CO-CREATING ECOSYSTEM BASED FISHERIES MANAGEMENT SOLUTIONS

Icelandic Waters		Baltic Sea	
Northern Waters		Western Waters	Black Sea
North Sea		Mediterranean Sea	Chatham Rise
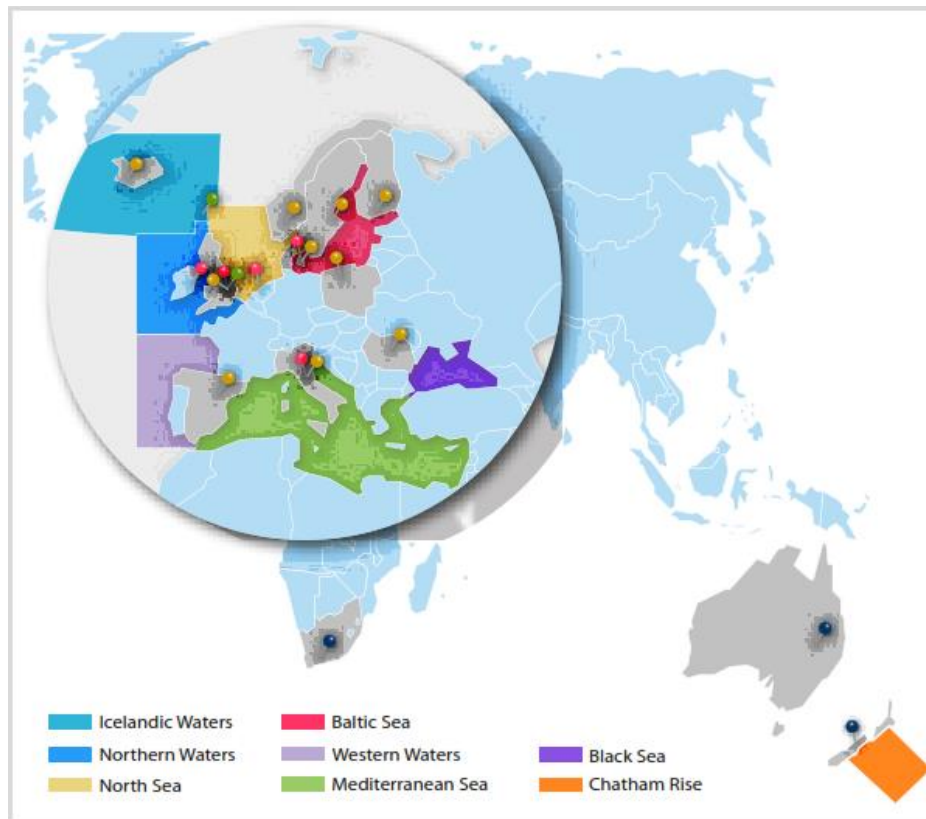
AT A GLANCE

28 partners
14 countries
3 continents

€ 7.7 million
total budget

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THE CHALLENGES

75% of Mediterranean stocks and 39% of Atlantic stocks are overfished

The fishing industry is experiencing smaller catches and facing an uncertain future

The European fisheries policy is in continuous need of reform

Discard

NOW
is the time to make fishing environmentally, economically and socially sustainable

MareFrame

DECISIONS HAVE TO BE MADE

**The newly reformed
Common Fisheries Policy
places data and knowledge
at the heart of decision making**

AIM

MareFrame seeks to remove barriers that currently prevent a more widespread use of an <u>Ecosystem-based Approach to Fisheries Management (EAFM)</u> by developing:

- Novel data based on new tools and technologies
- Ecosystem models and assessment methods based on indicators of Good Environmental Status (GES)
- A Decision Support Framework (DSF) adapted to the needs of decision makers, managers, operators, and other stakeholders that will support the implementation of the new Common Fisheries Policy (CFP), Marine Strategy Framework Directive (MSFD) and Habitats Directive (HD)

The vision of MareFrame is to increase the use of (EAFM)

OBJECTIVES – THE WHAT

- Utilise new tools and technologies
- Develop and extend ecosystem models and assessment methods
- Develop practical Decision Support Framework (DSF) that can highlight alternatives and consequences
- Integration, co-creation and training of stakeholders

STRATEGY – THE HOW

The MareFrame focus will:

- Enhance the capacity to provide holistic assessment on important issues
- Provide advice and decision support for an ecosystem based approach to fisheries management
- Look at feasibility for implementation

MareFrame will allow for:

