

measuring the blue economy

ad-hoc Member States' Expert Group 29 September 2015



previous efforts



approach towards an Integrated Maritime Policy Database sea and coastal areas in Europe future sources of growth blue growth Baltic blue growth, Mediterranean, Black Sea, Adriatic Ionian blue growth Atlantic

blue growth North Sea

impact assessment - coastal and maritime tourism

broad understanding of

- relative size of sectors
- challenges of maritime data
- characteristics of Member States' blue economies





• If Eurostat do not collect the data, it is impossible to get them elsewhere

but not absorbed in subsequent studies

- mistakes
- results not reproducibile
- indirect jobs not counted
- unjustified projections



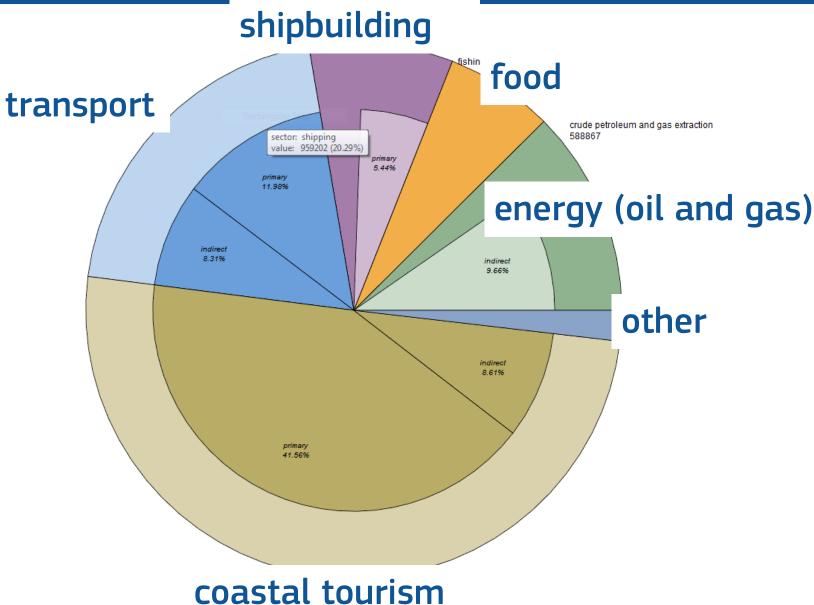


blue economy





EU employment



market activities



- investment, production, and distribution based on supply and demand,
- prices of goods and services are determined in a free price system,
- excludes
 - education
 - research
 - etc



comparison with US









energy

transport

(included under transport)

coastal tourism

other

living resources

ship and boat building

offshore mineral resources

marine transportation

marine construction

tourism and recreation



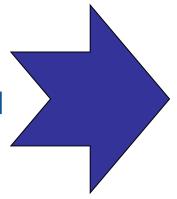




indirect employment

$$J_{i} = \sum_{j=1}^{j=n} \frac{p_{i}\alpha_{i}^{j}}{t^{j}}$$
$$i \in P, j \in S, j \notin P$$

