



PANACHE

Protected Area Network Across
the Channel Ecosystem

WP2

DISCOVER
WITH
PLYMOUTH
UNIVERSITY
MARINE INSTITUTE

sian.rees@plymouth.ac.uk

Work Package 1: Adopting common criteria and carrying out scientific measurements on the ecological coherence for existing and proposed MPAs in the Channel.

Work Package 2: Sharing best practice and working towards a more coherent approach in the monitoring of MPAs and trialling innovative monitoring techniques.



Members of the PANACHE field survey team:
Towed Underwater Video

WHAT WE WANT TO DO NEXT

Research perspective:

- How do ecosystems support human wellbeing (Channel wide, MPA site level)?
- What are the 'risks' (e.g. climate change, governance, economy, policy)?
- How does management at the individual MPA site level impact/effect ecology, economy and society at different scales?

Social perspective

- Provide science to support management
- Enable process for the co-management of MPAs
- Co-create change

Policy Perspective

- Blue growth agenda
- MSFD/MSP/Habitats Directive
- Support regional MPA monitoring and management approaches

NEW INTERREG PROPOSAL

The **AIM** of the project is to:

Establish a network of MPAs that develop and test a transferable method for the co-management, monitoring of marine resources that benefit economy, ecology and society in the Channel region

6 WORK PACKAGES

Action 0: Project preparation

Action 1: The social-ecological system

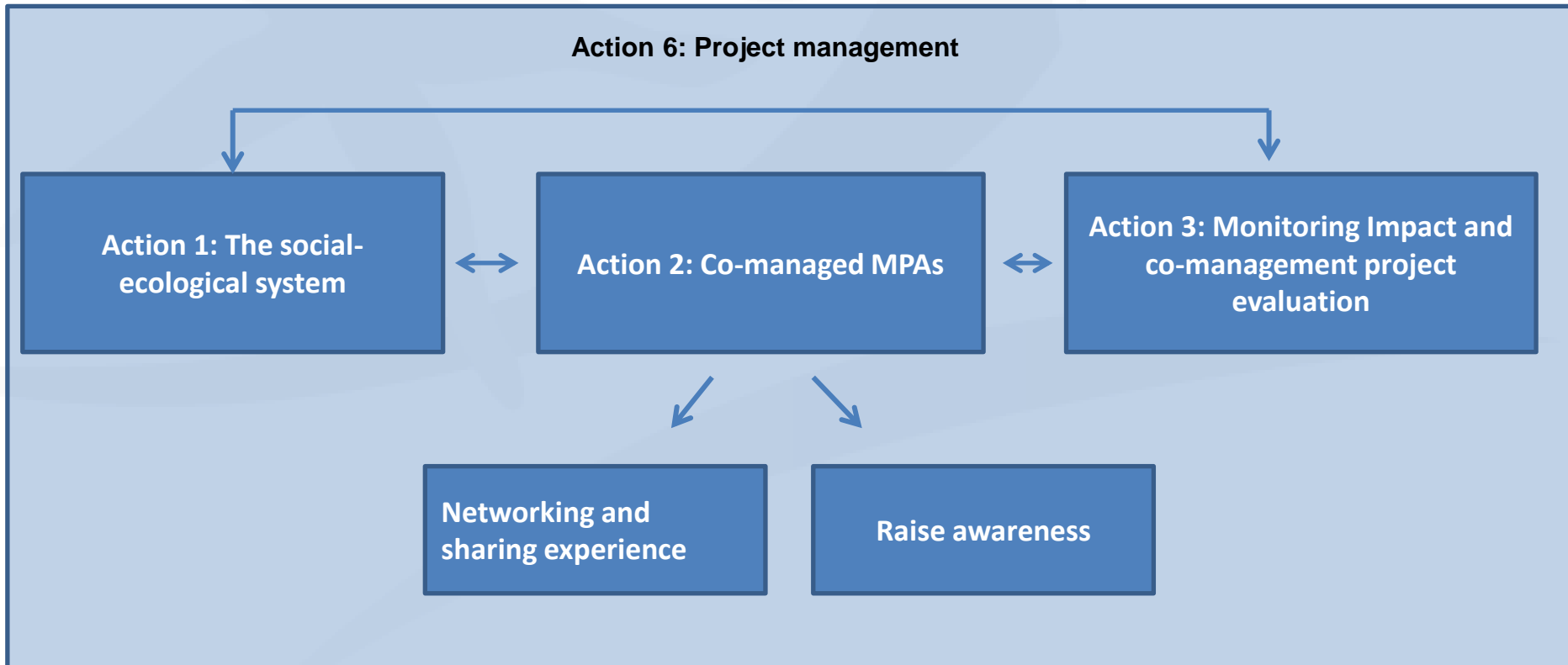
Action 2: Co-managed MPAs

Action 3: Monitoring impact and co-management project evaluation

Action 4: Networking and sharing experience

Action 5: Raise awareness

Action 6: Project management and reporting



Lead Partner: Plymouth University (Martin Attrill, Sian Rees, Emma Sheehan, Valentia Lauria)

Timescale:

11th May is the deadline for the 1st stage proposal. We need detailed project actions and indicative budget by this stage. Most importantly we need a strong transnational partnership.

We will find out if it can go to the second stage by mid-July.

Submit proposal 3 months later?

The project will start January 2016 and we hope to run until March 2020. 4 full years of data collection/project delivery.

Action 1: The social-ecological system

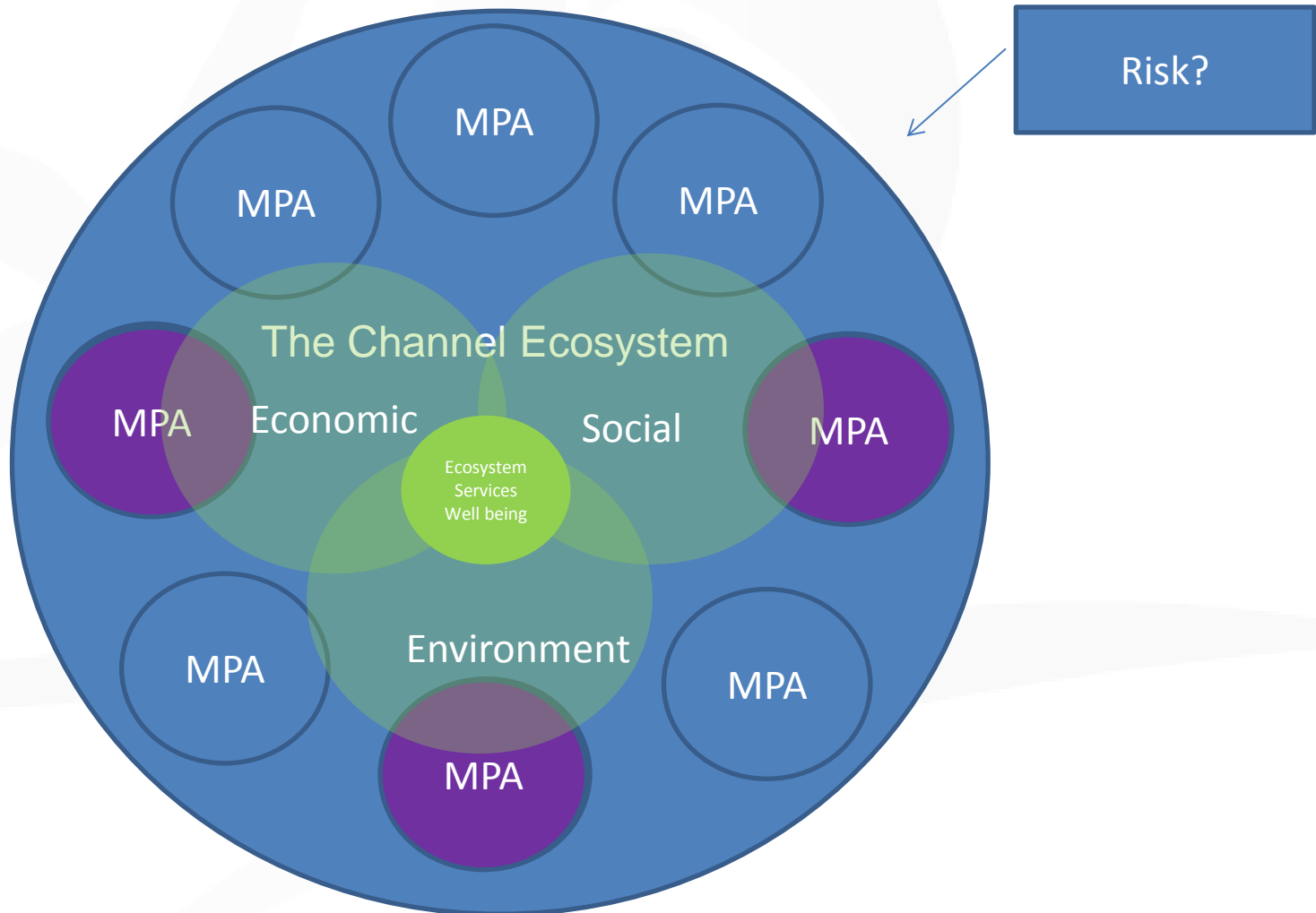
*Develop a **common approach** to profiling and modelling the ecological resource of the Channel. To define the ecosystem services derived from the system and the links to human well being. To enable assessment of 'risk' to the system and to better understand the role of MPAs (and other closed areas?) in supporting the social-ecological system*

