



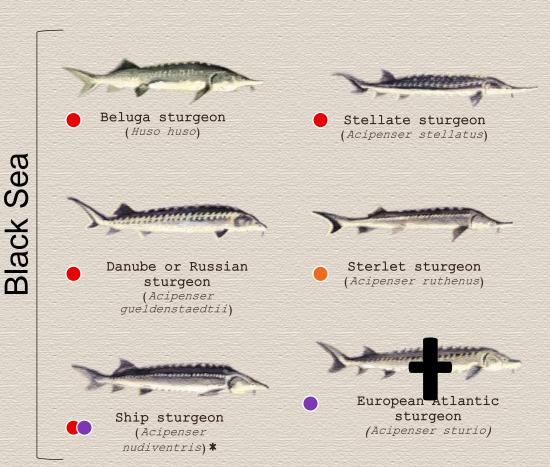
2003

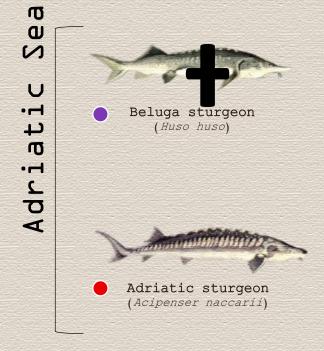
Pan-European Action Plan for Sturgeons Mid-term Evaluation and Introduction of Guidelines

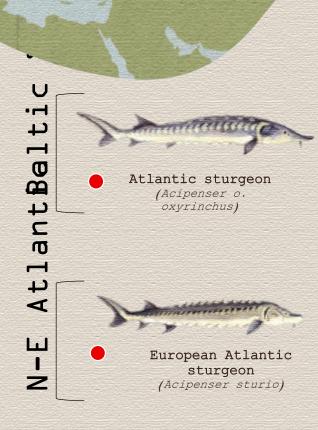
Beate Striebel-Greiter, WWF CEE Jörn Gessner, IGB, WSCS

Europe's endangered sturgeons

Least Concern
 Near Threatened
 Vulnerable
 Endangered
 Critically Endengered
 Extinct in the wild
 Extinct







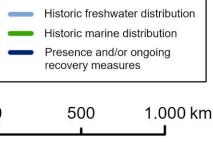
* Ship sturgeon (Acipenser nudiventris) is extinct in the Danube.

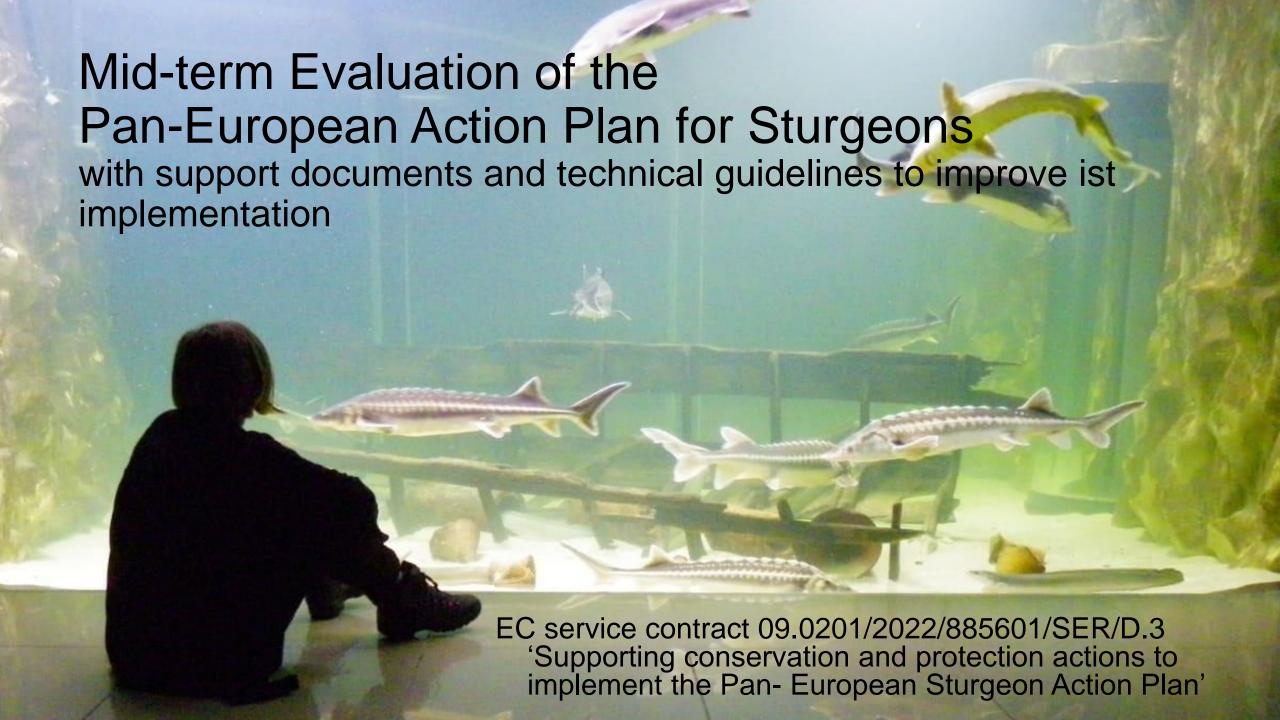


Today:

Sturgeons survived at low population levels only in very few rivers (Gironde, Po, Danube, Dniester, Rioni)

but...are subject to active recovery measures (ex: Elbe, Oder, Vistula, Narva,..)