- Eurostat structural business statistics and
- supply and use tables

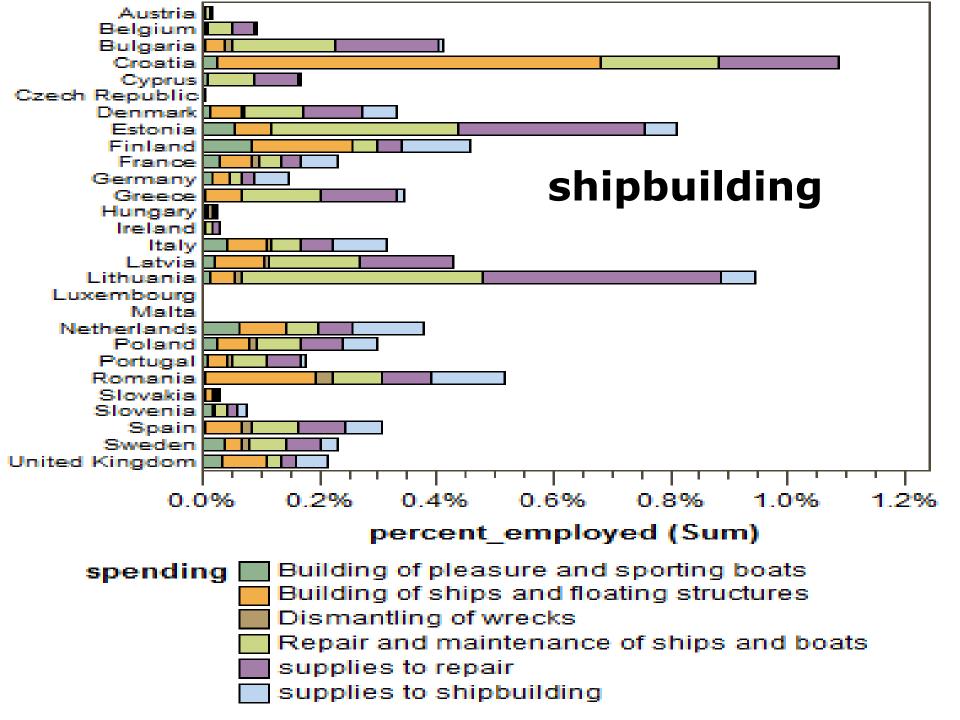


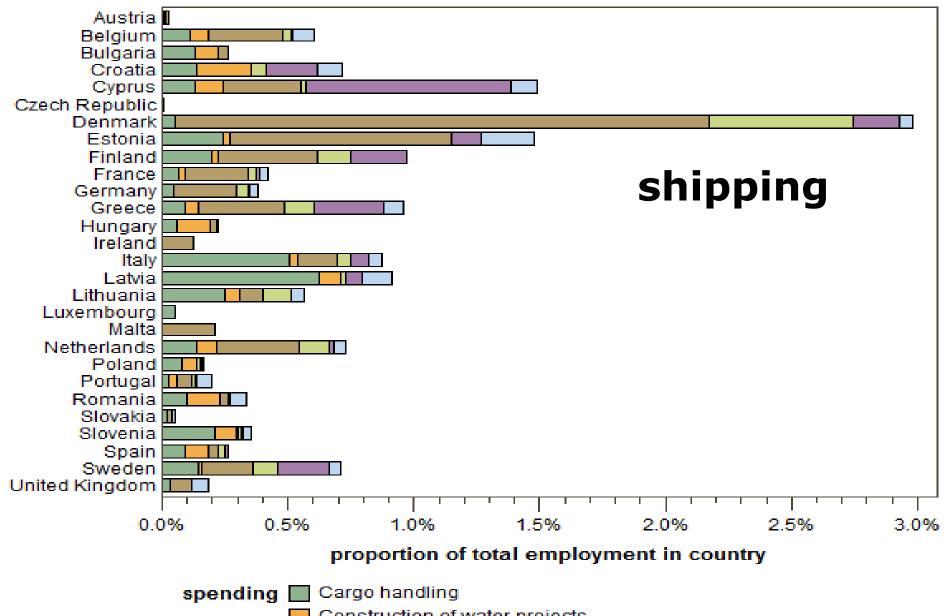
employment in enterprises providing goods and services to primary activities in each Member State