- Collaboration across multiple scientific fields
- Collaboration between different ecosystems involved in catching of fish
- Co-creation approach which merges analytical and participatory processes in collaborative research with stakeholders
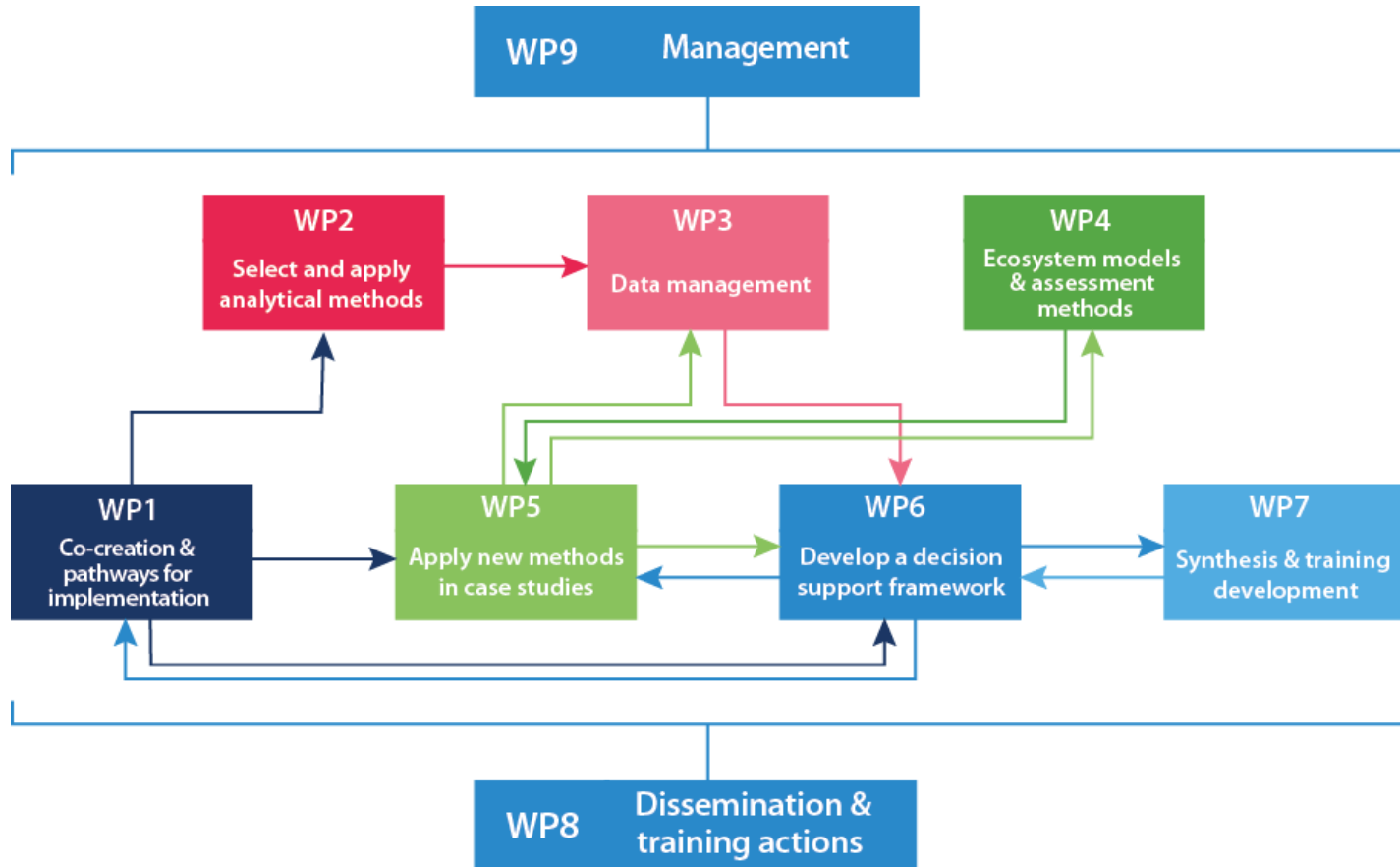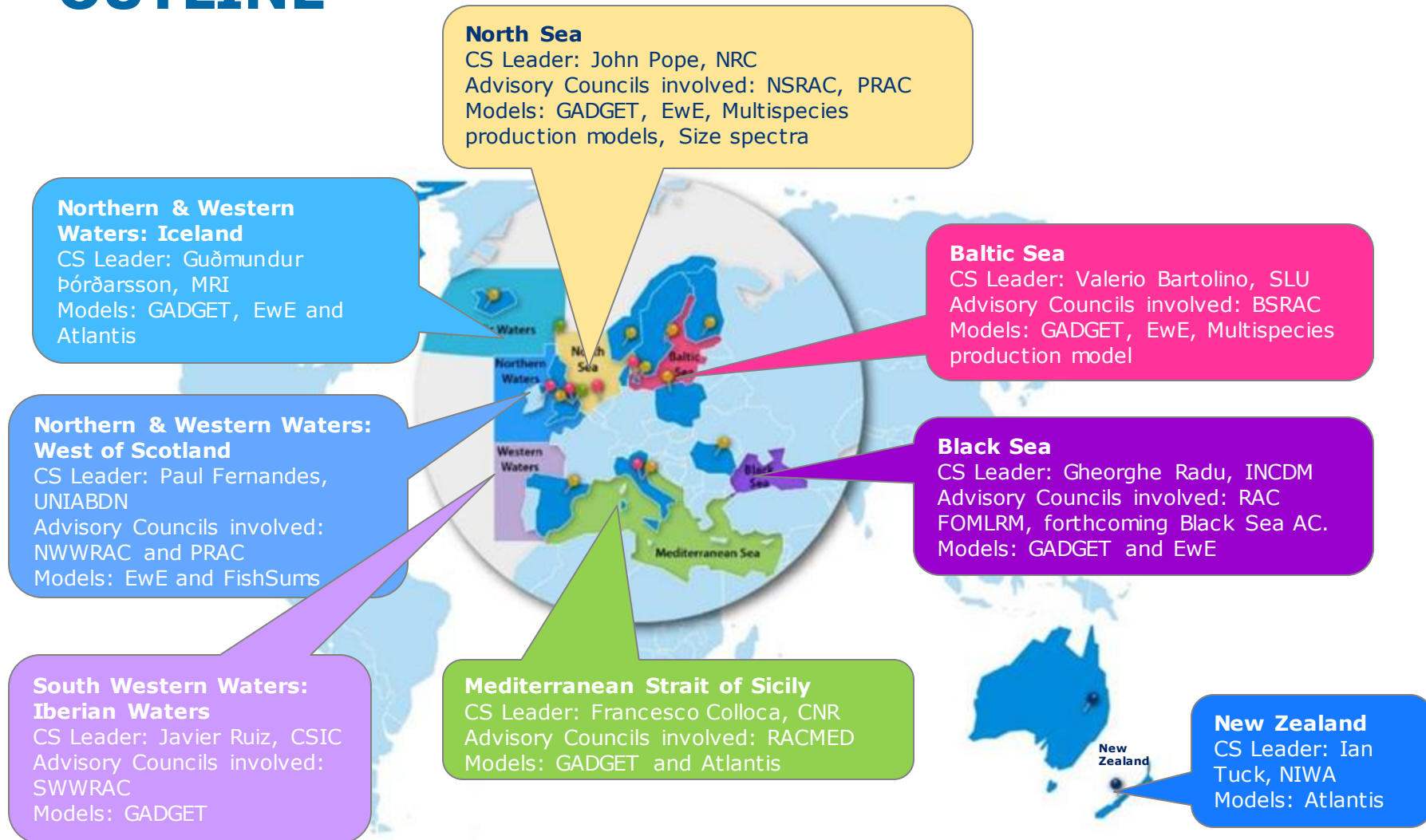
WHAT IS NEW ABOUT THIS APPROACH?

