.12	Buxus sempervirens thickets
F3.21	Montane Cytisus purgans fields



CONCLUSIONS DATABASE: BIRDS (11 countries)

CODE	AL	BA	BY	CH	MD	ME	MK	NO	RS	RU	UA
A001	SUF	EXCL REF	EXCL REF	X	IN MOD	SUF	IN MIN	IN MOD	SR Ref	IN MOD/SR	SUF/CD
A002	SUF	EXCL REF	IN MOD	X	IN MOD	SUF/CD	SUF	IN MOD	SR Ref	IN MIN/IN MOD	SUF/CD
A003	EXCL REF	EXCL REF		EXCL REF/CD		EXCL REF/CD	EXCL REF	IN MOD	EXCL REF		
A007	SUF	SR Ref	EXCL REF	EXCL REF		IN MIN	SR Ref	IN MOD	EXCL REF	IN MIN/IN MOD	SUF
A010	SR	EXCL REF				SR Ref	EXCL REF		EXCL REF		
A014								SUF/CD			
A015								SUF/CD			
A019	EXCL REF	EXCL REF			IN MIN	EXCL REF	SUF/CD		EXCL REF	IN MOD	SUF

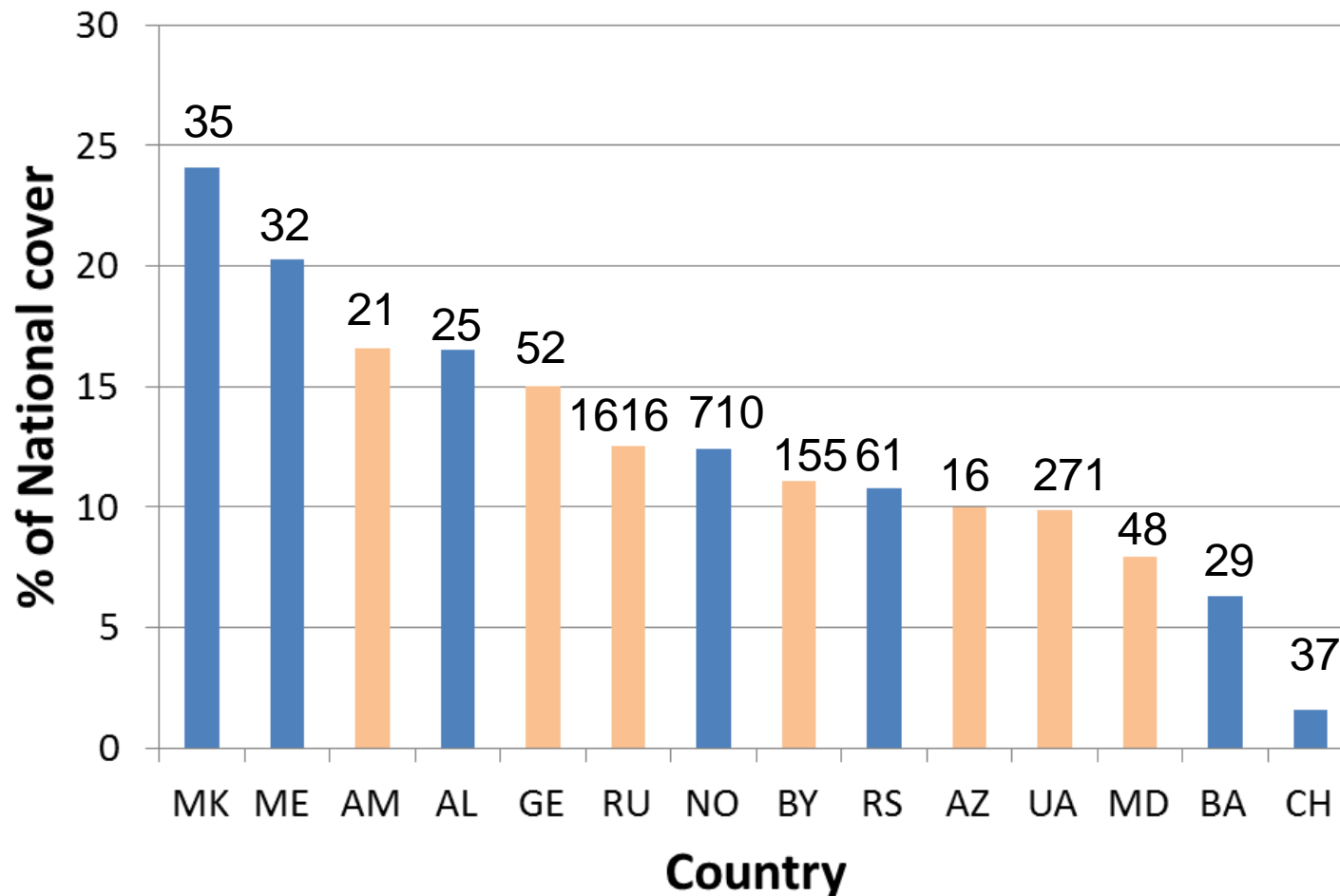


Total number of Species and Habitats present in at least 1 of the 14 countries concerned

Taxonomic group	N° of species listed in Res No. 6 (1998)	N° of species from Res No. 6 (1998) present in 14 countries	N° in biogeo regions
Amphibians	29	9	89
Fish	84	51	396
Invertebrates	136	75	738
Mammals	65	45	546
Reptiles	31	13	126
Plants (excl. 121 species for MAC)	563	140	581
Subtotal:	908	333	2476
Birds	207	173	173
Habitats (Res. 4 (1996))	212	169	1755
Total:	1327	675	4404