Lead Partner: Ideally a French partner, Université, IFREMER, AAMP?

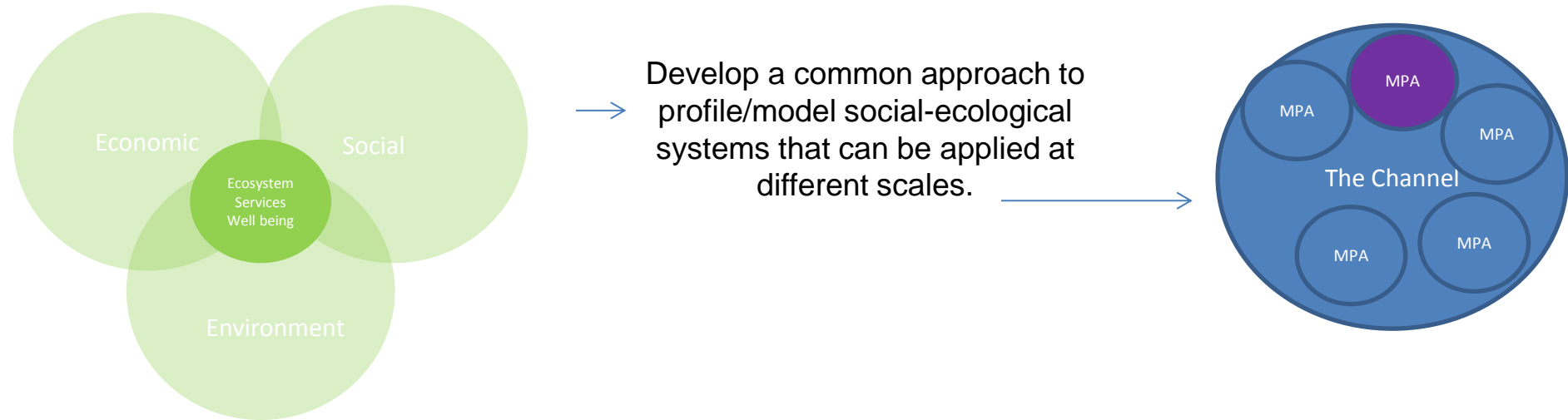
Partner skills: Ecosystem modellers, Economists, Social scientists, social ecological systems, decision support tools, Governance, data, fisheries scientists, ecologists, local councils, Natural England, MMO, health, psychologists.

Plymouth University lead: Valentina Lauria

Action 1: The social-ecological system



Action 1: The social-ecological system: What do they need to do?



