

Current status of sustainable blue economies in the Gulf of Finland and the Archipelago Sea

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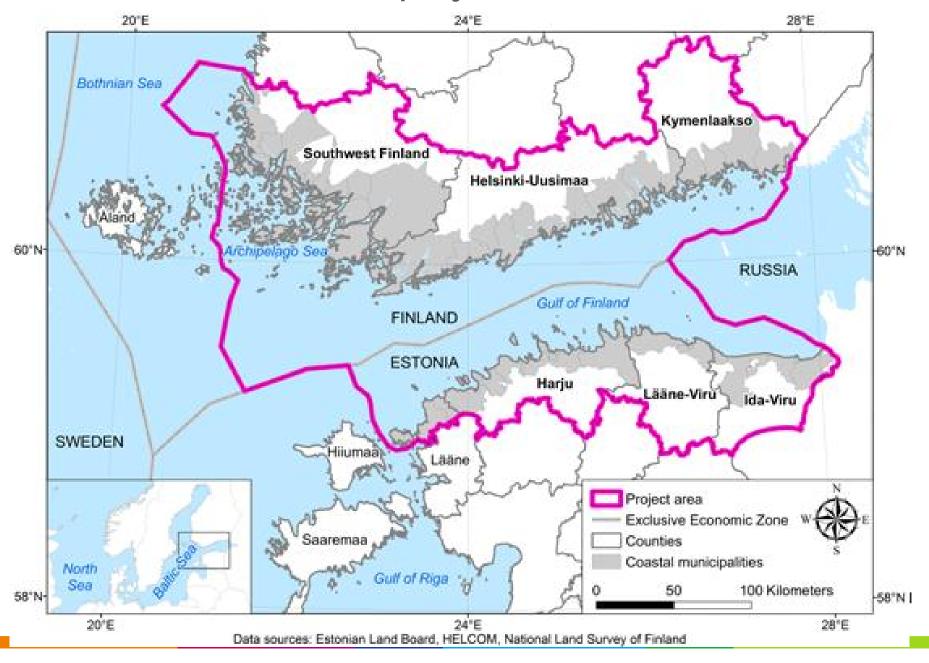
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Plan4Blue project area



The significance of coastal regions

- The share of coastal regions in Finland is almost 60% and in Estonia almost 65%
- In Finland almost 65% and in Estonia 75% of people live on coastal regions
- Higher employment rate in the EE & FIN coastal regions than in the whole country
- The gross value added (GVA) of coastal (NUTS 3) regions in Finland was 67,34% of the national GVA in 2010
- In Finland 60,8 % of the country's total population lived in coastal regions in 2012
- The Gross Domestic Product (GDP) per capita in Finland's coastal regions was 11,3% higher than the national average GDP per capita

Source: Eurostat

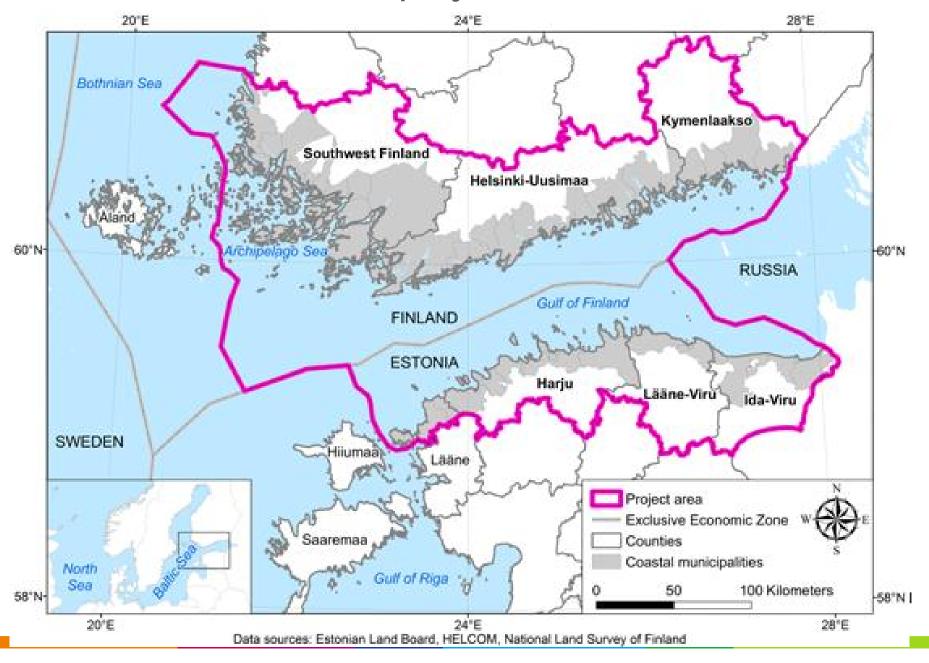


Blue economy in the EU

- The blue economy is calculated to represent 5.4 million jobs and gross value added of around 500 billion euros per year. (Ecorys, 2012, 5.)
- The blue economy development within the EU relies on the notion that the individual sectors of the blue economy are interdependent and, that they rely on common skills and shared infrastructure such as ports and electricity distribution networks (Commission, 2012)



