# Flagship project to ensure sustainable fishing of Salmon in the Baltic Sea Region

Laura Píriz

3rd meeting of Priority Area 9 - Fisheries

18 November 2010









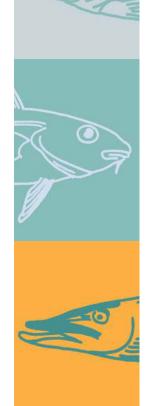




#### Preliminary project idea

To contribute to ensure a sustainable fishing on salmon by safeguarding the biological diversity of salmon populations.

What is putting the biological diversity of Baltic Salmon at risk?





#### What has been done so far in the planning process?

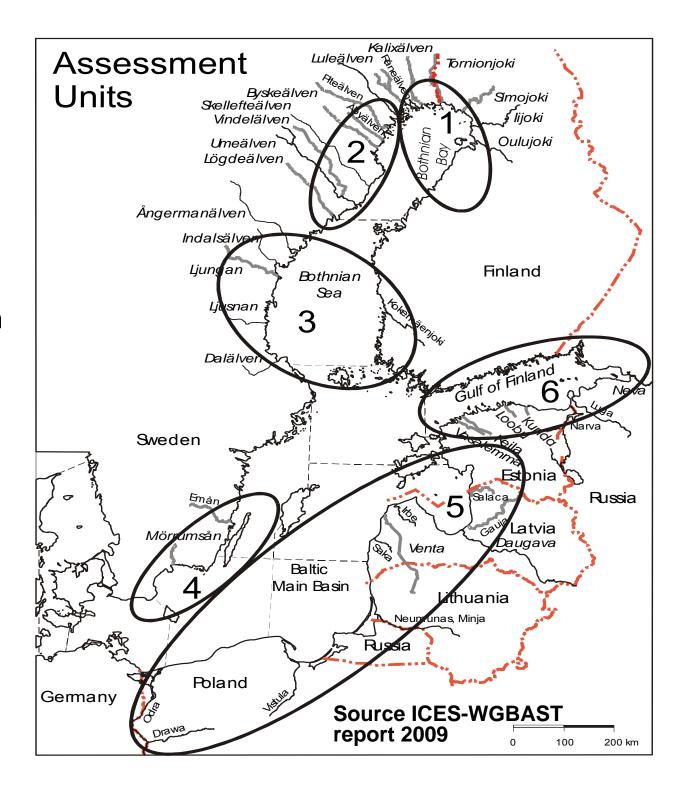
After deciding for salmon "as our case" the idea has been presented and discussed at various levels. To support the discussion we elaborated a concept paper which highlights biological, social and institutional diversity aspects of the case of Salmon fisheries in the Baltic.

We have presented our ideas and collected feed back from :

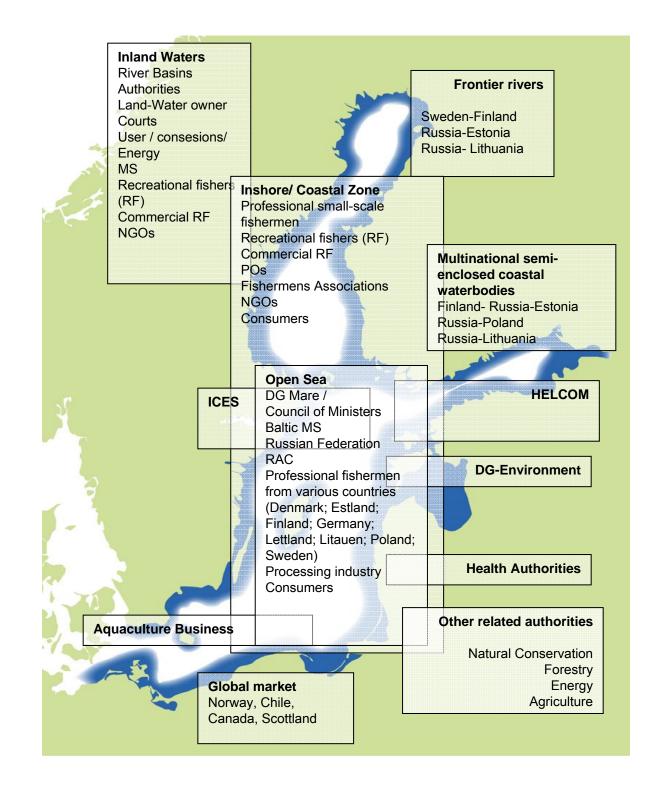
- Swedish Board of Fisheries
- Swedish Ministry of Agriculture
- Bilaterally with a few MS
- EU COM
- Baltfish Forum
- BSRAC
- Coalition Clean Baltic
- HELCOM's Baltic Fish and Environmental Forum
- Scientific Workshop (including Russian Federation)



