Biodiversity data-flow in practice -
case study from Ljubljansko barje

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30.-31.1.2018 │ Improving data flows

-a story about biodiversity data-flow ended in designation of a protected area

-Ljubljansko barje become a Ljubljana Marshes Nature Park (IUCN V category).

       -first phase: collection and data preparation

       -second phase: formal proposal for designation

       -third phase: act of designation

-last Bid-Rex workshop in Ljubljana

-some hints about Ljubljansko barje and its natural values

Ljubljansko barje – 140 km^2

traditionally managed grassland – endangered but biodiversity rich

Snake's head fritillary – endangered but still common

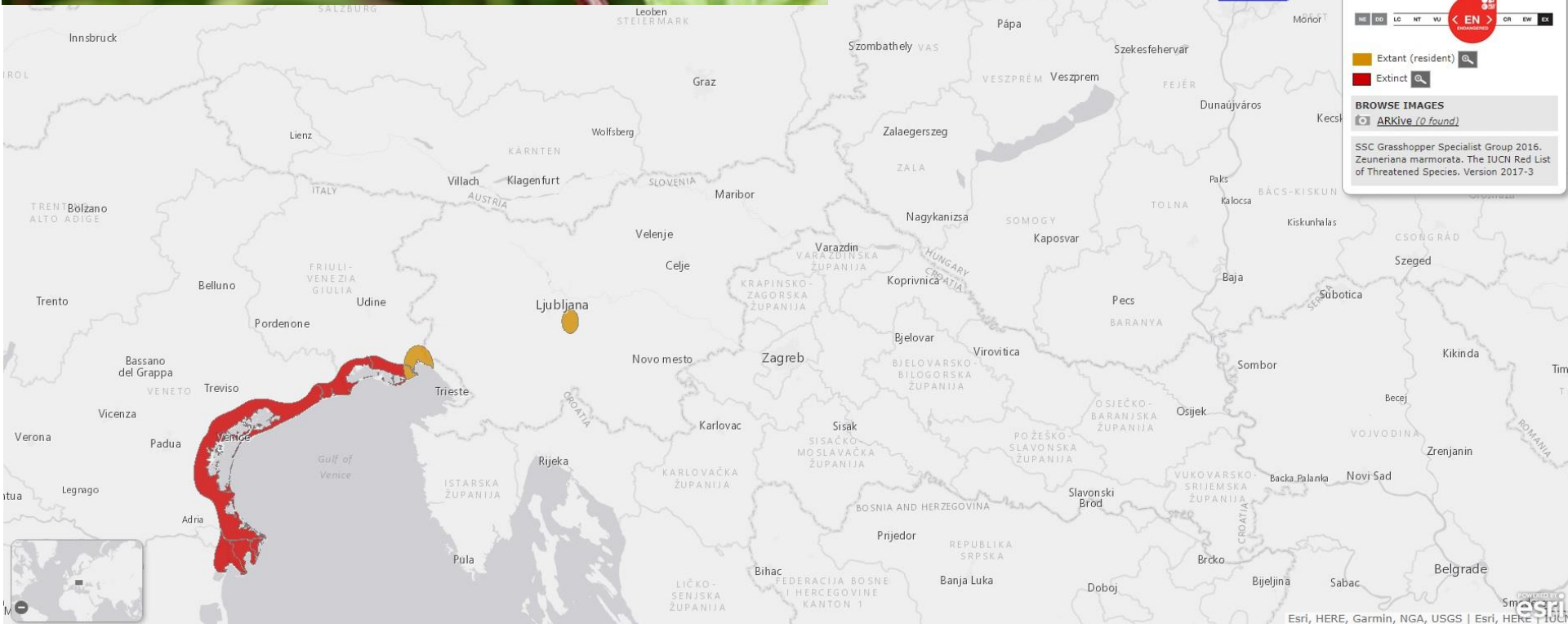Eurasian curlew – southern limit of European breeding range

