

**B** – Marine and maritime economic activities (MEAs)

Overview of relevant maritime economic activities in IRELAND at NUTS-0 level.

Maritime ecor	nomic activity	Gross Value Added (EUR, million)	Employment (FTE)	Number of enterprises	Other indicators (EUR, million)	Source & Reference year
0. Other secto	rs	•				
0.1	Shipbuilding (excl. leisure boats) and ship repair	9	229	20	Turnover - 25	Census of Industrial Production 2010, Central Statistics Office Ireland (CSO)
0.2	Water projects	1.7	39	7	Turnover – 4	Central Statistics Office Ireland (CSO) – Buildings and Construction 2010
1. Maritime tr	ansport	1	1	1	1	













Maritime economic activity		Gross Value Added	Employment (FTE)	Number of	Other indicators	Source & Reference year
		(EUR, million)		enterprises	(EUR, million)	
1.1	Sea and coastal passenger water	422	4,633	500	Turnover – 1,422	Vega, A., Corless, R. and Hynes,
1.2	transport; Sea and coastal freight water					S. (2013). Ireland's Ocean Economy, SEMRU Report Series,
1.3	transport; Services incidental to water					ISSN 2009-6933 (Online)
1.4	transport; Cargo handling (74% of nace code taken);					Reference year: 2010
	Renting and leasing of water transport					
	equipment; Other transportation					
	support actvities (74% of nace code					
2. Food, nutri	tion, health and ecosystem serv	/ices				













Maritime economic a	activity	Gross Value Added (EUR, million)	Employment (FTE)	Number of enterprises	Other indicators (EUR, million)	Source & Reference year
2.1 2.2	Fish for human consumption Fish for animal feeding	116	2825	n/a	Turnover – 202 Exports – 162	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online) Reference year: 2010
2.3	Marine aquaculture	47	918	n/a	Turnover – 123 Exports – 30	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online) Reference year: 2010
2.4	Blue biotechnology	13	304	30	Turnover – 30 Exports – 12	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online)















Maritime economi	ic activity	Gross Value Added	Employment (FTE)	Number of enterprises	Other indicators	Source & Reference year
		(EUR, million)			(EUR, million)	
						Reference year: 2010
2.5	Agriculture on saline soils	n/a	n/a	n/a	n/a	
3. Energy and raw	materials			1		
3.1	Offshore oil and gas	4	216	n/a	Turnover – 12	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online)
						Reference year: 2010
3.2 & 3.3	Offshore wind & Ocean Renewable Energy	4	216	n/a	Turnover - 12	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online)
						Reference year: 2010













Maritime eco	nomic activity	Gross Value Added	Employment (FTE)	Number of enterprises	Other indicators	Source & Reference year
		(EUR, million)			(EUR, million)	
3.4	Carbon capture and storage	n/a	n/a	n/a	n/a	
3.5	Aggregates mining (sand, gravel, etc.)	10	1471 (number of people employed)	60	Turnover - 414	Census of Industrial Production 2010, Central Statistics Office Ireland (CSO) Nace code : 8.12
3.6	Marine minerals mining	n/a	n/a	n/a	n/a	
3.7	Securing fresh water supply (desalination)					
4. Leisure, wo	orking and living					
4.1	Coastal tourism	337	3,502	n//a	Turnover – 841	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online)
						Reference year: 2010













Maritime economic activity		Gross Value Added Employmen	Employment (FTE)	t (FTE) Number of	Other indicators	Source & Reference year
		(EUR, million)		enterprises	(EUR, million)	
4.2	Yachting and marinas	n/a	n/a	60 (IRELAND'S MARINAS, PONTOONS AND JETTIES )		Irish Coastal Marinas, Pontoons and Jetties, Afloat Magazine (http://afloat.ie/resources/irish- coastal-marinas)
4.3	Cruise tourism	n/a	n/a	n/a	Total expenditure in Ireland 2010: 17,100 Average spend per passenger - €71 (not in millions)	Fáilte Ireland, Cruise Tourism to Ireland Research Report, 2010
5. Coastal prote	ction		1	1		1
5.1 - 5.2	Coastal protection against flooding and erosion	No figures available but description details below	n/a	n/a		
5.3	Protection of habitats	No figures available but description details below	n/a	n/a		













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Breakdown of maritime economic activities in the Atlantic NUTS2 regions of IRELAND.

