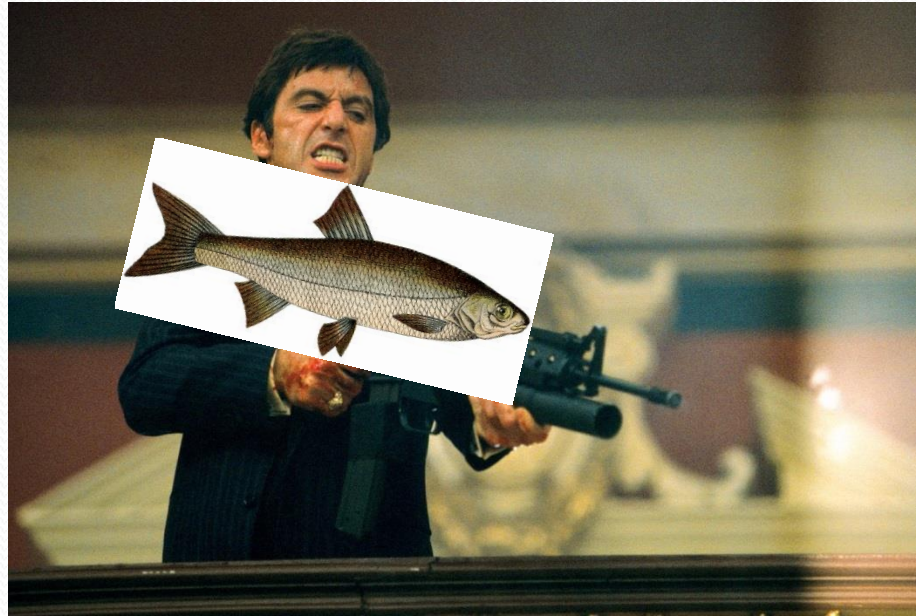


Marine Biotechnology and SCAR

Andrew Brown
Scottish Government
Chair of SCARFish Group

What is SCARFish?

- Not SCARFish

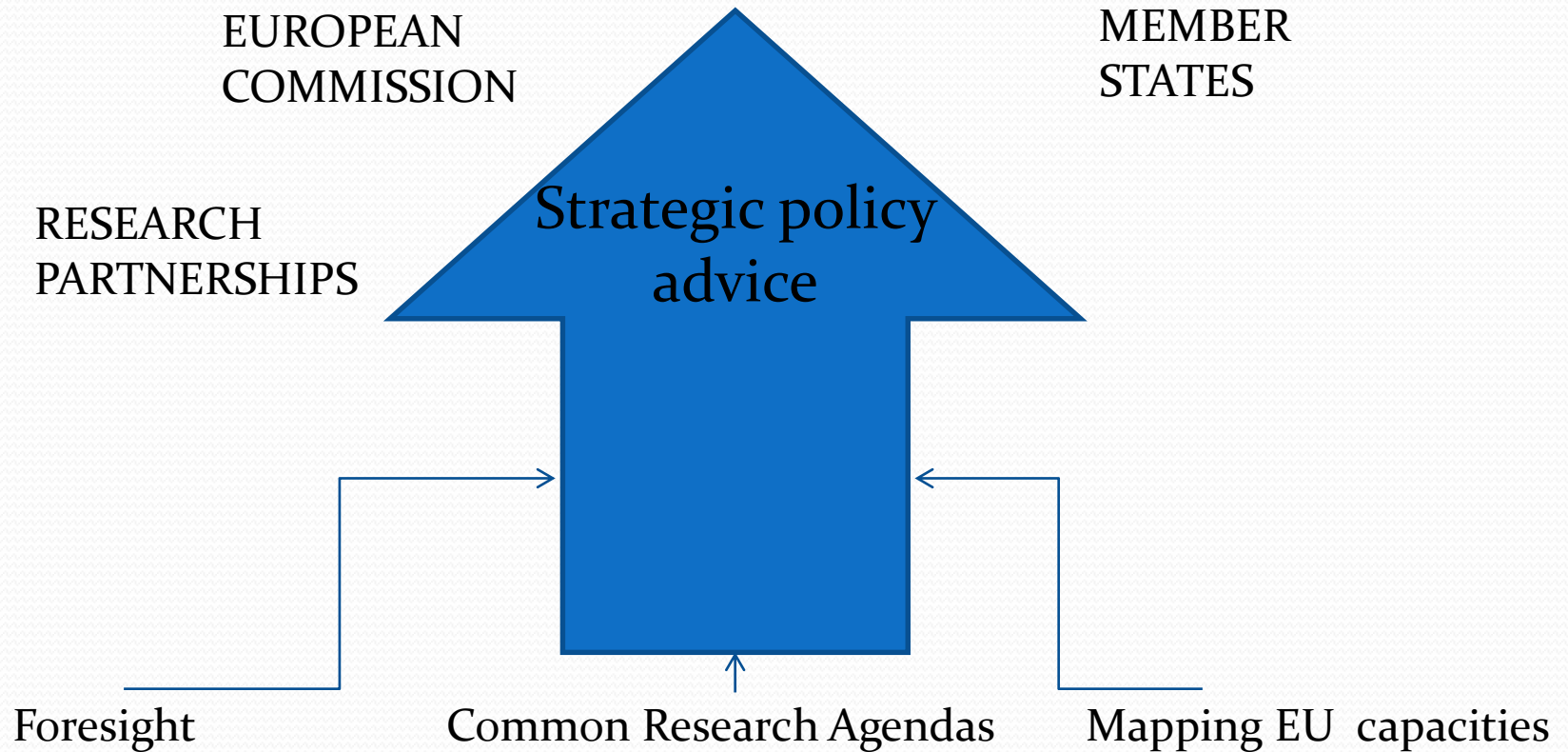


- SCARFish is a strategic working group under the SCAR umbrella.

SCAR ORGANISATION



Purpose of SCAR



Happy farmers



Product	cereal	milk	meat	Fish (wild and cultured)
Kg produced per head of population (EU - 2013)	640	311	85	11.8

SCARFish priorities

- SCAR Foresight Process – long term challenges
- SCARFish report 2013 – Science in Support of the European fisheries and aquaculture policy – short/medium term challenges
- SCARFish action plan for 2017 (mixture of immediate and strategic issues)

Role of MBT aligned with SCARFish policy challenges (1)

Biomass production and processing

- Aquaculture – feed/additives/disease control/optimal conditions for growth/genetics
- Marine – remote sensors/ROVs etc

Product innovation and differentiation

- Aquaculture – new species/shellfish/macro algae/multi-trophic aquaculture/land based/ circular economy
- Marine – new species/use of unwanted catches

Role of MBT aligned with SCARFish policy challenges (2)

Enabling Technologies and infrastructure

- Offshore aquaculture
- Data sharing
- Coordination of monitoring under DCF and MSFD

Conclusions

1. MBT has vital role in ensuring:
 - The sustainable management of sea fisheries
 - The sustainable expansion of commercial aquaculture
2. Marine biotechnology trails land based biotechnology. Potential of transfer of biotechnological innovation to marine environment.
3. SCARFish has important role in promoting and facilitating marine research including marine biotechnology.