



Shellfish Research and Future Funding Outlook

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TOPICS FOR TODAY

- **SARF and Shellfish Research**

- What has been done
- The future

- **FUTURE MARINE FUNDING**

- Background
- What is happening – the process for 2018/19
- Your initial thoughts and views

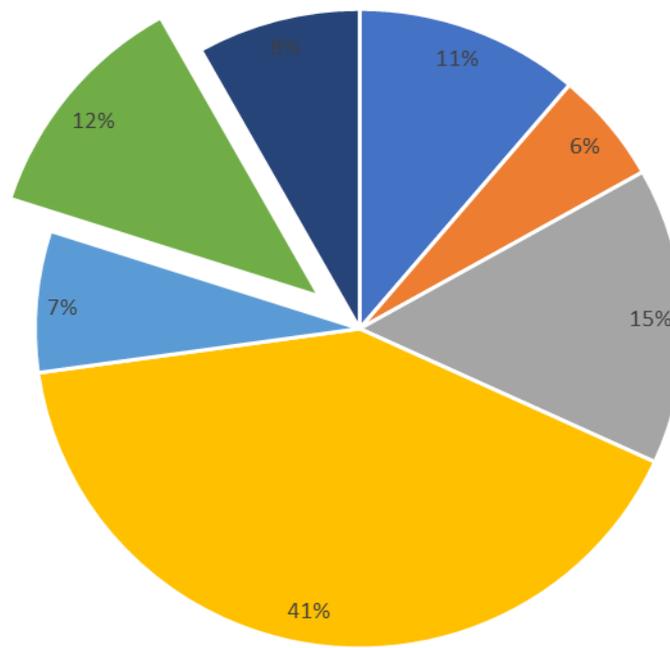


SARF Shellfish Research 2004- Present

- 13 distinct projects
- Total value £720,000
- (£6 m in total)



All SARF Projects since 2004 - by Project Cost



■ Aquaculture General ■ Mariculture ■ Marine Finfish ■ Salmon ■ Salmonid ■ Shellfish ■ Trout

SPECIFIC PROJECTS:

- Identification of sources of faecal pollution in Scottish coastal waters to help clarify causes of recent deterioration in the quality of Shellfish Harvesting waters (to be associated with the EU REDRISK Project) (SARF013)
- Assessment of appropriate thresholds for the potential triggers for Environmental Impact Assessments (EIA) for shellfish farms (SARF031)
- A systematic assessment of the environmental impact of Scottish shellfish farms, including benthos, water column and relevant special interactions (SARF053)
- Development and delivery of a proposal for re-establishment, on a pilot scale, of a native oyster population in Scotland (SARF056)
- Overcoming bottlenecks in the intensive commercial production of native oyster spat (SARF063-01)
- *Mytilus trossulus*: Managing impact on sustainable mussel production in Scotland (SARF064)
- *Trials to enhance oyster depuration with respect to norovirus (SARF065) - ABANDONED*
- Practical trials and cost-benefit analysis for industry of reduced depuration times for the mussel *Mytilus edulis* (SARF066)
- Carbon Lifecycle (SARF078)
- Student Dissertations (SARF088)
- New approaches to mussel seedstock acquisition (SARF096)
- Survey of Pacific Oyster in Scotland (SARF099)
- Locational Regulation of Shellfish Aquaculture (SARF110)

IMPACT?

Hard for me to judge, but one I particularly like

Can eating meat be eco-friendly?

By Dr Michael Mosley BBC Horizon



“Surprisingly, the most eco-friendly source of meaty protein I encountered was also the lowest tech - mussels.

Grown on lengths of rope hung beneath the surface of sea loch in the Shetlands, it takes relatively little energy to rear mussels and get them from the sea to our plates. They even have the added bonus of capturing carbon dioxide and locking it up in their shells.

The result is that their carbon footprint is 20 times less than chicken, and fifty times less than beef. If we really want to cut down the environmental impact of our diets we should perhaps be eating more mussels. What we really need now are more imaginative ways of cooking them. Chilli mussels anyone?”

■ <https://www.bbc.co.uk/news/science-environment-28858289>

In general, you should judge whether SARF research that you asked for has had positive impact.

Almost certainly no negative impact from research that originated from other sources.