Maritime economic activ	<i>v</i> ity	Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
0. Other sectors		1		1
0.1	Shipbuilding (excl. leisure boats) and ship repair	Companies involved in marine manufacturing are found throughout Ireland, both along the coast and inland. However, there are clusters of particular marine product manufacturing to be found in certain areas, particularly counties Galway and Cork (boat building).		Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online)
0.2	Water projects	Companies involved in water construction are mainly located in Dublin and Offaly.		Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online)
1. Maritime transport				
1.1 1.2	Sea and coastal passenger water transport; Sea and coastal freight water transport; Services incidental to water transport; Cargo handling	Sea-based transport accounted for 99% of the total volume and 95% of the total value of the goods traded in Ireland in 2010.	Companies operating in the ports and maritime transport services area are largely dependent on the	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online)















Maritime economic activit	ty	Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
1.3 1.4	;Renting and leasing of water transport equipment; Other transportation support activities	The majority of shipping and maritime services activity occurs around the nine commercial ports on the coast of Ireland; Cork, Drogheda, Dublin, Dundalk, Dun Laoghaire, Galway, New Ross, Foynes and Wicklow.	wider performance of the Irish economy to drive growth and investment. The growth in this segment can be linked to future domestic GDP forecasts.	Reference year: 2010
2. Food, nutrition, health	and ecosystem services	•		
2.1 2.2	Fish for human consumption Fish for animal feeding	In 2010, the Irish fishing fleet comprised of 2,119 vessels with a total capacity of 70,800 tonnes and a total engine power of 197,000KW. The number of vessels increased by 24% (or 409 vessels) in the period 2007-2010, while the total engine power of the fleet declined by 6% during the same period. The over 10 meter fishing fleet spent a total of	Nationally, renewed interest in sea fisheries has been stimulated by the publication of the Food Harvest 2020 (FH2020) strategy. FH2020 has set ambitious targets for the expansion of the Irish sea fisheries and aquaculture sectors, with targets being set to increase revenue in these sectors to €1 billion and employment to 14,000	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online) Reference year: 2010 Sea Fisheries Protection Authority (SFPA) Annual Report 2010 Scientific, Technical and Economic Committee for Fisheries (STECF) – The Annual













Maritime economic ad	ctivity	Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
		around 54,300 days at sea. Fishing communities are distributed around the coast of Ireland, centred particularly on the fishing harbours of Killybegs, Co. Donegal, Ros an Mhíl, Co. Galway, An Daingean, Co. Kerry, Castletownbere, Co. Cork, Dunmore East, Co. Waterford and Howth, Co. Dublin.	FTE jobs by 2020. The potential for the sector lies in adding value to the existing catch, which is likely to remain stable. This can be achieved by rebuilding and management of the stocks to enable higher annual fish quotas in line with the CFP objectives and Maximum Sustainable Yield (MSY) obligations.	Economic Report on EU Fishing Fleet 2012; 2013.
2.3	Marine aquaculture	Aquaculture in Ireland is comprised of 850 licensed operations covering 2,000 sites, primarily consisting of shellfish production. The number of active enterprises engaged in marine aquaculture has remained stable with total of 291 enterprises. In recent	Ireland will have to address difficulties in achieving compliance with the Birds and Habitats Directives before the true potential of the aquaculture sector can be realised. The potential to increase	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online) Reference year: 2010 Scientific, Technical and Economic Committee for Fisheries (STECF) – The Economic Performance of the