Whinchat – one of the last strongholds

Foto: S. Gomboc

Adriatic marbled bush-cricket
-found in 2004
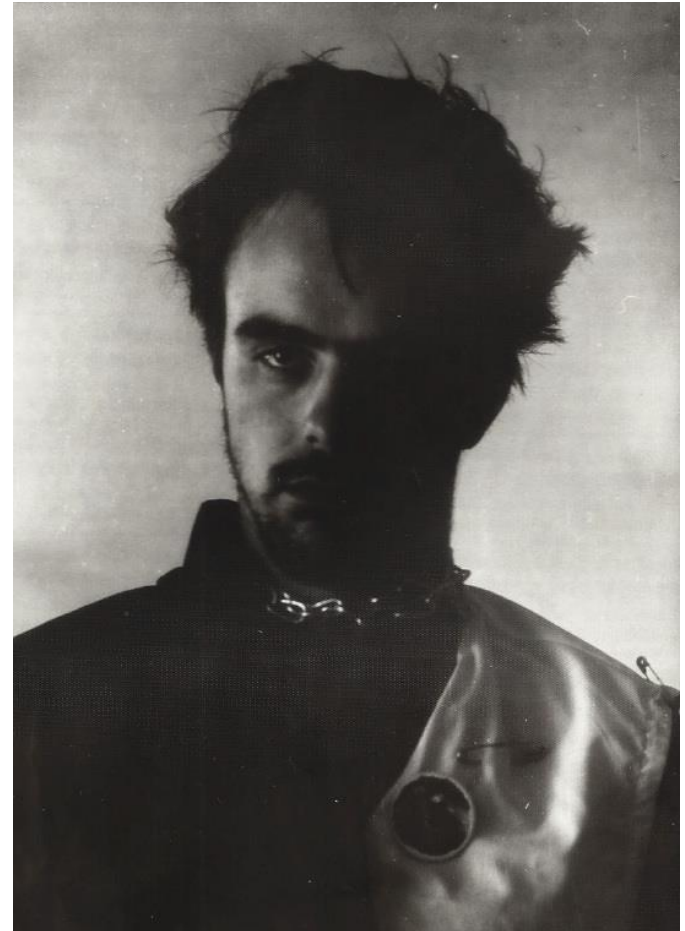-LB is one of two areas of distribution

Ljubljansko barje – floods reduce attractiveness for farming / building

Technical part:

-I will present only data on birds,

-beginning of the story in 1988,

-in order to have a good arguments for a protection, you need very good and detailed biological data,

-one way is, to do an atlas of distribution.

-just for the reference, how far is year 1988?

-1 x 1km grid of atlas of breeding birds of Ljubljansko barje
-detailed survey of all squares
-we finished field work in 10 years!

-a report form for one square (list of present birds + population size)!

author

dates of survey

grid location

population sizes

species

ORNITOLOŠKI ATLAS LJUBLJANSKEGA BARJA		IZPOLNIL	DATUMI OPAZOVANJ		OZNAKA KVADRATA	
GNEZDITVENO POROČILO		SOVINC	4.4. , 24.4. , 11.6. , 18.6. 1994		OAS 8144	LOA J/S

		K	N	O			K	N	O			K	N	O			K	N	O
0007	mali ponirek				0669	grivar				1236	kobiličar	V	1		1649	zelenec	V	4	
0122	siva čaplja				0684	turška grlica	G	1		1237	rečni cvrčalec				1653	lišček	V	8	
0186	mlakarica	G	3		0687	divja grlica				1243	bičja trstnica				1654	čižek			
0191	reglja				0724	kukavica	V	2		1250	močvirska trstnica	V	28		1660	navadni repnik	V	1	
0231	sršenar				0739	veliki skovik				1273	pisana penica	V	4		1679	rdeči kalin			
0261	pepelasti lunj				0767	mala uharica				1275	siva penica	V	23		1717	dlesk			
0267	kragulj				0831	vodomec	M	1		1276	vrtna penica	V	1		1857	rumeni strnad	V	10	
0269	skobec				0848	vijeglavka				1277	črnoglavka	V	18		1877	trstni strnad			
0287	kanja	V	1		0855	siva žolna				1311	vrbja listnica	V	8		1882	veliki strnad	V	3	
0304	navadna postovka	M	1		0876	veliki detel				1335	sivi muhar								
0307	rdečenoga postov.				0887	mali detel	V	1		1437	dolgorepka								
0310	škrjančar				0976	poljski škrjanec	V	35		1440	močvirska sinica								
0367	jerebica				0992	kmečka lastovka	'			1462	plavček								
0370	prepelica	V	1		1009	drevesna cipa	V	36		1464	velika sinica	V	1						
0394	fazan	V	2		1011	mala cipa				1479	brglez								
0421	kosec				1017	rumena pastirica				1487	kratkoprsti plezav.								
0424	zelenonoga tukali.	V	1		1019	siva pastirica				1490	plašica								
0493	priba	M	1		1020	bela pastirica	V	1		1508	kobilar	V	3						
0517	togotnik				1066	stržek				1515	rjavi srakoper	V	4						
0519	kozica				1099	taščica	V	1		1539	šoja								
0529	sloka				1104	mali slavec	V	1		1549	sraka	G	6						
0541	veliki škurh				1121	šmarnica	G	1		1567	siva vrana	G	9						
0553	pikasti martinec				1137	repaljščica	V	36		1582	škorec	G	8						
0554	močvirski martinec				1139	prosnik	G	24		1591	domači vrabec	G	~ 10						
0556	mali martinec				1187	kos	V	4		1598	poljski vrabec	G	~ 20						
0582	rečni galeb				1198	brinovka				1636	ščinkavec	V	3						
0668	duplar				1200	cikovt				1640	grilček	V	4		Izpolni tudi kodo vrste po EURING-u !				

