ROD CAPPELL **Curriculum vitae**

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| **1. Family name:** | **CAPPELL** | **Email:** [**rod@consult-poseidon.com**](mailto:rod@consult-poseidon.com) |
| **2. First name:** | **Rod** | **Tel. +44 7974 351 325** |
| **3. Date of birth:** | **21 January 1971** | **Skype: rodcappell (Northern Ireland)** |
| **4. Nationality:** | British | |
| **5. Education:** | |  |  | | --- | --- | | *2005* | Imperial College, Post. Cert. **Applied Environmental Economics** | | *1995* | Heriot-Watt University, MSc **Marine Resource Development & Protection** | | *1992* | Liverpool University, BSc (Hons) **Marine Biology** | | |
| **6. Present position:** | Director of *Poseidon Aquatic Resources Management Ltd*, a leading international consultancy specialising in fisheries, aquaculture and aquatic environment. | |
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| **7.** **Key qualifications** *(linked to relevant experience overleaf,* ***Ctrl + click*** *to follow)* | Over 20 years experience, inc. 12 years as **project leader** and **project manager**. Fisheries & aquaculture industry analysis;   * [**Fisheries policy, legislation and management**](#fish_pol)**:** Provision ofpolicy research, legislative review and development of fisheries management plans. * [**Blue**](#Coast_man) **Economy:** Analysis of coastal & marine planning, strategy development. * [**Sector planning**](#sector_policy)**:** industry development, strategic reviews and plans. * **Economic appraisal & business analysis:** Economic and socio-economic analysis, options appraisal & Cost Benefit Analysis for public and private sector. * [**Aquaculture**](#Aquaculture)**:** strategic and technical development of sustainable aquaculture. * [**Project & public expenditure design & evaluation**](#Proj_dev_eval)**:** programme design and ex-ante, mid-term and ex-post monitoring and evaluation. * [**Environmental Assessment**](#Env_Assess)**:** experienced practitioner and project manager for EIA, SEA, Habitat Assessment & MSC certification. * [**Port infrastructure and regeneration**](#port)**:**  feasibility & business planning for port infrastructure investment. * [**Fish processing & marketing**](#fish_process): investigations into global seafood trade including price analysis, eco-labelling, certification and use of Life Cycle Assessment. | |
| **8.Professional Experience Record** | 2007 to date Director of Poseidon ARM Ltd, UK  2004 to 2007 Senior environmental consultant with Royal Haskoning, UK  1997 to 2004 Consultant with Nautilus Consultants Ltd., UK  1995 to 1996 EC Fisheries Observer, NAFO region, Canada & Spain  1993 to 1994 Research Assistant, Australian Institute of Marine Science | |
| **9. Other skills:** | Word processing (MS Word); spreadsheets (MS Excel,); databases (MS Access); project management (MS Project), statistics (SPSS); ArcGIS introduction (2007) | |
| **10. Geographic experience** | EU, UK, Iceland, Ireland, France, Norway, Belgium, Denmark, Portugal, Netherlands, Cyprus, Malta, Sweden, Albania, Greenland | |
| **Middle East** | Oman, Egypt, Saudi Arabia | |
| **Africa** | Cape Verde, Ghana, Uganda | |
| **Asia**  **South America** | Bangladesh, China, Indonesia, Malaysia, Myanmar, Philippines, Thailand & Vietnam  Chile | |

**11. Specific experience:**

| **Fisheries Policy Legislation and Management** [**Return to headings**](#Home) |
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* **UK: Fishery Improvement Plans for key commercial species (PUKFI MSC, 2017-2019)** Development of action plans and implementation support
* **UK: A decision-making support tool for English fishery managers (Defra, 2018/19)** GIS-enabled tool kit to explore alternative management scenarios
* **Cape Verde: Evaluation of Sustainable Fisheries Partnership Agreement between the EU and Cape Verde (DG MARE, 2017-18)**
* **Europe: Taking Stock: CFP Progress towards ending overfishing (Pew Charitable Trust, 2017)**
* **Philippines: Value chain analysis for the GenSan tuna port (USAID/Bold Native, 2016)**
* **UK: Development of a Management Plan for The Wash Shrimp Fishery (Private client, 2016)**
* **Europe: Fisheries Management Works: good practice case study report (Pew Charitable Trust, 2016)**
* **Ghana: Developing Legal, Operational And Organizational Framework To Enable Implementation Of The Ghana Fisheries And Aquaculture Sector Development Plans. (WorldBank, 2014)** Poseidon led a multi-disciplinary team, key expert on Community-Based Fisheries Management
* **China: Seafood Profile for WWF (2012):** Extensive review of Chinese seafood trade to explore China’s role and demand on world fisheries, Chinese market trends and potential interventions to address sustainability issues.