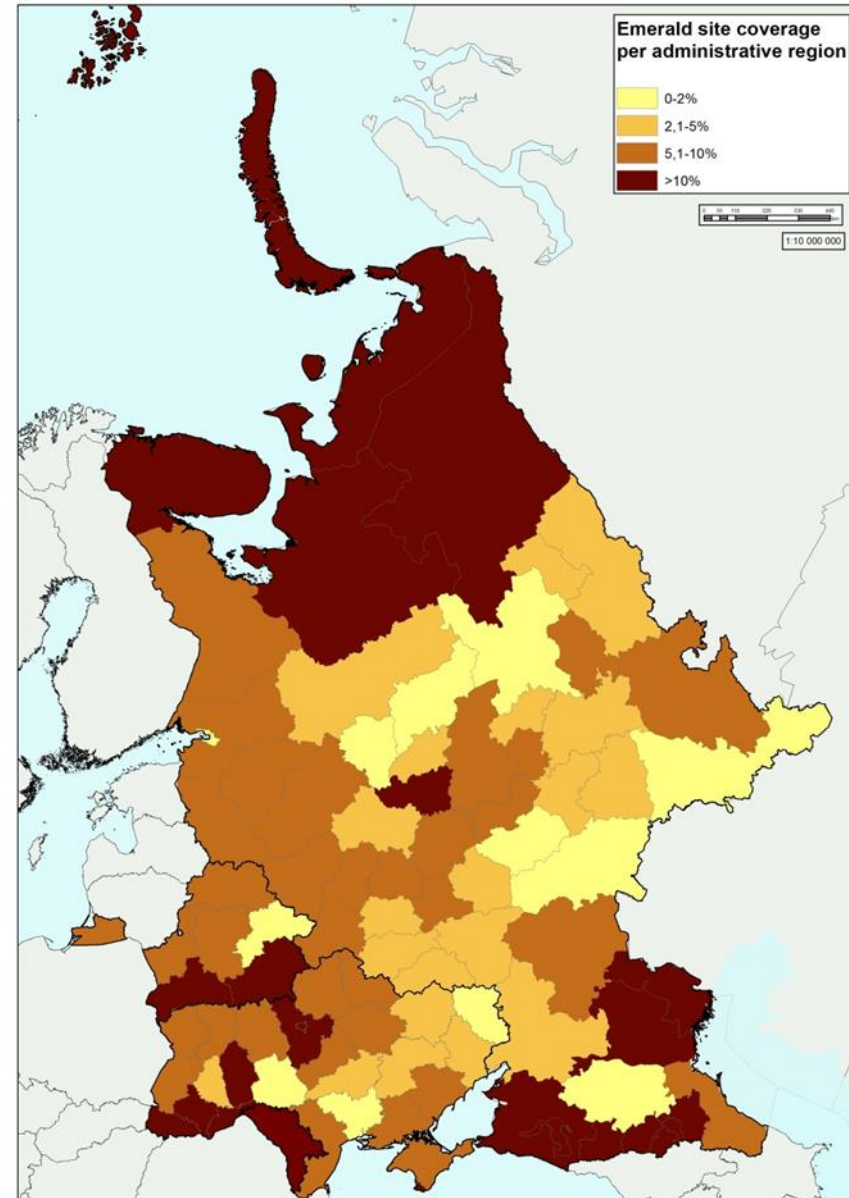