- For the first time, the performance of broad spectrum of ecosystem based models will be developed, tested and compared systematically on the same ecosystem, and evaluated using the same underlying dataset
- Knowledge gained on the prediction of the models
- The new predictive monitoring system will be based on responsiveness, flexibility, stakeholders´ involvement and developed and demonstrated through training actions, role-play and workshops with stakeholders

NINE WORK PACKAGES (WPs)

OUTLINE

MareFrame

North Sea
CS Leader: John Pope, NRC
Advisory Councils involved: NSRAC, PRAC
Models: GADGET, EwE, Multispecies production models, Size spectra

Northern & Western Waters: Iceland
CS Leader: Guðmundur Þórðarsson, MRI
Models: GADGET, EwE and Atlantis

Baltic Sea
CS Leader: Valerio Bartolino, SLU
Advisory Councils involved: BSRAC
Models: GADGET, EwE, Multispecies production model

Northern & Western Waters: West of Scotland
CS Leader: Paul Fernandes, UNIABDN
Advisory Councils involved: NWWRAC and PRAC
Models: EwE and FishSums

Black Sea
CS Leader: Gheorghe Radu, INCDM
Advisory Councils involved: RAC FOMLRM, forthcoming Black Sea AC.
Models: GADGET and EwE

South Western Waters: Iberian Waters
CS Leader: Javier Ruiz, CSIC
Advisory Councils involved: SWWRAC
Models: GADGET

Mediterranean Strait of Sicily
CS Leader: Francesco Colloca, CNR
Advisory Councils involved: RACMED
Models: GADGET and Atlantis