Scope of the Service Contract

8 Species	11 Rivers	18 Countries
European Sturgeon	Gironde	France
	Rhine	Netherlands
	Elbe	Germany
Baltic Sturgeon	Narva	Estonia
	Gauja	Latvia
	Nemunas	Lithuania
	Oder	Germany/Poland
	Vistula	Poland
Adriatic sturgeon	Po	Italy
Sterlet	Upper-Middle Danube	Germany, Austria, Hungary, Slovakia, Slovenia, Croatia, Serbia
Stellate Sturgeon	Lower Danube	Serbia, Bulgaria, Romania, Ukraine
Beluga	Rioni	Georgia
Russian sturgeon		
Ship Sturgeon		

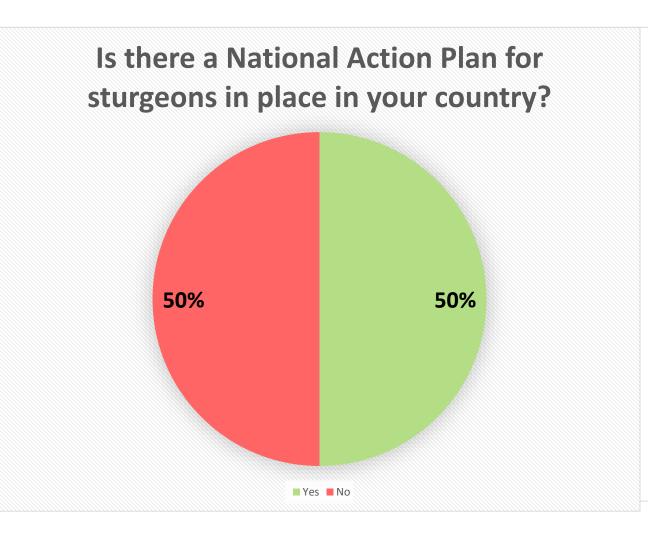
Methodology

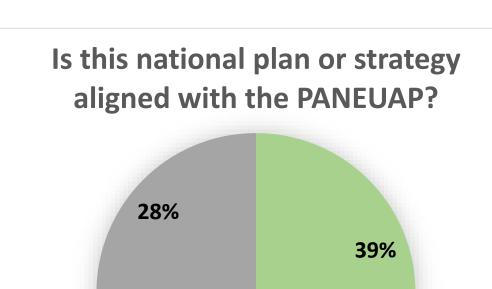
- Questionnaire with 85 questions covering 9 objectives of the PANEAUP
- Minimum 3 respondents per country including
 1 sturgeon expert, 1 water management authority, 1 biodiversity authority
- In case of deviating answers expert judgment was decisive
- Country assessments were compared within a region
- → 18 country assessments and 5 regional reports
- Selection of priority questions for this presentation

Example of results

Question	Austria	Croatia	Hungary	Germany - Danube	Serbia	Slovakia	Slovenia		
OBJECTIVE 1 - REMAINING WILD POPULATIONS ARE PROTECTED FROM ACCIDENTAL AND DIRECTED REMOVAL OF INDIVIDUALS									
RESULT 1.1 - Directed removal of individuals is eliminated									
ACTION 1.1.1									
Is fishing / angling of sturgeons prohibited or regulated in your country?	Fishing regulated	Fishing regulated	Fishing prohibited (unlimited)	Fishing prohibited (unlimited)	Fishing prohibited (unlimited)	Fishing regulated	Fishing prohibited (unlimited)		
ACTION 1.1.2									
10. Is there a clear procedure in place for providing catch allowances (for scientific purposes) and monitoring them?	Procedure partly in place	responsible authority	Procedure is in place and responsible authority designated	Procedure is in place and responsible authority designated	Procedure is in place and responsible authority designated	Procedure is in place and responsible authority designated	Procedure is in place and responsible authority designated		
ACTION 1.1.2 / 1.1.3									
11. Are the existing fishing regulations sufficiently enforced?	Enforcement in place and working	. , .	Enforcement in place and working	Enforcement in place and working	Enforcement partly working	Enforcement in place and working	Enforcement lacking		
12. Is Illegal, Unreported and Unregulated (IUU) fishing (of sturgeons) an issue in your country?	Can be neglected	IUU is under sufficient control	IUU is under sufficient control	Can be neglected	IUU is an issue	IUU is under sufficient control	Can be neglected		
13. Are seizures and cases of IUU recorded?	Seizures not recorded	Seizures are recorded	Seizures are recorded	Seizures not recorded	Seizures partly recorded	Seizures partly recorded	Seizures are recorded		
ACTION 1.1.4									
14. Do you consider the resources and the capacity building opportunities for enforcement authorities overall adequate? (drop-down menu)	Sufficient resources and capacities for the enforcement are in place			Sufficient resources and capacities for the enforcement are in place	There is a distinct lack of resources and capacities	There is a distinct lack of resources and capacities	Resources and capacities for the enforcement are partly in place		
ACTION 1.1.5									
15. Is the involvement of fishers / anglers / communities in the planning and implementation of conservation actions a practice in your country?	Practice established	Practice established	Practice partially in place	Practice established	Practice partially in place	Practice established	Practice established		
16.a. Are affected fishing communities in	No	Yes	No	No	No information available	No	No		

Country level action plans or strategies?

