


# Addressing the challenge of Climate Change through Marine Systems Approaches for Biodiversity Resilience and Ecosystem Sustainability

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European and International marine related policies  
e.g. SDGs, Biodiversity Strategy, Green Deal.



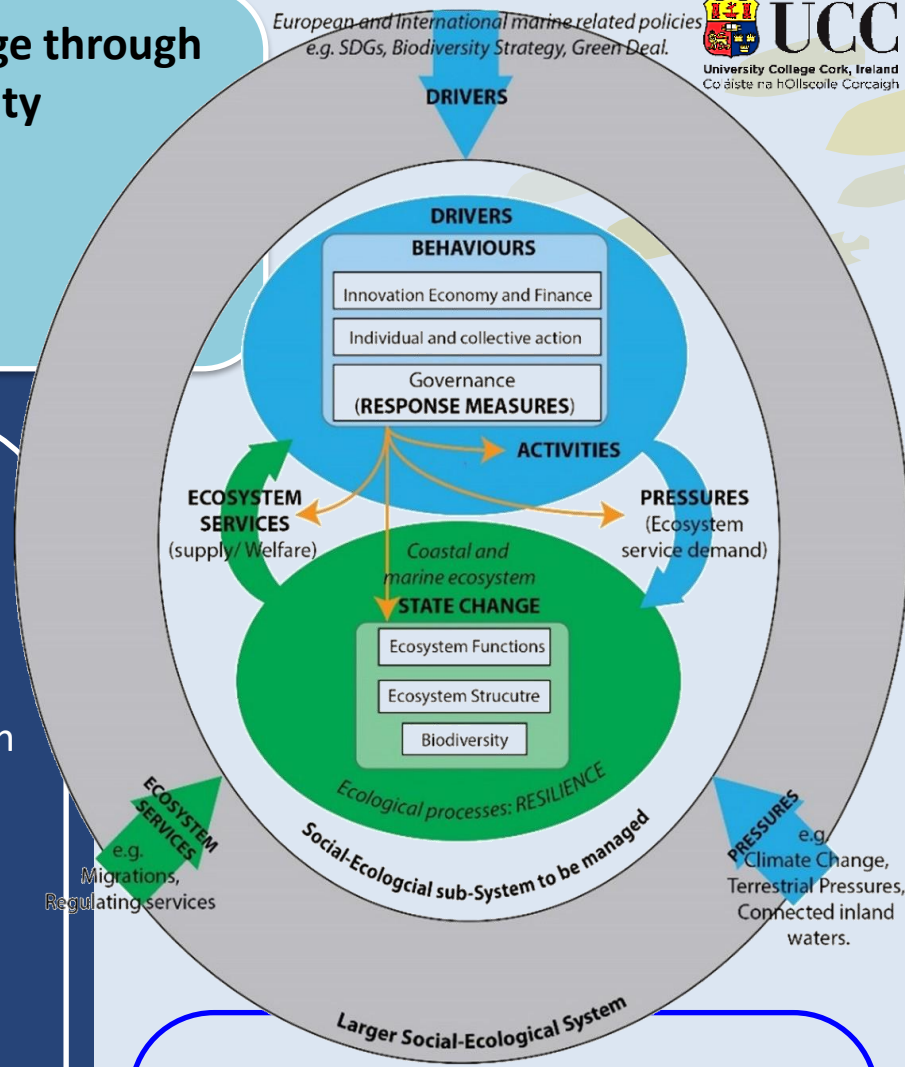


**MARINE SABRES**




Effective conservation and restoration measures, including Nature Based Solutions (NbS) are necessary for enabling the uninterrupted production and flow of Ecosystem Goods and Services (ES) for the transformation to a resource-efficient, competitive, low-carbon Sustainable Blue Economy (SBE). In parallel systems thinking is inherent to Ecosystem Based Management (EBM) and hence the planning, implementation and monitoring of NbS.


As such, an integrated Socioecological System analysis framework (**the Simple SES**) is being co- developed with stakeholders and will be demonstrated, rolled out and effectively used, for addressing **the dual biodiversity and climate challenges** and their implications to the sustainable flow of ES in the European marine context.



**Tuscan Archipelago-Blue Carbon and coastal Activities:** Maintenance and restoration of natural carbon sinks . Concrete actions will be suggested for increasing the regulatory ES by enhancing the carbon sequestration ability of seagrass habitats.



**Adapting Arctic Resource Management to Climate Change:** Examining the effects of climate change and changing oceanographic conditions on fisheries. Concrete actions will be suggested for increasing food provisioning ES, by sustainably caught fisheries and the sustainable Development of aquaculture.



**The Marine SABRES Concept** Is the starting point for the development of **the Simple SES**. The orange arrows indicate pathways for transformation acting on different elements of the social ecological system. The Simple SES will focus on increasing ES and the benefits thereof and the potential for nature-based solutions

**Macaronesia Hotspots- developing a biological conservation corridor:** Balancing biodiversity conservation and responsible use of the region for maritime activities, mainly nature-based tourism and nautical recreation. Concrete actions will be suggested for increasing the benefits from conservation and restoration from increased cultural ES (tourism).