examples

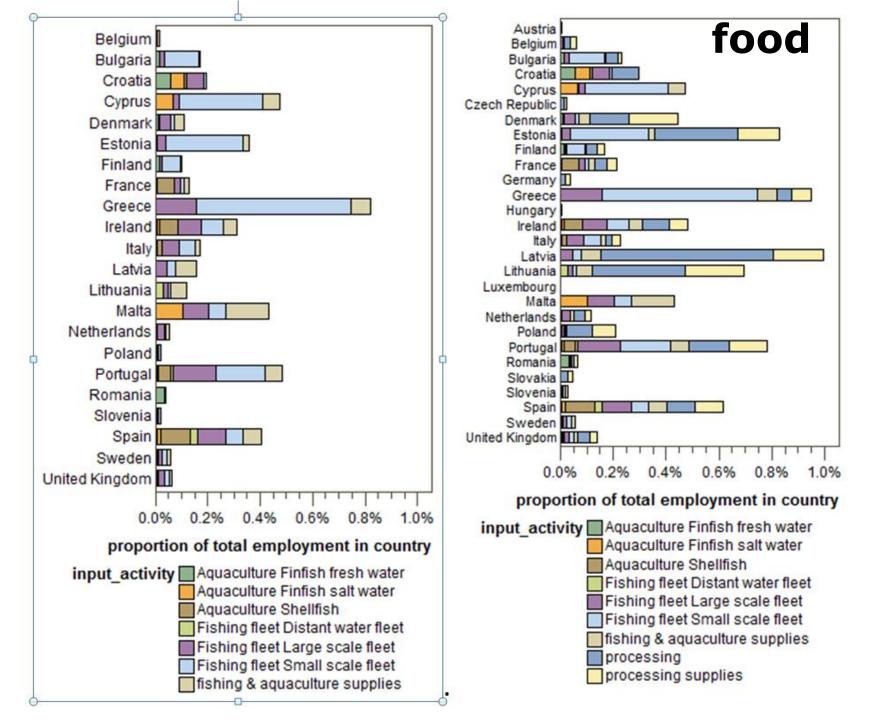


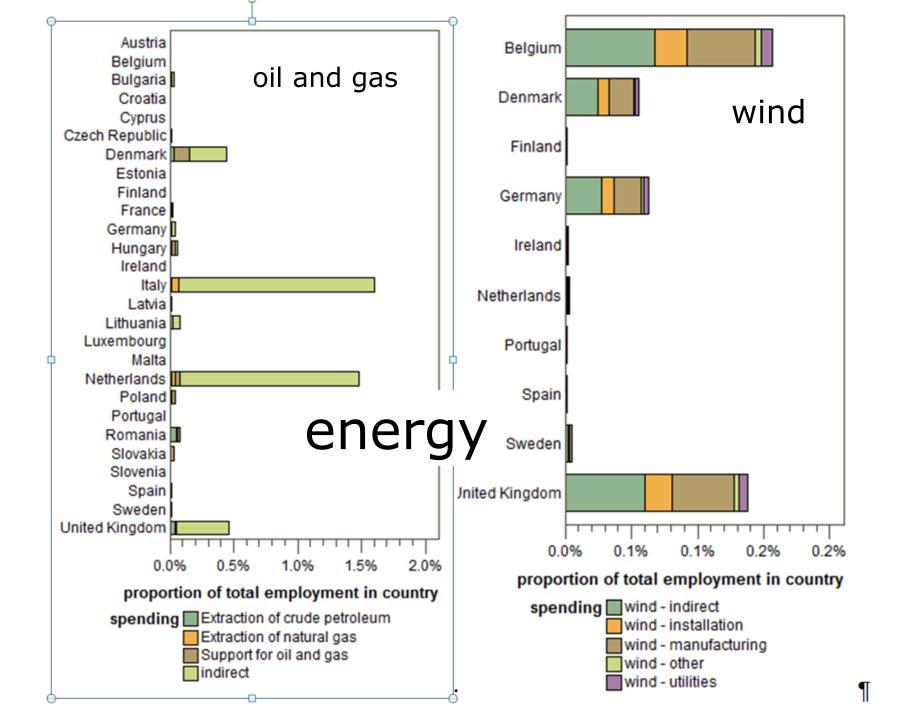
- fisheries and aquaculture
 - warehousing and transportation support 6%
- extraction of petroleum and gas
 - mining support services 28%
 - financial services 8%
- shipbuilding
 - machinery and equipment 13%
 - fabricated metal products 10%
- ship repair
 - repair of machinery 8%
- water transport
 - warehousing and transportation support 31%
 - coke and refined petroleum products 15%