Deliverables:

- Scalable socio-ecological model for the Channel
- The testing of full 'end-to end' models (e.g. Ecopath with Ecosim, Atlantis) to explore scenarios and define thresholds for sustainable use against wider 'risk' factors (drivers and pressures) that may impact upon the MPA.
- MPA detailed social-ecological profiles
- Policy/decision-maker focussed report on sustainable co-management options under future scenarios

*Trial co-management projects at a number of **demonstration sites**, implementing actions on the basis of shared information on the links between ecology, economy and society; risk assessment and potential co-management options*



What we are looking for:

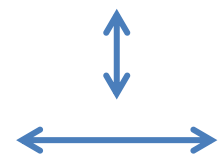
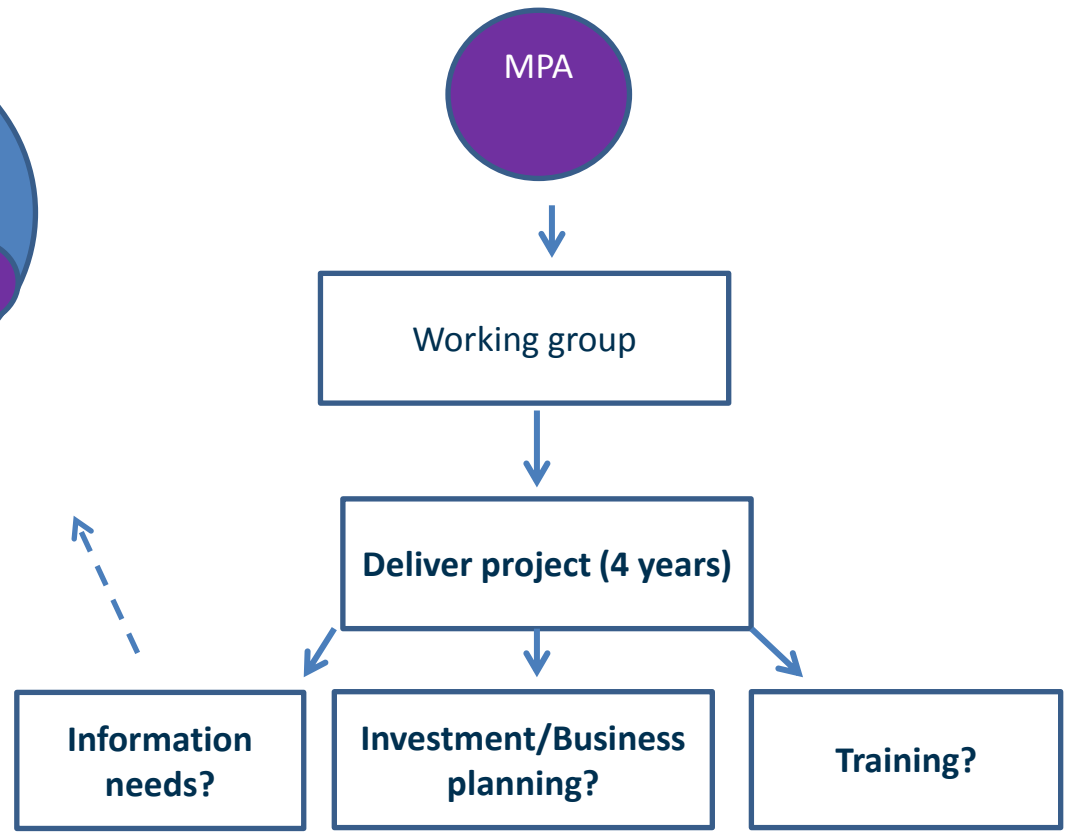
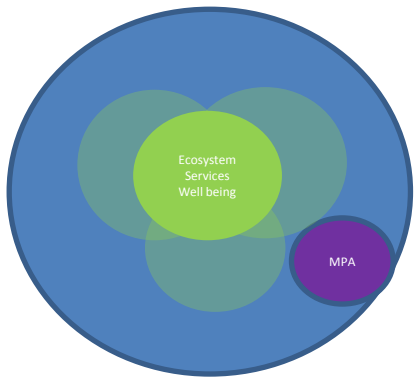
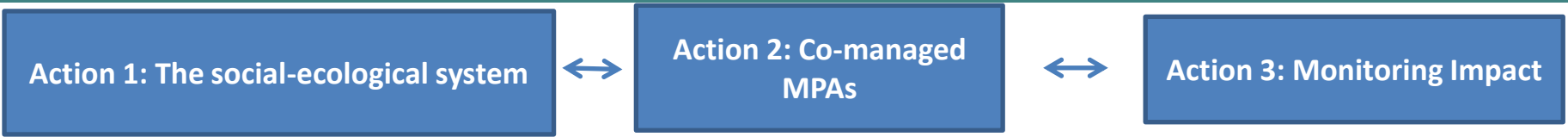
MPAs where there is a collaboration between MPA managers/a relevant authority/NGO and the resource user e.g. fishermen, anglers, divers to change the management in an MPA