* **Global: Review of Greenhouse Gas Assessment methods in fisheries and aquaculture (FAO, 2012).** Preparation of a background paper, facilitation of an expert workshop, production of a workshop report and technical paper on methods to assess GHG emissions in the seafood supply chain.
* **Bay of Bengal: Assessment of small pelagics fisheries within the Bay of Bengal Large Marine Ecosystem (BOBLME) (FAO/GEF, 2010).** Visits to all 8 countries within the BOBLME area to assess the current management & environmental impact of small pelagics fisheries in the region, focusing on Hilsa shad (*Tenulosa ilisha*) and Indian Mackerel (*Restrelliger kanagurta*). Recommendations for management improvements, capacity building and collaboration across the region were given.
* **UK: Management of Brown Crab fisheries in Northern Ireland (NIFPO, 2010)** Review of current fisheries management, and extensive consultation with industry to explore structure and viability of a local management plan, including quality and marketing support.
* **Europe: Assessment of Effort Management Administration in the North East Atlantic (DG MARE, 2010-2011).** Poseidon led a European research consortium exploring the practical implementation of various effort management regimes throughout Europe. The work explored experiences and problems to date in order to identify best practice and areas where simpler regulation is possible.
* **Europe: Regulatory Impact Assessment of Common Fisheries Policy Reform (with MRAG for DG MARE,2009-ongoing).** Poseidon had an extensive role in the most far-reaching and influential fisheries Impact Assessment to date, which helped to determine the type and scale of CFP reform in 2012. The team provided socio-economic analysis using various indicators and reporting on regional case studies to inform the RIA.
* **UK: Review of evidence for 2012 CFP Reform (Inquiry into Future Fisheries Management, Marine Scotland, 2009).** A desk-based review of key documents relating to Scottish and UK proposals for future fisheries management. The IFFM is an apolitical group established to propose the best approach to future fisheries management to inform CFP reform.
* **UK: An economic approach to long-term reform of the English inshore fleet (Defra in association with Vivid Economics, 2009).** Exploration of several options for management of resource access by the inshore fishing fleet in 20 years time using industry interviews and workshops to determine favoured arrangements, impacts and transition arrangements.
* **UK: Production of model management plan for Inshore Fisheries Groups (Scottish Government, 2008-ongoing)** Working with 6 pilot IFGs around Scotland to assist in development of local management objectives and measures to inform a model Management Plan and guidance for all IFGs.
* **UK: Development of fisheries sustainability assessment tool (Private Client, 2008)** Production of a decision-making tool for large UK multiple retailer to aid delivery of sustainability targets in seafood purchasing.
* **Global: Review of Abandoned Lost and Discarded Fishing Gear (FAO, 2008)** Co-author of technical paper reviewing global knowledge base in ALDFG with recommendations for future inter-agency activities.
* **UK: Guidelines on siting and installation of sub-sea cables (DTI, 2006)** Development of best practice in relation to avoidance or minimisation of fisheries interactions with sub-sea cables.
* **UK: Fish Producer Organisations Review (Defra, 2006)** Review of quota management, marketing and fisheries management by UK Fish Producer Organisations as part of Quota Change Management Review.
* **Albania: Albanian Fisheries Development Project (World Bank, 2000-2001).** Development of co-management structure for fisheries organisations and relevant authorities for future management.