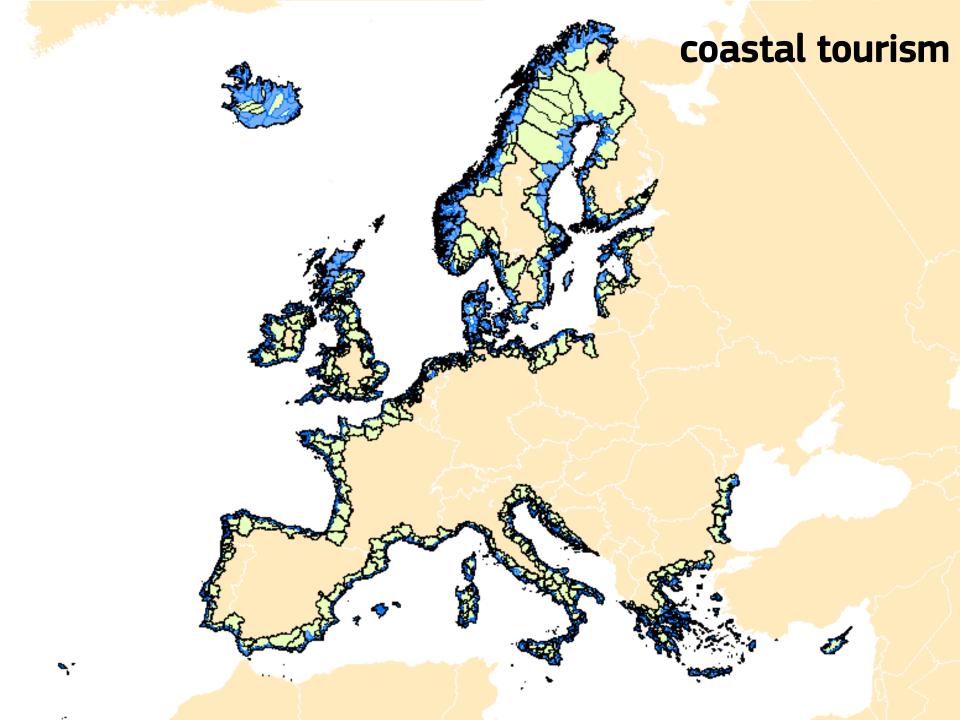


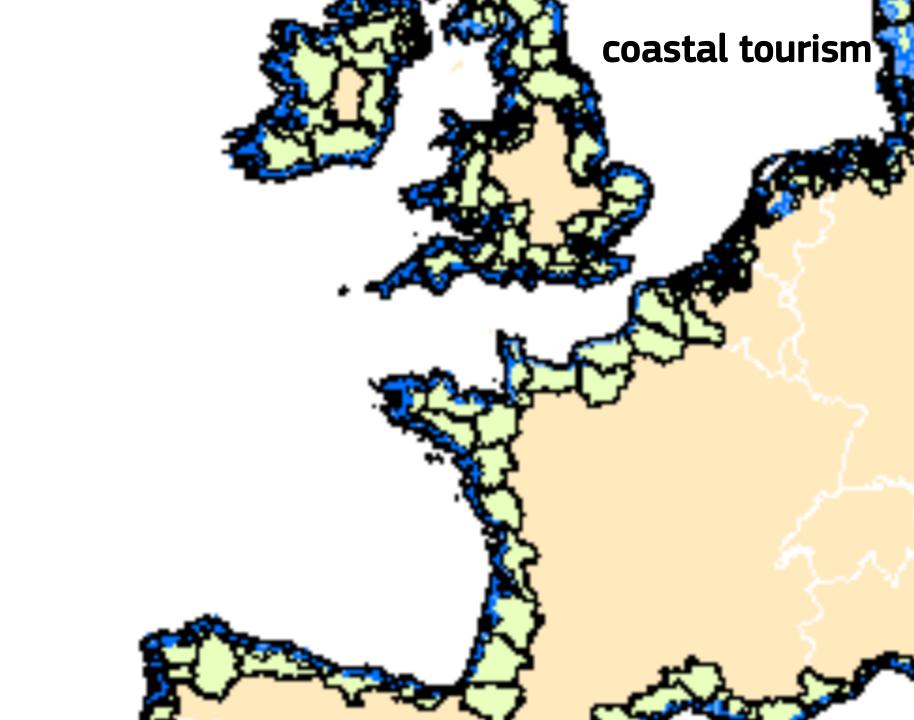


spending Cargo handling
Construction of water projects
Indirect
Sea and coastal freight water transport
Sea and coastal passenger water transport
Service activities incidental to water transportation