BUT WE SHOULD BE LOOKING TO THE FUTURE

- SARF has a funding challenge, going forward
- A pity – it's a perfect vehicle for independent peer-reviewed applied science. Can do things no other organisation can do
- Why do we think that FIS was created to do the same job for the capture fisheries sector?



FUTURE MARINE FUNDING

BACKGROUND

- Based on an assumption that we will leave the EU
- UK and Scottish governments are working on planning – as you know
- Marine Scotland has asked me to help – the ESI component
- What do / can / should we do to replace EMFF....
- But this project is about ALL (most) marine / maritime industries – so much wider than fisheries and aquaculture
- There are parallel / complementary studies (economics, etc) – UK focus **[Please collaborate]**
- I will participate in those but my main focus is Scotland
- **GOAL:** an evidence base to present to Scottish Ministers. (*Treasury*)

MARINE SECTORS – Brigaded under 3 Themes

BUSINESS

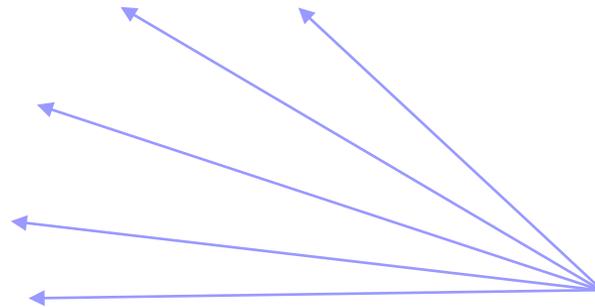
- Commercial fishing
 - Pelagic
 - Demersal
 - Inshore
- Aquaculture
 - Salmon
 - Trout
 - Shellfish
- Seafood processing & manufacturing
- Maritime biotechnology
 - Seaweed
 - Algae
- Maritime and coastal tourism
 - Sea angling
 - Salmonids angling
- Mineral resources
- *Offshore oil and gas*
 - Some aspects
- Offshore renewable power
- Shipbuilding and ship repair

COMMUNITIES

- Fishing ports
- *(Ferry ports)*
- Processing hubs
- Transportation hubs

PUBLIC GOOD

- Innovation / science
- Public health and wellbeing
 - Increasing seafood consumption
 - Health and safety
- Social cohesion
- Environmental status
 - Water
 - Benthos
 - Biodiversity
- Stock / resource status
 - Fish & shellfish
 - Minerals
 - Energy resources
- Marine & coastal management
 - Planning – inc. designations e.g. MPA
 - Multiple user management
 - Co-production opportunities



APPROACH

FOR EACH IDENTIFIED SECTOR:

- Define and describe the sector – geographical, economics, environmental, etc
- Analyse the sustainable potential for the sector
 - Options include SWOT, TOWS or even mini Strategic Frameworks
 - Develop a well-evidenced and costed plan of action for the sector – demonstrate value for money and benefits to Scottish economy, society, environment, etc

FINALLY

- Pull everything together into a comprehensive vision for how government could intervene strategically to help encourage growth in the marine economy

METHODOLOGY

- **Initial stakeholder meetings**
 - Industry – companies and trade bodies
 - Officials and regulators
 - Enterprise agencies, LAs, etc
 - Communities – FLAGS etc
 - Other stakeholders – NGO, consumers, etc
- **Join in with Economic Contractor workshops in Scotland**
- **Draft sectoral and overall analysis, strategy and recommendations**
- **Subsequent stakeholder ‘testing’**
- **Final product**

SOME THOUGHTS

- Government can intervene / invest in sectors with strategic use of finance, where justified
- *But government can also intervene through legislative or regulatory changes / improvements*

- What type of 'financial intervention'?
 - Fixed asset grants (what we have been used to with FIFG, EFF, EMFF)
 - Financial instruments – basically loans (for working capital &/or fixed assets)
 - Relatively small loans (remember the DTI SFLG?)
 - Venture capital

YOUR THOUGHTS

- *(Nick, could you or colleagues perhaps keep notes?)*
- So this will be 'EMFF but different' – any thoughts on how the 'different' could be tweaked to be of value to you?
- What about leaving the EU – any immediate potential positives or negatives? *[In a vacuum, really, because we don't know what the final arrangements will be]*
- Any thoughts on GRANTS v LOANS – or any combination thereof?
- Anything else?

THANKS FOR YOUR ATTENTION