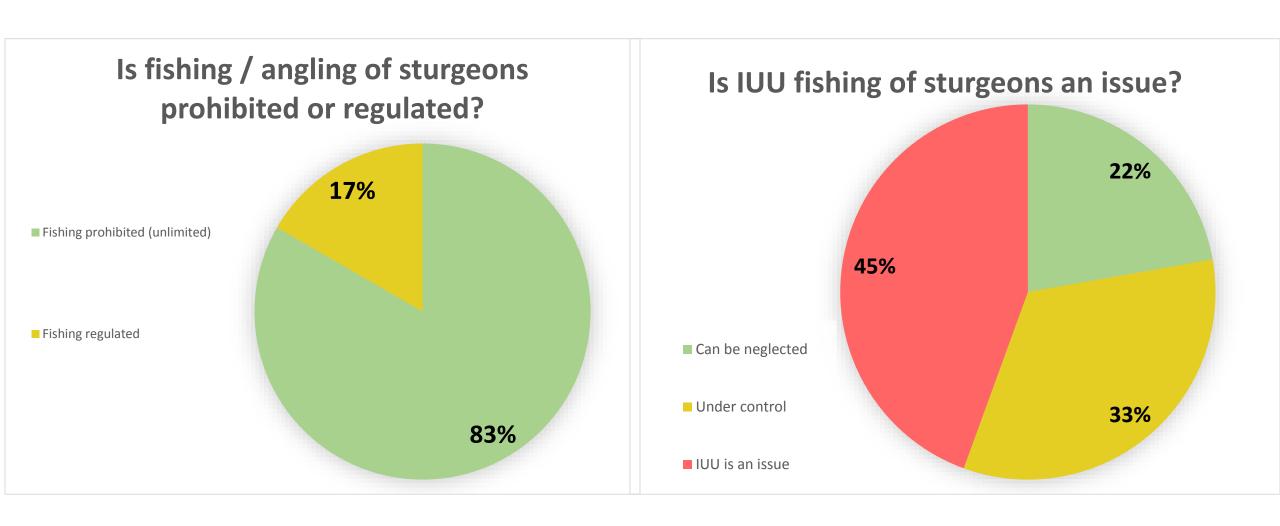




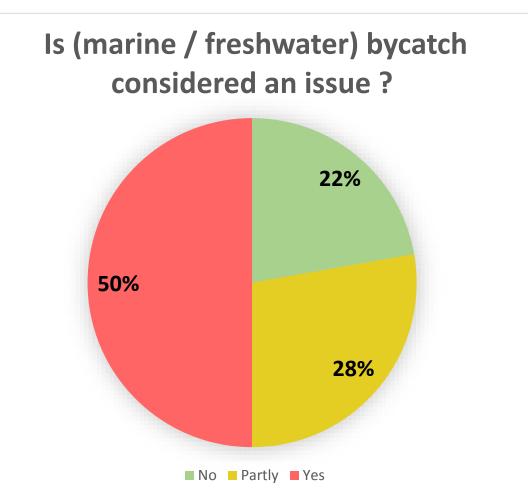
33%

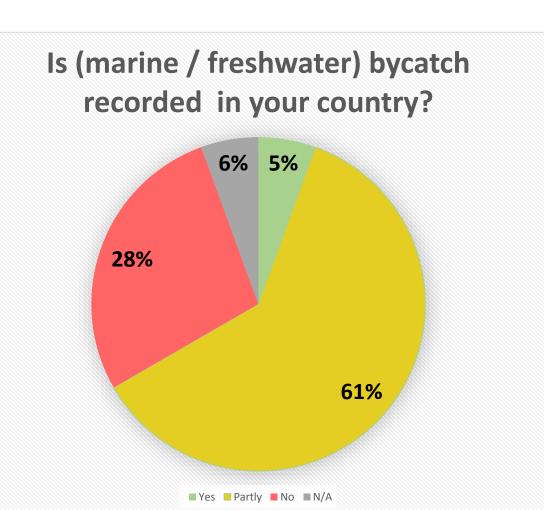
■ Yes ■ No ■ N/A

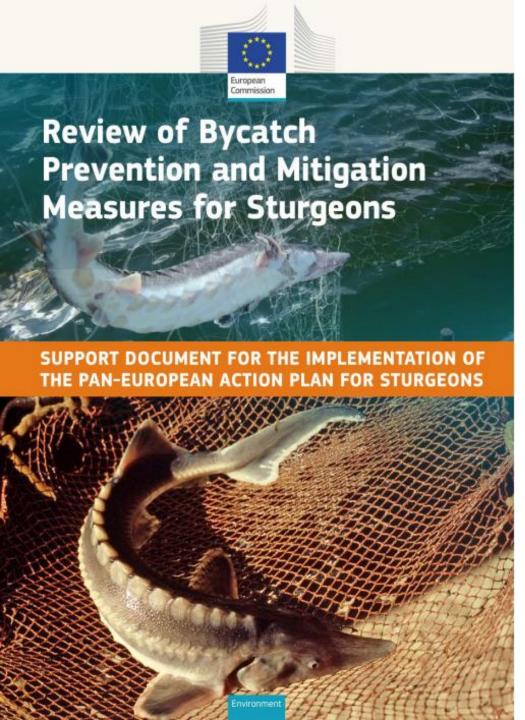
Obj. 1: Removal from the wild is prohibited