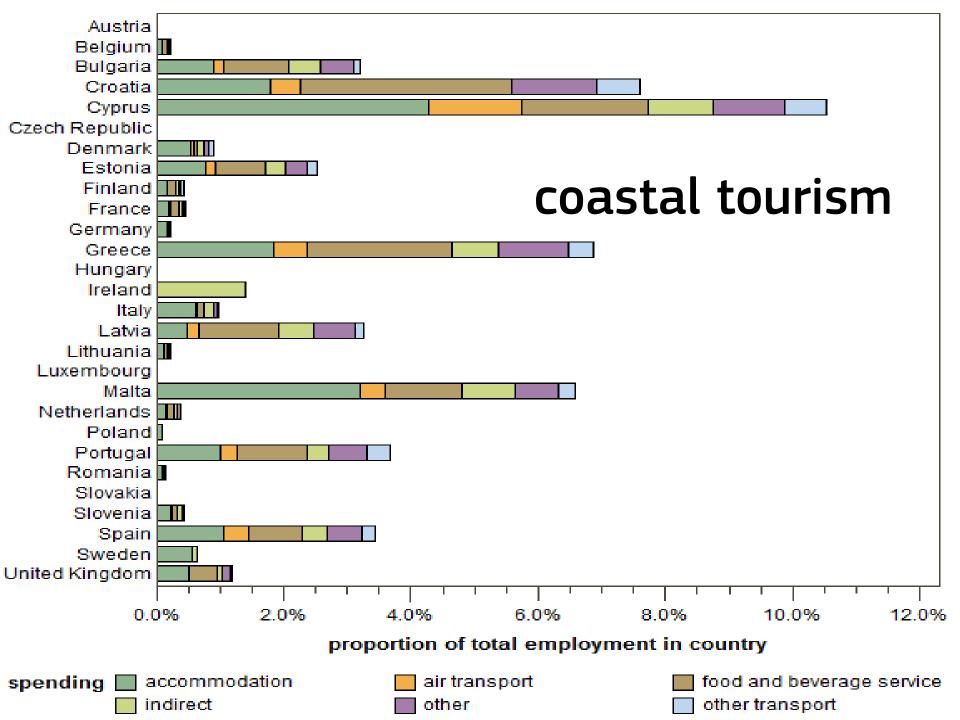


coastal tourism



- accommodation
 - night spent from surveys of tourism destinations.
 - turnover and employment assumes same characteristics as non-coastal
- transport, food and beverage services and "other
 - from surveys of tourist spending
 - turnover to employed ratios.
 - "retail activities" used to estimate employment generated by spending on "other"