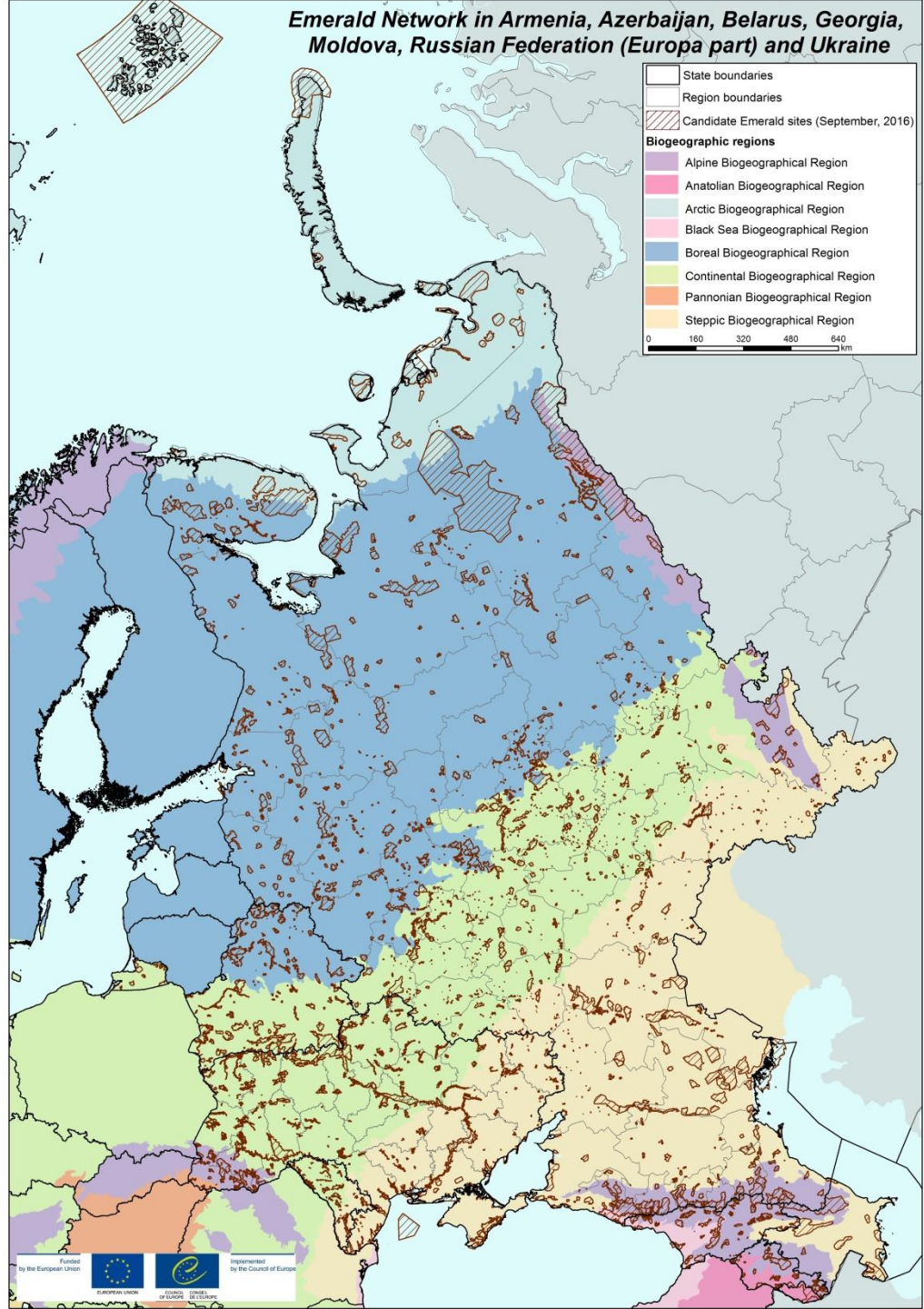
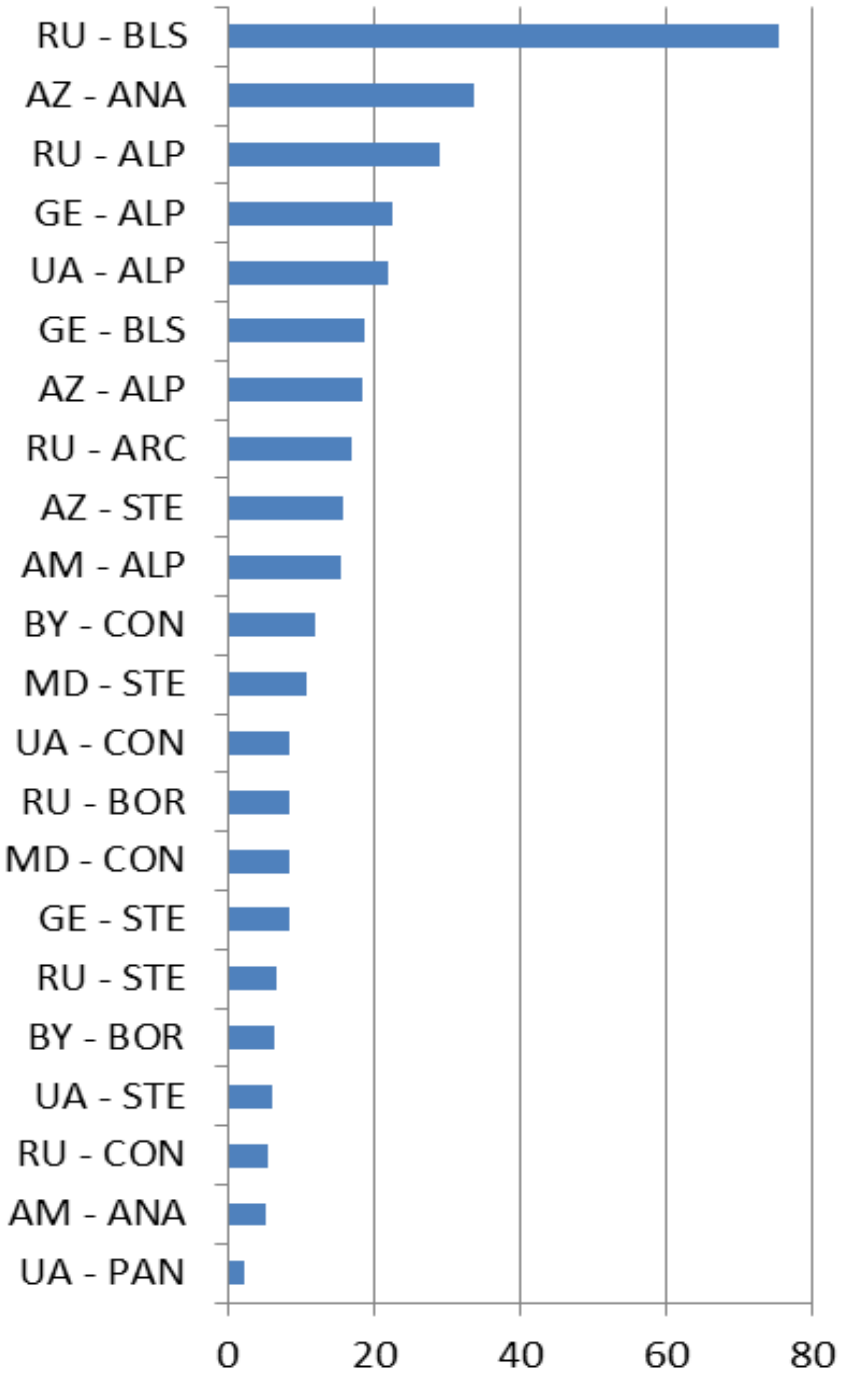
Quantitative: national cover by Emerald



