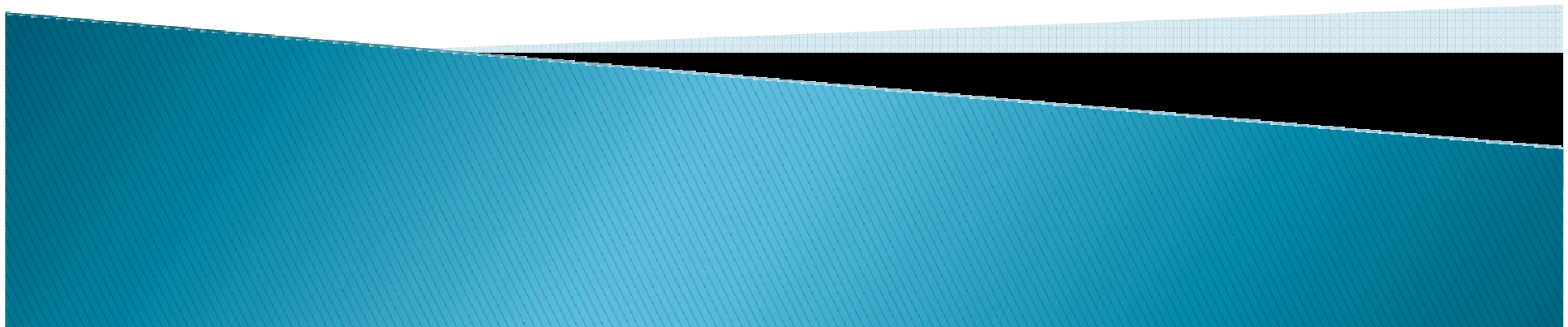


COBECOS

Cost and benefits of Control Strategies

SIXTH FRAMEWORK PROGRAMME
Policy-Oriented Research

Presented at EAFE Sardinia 23–24 June 2008



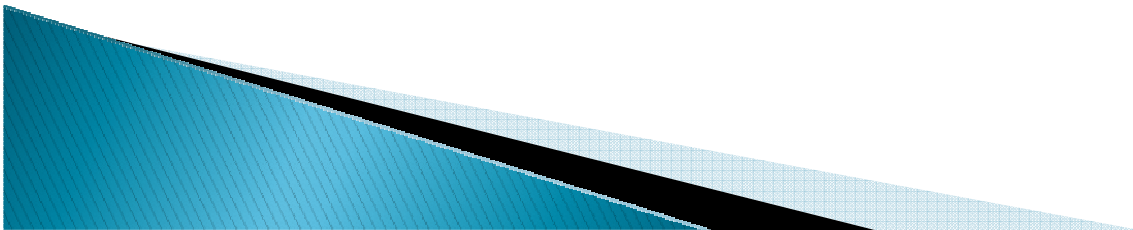
Outline

1. COBECOS at large:

- ▶ background
- ▶ objectives
- ▶ case studies

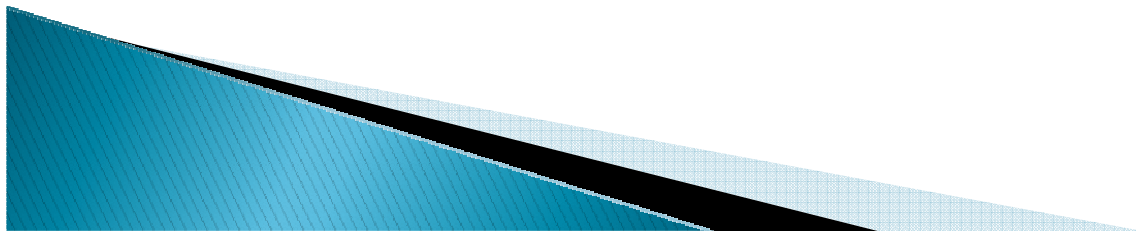
2. COBECOS essential theory

Ragnar Aarnason



Overview

- ▶ Sixth Framework programme (FP6) –policy oriented research
- ▶ Starting date 1st of February 2007
- ▶ 30 months
- ▶ 12 partner institutes + 2 sub contractors
- ▶ 9 case studies/fisheries
- ▶ Overall budget of 1.75 mEuro (1.4 mEuro EC contribution)