The aim for each co-management project is to trial a co-management project that aims to benefit economy, ecology and society (e.g. fisheries, tourism)

e.g. MCZ/angling agreement

Planned/recent project (baseline values)

Action 2: Co-managed MPAs

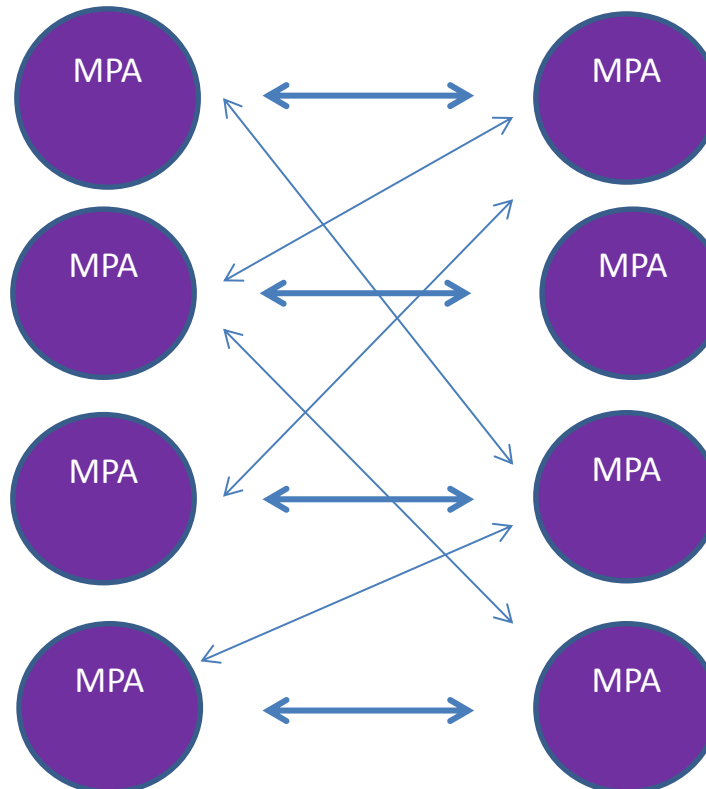


Network and share experience across demonstration sites to develop a transnational identity for successful co-managed MPAs.

