

## Projects

Council members will be invited to discuss possibilities of ICES involvement in the Horizon 2020 work programme. As well as to take note of the current status of ICES involvement in projects.

### Main running and recently ended projects

Name of project	Main task	No of partners per ICES member country	ICES relevance
FP7 <b>COFASP ERA-NET</b> 'Coordination in Fisheries, Aquaculture and Seafood Processing' (2013-2017)	Elaboration on the contents of COFASP calls; compilation of emerging capacity building needs in the fisheries, aquaculture and seafood processing sectors; participation in COFASP Case studies.	BE: 1; DE: 2; DK: 4; ES: 2; FI: 1; FR: 2; IE: 1; IS: 2; NL: 1; NO: 2; PT: 1; UK: 2	Results of COFASP case studies and foresight (research priorities and private sector demand for aquaculture, fisheries and seafood processing). Formulated recommendations in the COFASP Strategic Research Agenda.  Results from the COFASP international research projects (under the three COFASP project calls).  Setting the scene for the H2020 ERA-NET co-fund on blue bioeconomy.
FP7 <b>MAREFRAME</b> 'Co-creating Ecosystem-based Fisheries Management Solutions' (2014-2017)	Contribution to fisheries management decision support framework; roundtables on ecosystem based fisheries management; regional / thematic case studies (performance of developed ecosystem models).	CA: 1; DK: 3; ES: 3; FI: 1; IE: 1; IS: 3; NL: 1; NO: 2; PL: 1; SE: 2; UK: 6	Consortium recommendations on how to improve EBFM advice within the EU CFP.  Integration /adaptation of models into fisheries management.  Decision support tools showing trade-offs between various management options with a roadmap for its integration into regional fisheries management.
EEA <b>ETC-ICM</b> 'The European Topic Centre	Data flows in support to the MSFD. Supporting the publication of marine	DE: 3; DK: 2; FI: 1; NL: 2; NO: 1; UK: 2	Extended use of ICES data in the publication of marine indicators (Nutrients and chlorophyll in seawater, contaminants in biota, and changes

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on Inland, Coastal and Marine waters’ (2014-2018)	indicators and assessment in the European Seas.		in fish distribution) and assessment (Hazardous substances and eutrophication).
H2020 <b>BlueBRIDGE</b> ‘Building Research environments for fostering Innovation, Decision making, Governance and Education to support Blue growth’ (2015-2018)	Support for stock assessments and training.  Knowledge bridging, education and capacity building for the management of marine living resources through virtual research environments (VREs).	DK: 1; FR: 4; NO: 1; UK: 1	IT support to training courses.  Development of on-line training options.  Integration of models and IT tools into stock assessment.
H2020 <b>COLUMBUS</b> ‘Monitoring, Managing and Transferring Marine and Maritime Knowledge for Sustainable Blue Growth’ (2015-2018)	ICES works with partners to ensure uptake of useable knowledge within the ICES network.	BE: 4; DE: 2; DK: 3; ES: 3; FR: 2; IE: 3; NO: 1; PT: 1; UK: 5	Collection of research knowledge outputs from international research projects.  Assessment and applicability of knowledge outputs: knowledge output tables with shortlisted results to be made available via the on-line EurOcean Knowledge Gate.  Examples of applicability: knowledge output pathways with impact measurement, dissemination and exploitation plans.
H2020 <b>AtlantOS</b> ‘Optimizing and Enhancing the	Improving fish survey acoustic and biotic data availability through ICES	BE: 3; CA: 2; DE: 8; DK: 3; ES: 3; FR: 12; IE: 3; NL: 2; NO: 3;	Enabled ICES to build the acoustic data portal (WP2), and support the steering and expert groups behind acoustic data. This is a key input to the transparent assessment framework, and the portal has helped develop

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Integrated Atlantic Ocean Observing System' (2015-2019)	Data Centre for three key pelagic fisheries surveys. Standards and harmonization to information aggregator portals for fisheries via ICES DATRAS and ICES ACOUSTIC.	PL: 1; PT: 3; UK: 10; USA: 1	standards, protocols and increased access to these data. <a href="http://ices.dk/marine-data/data-portals/Pages/acoustic.aspx">http://ices.dk/marine-data/data-portals/Pages/acoustic.aspx</a> . The networking and contribution to the Atlantic Observing system architecture under WP1 has put ICES together with other international networks to help define a blueprint (IOC, GOOS).
H2020 AORA- CSA 'Atlantic Ocean Research Alliance and Support Action' (2015-2020)	Participation in the project's High Level Operational Board (WP1) as well as leading three work packages: Ecosystem Approach/Ocean Stressors (WP4), Aquaculture (WP7), Knowledge Sharing Platform (WP11).	CA: 1; DK: 1; ES: 1; FR: 2; IE: 1; IS: 1; NO: 1; PT: 1; UK: 1	Inventories of international collaborations / projects / applicable research results in the AORA thematic areas (ocean stressors, aquaculture, ocean literacy, seabed mapping); Online access to the findings via the online AORA Knowledge Sharing Platform.  Trilateral WGs on AORA thematic areas; Action roadmaps with staff exchanges, project twinning, joint publications, resource sharing and coupling of research funding.
LIFE TAPAS 'Development of HELCOM tools and approaches for the Second Holistic Assessment of the Ecosystem Health of the Baltic Sea'	Coordinate and monitor all technical developments through the Technical Working Group.	DK: 2; EE: 2; FI: 2	There was a small technical role in this project to support HELCOM on the redesign of their assessment and map portal.