Maritime economic activity	Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
	years, there has been an increase in salmon and Gigas oyster production, while mussel production has decreased due to both seed supply and market demand reduction. Shellfish aquaculture activities are widely distributed around the coast of Ireland, with particular concentrations in Co. Donegal, Connemara, Co. Galway, West Cork, Co. Waterford, Co. Wexford and Carlingford Lough, Co. Louth. Finfish aquaculture is mainly restricted to the Western seaboard in counties, Donegal, Mayo, Galway, Kerry and Cork.	production has been hampered by a shortage of available licensed sites, however there is significant scope for aquaculture expansion in Ireland, including in deep water sites <sup>1</sup> . Ireland is well placed to increase aquaculture production but it has to overcome difficulties within the state regulatory structure.	EU Aquaculture Sector Bord Iascaigh Mhara (BIM).

<sup>&</sup>lt;sup>1</sup> Government of Ireland, Inter-Departmental Marine Coordination Group (MCG), "Harnessing Our Ocean Wealth - An Integrated Marine Plan (IMP) for Ireland," July 2012, Briefing Document Part II: Sectoral Briefs













Maritime economic act	ivity	Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
2.4	Blue biotechnology	Ireland's emerging marine biotechnology industry is diverse, spanning different industry sectors such as food, pharmaceuticals, medical devices, aquaculture and seaweed and contributes to an array of novel products and processes. Seaweed harvesting takes place around the coast of Ireland, with particular concentrations in Co. Galway, Co. Donegal, Co. Sligo, Co. Kerry, and Co. Cork. Other activities in this sector are not confined to coastal counties and have a wide geographical distribution across the country.	for the international life sciences industry, government funding is an important aspect and attracts foreign companies to locate to Ireland. The marine biotechnology sector is comprised of a growing number of SMEs who are seeking ways to increase capacity and capability for innovation to both increase turnover and	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online) Reference year: 2010
2.5	Agriculture on saline soils	n/a	n/a	
3. Energy and raw mate	rials		l	













Maritime economic	e activity	Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
3.1	Offshore oil and gas	<ul> <li>The Irish offshore oil and gas sector has significant potential. However, there have only been four commercial discoveries in Ireland to date. All four discoveries were gas. Over the last 40 years 129 exploration wells have been drilled with limited success making the probability of a commercial discovery in Ireland low. No commercial oil production in Ireland has been achieved to date.</li> <li>Companies involved in the extraction and production of gas in Ireland are based in Cork and Dublin. However, the companies that provide services to the gas production companies are located across</li> </ul>	Ireland's challenging offshore environment, particularly on the Atlantic Coast, the low success rate of exploratory drilling and high offshore operating costs make the oil and gas industry in Ireland less attractive relative to countries such as Norway and the UK. However, the success in applications and licences offered under the Atlantic Margin Licensing Round and the recent Barryroe oil discovery announced in 2011 provide a positive outlook for the industry. The future of the oil and gas sector will vary depending on the amount of exploration activities that take place over the coming years. The review of Ireland's oil and gas	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online) Reference year: 2010













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Maritime economic activity		Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
		Ireland.	fiscal terms in 2013 will have a significant impact on the levels of investment in the sector. For the immediate future, Ireland is forecast to be a small producer of gas.	
3.2 3.3	Offshore wind Ocean renewable energy	Ireland's location at the western edge of the Atlantic Ocean means that it is ideally located to take advantage of the emerging opportunities to harness power from marine renewable resources. Developing renewable energy is an integral part of Ireland's sustainable energy objectives and climate change strategy. It is estimated that the total accessible wave energy resource equates to 75% of the total electricity demand for	Irish renewable energy policy is framed in the context of European legal obligations specified in various Directives and Regulations, as well as other international and national targets. Ireland's target set by the EU is that 16% of all energy consumption (up from 3.1% in 2005) is to be from renewable energy sources by 2020.	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online) Reference year: 2010