K = kategorija (M<V<G),   N = število gnezdečih parov,   O = opombe

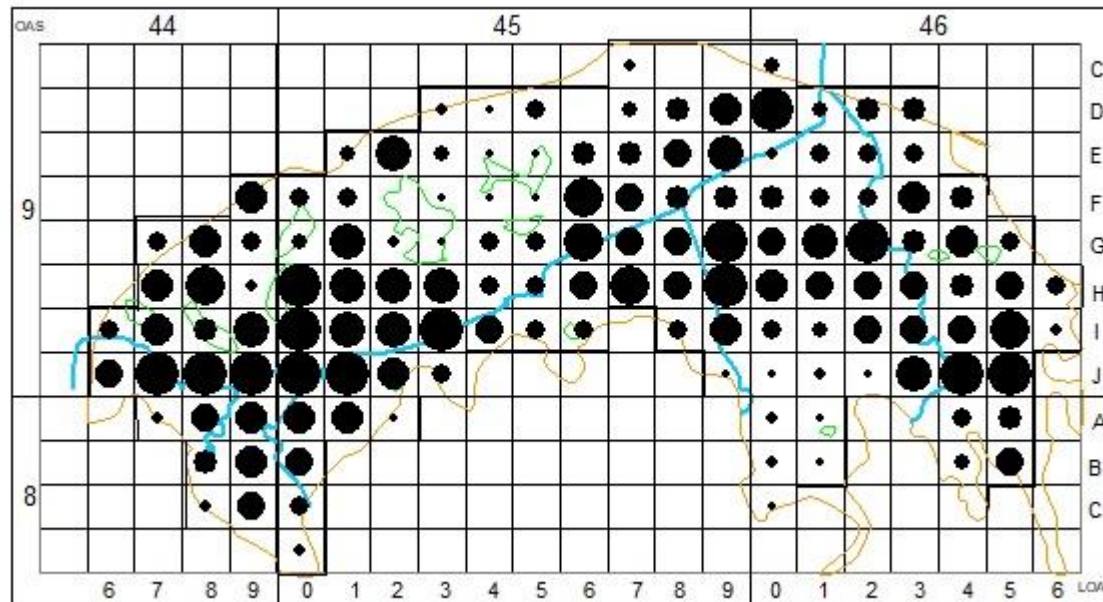**-not something we could present to decision-makers**

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A LIST OF IMPORTANT SPECIES – first task

-endangered species are not necessarily the best choice for the list, they can be present in naturally low numbers