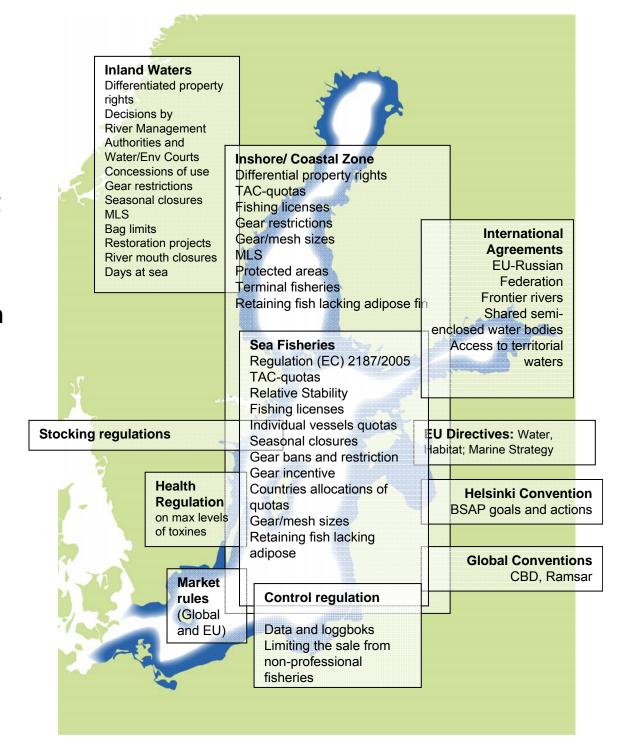
The biological diversity influencing the governance of Salmon fisheries in the Baltic Sea region



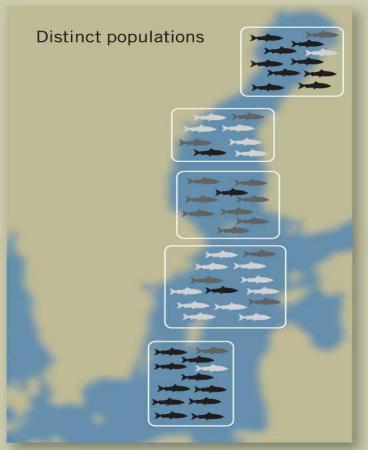
The social diversity and complexity influencing the governance of Salmon fisheries in the Baltic Sea region



The institutional diversity and complexity influencing the Governance of Salmon fisheries in the Baltic Sea region



### THE BALTIC SALMON STOCK IS A COMPOSITE OF GENETICALLY DIFFE POPULATIONS WITH A PARTICULAR SPATIAL GENETIC STRUCTURE



THIS PROJECT WILL ADDRESS ISSUES PUTTING AT RIS BIOLOGICAL DIVERSITY SUSTAINING FISHERIES IN TH

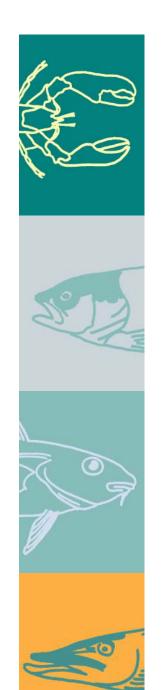
THE RISKS IN FISHERIES ARE

- 1.STOCKING OF REARED SALMON FOR COMPENSATI
- 2.FISHING ON MIXED POPULATIONS AT SEA
- 3.POOR REPORTING
- **4.LACK OF RIVER SPECIFIC MANAGEMENT**

Source Laikre et al. 2005



Scientific Workshop on Ensuring biological diversity of Baltic Salmon Helsinki 6-7 November 2010



#### SOME IMPORTANT STATEMENTS

- The salmon is well studied biologically compared to most other fish species and closes its live cycle in the Baltic
- Each river has its own genetically distinct, demographically independent populations that are most likely locally adapted
- Several of the most genetically distinct populations are small and threatened
- Most (or all) stocks admixed during the feeding migration to the Main Basin
- A sustainable fisheries and management must ensure these populations can reproduce
- Current management is based largely on releases of reared salmon

TAC TOGETHER WITH

FIXED NATIONAL SHARES

DO NOT ALLOW SHIFT

FROM MIXED-STOCK HAR

UESTING (Equal F for all state)

TOWARDS STOCK-SPECIFIC

HARVESTING, UNLESS

CREATING MECHANISMS FOREG.