Obj. 1: Reduce bycatch







Bycatch Review - Content

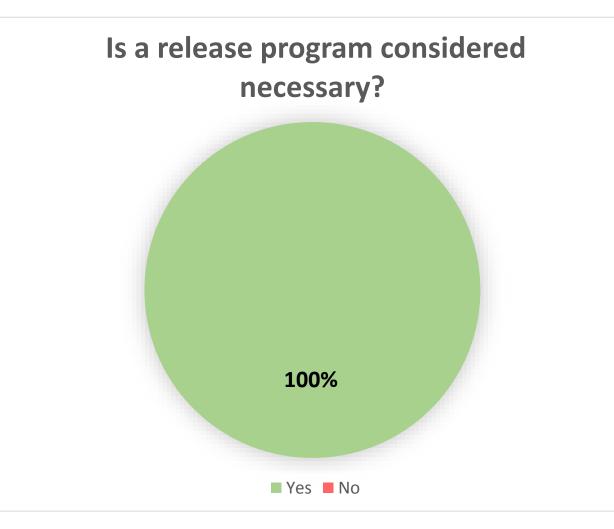
- First review on sturgeon bycatch ever
- European and N-American literature analysed
- Includes
 - simple examples of communication tools for exchange with fishers from different European regions
 - Other recommendations

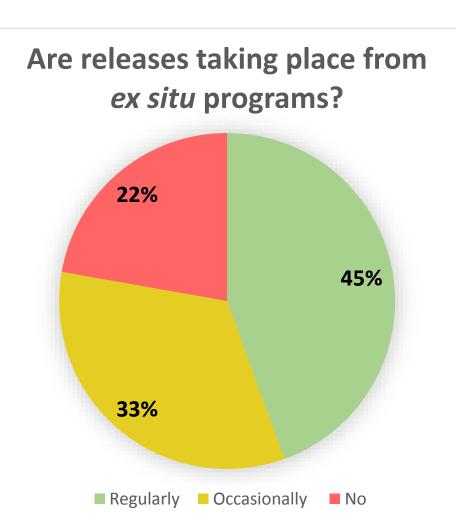
Main conclusions

- Bycatch issue currently underestimated as populations are very small - will rise with increasing populations
- Despite legal obligations, official sturgeon bycatch data are not available
- Only voluntary reports by fishers (biased but only infosource)
- Fishers as key target group must be transparently involved – big communication effort
- Implement and enforce regulations to increase effectiveness of protection
- Better knowledge on sturgeon spatial and temporal distribution in marine areas can be gathered by obligatory catch reports
- Data exchange within the sea basins needed

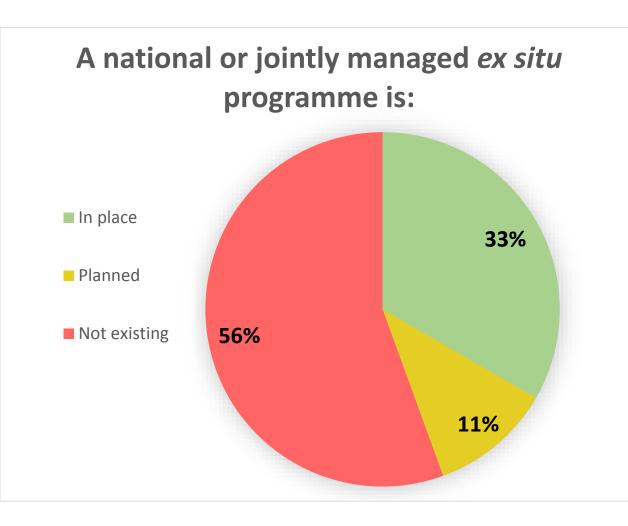


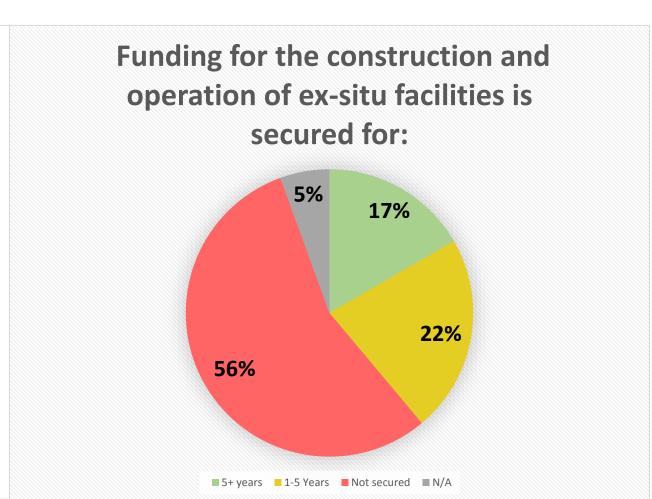
Obj. 2: Populations are actively supported