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		Ireland in 2011. A number of wave energy devices have being tested in a site located in Galway Bay. While there are plenty of different wave energy device prototypes in development, a commercial wave energy device does not yet exist.		
3.4	Carbon capture and storage	n/a	n/a	
3.5	Aggregates mining (sand, gravel, etc.)	n/a	n/a	
3.6	Marine minerals mining	n/a	n/a	
3.7	Securing fresh water supply (desalination)	n/a	n/a	
4. Leisure, working a	and living	•		
4.1	Coastal tourism	Marine-based tourism and leisure is a large contributor to the Irish ocean economy and has historically been an important sector for the Irish coastal economy. Demand for	There is significant potential to develop adventure tourism in Ireland, which includes marine activities such as surfing, wind-surfing, kite	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online)













Maritime economic a	activity	Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
		<ul> <li>marine-based tourism and</li> <li>leisure comes from domestic</li> <li>and overseas visitors. Sea-</li> <li>angling companies actively</li> <li>advertise at overseas angling</li> <li>exhibitions generating interest</li> <li>in Ireland. Coastal attractions,</li> <li>such as the Cliffs of Moher, also</li> <li>receive high numbers of</li> <li>international visitors.</li> <li>Adventure tourism, which</li> <li>includes marine activities such</li> <li>as surfing, wind-surfing, kite</li> <li>surfing, sailing and kayaking,</li> <li>has a strong domestic market</li> <li>and is becoming increasingly</li> <li>popular.</li> <li>Marine based tourism and</li> <li>marine activities are offered all</li> <li>along the coast of Ireland.</li> </ul>	surfing, sailing and kayaking. A range of supports have been identified and prioritised to deliver high quality adventure holidays around the country. There is also the potential to host international marine focused events in Ireland. Additionally, The Wild Atlantic Way project aims to develop a long- distance driving route stretching along the Atlantic coast from Donegal to West Cork that will achieve greater visibility for the west coast of Ireland in overseas tourist markets.	Reference year: 2010
4.2	Yachting and marinas	There are 60 Irish coastal marinas, pontoons and jetties, with 800 berths.		Irish Coastal Marinas, Pontoons and Jetties, Afloat Magazine (http://afloat.ie/resources/irish-













Maritime economic activity		Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
				coastal-marinas)
4.3	Cruise tourism	Since the launch of Cruise Ireland in 1994, Ireland has enjoyed significant success attracting cruise ships. The strong growth of the European cruise industry has continued despite the global economic downturn. In 2012, the largest cruise ports in Ireland have recorded very positive cruise traffic levels, with Dublin Port and the Port of Cork.	year for cruise line operators, the industry is performing well and modest growth is predicted in the coming years. While the number of cruise liners calling is	Vega, A., Corless, R. and Hynes, S. (2013). Ireland's Ocean Economy, SEMRU Report Series, ISSN 2009-6933 (Online) Reference year: 2010













Maritime economic activity		Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
			market for maritime transport services in Ireland. One of the main policy developments is the introduction of a categorisation of the ports sector into Ports of National Significance (Tier 1), Ports of National Significance (Tier 2) and Ports of Regional Significance.	
5. Coastal protection 5.1 – 5.2	Coastal protection against flooding and erosion	Under the coastal protection measure of the National Development Plan 2000-2006, €52.01 million was spent on coastal protection. Under the NDP 2007-2013, some €203 million will be invested under the Fisheries and Coastal Infrastructure Sub- Programme to ensure the		Fishery Harbour and Coastal Infrastructure Development Programme













Maritime economic activity	Overview	Socio-economic indicators	Source & Reference year (ex.
			Eurostat 2010)
	future viability of the fishing		
	industry, to bring the Fishery		
	Harbour Centres up to		
	international practice, to		
	reduce congestion at the		
	harbours and to improve safety		
	for the fisheries sector.		
	The Fishery Harbour and		
	Coastal Infrastructure		
	Development programme is		
	administered by the Sea		
	Fisheries Administration		
	Division of the Department of		
	Agriculture, Food and the		
	Marine. The programme funds		
	capital development projects at		
	the six designated Fishery		
	Harbour Centres and also co-		
	funds projects at regional		
	fishery harbours which are the		
	responsibility of Local		
	Authorities.		