* **Norway & EU: Economic Aspects of Discarding (DG XIV of EC, 2000).** Economic incentives for discarding in European Fisheries; case study on North Sea whitefish trawl fishery and Norwegian cod fishery
* **Global: Comparative Analysis of International Fisheries Organisations (European Parliament, 2000)**. Review of Regional Fisheries Bodies: current and future status & issues with intervention recommendations.
* **EC: Restructuring Fishery industry representation in Europe (DG XIV of EC, 1997-98).** Review of fisheries and aquaculture representation throughout Europe to restructure ACFM.
* **Canada: NAFO Fisheries Observer Programme (MRAG, 1995-1996)** EU Fisheries observer living onboard Spanish freezer trawlers fishing in NAFO waters; measurement of fishing gear, catches and discards.

| **The Blue Economy** [**Return to headings**](#Home) |
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* **Global: Development of Maritime Economic Plans for Small Island Developing States in the Pacific & Caribbean (with Atkins for FCO)**
* **EU: Economic Benefits of Marine Spatial Planning (with Cogea, Italy for DG MARE, 2018-19)**
* **EC: European Maritime Economic Data (DG Mare, 2016-17)** Developing a framework for thecollation and analysis of economic data for Blue Growth
* **EC: Rapporteur for Marine Spatial Planning workshops on energy & fisheries in Dublin & Vilnius (Gopa CM, 2013)**
* **UK: Delivering OSPAR Annex V commitments in Scotland (Scottish Government, 2008)** Project manager of an interdisciplinary team of experts considering the inter-relationship between Natura 2000 sites and development of a network of Marine Protected Areas under OSPAR Annex V.
* **UK: Sustainable Scotland Marine Environment Initiative (Scottish Executive 2004-2006)** PM for development of new approaches to marine spatial planning and implementation of the ecosystem approach.
* **UK: Options appraisal for coastal remediation (South Shields MBC, 2005-2006)** Investigation of appropriate coastal management options for an eroding contaminated cliff face in a popular recreational area.
* **UK**: **Invest in Fish South West (WWF/Defra, 2003-2004)** Detailed socio-economic survey of recreational anglers and associated coastal industries using choice experiment to determine Willingness to Pay for new coastal management approaches - contributed to regional bio-economic model.

| **Economic Appraisal & Business Analysis** [**Return to headings**](#Home) |
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* **Ireland: Value Chain Analysis of key seafood export chains (BIM, 2018)**
* **UK: Socio-economic impact on fishing communities of proposed Marine Conservation Zones (SNIAC, 2018)**
* **Ireland: CBA of Co. Kerry Pier Extension (BIM, 2018)**
* **UK: Economic impact of a proposed landings target on the Scottish pelagic sector (SFO/Shetland FPO, 2017)**
* **EC: European Maritime Economic Data (DG Mare, 2016-17)** Developing a framework for thecollation and analysis of economic data for Blue Growth
* **UK: Valuation of Irish Sea Marine Conservation Zones for the Irish fishing industry (SNIAC, 2016)**
* **UK: Due diligence of proposed Shetland processing plant (HIE, 2015)**
* **Europe: Feasibility study on an EU Ecolabelling scheme (DG Mare, 2015)**
* **UK: Economic Impact Assessment of the Landing Obligation on UK seafood sector (Seafish 2014-15)**
* **EC: Financial Instruments under the EMFF scoping study (European Investment Bank, 2014-15)**
* **Global: Valuation of world tuna fisheries (Pew Charitable Trust, 2014)**
* **E. Africa: Economic Assessment of sustainable shrimp fisheries (WWF, 2014)**
* **UK: Value Chain Analysis of Scottish Haddock to determine certification benefits (SFSAG, 2014)**
* **UK: Financial modelling of the impact of the discard ban on several UK fleet segments (Seafish, 2013)**
* **Uganda: Techno-economic feasibility study of development of Aquaculture Parks (Europeaid, 2012)**
* **UK: Best practice guidelines for valuation of areas closed to fishing (Seafish, 2012)**
* **Europe: Socio-economic studies to develop the Data Collection Framework (DG MARE, 2012)**
* **UK: Assessing the Value of Irish Sea MCZs to Northern Ireland Fishing Industry (Seafish NI Advisory Committee, 2012).**
* **Ireland: Socio-economic assessment of Fisheries Dependency in Castletownbere (BIM, 2011-12)**
* **Europe: Socio-economic assessment of change in fisheries dependent communities across Europe (EC DG MARE, 2010)** Quantitative and qualitative data gathering & analysis for 24 fisheries-dependent communities. Undertaking case studies in Scotland, England & Ireland.