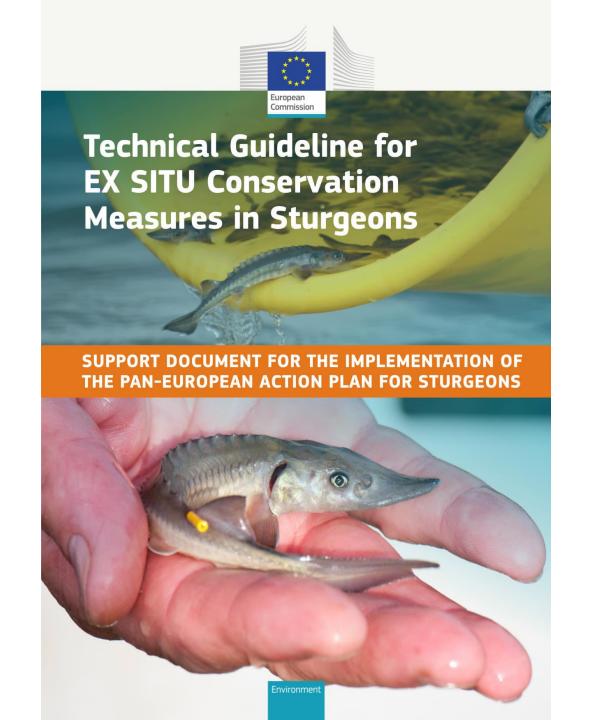




Obj. 2: Populations are actively supported







Ex situ conservation measures



- The guideline contributes to Objective 2 **POPULATION**STRUCTURE IS ACTIVELY SUPPORTED TO REVERSE THE DECLINE
- Comprises all measures to protect and promote
 - Genetic diversity between populations of different origin (reflect adaptations to different environmental conditions)
 - Genetic diversity within populations (represents their adaptive potential)
- in threatened species and their populations under controlled conditions
- Involves propagation and rearing
- Can serve as a stop gap measure while other recovery actions are implemented

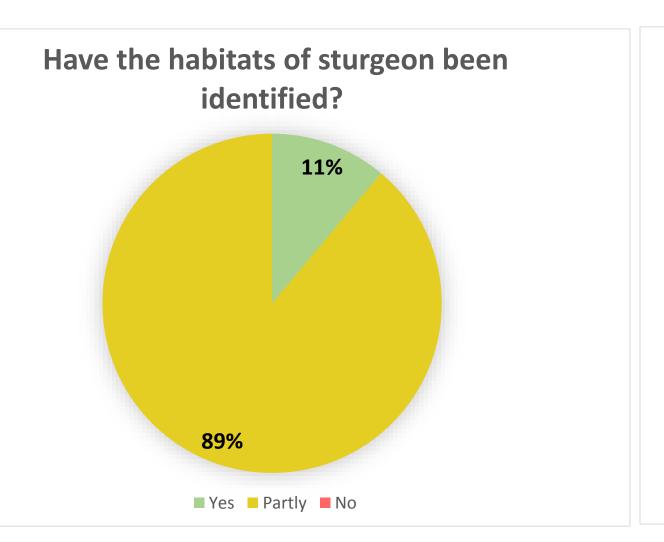
Main recommendations



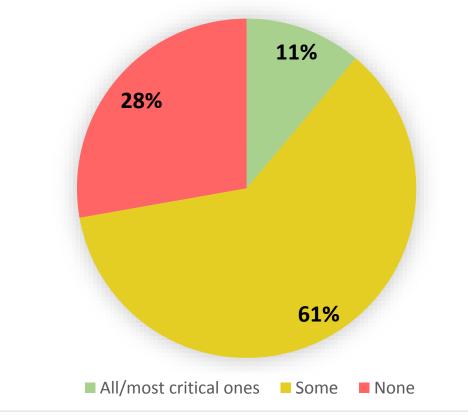


- Plan *ex situ* programs in cooperation with range countries sharing populations
- → Shared costs, capacities and impact
- Long-term planning and funding needed
- Use guideline to build on best practices and avoid risks
- Include monitoring to evaluate success/failure
- Restocking alone is not an option –
 threat reduction needs to be adressed in parallel