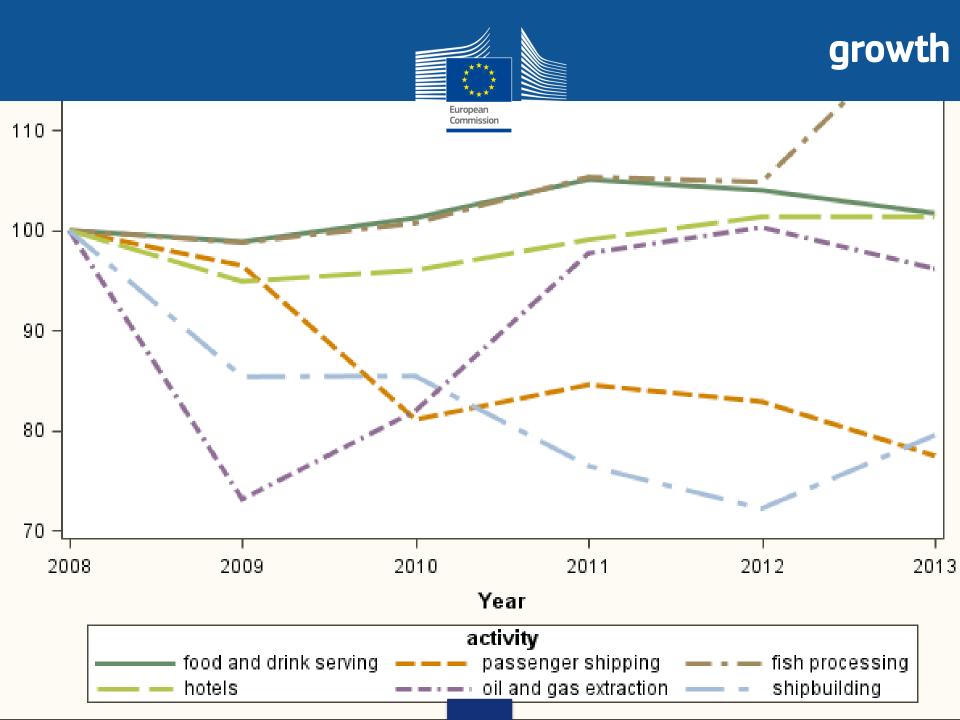






monetary value

activity	indicator	Value (€ billions)
crude petroleum and gas extraction	turnover	160
offshore wind	investment	4
fishing	revenue	7
aquaculture	turnover	2
fish processing	gross value added	7
shipbuilding and repair	turnover	43
shipping	turnover	110
tourism (residents)	turnover	51
tourism (non-residents)	turnover	130
total		≈450



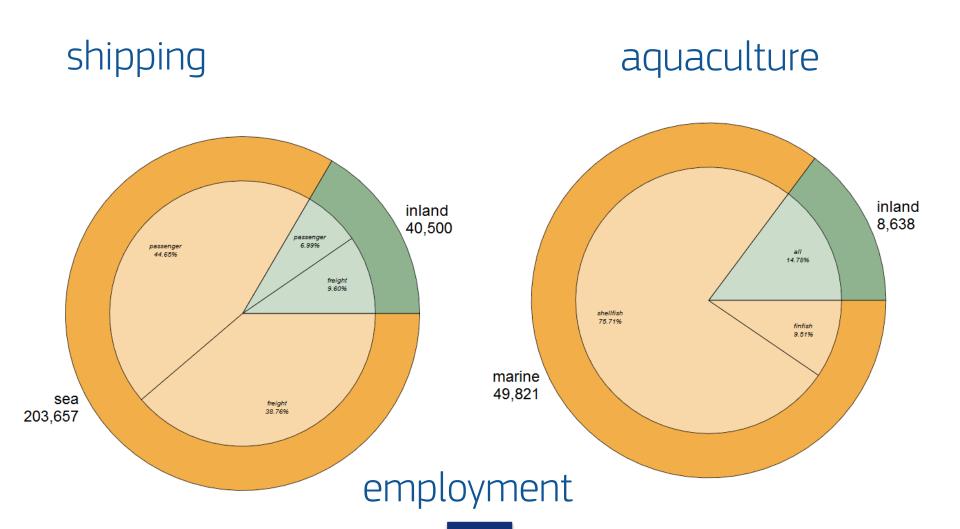


offshore wind

year	Total employment	Onshore jobs	Offshore jobs		
2007	163,744	152,170	11,571		
2008	158,627	143,840	14,783		
2009	194,691	170,990	23,698		
2010	202,278	162,864	39,414		
2011	203,835	162,536	41,298		
2012	254,497	195,616	58,881		
2013	252,807	174,966	77,841	Subsectors	percent
2014	262,061	187,035	75,026	WT manufacturing	37.0%
				Component manufacturing	22.0%
		Wind farm development	16.0%		
		Installation and maintenance	11.0%		
		IPP/utilities	9.0%		
		Consultants	3.0%		
		R&D/universities	1.0%		
	I alke to the A co	W. A.		Finance	0.3%
	FWF A			Others	0.7%
THE EU	ROPEAN WIND ENERGY	ASSOCIATION		Total	100.0%







comments invited



- 1. the definition of the blue economy (section 2.1);
- 2. the main sectors identified (has any important contribution been forgotten?);
- 3. the assumptions made (focus on market economy, neglecting business travel or day trips, etc);
- 4. the estimate of number of people employed (in EU and Member States);
- 5. the conclusions regarding growth rate;
- 6. the most appropriate approach for estimating the contribution to GDP.







- contact points
- availability for further meetings
 - · (in better meeting room)