New Zealand
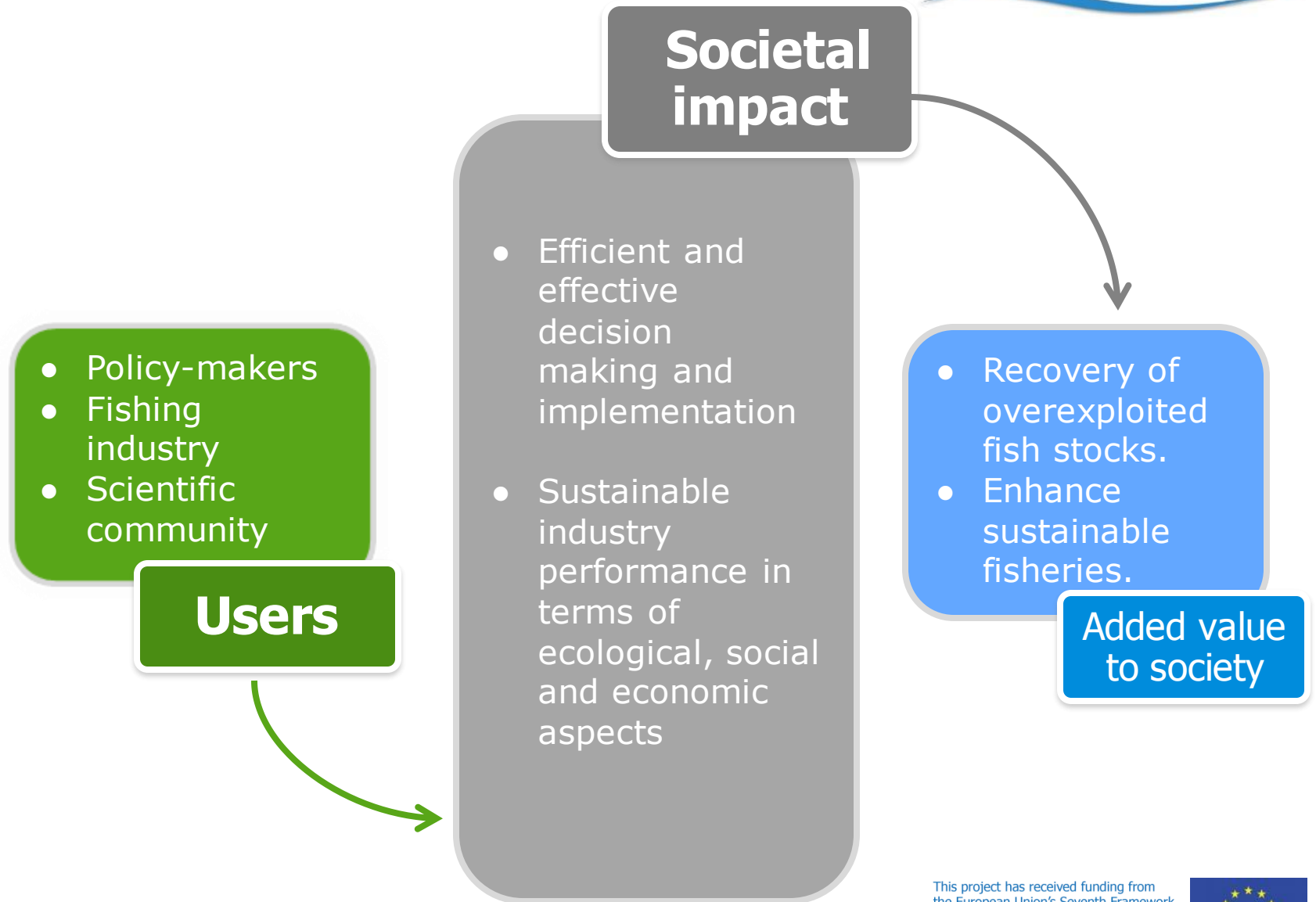CS Leader: Ian Tuck, NIWA
Models: Atlantis

EXPECTED OUTCOME

- New tools and technologies
- Extended ecosystem models and assessment methods
- New Decision Support Framework (DSF) that can highlight alternative management actions and their consequences
- Development, acceptance and incorporation by stakeholders
- Support implementation of the new Common Fisheries Policy (CFP), the Marine strategy Framework Directive (MSFD) and the Habitats Directive (HD)

BENEFICIARIES

MareFrame

Societal impact

Users

- Policy-makers
- Fishing industry
- Scientific community

- Efficient and effective decision making and implementation

- Sustainable industry performance in terms of ecological, social and economic aspects

- Recovery of overexploited fish stocks.
- Enhance sustainable fisheries.

Added value to society

MareFrame liaises with other national and international research projects and is of high relevance to the future management of living marine resources in Europe in a changing environment, taking a holistic view incorporating socio-economic and legislative issues

MareFrame

www.mareframe-fp7.org/

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A consortium of 28 partners from 14 countries
Duration of four years: Jan. 2014 – Dec. 2017

Work Programme topic addressed: KBBE
2013.1.2-08: Innovative insights and tools to integrate
the ecosystem-based approach into fisheries advice