* **Europe: Regulatory Impact Assessment of a Plan of Action on Seabirds (EC DG MARE, 2010)**
* **UK: Financial appraisal of fisheries shore-side facilities (East Ridings Council, 2009 & 2010)**
* **UK: Regulatory Impact Assessment of extensions to Natura designated areas (Scottish Government, 2008)** Assessing socio-economic impact of proposed seaward extensions of Special Protected Areas.
* **Europe: Regulatory Impact Assessment of Shark Conservation Action Plan (EC DG MARE, 2008)**
* **UK: Withernsea cost benefit analysis (East Ridings Council, 2006)** CBA of potential fishing infrastructure for EU funding application
* **UK: Economic Assessment for Flood Alleviation Schemes (Moray Council, 2006-2007)** Production of damage assessment for tangible and intangible elements associated with 3 flood alleviation schemes.
* **UK Cairnryan port development (P&O Stena line, 2006)** Economic Assessment of impacts from port developments on native oyster fisheries.
* **UK: Kilkeel Harbour Extension (DARD, 2005)** Economic appraisal of harbour development options for Northern Ireland's largest fishing port. Involves fleet modelling, cost/benefit analysis and socio-economics.
* **UK: Socio-economic evaluation of SW England fishing industry (SWRDA, 2001).** Production of baseline of fisheries socio-economic info for Objective One and Non-objective one areas in the South West.
* **UK: Economic evaluation of fisheries infrastructure investment in Rye (Arup/Environment Agency, 2001).** Review of fishing's socio-economic contribution to the area and the port's revenue.
* **UK: Cost & Earnings Survey of the UK fishing Industry (Seafish, 1999)** Compilation of Fishermen's Handbook presenting average costs, earnings and profitability of various fleet segments.

| **Sector planning** [**Return to headings**](#Home) |
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* **UK: Review of UK Scallop sector future management options (SICG, 2018)**
* **Albania: Fisheries Sector Strategy 2015-2020 (EU Delegation to Albania, 2014-15)**
* **Ghana: Development of Community-Based Fisheries Management Policy (WorldBank, 2014)**
* **UK: Review of Scottish scallop sector (Marine Scotland, 2013)**
* **UK: Fleet impacts of CFP reform landing obligation (Seafish, 2013)**
* **Malta: Fisheries Sector SWOT to inform EMFF (MRRA, 2012)**
* **Saudi Arabia: fisheries sector development review (KSA, 2011)** comprehensive fisheries and aquaculture sector review involving fisheries management and aquaculture zoning, market analysis.
* **Europe: Characterisation of Small-scale fisheries in Europe (European Parliament, 2011)** Development and description of SSF fleets across Europe using cluster analysis to inform future policy.
* **Oman: Review of fisheries sector development (World Bank, 2009).** Desk-based review of the performance of the fisheries sector against strategic targets set within the national five year plans.
* **UK: Review of CFP Reform proposals (Inquiry into Future Fisheries Management, 2009)**
* **UK: Fishing sector icing requirements in the South East of England (SE Food Group Partnership, 2008)**
* **UK: South East England Fishing Industry Development Plan (SEEDA, 2006-2007)** Project Leader for sector review, market opportunities, price analysis, development of GIS to inform industry development plan
* **UK: New jobs for the fishing industry: seafood, tourism and education (Hastings Borough Council, 2004)** Audit of fishing industry & dependent tourism for development strategy for industry and town.
* **UK: Assessment of Seafood Market Development Opportunities (North Shields council, 2003).** Provision of strategic guidance on seafood businesses detailing requirements for a new business park.
* **UK: Fisheries Action Plan Development (Welsh Assembly, 2000).** Production of a strategy for Welsh fisheries including inland and coastal commercial and recreational fisheries
* **UK: Northern Ireland Catching Sector Development Strategy (DARD, 1999).** Review of current performance and future prospects, development potential for Northern Ireland fishing sector.