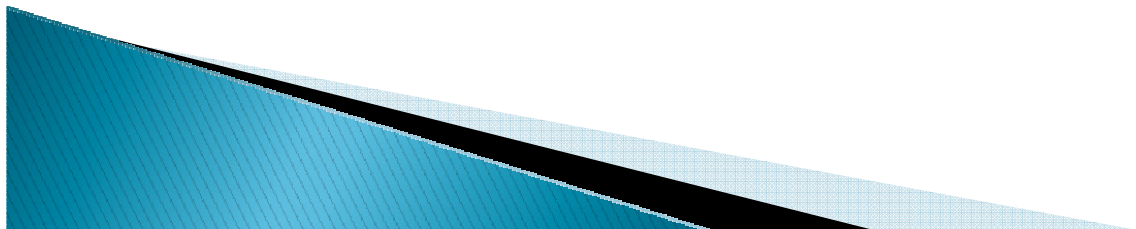


Background

Fisheries enforcement theory is a relatively new topic:

- Limited literature
- Few empirical studies
- Currently no comprehensive practical empirically based model of enforcement

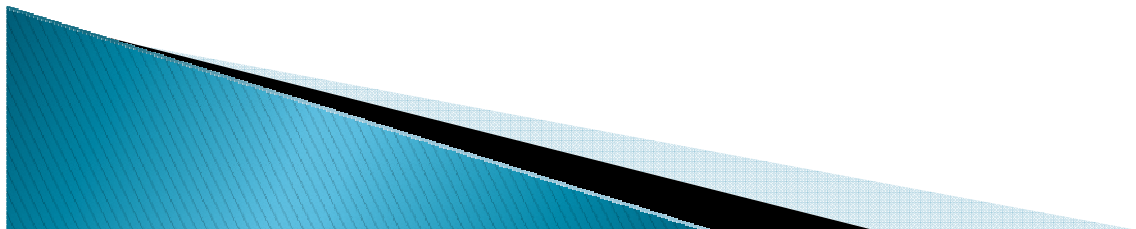
Little is known about whether annual enforcement spendings in the EU are spent in the most efficient way.



Objectives

To conduct a cost benefit analysis of control schemes relevant for the CFP.

- ▶ Fisheries enforcement theory
- ▶ Empirical research
- ▶ A practical computer model of the fisheries enforcement situation



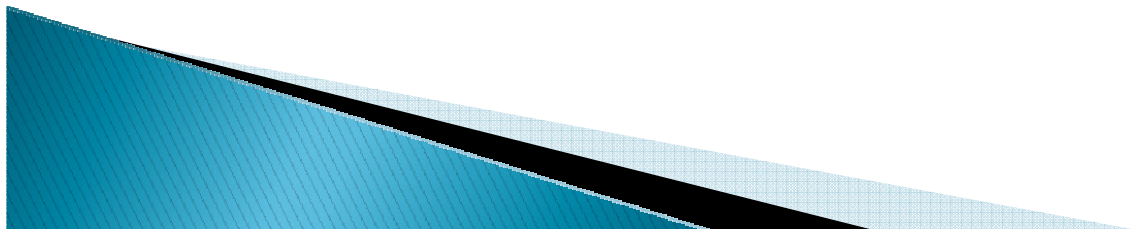
Output

What are the cost and benefits of increased enforcement effort in a particular fishery?

What are the impacts of increased penalties for violations of fisheries rules?

How do different control schemes compare when the cost of enforcement is taken into account?