-area of Ljubljansko barje < 1% of Slovenia

-list of 13 important species we can present to decision makers and argue why?
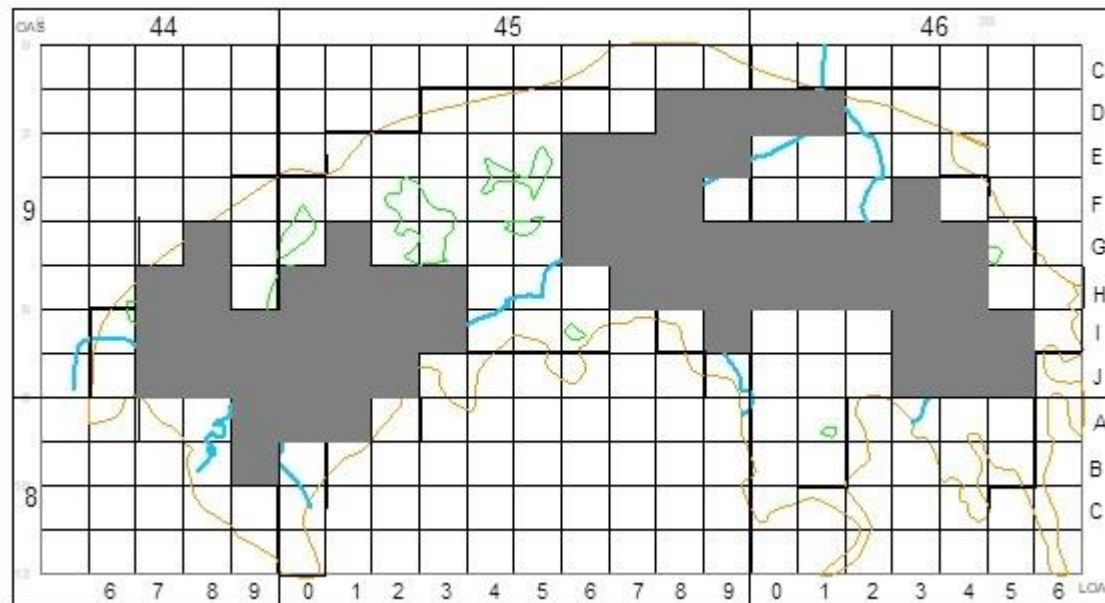
SLOVENIA

Ljubljansko barje

IDENTIFICATION OF IMPORTANT AREAS – second task

-a combined map of distribution of important species
(bigger circle → higher number of important species with bigger populations)

IDENTIFICATION OF IMPORTANT AREAS
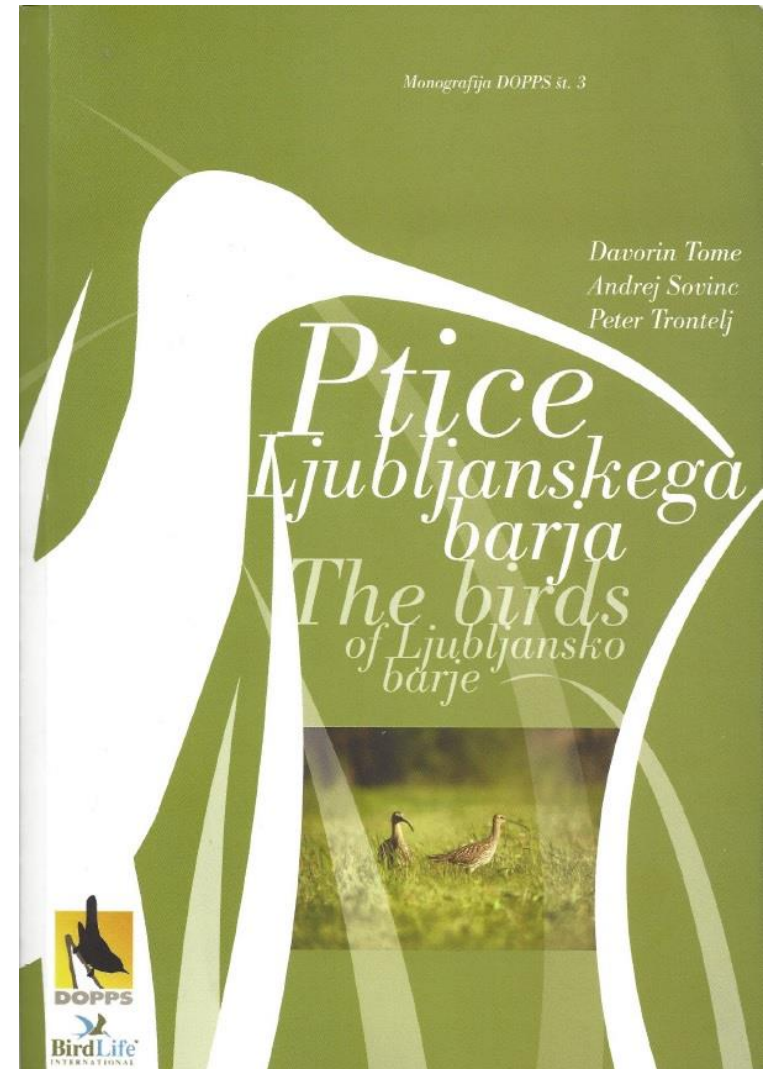## -for birds important areas

End result: a list of important species, important areas + simple explanations for decision makers