| **Environmental Assessment** [**Return to headings**](#Home) |
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* **Iceland: MSC Assessment of ISF multi-species demersal fisheries (Tun, 2018/19)** Team leader and P3 expert
* **UK: Technical support to Fisheries Improvement Projects for key commercial species (PUKFI MSC 2016-ongoing)**
* **UK: Hornsea wind farm project 2 & 3 EIA - Commercial Fisheries (RPS,2015-ongoing)** Production of commercial fisheries chapter of EIA for offshore wind farm development by Dong Energy.
* **China: Pre-assessment and FIP design for fishery in NE China (WWF China & WWF Japan, 2016)**
* **Greenland: MSC Assessment of Greenland Halibut (DNV, 2016)** Team Leader and P3 expert
* **Italy: MSC Assessment of small pelagics in the Adriatic (RINA, 2015-16)** Team leader and P3 expert
* **China: MSC Pre-assessment of multiple species & gears (CCAPMA, 2015-16)**
* **UK: MSC Pre-assessment of multi-species pot fisheries (Seafish NI, 2015)**
* **Netherlands: MSC Main assessment of sole and plaice pulse trawl fishery (CVO, 2015)**
* **Ireland: Strategic Environmental Assessment and AA Screening of Seafood Development Programme (DAFM, 2014-15)**
* **Greenland: MSC Main assessment of Lumpfish (private client, 2014)**
* **Portugal: MSC Main assessment of Algarve Mussel (private client, 2014)**
* **Sweden/Denmark: MSC main assessment of Nephrops in the Skagerrak and Kattegat (private client, 2014)**
* **Greenland: MSC Surveillance audit of West Greenland Coldwater Prawn (private client, 2014)**
* **Denmark: MSC Main assessment of Greenland Barents Sea cod haddock and saithe (private client, 2013)**
* **UK: Appropriate Assessment of Scottish aquaculture sites (Marine Scotland, 2013)**
* **Sweden: Marine Stewardship Council Main Assessment for private client (2013).** Team Leader &Principle 3 expert for assessment of Swedish mussels.
* **UK: Project Inshore (MSC/Seafish, 2012-14).** Marine Stewardship Council group pre-assessment of English fisheries.
* **Chile: Marine Stewardship Council Main Assessment for private client (2012).** Principle 3 expert for assessment of Chilean mussels.
* **UK: Hornsea wind farm EIA - Commercial Fisheries (EMU,2011-ongoing)** Production of commercial fisheries chapter of EIA for offshore wind farm development by Mainstream.
* **Netherlands: Marine Stewardship Council Main Assessment for private client (2010)** Principle 3 expert for a nationwide assessment (all gears and fleets) for key North Sea species.
* **UK: Marine Stewardship Council Pre-Assessment for private client (2010)** Pre-assessment of two demersal fisheries in the North East Atlantic region.
* **Global: Assessing the environmental gains achieved by Marine Stewardship Council certification (MSC, 2010-2011)** Exploring evidence of change in fisheries management & practices as a result of MSC certification.
* **Netherlands: Marine Stewardship Council Pre-Assessment for private client (2010)** Lead assessor and principle 3 expert for a North Sea fishery.
* **UK: Assessment of UK Seafood sustainability (Defra, 2009-2010).** Identification of current actions and LCA issues with UK produced and imported seafood products to inform recommendations for supporting actions.
* **UK: Marine Stewardship Council Main Assessment for private client (2009-2010)** Lead assessor and principle 3 expert for a North Sea fishery.
* **Netherlands: Marine Stewardship Council Pre-Assessment for private client (2009)** Undertaking pre-assessment of a North Sea fishery for Dutch client.
* **Europe: Environmental and social evaluation of EC FIFG funding programme (Environmental NGO, 2009-ongoing).** A shadow ex-post evaluation of FIFG investigating the support given under fleet and non-fleet measures in relation to environmental and social criteria. Assessment of EC data for top 10 recipients and case study investigations in key Member States.