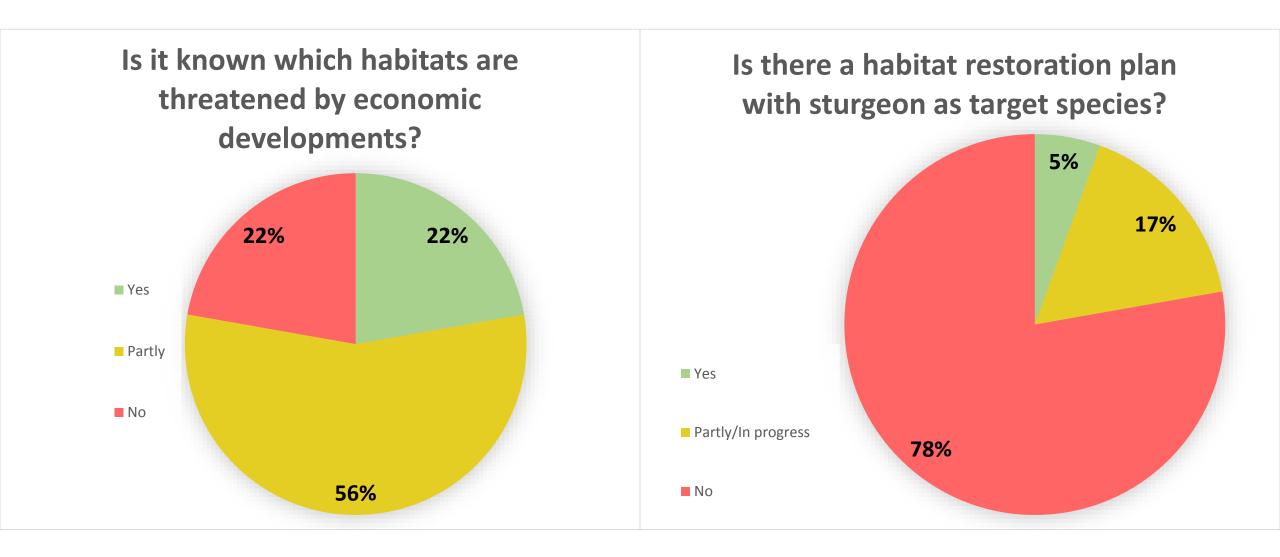
Obj. 3: Habitats are protected and restored

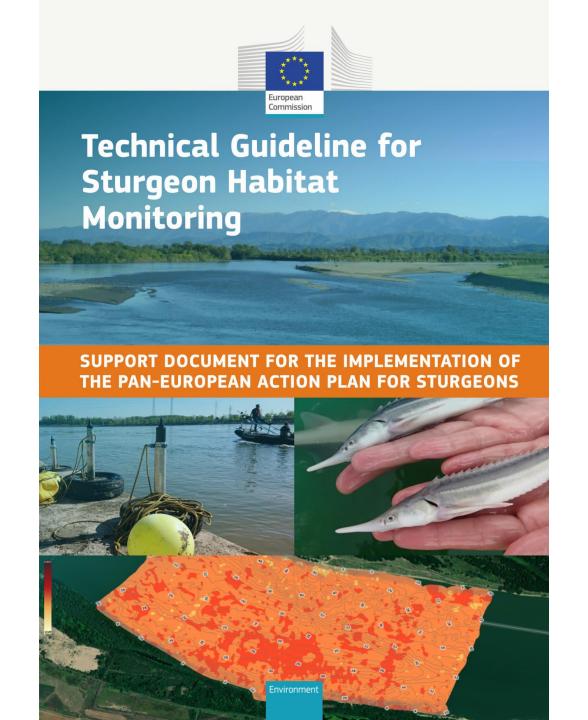






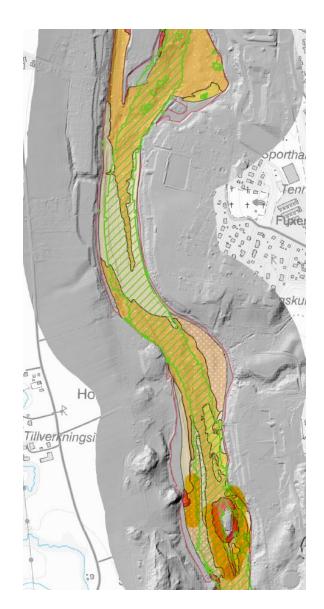
Obj. 3: Habitats are protected and restored





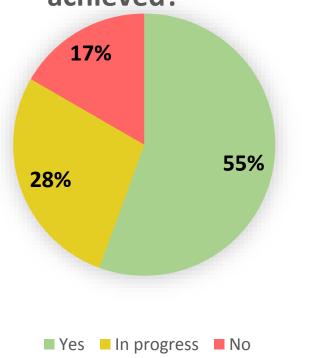
Relevance of Habitat Assessment and Monitoring Guideline

- Habitat assessment provides an indispensable knowledge on the environmental suitability of habitats
- The guideline proposes a four step approach of
- (1) identification
- (2) verification
- (3) confirmation and
- (4) recurring monitoring measures for sturgeon habitats
- Standardized methodology and harmonized approach within a river or sea basin is needed
- It is the basis for all habitat protection measures and any infrastructure plannings (no-harm principle)

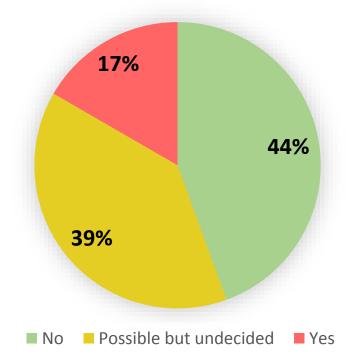


Obj- 4: Migration is secured or facilitated



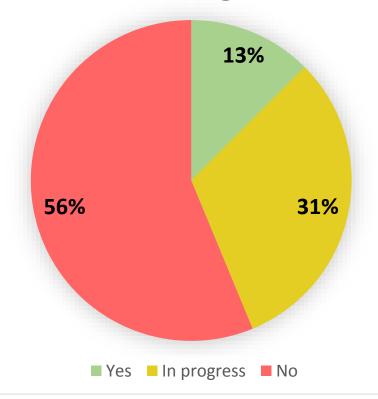


Are there plans for building new migration obstacles in key sturgeon rivers?