HOW TO HARVEST WEAK STOCKS ? (MIXED FISHERY INTHE SEA)

#### MIXED FISHERIES AT SEA

Of Question resultantion of Question verall action for all actions to graphers stack specific for proventing

Could offshore

fishery be

seduced in famour

seduced in famour

local fishing?

Genetic consequences of a 80% MSY goal? SMOLT SURVIVAL HOW TO IMPROVE THE ESTIMATED + pops Decreasing Reasons for Survival and decreased post underlying smole survival. DIFFERENT STOCK neason Natural mortality TOLERATE EXFERE NT LEVEL OF LACK OF HARVESTING RIVER SPECIFIC TAR GETS/TAC HARVEST Biodiv CURRENTLY', TAC IS GIVEN TO MIXED-SIEVE Tanget/ FISHERIES (= SEA FISHING) 959 100 year River - ALL STOCKS ARE PUT UNDER NEGAL FISHING PRESSURE I WULLVE FISHERMANIAND - define conservation STOCK MANAGEMENT limits for each STEEK SPELIFIC HAVEST (Fishing License is given and there is made now as less tien-predention of multi sea con the francis of answering places, effets, whitever at yours Las By-catches of post smott in sprat = herring fisheries ?

were usually have to be managed much more better llegal Unreported Unregulated Fisheries - all Salmon should have Layet chip / teg Unsuported catcher - MORECONTROL - HOW TO IMPROVE THE ESTIMATE Ensure accurate fishing statistics (catous) UNKNO UN MONTENTS





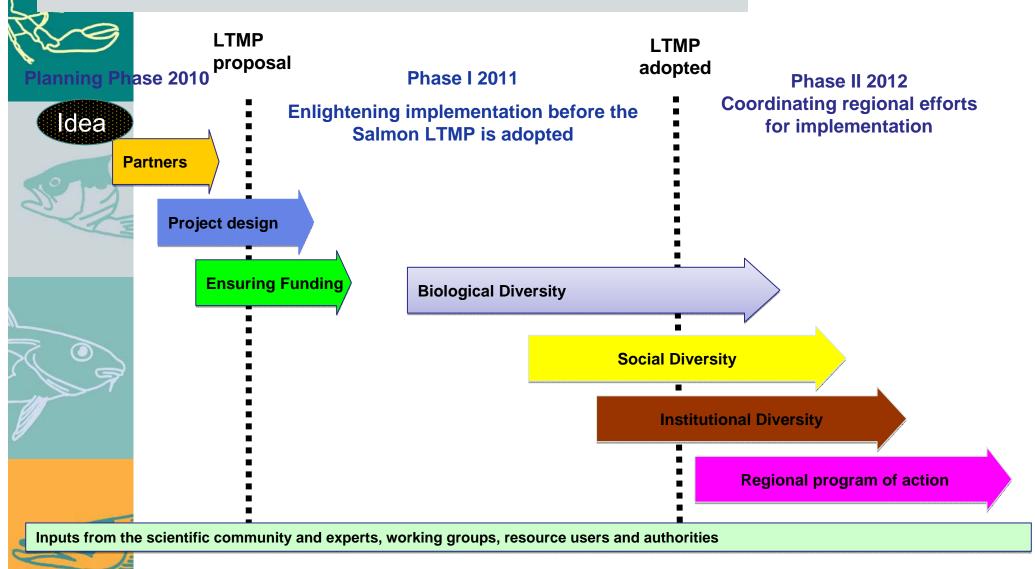
### This project should be linked to the implementation of Salmon LTMP

The delay of the EU Baltic Salmon LTMP has created hesitation and hindered the progress of the planning.

However there are some work that could be started.



#### Flagship project possible phases





## We think there is a scope to start a regional project to:



- 1. Evaluate the pros and cons and cost-benefit of a progressive reduction/facing out of stocking of Salmon for compensation;
- 2. Prepared roadmaps on how to go about it on a national case by case basis;
- 3. Prepare roadmaps for alternative investments of the funds that are used at present for rearing and stocking.