* **Europe: Assessment of impacts and pressures of aquaculture activities in relation to Water Framework Directive objectives (DG Environment, 2009-ongoing).**
* **UK: Marine Stewardship Council Pre-Assessment for private client (2008-2009)** Undertaking pre-assessment of three major fisheries for UK client.
* **UK: Appropriate Assessment of Barrow Port Area Action Plan (Barrow Borough Council, 2008)** Project manager, in association with Royal Haskoning, to conduct an appropriate assessment of a supplementary planning document associated with two Natura 2000 sites.
* **UK: Strategic Environmental Assessment of the European Fisheries Fund (Defra, 2007-2008)** Assessment of potential impacts of new EC structural funding scheme for the fisheries sector including development of mitigation and monitoring.
* **UK EEZ: Environmental Risk Assessment (Private client, 2007**) Project manager for assessment of various decommissioning options using scenarios for oil & gas infrastructures in the North Sea.
* **UK: Cumbria Wind farm EIA (Private client, 2007)** PM for EIA of proposed onshore wind farm
* **UK: Environmental & ecological surveys to support Helix Project lottery fund bid (British Waterways/Falkirk Council, 2006-2007)** Project management of ecological, contaminated land surveys and scoping report to support successful multi-million pound Lottery Fund bid – the Falkirk Helix Project.
* **UK: Waterfront Harbour Revision Order (West Lakes Renaissance, 2005-2007)** Project manager of EIA for £100million+ regeneration scheme including Cumulative Effects Assessment & Appropriate Assessment.
* **UK: Feasibility of Offshore Wind farm Sites (Airtricity, 2006)** Review of fishing activity and resources associated with 3 potential offshore wind farm sites in Scottish waters.
* **UK: Solway Firth Cockle Fishery Management Plan (Scottish Executive, 2005)** Drafting of Appropriate Assessment for re-opened cockle fishery to address impacts and mitigation for SPA and SAC interest features
* **UK: Sheringham Shoal Offshore Wind Farm (SCIRA Ltd, 2006)** Production of commercial fisheries section for offshore wind farm EIA off the Norfolk coast.
* **UK Thanet Offshore Wind Farm (Warwick Energy, 2006)** Production of commercial and natural fisheries section of environmental statement for EIA of wind farm in the Greater Thames Estuary.
* **UK: Fishing effort and subsea cable interactions (Seagen, 2001).** Assessment of risk from and to fishing activity caused by telecoms cable in the North Sea
* **Global:** **Assessment of artificial reef impacts on marine resources (ICIT, 1995)** Meta-analysis of results from artificial reef projects around the world to determine outcomes in relation to aggregation v production.
* **Australia: Volunteer support** Investigating health and regeneration of coral reefs **(AIMS, 1993)**

| **Project and public expenditure design and evaluation** [**Return to headings**](#Home) |
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* **Myanmar: Real Time Evaluation of Fisheries Co-management Programme (DANIDA, 2017-2020)**
* **EC: Evaluation of EU Fisheries Statistics (DG MARE, 2018)**
* **EC: Evaluation of EU Seafood marketing standards (DG MARE, 2018)**
* **EC: Interim Evaluation of EMFF Direct Management (DG MARE, 2018)**
* **IE: FAME (Fisheries & Aquaculture Monitoring and Evaluation) (DG Mare, 2015-2020)** Support Ireland
* **EC/NL/DE: Ex post evaluation of European Fisheries Fund 2007-2013 (DG MARE, 2015-16)** Project support, analysis & pilot operations case study in Germany & Netherlands (aqua innovation)
* **IE: Ex ante and Strategic Environmental Assessment of Seafood Development Programme (DAFM, 2014-15)**
* **EC/Greenland: Evaluation of Fisheries Partnership Agreement between the EU and Greenland (EC DG Mare, 2014).** Undertook stakeholder consultation in Greenland as part of ex ante evaluation of future FPA.
* **EC: Blue Growth strategic review of Black Sea region (DG MARE, 2013)**
* **UK: Ex ante and Strategic Environmental Assessment of EMFF Operational Programme (Defra, 2014-15)**
* **EC: Counterfactual Evaluation of Permanent and Temporary Cessation measures (DG MARE, 2013)**
* **EC: Evaluation of the Data Collection Framework (DG MARE, 2012).** Including Irish case study.