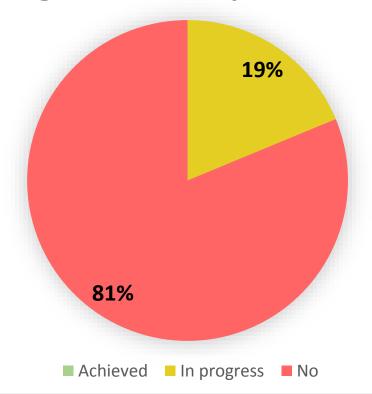


Obj. 4: Migration is secured or facilitated

Have funds been allocated for feasibility studies as well as mitigation measures?

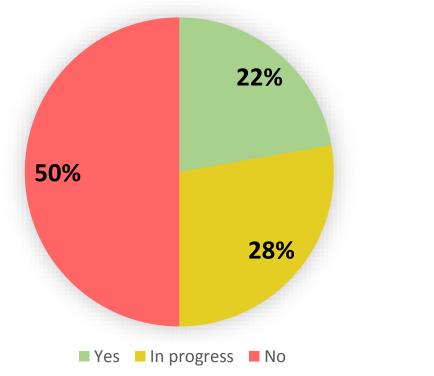


Have functional passage solutions for sturgeons been implemented?

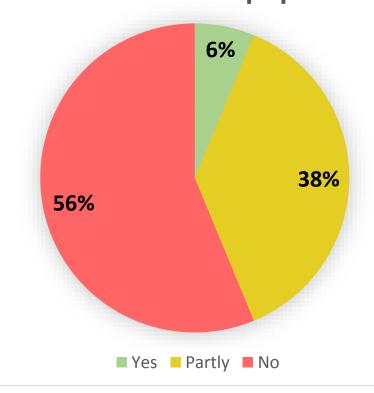


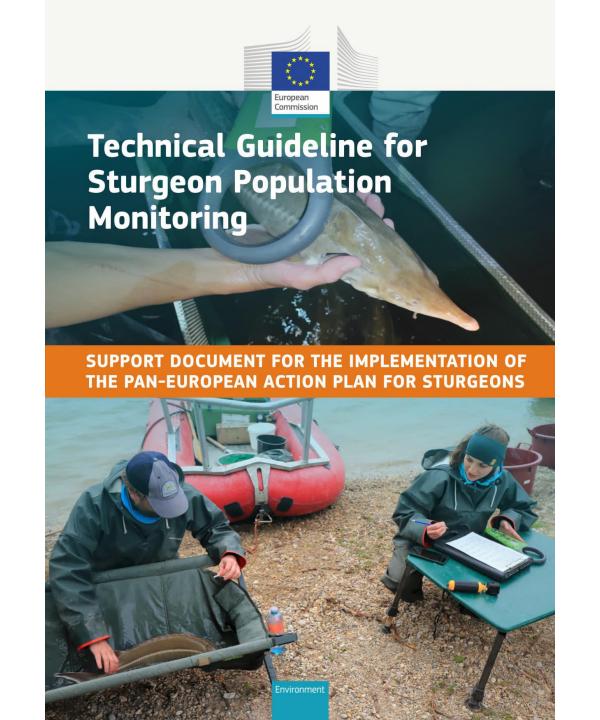
Obj. 5: Population monitoring is designed and implemented





Is monitoring coordinated with other countries for shared populations?





Population monitoring

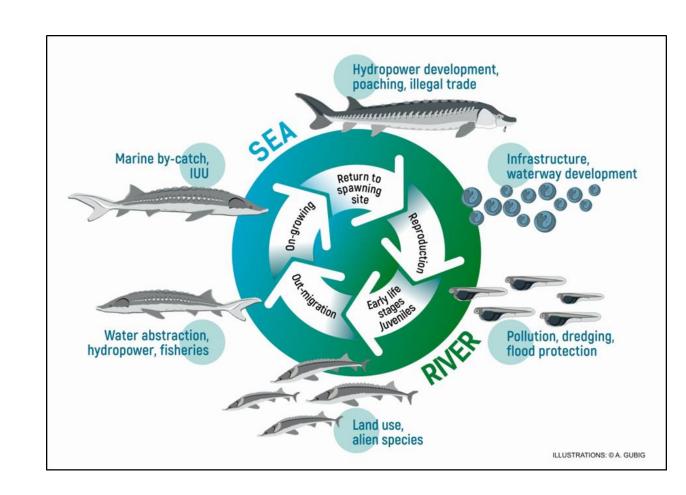


serves to:

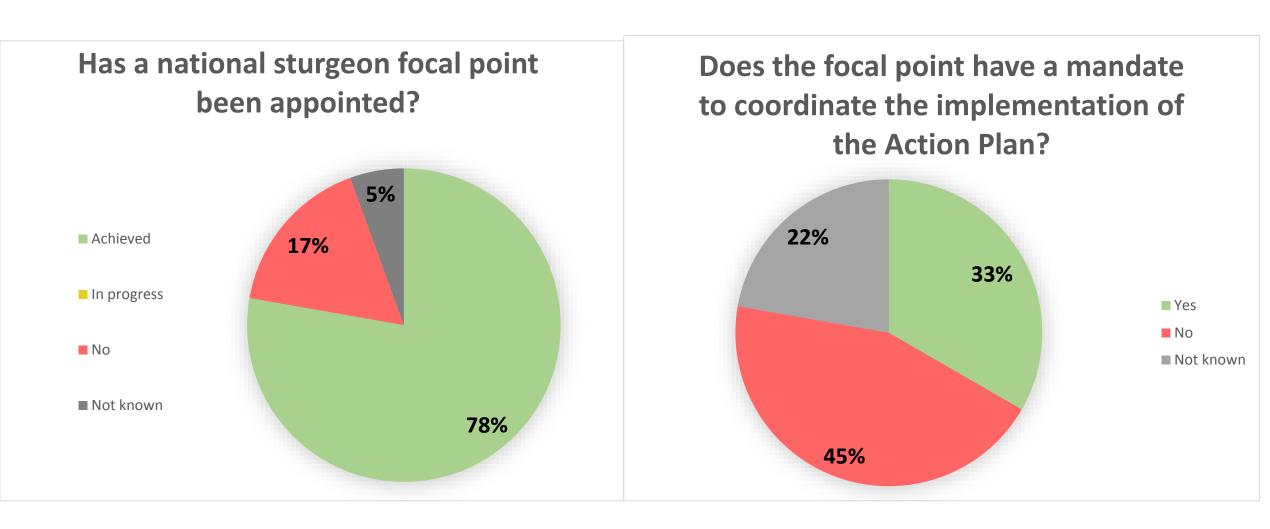
- Provide science-based data
- Assess development of populations
- Evaluate effects of ongoing recovery measures
- Identify bottlenecks
- → Prerequisite for science-based management decisions

Relevance of monitoring guideline

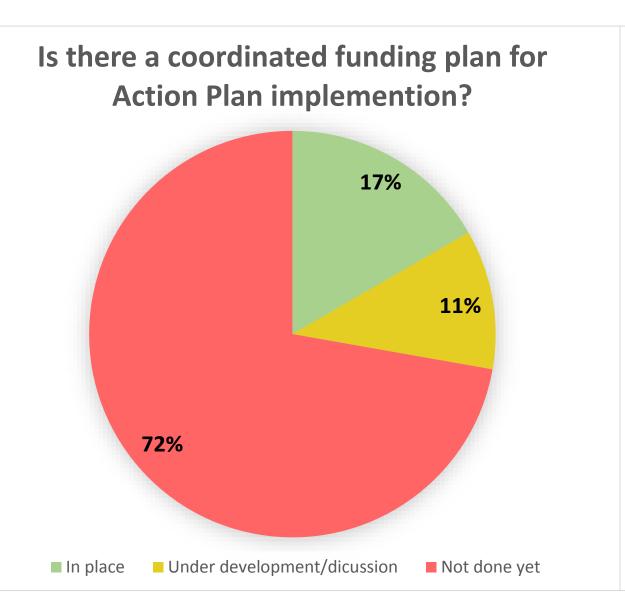
- The guideline provides
 - Methods and applications based on life-cycle stages
 - Guidance for practitioners
- Sturgeon monitoring is a longterm endevour and needs appropriate funding!
- Data collected (in particular with public funding) must be made accessible and shared between institutions and countries



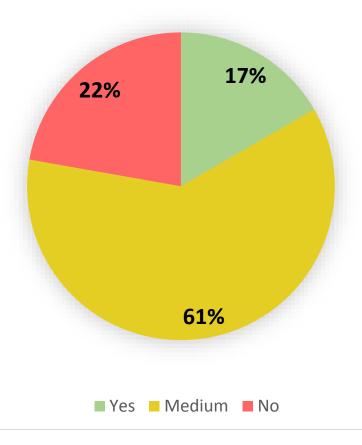
Obj. 9: Monitor national implementation of PANEUAP



Obj. 7: Enabling Conditions – Funding & Awareness



Is the awareness of main stakeholders and authorities considered high enough?



Summary and Conclusions

- 50% of countries have a national strategy
- Legal protection in place but 8 countries state poaching remains an issue
- Bycatch is a problem for a majority of countries but is not tackled jointly
- All 18 countries say release programs are necessary!
 Yet in 10 countries an ex situ program is lacking
- Habitat identification is in progress but protection of habitats is largely lacking or not functional and restoration basically not happening
- Obstacles to migration are mostly identified but passage is not facilitated
- Monitoring programs are in place in 4 countries but in progress for other 5
- Coordination of monitoring between countries is lacking
- 17 of 18 countries have national focal points but their mandate is not clear













Eesti Loodushoiu Keskus





Università degli Studi di Padova Subcontractors:

PhD. Ralf Reinartz