Quantitative: site distribution and network evolution

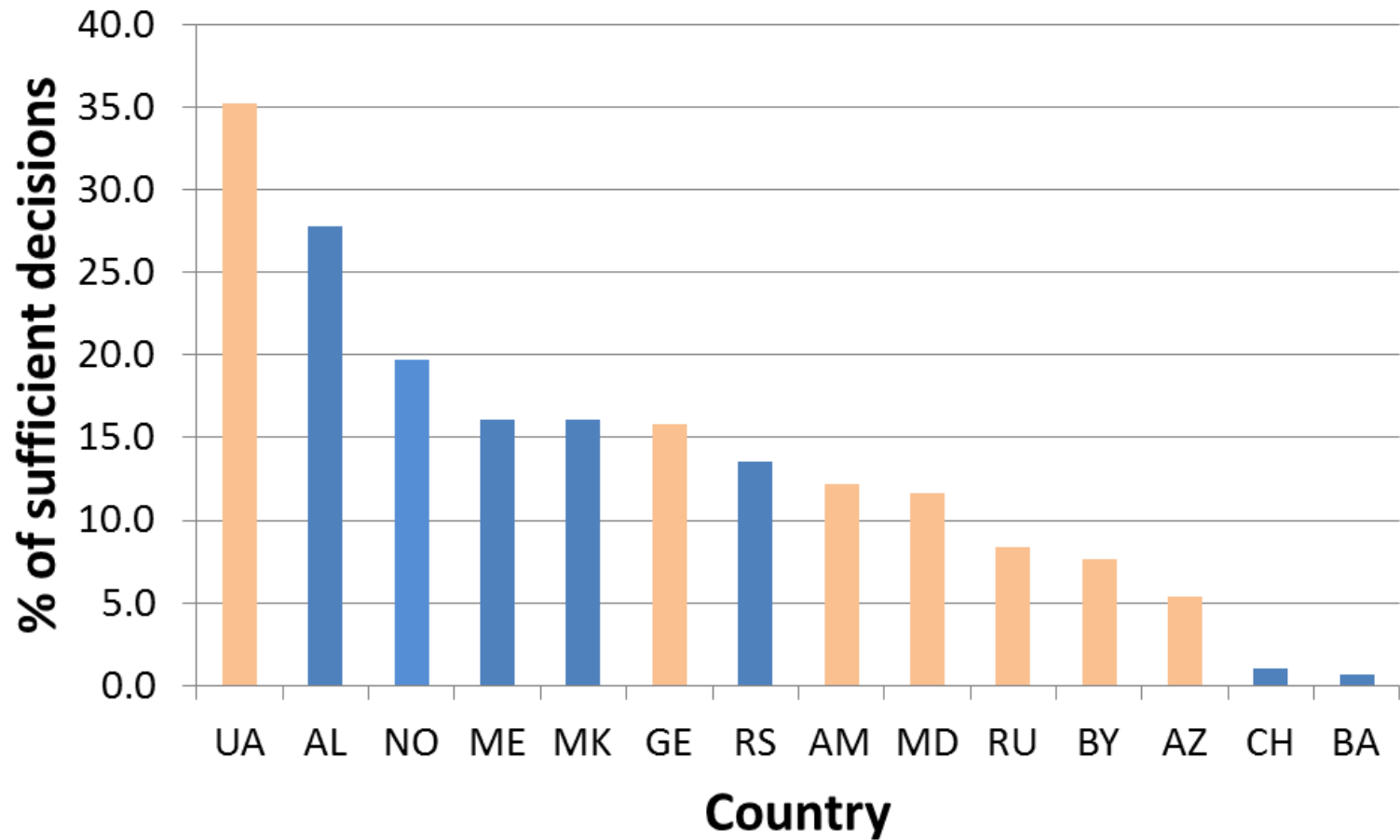
- Differences among administrative regions
- Differences among bio-geographical regions