Maritime economic activity		Overview	Socio-economic indicators	Source & Reference year (ex. Eurostat 2010)
5.3	Protection of habitats	% of marine protected waters in Ireland for 2012 is 0.4%The conservation of biodiversity in Ireland has been strengthened and expanded by 	Increase in % of marine protected waters, or policy monitoring	% marine protected waters - World Bank 2012 data National Parks and Wildlife website – www.npws.ie













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Maritime economic activity	Overview	Socio-economic indicators	Source & Reference year (ex.
			Eurostat 2010)
	elements of existing work and		
	many are requirements under		
	existing EU Directives. The		
	objectives cover the		
	conservation of biodiversity in		
	the wider countryside and in		
	the marine environment, both		
	within and outside protected		
	areas; the mainstreaming of		
	biodiversity across the decision		
	making process in the State; the		
	strengthening of the knowledge		
	base on biodiversity; increasing		
	public awareness and		
	participation; and Ireland's		
	contribution to international		
	biodiversity issues, including		
	North South co-ordination on		
	issues of common interest.		

## Description of the economic and infrastructural scenario for the most relevant maritime economic activities + list of main players per activity

<u>Maritime Transport</u> - Sea-based transport accounted for 99% of the total volume and 95% of the total value of the goods traded in Ireland in 2010. It is the largest marine sector in the Irish ocean economy in terms of turnover, GVA, and employment. There has been a significant decrease in activity in recent years, in line with the general economy, as companies operating in the ports and maritime transport services area are largely dependent on the wider performance of the Irish economy to drive growth











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and investment. The growth in this segment can be linked to future domestic GDP forecasts. Recent reports by the Irish Maritime Development Organisation shows signs of recovery in the sector, with growth reported so far in the roll on/roll off freight segment in 2014. Recent policy developments at the national and European level have been of relevance for the shipping and maritime transport sector in Ireland. The National Ports Policy (2013) provides a vision for the future of the sector in line with European transport policy objectives. The European Atlantic Action Plan (2013) identifies the importance of improvements in accessibility and connectivity through the promotion of port cooperation as a priority for the development of the blue economy. The ports and maritime transport services sector in Ireland is likely to see modest growth over the next 3-5 years. A proposal to build an international shipping services centre in Dublin could facilitate a growth in employment. The scheme, similar to the International Financial Services Centre, is being promoted by ISSC Dublin, the Irish Maritime Development Office (IMDO) and IDA Ireland. It is expected that such a hub would attract firms involved in ship leasing, shipping finance, operations management and maritime education

<u>Marine Tourism</u> – is the second largest sector in the ocean economy in Ireland. Although it is hard to measure marine tourism, it is a significant contributor to the Irish economy when taking into account the direct and indirect values. As with maritime transport above, there has been a decline in marine tourism activity in recent years, but again this is in line with general tourism, and the wider economy in Ireland. Since the preparation of the two tourism development strategies – the Marine Tourism and Leisure Strategy (2007-2013) by the Marine Institute and the Fáilte Ireland (FI) Tourism Product Development Strategy (2007-2013) - major changes have taken place in the global and Irish economy which has impacted heavily on tourism. To reflect this, a number of policy documents/strategies relating to the survival, renewal and growth of the sector have been published and at a local level, strategies for marine tourism have been developed and implemented.

There is significant potential to develop adventure tourism in Ireland, which includes marine activities such as surfing, wind-surfing, kite surfing, sailing and kayaking. A range of supports have been identified and prioritised to deliver high quality adventure holidays around the country. There is also the potential to host international marine focused events in Ireland, which can positively impact on the Irish ocean economy. For example, an assessment of the economic value of the 2012 Volvo Ocean Race stopover in Galway showed that the event generated an economic impact of €60.5m in the Irish economy. Additionally, FI is involved in projects to rejuvenate Irish tourism such as The Wild Atlantic Way. This project aims to develop a long-distance driving route stretching along the Atlantic coast from Donegal to West Cork that will achieve greater visibility for the west coast of Ireland in overseas tourist markets.