* **UK: Interim Evaluation of the European Fisheries Fund (Defra, 2011)**
* **UK: Evaluation of fishing vessel decommissioning schemes (Defra, 2011)**
* **EC: Evaluation of Common Fisheries Policy Reform proposals (DG Mare, 2011)**
* **UK: Strategic Environmental Assessment of the European Fisheries Fund (Defra, 2007-2008)** Evaluation of potential impacts resulting from new EC structural funding scheme for the fisheries sector including development of mitigation and monitoring.
* **UK: Quinquennial review of Northern Ireland Fisheries Harbour Authority (DARD, 2003).** Provision of expert advice on fishing industry & fisheries harbours during evaluation of NIFHA.
* **EC: Impact of FIFG measures on the fish processing industry (DG XIV EC, 2001-2002)** Management of pan-European team investigating impact of European funding on the fish processing industry.
* **Ireland: Value for Money Review of Ice Plant Programme. (BIM, 2001)** Assessment of demand changes and proposing level of future funding with extensive fieldwork and consultation.
* **UK: Interim Evaluation of PESCA initiative (Defra, 1999)**. Evaluation of impact of 1994-1999 fisheries initiative encouraging diversification within and out of fishing for coastal communities.
* **EC: Evaluation of EU fisheries control and surveillance expenditure (DG XIV of EC, 1999)**. Evaluation of funding measure to encourage improved MCS operations throughout Europe.

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| **Aquaculture** [**Return to headings**](#Home) |

* **UK: Economic Modelling to determine the critical mass for Scottish shellfish development (The Crown Estate Scotland, 2017)**
* **UK: Review of consenting regime for Scottish Aquaculture (Crown Estate/Marine Scotland, 2015-16)**
* **UK: Collation of aquaculture sector economic data under DCF (Seafish/MMO, 2013)**
* **Uganda: Techno-economic feasibility study of development of Aquaculture Parks (Europeaid, 2012)**
* **Saudi Arabia: Feasibility study for recirculation systems (KSA, 2012)** Assessment of technical requirements and economic viability of various aquaculture recirculation systems with aquaponic and biofloc elements.
* **Saudi Arabia: Feasibility of marine Aquaculture clusters (KSA, 2012)** Outline Economic Analysis of various scales of marine cage culture development.
* **Regional: Due diligence of shrimp production & marketing company (Private client, 2011)**
* **UK: Impact of Aquaculture on Scottish Tourism (Scottish Aquaculture Research Forum, 2008 & 2011)** Socio-economic assessment of visitor perceptions of aquaculture and resulting impact on tourism revenues. Research extended for further case study areas in 2011.
* **UK: Analysis of Salmon Farming in Scotland, Norway & Chile (Scottish Government, 2007-2008).** review of price & market impacts of industry evolution & government interventions over the last 10 years.
* **UK: Sustainable Seafood Consumption & Production (Defra, 2007)** Project Leader of Life Cycle Assessment for UK fisheries and aquaculture production, transport & processing and consumption.
* **UK Mussel bottom culture site investigation (Deepdock Ltd, 2006)** Fisheries assessment & habitat survey of Scottish firth to assess feasibility of commercial shellfish harvest.
* **Bangladesh: Investment Mechanisms for Responsible Shrimp Culture. (DfID, 2004)** Encouraging environmentally and socially responsible production and trade practices in developing countries.
* **Bangladesh & Vietnam: Environmental Capacity for Aquaculture Developments in the Tropics (TROPECA) (DfID, 2002-2004).** Management of 5 case studies (2 in Bangladesh & 3 in Vietnam) using environmental capacity in developing countries to manage aquaculture development on a sustainable basis.
* **Bangladesh: Shrimp farm feasibility study (Private client, 2003)** Assessment of potential shrimp and fin fish farm at an undeveloped site in SW Bangladesh involving site survey, soil and water quality, etc.