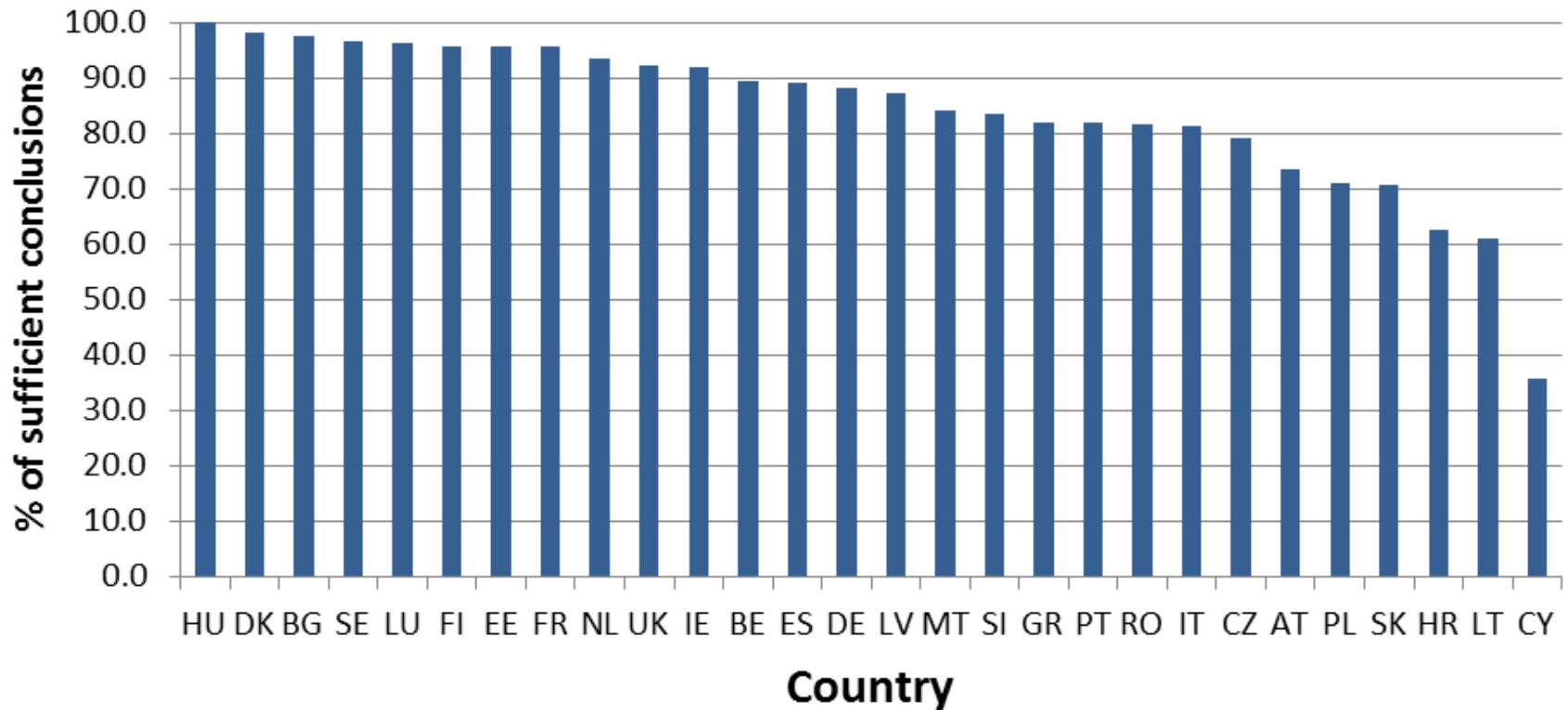


Qualitative: % of successful conclusions





Current sufficiency in Natura 2000 process



Natura 2000 and Emerald 2020



Presentation of Emerald Data Tools

- ✓ **SDF manager: sites tabular data input and export tool**
- ✓ **Emerald Web App: instrument for the secretariat but also QA/QC feed back to countries**
- ✓ **Emerald viewer:**
- ✓ **Including links to EUNIS and others**



**Thank you to all who have
contributed !**