-The birds of Ljubljansko barje

      -including raw data, simplifications, presentations, argumentations, nature conservation ideas….
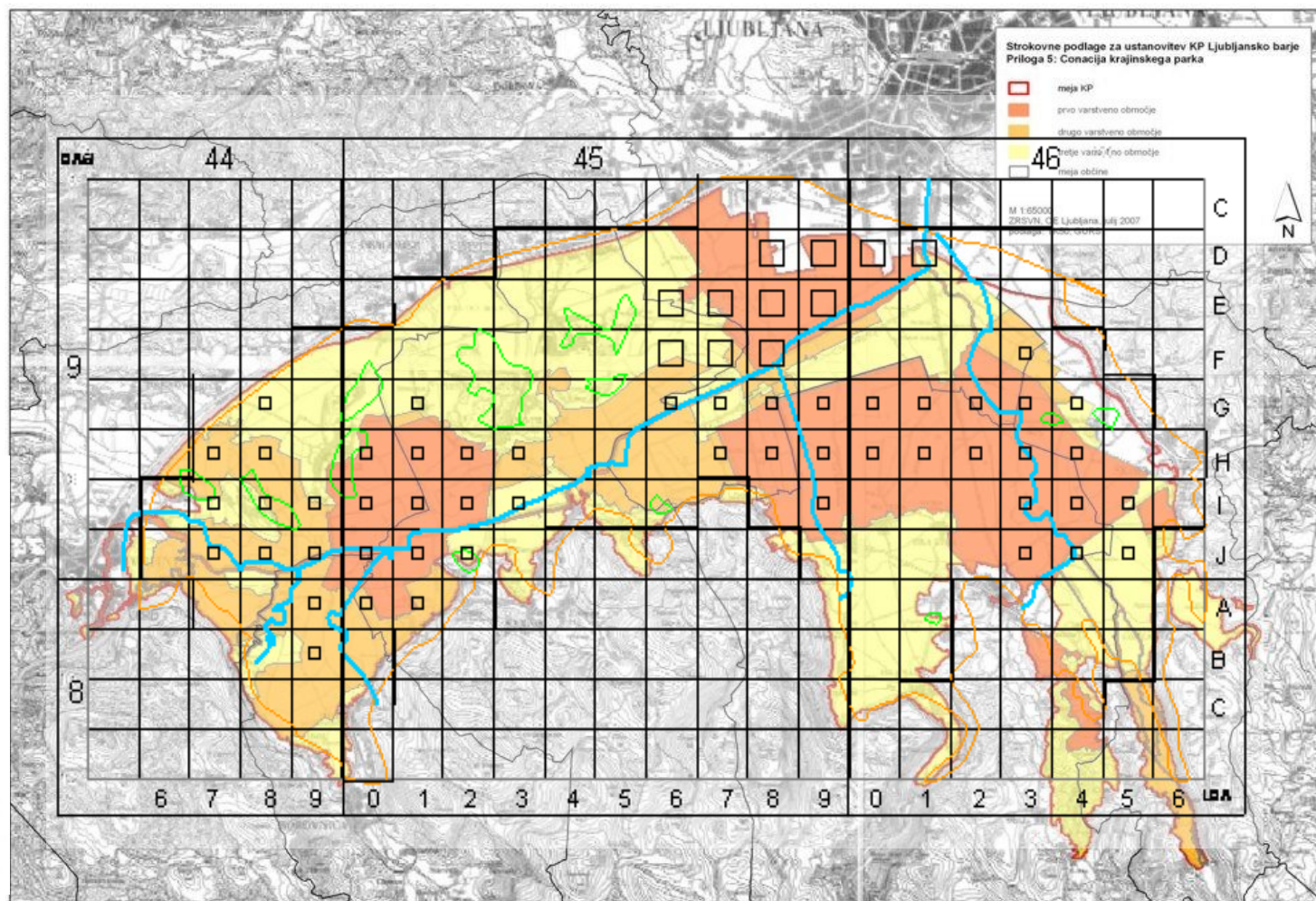
… all information available for public!

-phase II: all the data went to governmental institute for nature conservation (ZRSVN).