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(2016-2017)			
H2020 <b>ClimeFish</b> 'Co-creating a decision support framework to ensure sustainable fish production in Europe under climate change' (2016-2019)	In ClimeFish, ICES will contribute to debates and dissemination activities within its European arenas to ensure science for sustainable use of the sea, especially within the fishery sector.	CA: 1; DE: 1; DK: 1; ES: 2; FR: 1; IS: 1; NO: 3; SE: 1; UK: 2	Fishdish workshop EDF/ClimeFish workshop on governance and management of European fisheries in changing climate scenarios.
EMFF <b>EMODnet INGESTION</b> 'European Marine Observation and Data Network' (2016-2019)	ICES serves as a point of contact for biological and environmental data.	BE: 2; DE: 1; DK: 3; ES: 2; FI: 2; FR: 2; IE: 1; NL: 2; NO: 1; PT: 1; SE: 1; UK: 1	Influence and staying in line with current metadata standard developments used for submitting data. Potential source of new data from providers not currently in established data collecting frameworks leading into EMODnet data portals as well as ICES.
GEF <b>LME LEARN</b> 'Strengthening Global Governance of Large Marine Ecosystems and Their Coasts through Enhanced Sharing and Application of LME/ICM/MPA	ICES leadership in the LME-LEARN Ocean Governance WG; organization of training courses for LME practitioners and managers within the ICES Training Programme.	USA: 1; Intergovernmental: 7	LME-LEARN toolkits to be made available (on ocean governance; LMEs and stakeholder participation; maritime spatial planning; environmental economics); Thematic / geographical boost to the ICES Training Programme. ICES gateway to the partner agencies implementing the UN SDG14.

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Knowledge and Information Tools' (2016-2019)			
H2020 <b>SeaDataCloud</b> 'Further developing the pan-European infrastructure for marine and ocean data management' (2016-2020)	Project network coordination (WP2); Expansion and governance of metadata and data content (WP5); Governance of standards and development of common services (WP8); Developments of upstream services (WP9); Developments of downstream services (WP10); Development, update and publication of data products for European sea regions (WP11).	BE: 5; DE: 5; DK: 2; EE: 1; ES: 2; FI: 3; FR: 3; IE: 1; IS: 1; LV: 1; NL: 3; NO: 1; PL: 2; PT: 1; SE: 1; UK: 2	SeaDataCloud is the 3rd iteration of SeaDataNet, the ICES Data Centre is a key player in the steering of the development and ensures the development of standardisation and governance. The infrastructure service that ICES supply as part of the SeaDataCloud backbone is a core (and demanding) part of the ICES data work, and subsidised by this activity.
EMFF EASME <b>EMODnet Biology III</b> 'Operation, development and maintenance of a	Major provider of biological observations (presence/absence). Collaborating on data products i.e. the ICES OOPS derived via this project. Also	BE: 3; DK: 2; ES: 1; FI: 1; FR: 1; NL: 3; NO: 1; PT: 1; SE: 1; UK: 5	The OOPS Zooplankton product <a href="http://ices.dk/news-and-events/news-archive/news/Pages/Zoom-in-on-zooplankton-data.aspx">http://ices.dk/news-and-events/news-archive/news/Pages/Zoom-in-on-zooplankton-data.aspx</a> was developed via this cooperation.

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European Marine Observation and Data Network' (2017-2019)	contributing to data standards and harmonization.		
EMFF EASME <b>EMODnet Chemistry III</b> 'Operation, development and maintenance of a European Marine Observation and Data Network' (2017-2019)	Work package lead on user feedback, especially linking MSFD into the data product development of EMODnet Chemistry. Also contributing to data standards and harmonization.	BE: 2; DE: 1; DK: 2; EE: 1; ES: 1; FI: 2; FR: 1; IE: 1; LV: 1; NL: 2; NO: 1; PT: 1; SE: 1	ICES is ensuring synergy between existing dataflows and the EMODnet portal to avoid duplication of data (and effort). ICES also acts as the main conduit from the OSPAR and HELCOM data product needs into EMODnet Chemistry.

**Projects in pipeline – not yet evaluated**

Name of project	Main task
H2020 <b>IMPROFISH</b> 'Improving biological knowledge and management in European fisheries' (2018-2021)	Organizing training courses in fisheries management and promoting the uptake by communicating the findings through ICES Communications. Organizing stakeholder panel discussions or workshops.
H2020 <b>PANDORA</b> 'Paradigm for Novel Dynamic Oceanic Resource Assessments' (2018-2021)	Training, integration of new knowledge into operational advice, incorporation new data collection methods. Enabling conversations between research scientists and ICES advisory working groups.
<b>MaxFish</b>	Involved in WP3 'Decision support framework' and WP6 'Stakeholders, dissemination and exploitation' to help organise training courses, implement the results of MaxFish into management and help disseminate them. Enable conversations between research scientists and ICES advisory working groups.

**Project opportunities**

- H2020 WP 2018-2020 (2018 selected, unofficial, based on the draft work programme):
- DT-BG-04-2018-2019 Sustainable EU aquaculture 2.0: Breeding and Feeding - BG-08-2018-2020
- The Future of Seas and Oceans Flagship Initiative (Blue cloud services; Observations and forecasting; Technologies for observations)
- BG-08-2018-2019 All Atlantic Ocean Research Alliance Flagship
  - Coordination of marine and maritime research and innovation activities in the Atlantic Ocean – CSA;
  - Assessing the status of Atlantic marine ecosystems – RIA;
  - New value chains for aquaculture production – RIA.