Action 2: Co-managed MPAs

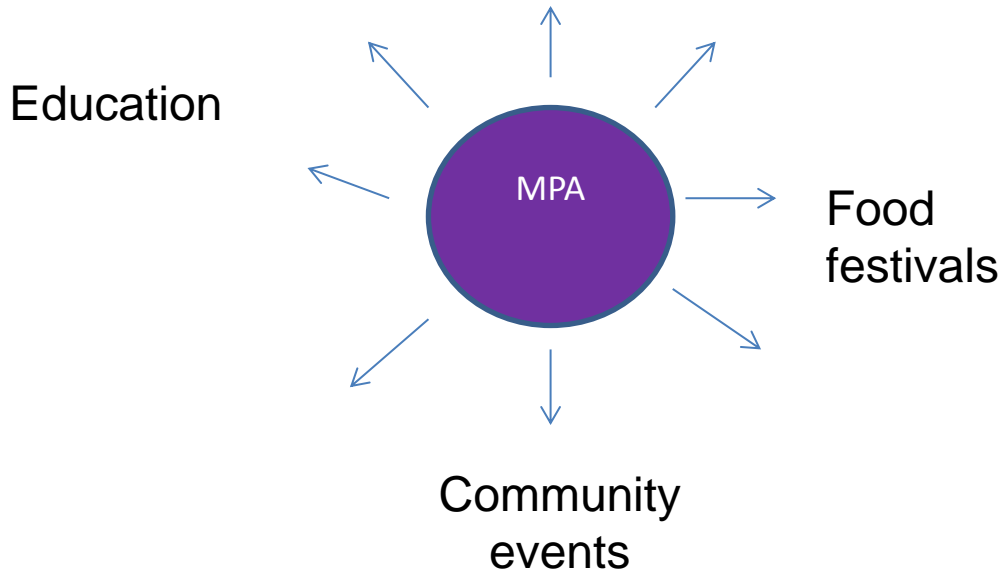
France

England



- Site visits
- Workshops
- Exchanges

*Develop strategies with local stakeholders for **raising awareness** of the ecosystem services and supported aspects of human well-being that flow from the co-managed MPA.*





What we are looking for:

MPAs where there is a collaboration between MPA managers/a relevant authority/NGO and the resource user e.g. fishermen, anglers, divers to change the management in an MPA

The aim for each co-management project is to trial a co-management project that aims to benefit economy, ecology and society (e.g. fisheries, tourism)

e.g. Kingmere MCZ/angling agreement

Planned/recent project (baseline values)

*Identify and source data for a set of stakeholder defined social-ecological indicators that will provide metrics for a common standards methodology to **monitor 'impact'** of MPA co-management on ecology, ecosystem services and human wellbeing from baseline values (set in Action 1).*

Lead Partner: Plymouth University Ecosystem

Partners: Drawn from Actions 1 and 2

Plymouth University lead: Sian Rees/Emma Sheehan

Action 3: Monitoring Impact and co-management project evaluation

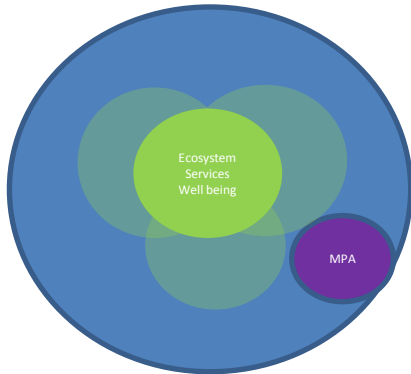
Action 1: The social-ecological system



Action 2: Co-managed MPAs



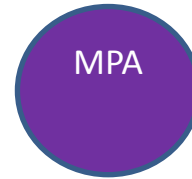
Action 3: Monitoring Impact



- MPA Social-ecological profiles
- Social, Economic and Ecological Indicators to measure impact/effect on ecosystem services and human well being



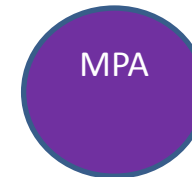
To develop a refined set of social ecological indicators



Develop a common standards method to measure impacts/effects of the demonstration project on ecosystem services and human



Annual monitoring/fieldwork



Evaluation (feedback to the working groups)

Action 6: Project management and reporting

This action will oversee the delivery of the project. A steering group will be established to ensure that the project maintains alignment with national and regional developments in policy for the monitoring and management of marine resources.

Lead: Plymouth University.

All partners to contribute proportional funding for a project manager and finance officer to be based at Plymouth University

1. Feedback on the structure/content of the project are there any changes that you would like to make?
2. Sign up for the different 'Actions'. Who are you and what is your interest. What would you like to do under this action.
3. We are particularly interested in developing the demonstration projects at this stage. So if you have an idea for a site please fill in the form.
4. We are here to answer any of your questions.

Many thanks



PANACHE

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the Channel Ecosystem



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Hampshire & Isle of Wight
Wildlife Trust

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PML | Plymouth Marine
Laboratory



The VALMER and PANACHE projects were selected under the European cross-border cooperation programme INTERREG IV A France (Channel) - England, co-funded by the ERDF.