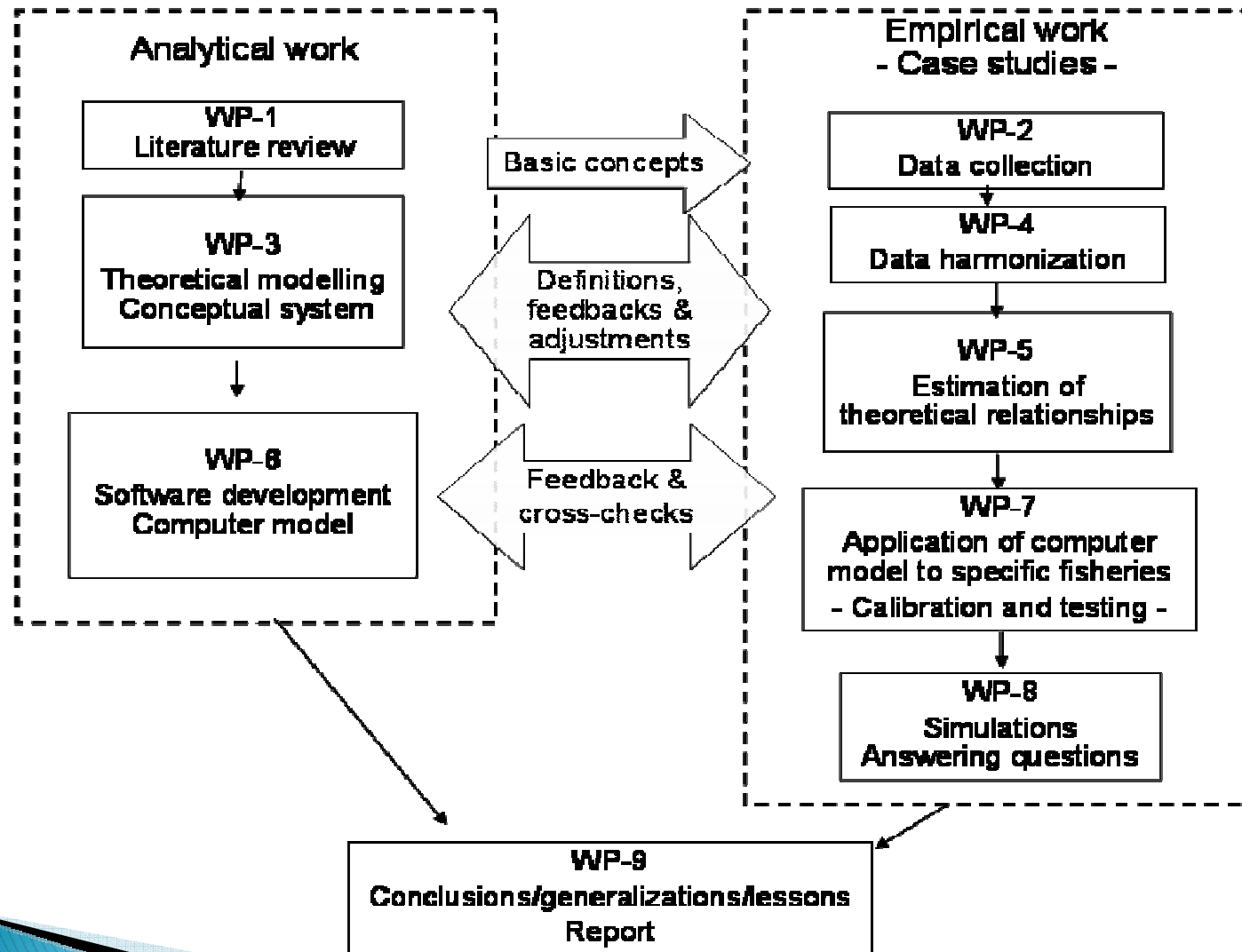
- 100 % compliance would probably be too costly.



The consortium

Case study	Data from	Lead partner	Enforcement issue
Northern hake	Spain, France	AZTI	Minimum mesh sizes
The Bay of Saint-Brieuc Scallops	France	CEDEM	Input restrictions
CCAMLR South Georgia/ Kerguelen	UK, France	JRC	IUU
Ligurian and Northern Tyrrhenian Sea bottom trawling fishery	Italy	IREPA	Net size, seasonal and area closures, mixed fishery
Norwegian fisheries	Norway	NHH	Technical restrictions, TAC-restrictions, individual quotas
Icelandic cod fishery	Iceland	IoES	Time/area closures, minimum fish size restrictions, no discarding rules, effort restrictions and ITQ.
Dutch beam trawl	Netherlands	LEI	Quotas, input restrictions, technical measures
Kattegat & Skagerrak nephrops fishery	Denmark	FOI	Undersized lobsters and illegal by catch
(Western) Channel Fisheries	UK	CEMARE	Gear and access restrictions

Presentation of work packages



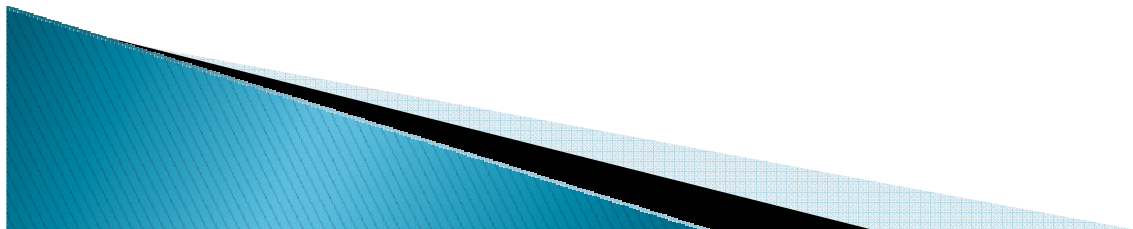
Results and obstacles so far

Results:

- ▶ Literature reviewed published in Marine policy
- ▶ 2 working papers within the theoretical work package have been submitted for publication
- ▶ The theoretical model has been finalized
- ▶ The alpha version of the software code is available

Obstacles:

- ▶ Difficulties in obtaining required data: confidentiality, aggregation level, different national data sources etc.



Further information

<https://maritimeaffairs.jrc.ec.europa.eu/web/cobecos>

Coordinator:

Ragnar Aarnason, IoES, ragnara@hi.is

Scientific coordinator:

Jenny Nord, JRC, jenny.nord@jrc.it