Three tasks:

      -to add data from other animal groups and plants that become available in meantime,

      -to write an official proposal for designation of the protected site,

      -to conduct iterative process of coordinations with politicians, end users, stake-holders, … (seven municipalities + government).
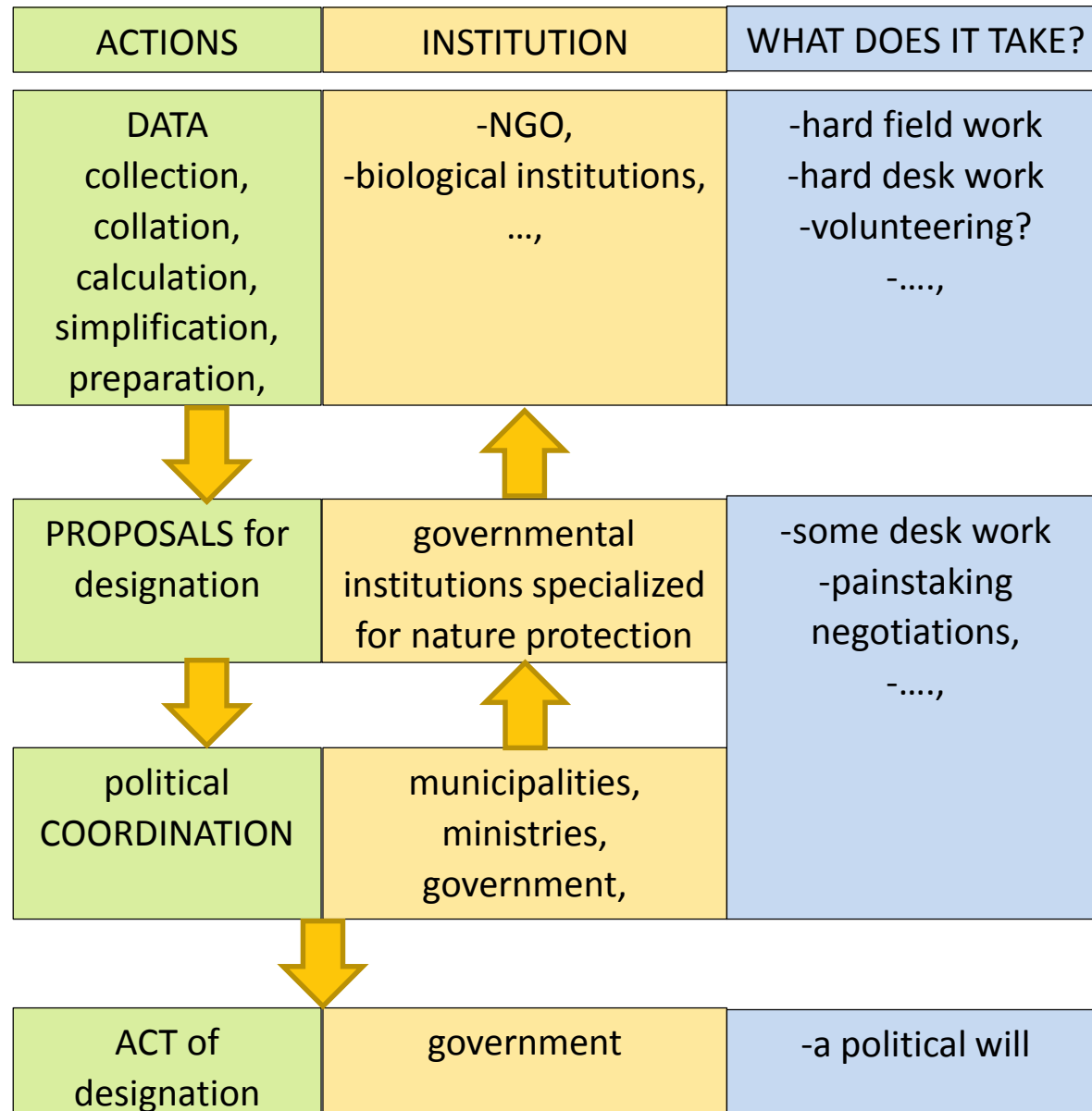
-phase III: in 2008 government declare a protected area with two core areas where nature conservation is priority

-chart flow of activities

ACTIONS	INSTITUTION	WHAT DOES IT TAKE?
DATA collection, collation, calculation, simplification, preparation,	-NGO, -biological institutions, …,	-hard field work -hard desk work -volunteering? -….,
PROPOSALS for designation	governmental institutions specialized for nature protection	-some desk work -painstaking negotiations, -….,
political COORDINATION	municipalities, ministries, government,	
ACT of designation	government	-a political will

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Questions welcome

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