Skill	Organisation	Wish list
Ecosystem Modellers	MI	Valentina Lauria
	MBA	Olivia Langmead
	IFREMER	?
	CISIRO (Tasmania)	Beth Fulton
	InVEST	Anne Guerry/Spencer Wood?
Economists	Cefas	Stephen Mangi
	New economics foundation	Chris Williams
	Plymouth University	Lynda Rodwell
Social Science	Exeter University	Louisa Evans
Social-ecological systems	University of Brest	Linwood Pendleton
	IFREMER	
	Plymouth University	Sian Rees
Governance	Bristol University	Tom Appleby Margherita Pieraccini?
	MCS	Jean-Luc Solandt
	IEEP	Marianne Kettunen
	Plymouth University	Gillian glegg?
Data	MBA	Charly Griffiths
	AAMP	Sonia Carrier
Ecologists	Plymouth University	Emma Shepherd

Reports

Foster, N. L., Sciberras, M., Jackson, E. L., Ponge, B., Toison, V., Carrier, S., Christiansen, S., Lemasson, A., Wort, E. and Attrill, M. 2014. **Assessing the Ecological Coherence of the Channel MPA Network**. Report prepared by the Marine Institute for the Protected Area Network Across the Channel Ecosystem (PANACHE) project. INTERREG programme France (Channel) England funded project, 156 pp

Sciberras, M. and Rodriguez-Rodriguez, D. 2013. **Methods for assessing ecological coherence of MPA networks: A review**. Report prepared by the Marine Institute for the Protected Area Network Across the Channel Ecosystem (PANACHE) project. INTERREG programme France (Channel) – England (2007 – 2013) funded project, 28 pp.

Sciberras, M., Rodriguez-Rodriguez, D., Ponge, B., Jackson, E. 2013. **Criteria for assessing ecological coherence of MPA networks: A review**. Report prepared by the Marine Institute and the Agence des Marines Protegees for the Protected Area Network Across the Channel Ecosystem (PANACHE) project. INTERREG programme France (Channel) – England (2007 – 2013) funded project, 48 pp.

Sheehan, S., Rodriguez-Rodriguez, D., Foster, N., Nancollas, S., Cousens, S., Holmes, L., Attrill, M., Pettifer, E., Jones I., Vaz, S., Facq, J., Germain, G., 2015 **A comparative study of towed underwater video methodology to monitor benthic habitats in Marine Protected Areas**. A report for the European Union INTERREG IVA France (Channel) – England European cross-border co-operation programme. Protected Area Network Across the Channel Ecosystem Project. pp 52.

Rodríguez-Rodríguez, D., Rees, S., Rodwell, L., Haenrick, M., Dobroniak, C., Bartlett, G., Mannaerts, G., and Attrill, M. 2014. **Methods for monitoring the socioeconomic effects of Marine Protected Areas**. A report for the European Union INTERREG IVA France (Channel) – England European cross-border co-operation programme. Protected Area Network Across the Channel Ecosystem Project. pp 75.

Publications:

Rodríguez-Rodríguez., D, Rees, S., Rodwell, L., Attrill, M (2015) Assessing the socioeconomic effects of multiple-use MPAs in a European setting: A national stakeholder perspective. **Environmental Science and Policy**. (in press)

Rodríguez-Rodríguez, D.; **Rees, S.**; Mannaerts, G.; Sciberras, M.; Sheehan, E.; Aulert, C.; Carrier, S.; Pirie, C.; Black, G. & McBreen, F. 2015. Status of the marine protected area network across the English Channel (La Manche): Cross-country similarities and differences in MPA designation, management and monitoring. **Marine Policy**, Volume 51, January 2015, Pages 536-546.

Rodríguez-Rodríguez, D, Sciberras, M., Foster, N.L. & Attrill, M.J (in revision). Status of management effort in marine protected areas in the English Channel. **Marine Pollution Bulletin**.

Sheehan, EV., Sandrine Vaz, Erin Pettifer, Nicola L. Foster, Sarah Nancollas, Sophie Cousens, Luke Holmes, Jean-Valery Facq, Gregory Germain, David Rodriguez-Rodriguez, Martin Attrill. Requirements for coordinated methodological approaches using towed underwater video systems - experimental comparison of benthic metrics, and equipment impact and operation. (In prep)