

# Workshop

## “The economics of climate change adaptation measures under WFD, MSFD and ICZM ”

11-13 April 2016

ECRAN 61931

Risk reduction and climate changes  
adaptation measures



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## Structure of the presentation

Risk and vulnerability – coastal waters

Combined approach

Recommendations

EC level coordination



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## EU Integrated Maritime Policy

Coastal regions are particularly affected by climate change, **and risk management may have dramatic impact on their budgets and economies.**

The Commission will:

- Promote coastal and maritime tourism
- Prepare a data-base on Community funding available for maritime projects and coastal regions, develop a database on socioeconomic data for maritime sectors and coastal regions
- Propose a Community Disaster Prevention Strategy highlighting the **risks to which coastal regions are exposed**



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## Risk and vulnerability in the context of climate change

Risks and uncertainties, often associated with seasonality, are most evident in agricultural practices and for rural - urban change.

Limited availability of water, increased water demand; water quality problems, e.g. algal blooms

Effect on water resources relying on snowmelt

Effects on some water supplies

Reduced energy demand for heating

Increased demand for cooling

Declining air quality in cities

Effects on winter tourism

Agriculture, forestry and ecosystems: increased yields in colder environmental conditions; decreased yields in warmer environments

Area affected by drought increases



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## Combined approach to climate change adaptation, disaster risk reduction and social protection

**Social protection** describes all initiatives that transfer income or assets to the poor, protect the vulnerable against livelihood risks, and enhance the social status and rights of the vulnerable categories of people.

Its overall objectives are to extend the benefits of economic growth and reduce the economic or social vulnerability of vulnerable people.

**Risk Reduction** describes the development and application of policies, strategies and practices that minimise vulnerabilities, hazards and disaster impacts throughout a society in the broad context of sustainable development.

**Climate Change Adaptation** is about reducing the risks posed by climate change to people's lives and livelihoods (OECD, 2006).



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## Lessons and Challenges

Longer term perspectives on social protection

Social protection interventions need to fully address issues of social vulnerability

Institutional capacity and co-ordination

Political ownership

Uncertainty in trying to establish the impacts of climate change with any degree of confidence

Adaptive social protection:

- Climate proofing social protection through a long - term vision in the context of more reliable and accurate predictions and consideration of vulnerability.
- Policy and programmatic options for social protection for climate change adaptation.
- **A preventive and holistic approach for risk reduction!!**



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## Recommendations: towards implementing adaptive social protection (1)

Environment and Climate  
Regional Accession Network **ECRAN**

- Dealing with the gaps in knowledge on both the evidence base and complexity of policy processes. This calls for international coherence between policy-makers and practitioners to address the following priorities:
  - There is a need to further develop an evidence base on how to effectively combine social protection measures to mitigate vulnerability to climate change in different contexts.
  - Combining the long-term study of poverty impacts and social responses to climate change with trends and projections for future climate hazards.
- Create data base for building evidence on the economic costs and benefits of different social protection measures for climate change adaptation.
- Generating evidence of the cost effectiveness of social protection measures relative to alternative interventions



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## Recommendations: towards implementing adaptive social protection (2)

Environment and Climate  
Regional Accession Network **ECRAN**

- Developing **Climate Risk Assessments** for use in conjunction with social protection programme design and implementation.
- Developing practical guidance on the design and implementation of appropriate adaptation methods, taking into account the views of affected groups
- Reviewing existing **adaptation funding guidelines and criteria** to identify opportunities to integrate appropriate social protection responses.
- Strengthening synergies and linkages between academics and practitioners to strengthen understanding, co-ordination and good practice
- Designing monitoring and evaluation systems to capture further evidence and feedback on the effectiveness of an adaptive social protection approach
- Designing monitoring and evaluation systems to capture further evidence and feedback on the effectiveness of an adaptive social protection approach



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## Objective of ICZM

- Optimize benefits from coastal and marine resources, **specifically for local communities**
- Identify desired uses
- Minimize conflicts
- Prevent environmental degradations



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## ICZM Expectations

- Maintaining the functional integrity of the coastal resource systems
- Reducing resource-use conflicts
- Maintaining the health of the environment
- Facilitating the progress of multisectoral development



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

## European level coordination

The **Working Group on Economic and Social Analysis** – support MS in meeting the economic and social assessment requirements of the Directive, with the aim of ensuring comparability of approaches across the EU.

It has led the development of an informal guidance document on Economic and Social Analysis for the Initial Assessment which sets out informal guidance for MS on possible approaches for this assessment.

The **Working Group on Data, Information and Knowledge Exchange** - to develop a coordinated approach to MSFD information and data exchange.

It developed reporting sheets associated with the initial assessment, characteristics of GES and associated targets and indicators.



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium

# Thank you!



This Project is funded by the European Union



Project implemented by Human Dynamics Consortium