| **Fish processing and marketing** [**Return to headings**](#Home) |
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* **Ireland: Development of a raw material supply strategy (BIM, 2016-17)**
* **UK: County Down Seafood Marketing Business Plan (Strangford Lough Partnership, 2014-15)**
* **Ireland: Business benchmarking for Irish processing companies (Enterprise Ireland, 2008)** Assessment of seafood companies using PROBE business benchmarking software.
* **UK: Feasibility of establishing independent shellfish depuration facilities (Crown Estate, 2008)**
* **Ireland: Disposal and re-utilisation of fish and processing waste (Marine Institute, 2002)** Research study investigating waste from fisheries and aquaculture, disposal methods, CBA of potential reutilisation.
* **UK: Impact of regulatory change on King Scallop Markets (Seafish, 1999-2000).** Market investigation of impact of tighter control on shellfish testing. CBA on various processing options for scallop products.
* **France: Port Development Strategy (Boulogne-sur-Mer Chamber of Commerce, 1999).** Strategic review of distribution and handling facilities in main whitefish ports throughout Europe
* **Portugal: PESCA Partenariat, Porto (DG XIV of EC, 1998)**. Marketing and promotion of EC fisheries facilitation event. Liaison between European businesses to set up meetings for improved business linkages.
* **UK**: **Fish Processing Wastewater Treatment (Brown & Root, 1997-98)**. Advice to engineers building new treatment facilities relating to future type and volume of wastewater from fish processing companies.

| **Port infrastructure and regeneration** [**Return to headings**](#Home) |
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* **Spain: Programme organiser & facilitator for Atlantic Action Plan seminar on Ports & Logistics, Gijon, Asturias (DG Mare, EC, 2014)**
* **UK: Investment Appraisal of boat ramp and fishing compound for Withernsea (East Riding of Yorkshire Council, 2010).** Development of business case including CBA to support an EFF bid for new fishing infrastructure.
* **Oman: Strategic Review of Fishery Harbours (Ministry of National Economy in association with Arup, 2009).** Provided fisheries & fishery harbour expertise to a national strategic review of commercial ports and fishery harbours involving port visits and consultation throughout the country.
* **UK: Waterfront Harbour Revision Order (West Lakes Renaissance, 2005-2008)** PM of EIA for £100million+ regeneration scheme including Cumulative Effects Assessment & Appropriate Assessment. Drafting fisheries and socio-economic impacts chapters and Non-Technical Summary for EIA.
* **UK: Solway Firth Harbours Feasibility Study (Scottish Enterprise in association with McKenzie Wilson Partnership, 2008)** Investigation into current and required port infrastructure to develop marine tourism, commercial fishing, recreational angling, cargo and timber sectors along the Scottish Solway coast.
* **UK: Withernsea fisheries options appraisal (East Ridings Council, 2006)** feasibility of new fishing infrastructure involving industry consultation and market appraisal.
* **Ireland: Port Development Scoping (Shannon Foynes Port Company, 2006)** PM for investigation of issues associated with a large-scale land reclamation and port development project.
* **UK: Eastbourne Fishing Quay Feasibility (Eastbourne Fishermen’s Society, 2006)** Assessment of needs and design of dedicated facilities to support the fishing fleet within an existing harbour.
* **Cyprus: Akrotiri Port Expansion (Defence Estates, 2005-2006)** Project manager of marine dive survey, fisheries survey and stakeholder consultation for military Ro-Ro terminal upgrade.
* **UK Shoreham Port Market Development (Shoreham Port Authority, 2005)** Economic feasibility and site appraisal for mixed-use market premises at major commercial port on the South Coast of England.
* **UK: Fisheries regeneration initiative (Sunderland Port Authority, 2002)** Evaluation and projected development of the areas fishing industry including review of current & potential seafood markets.
* **Albania: Albanian Fisheries Development Project (World Bank, 2000-2001).** Feasibility review assessing proposed infrastructure investment and financing of proposed facilities
* **UK:** **Port Regeneration study Brixham (Torbay BC, 1999-2000)** Consideration of facilities for seafood sector (catching and processing), tourism and the wider community.
* **France: Port Development Strategy (Boulogne-sur-Mer Chamber of Commerce, 1999).** Strategic review of distribution and handling facilities in main whitefish ports throughout Europe