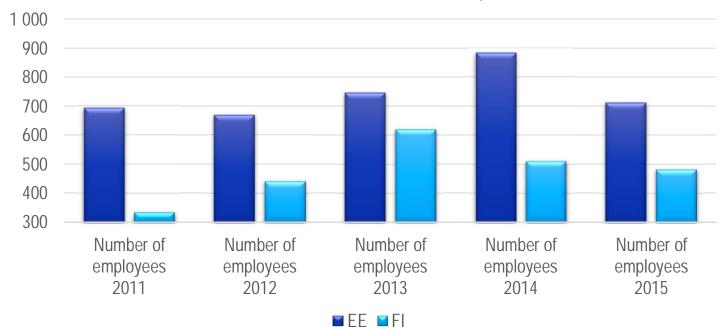
Plan4Blue project area



BIO-SUBSEA 2011-15, N490 companies

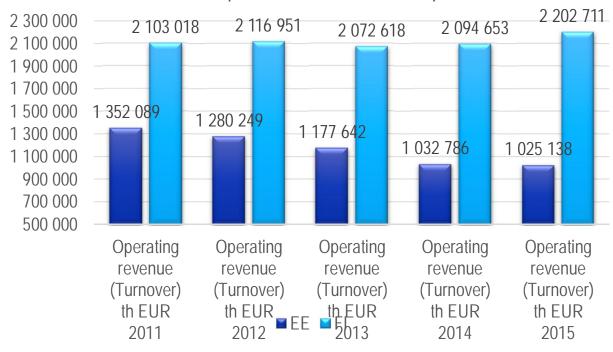


BIO-SUBSEA 2011-15, N490 companies

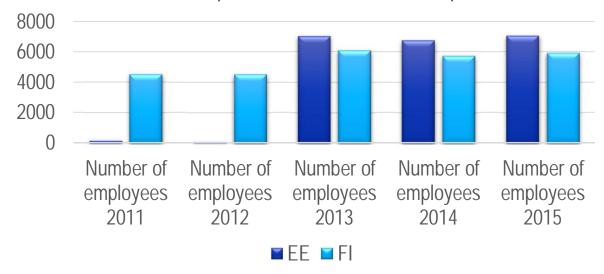




Water transport 2011-15, N370 companies

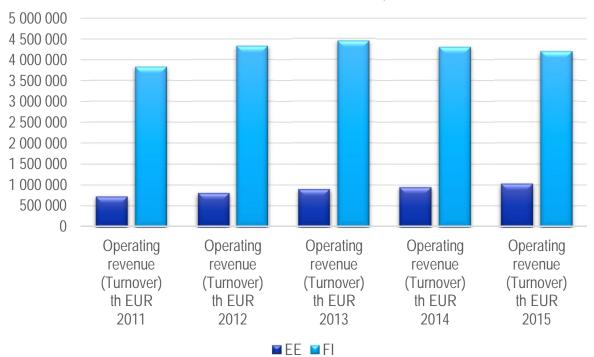


Water transport 2011-15, N370 companies

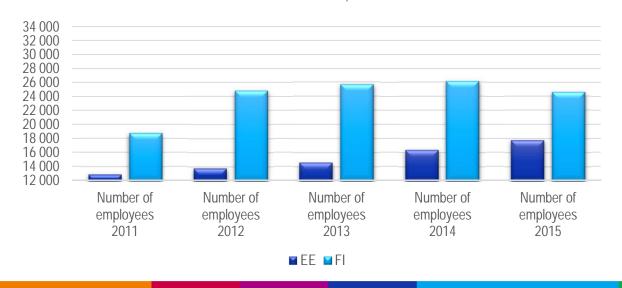




Tourism 2011-15, N9985 companies



Tourism 2011-15, N9985





Coastal tourism

- Almost two out of three European tourists (63%) prefer coastal regions as their favourite holiday destination. (1)
- On the EU level, tourism covers about half the employment of the Blue Economy as a whole (2)
- Maritime and coastal tourism is of huge importance to a large number of local economies (3)
- In 2015 Finland Proper region's total travel turnover was estimated 1,5 billion € (direct 948,3 m€ + indirect 558,4 m€) (4)

- (1) Facts and figures on the European on holiday: 1997-98', Eurobarometer 48, Brussels, 1998.
- (2) COM(2012)494 final.
- (3) Study in support of policy measures for maritime and coastal tourism at EU level, Final Report Client: DG Maritime Affairs & Fisheries Rotterdam/Brussels, 15 September 2013
- (4) Karppinen, Ari & Vähäsantanen, Saku (2016). ALMAnum-laskentamallin sovellutus Varsinais-Suomen, Turun seutukunnan ja Vakka-Suo**hurun**a**ykiopisto** 2011-2015. University of Turku

Coastal tourism

Number of establishments, bedrooms and bed-places by coastal and non-coastal area - 2015

Finland

Total Coastal Non coastal

1,392 420 972

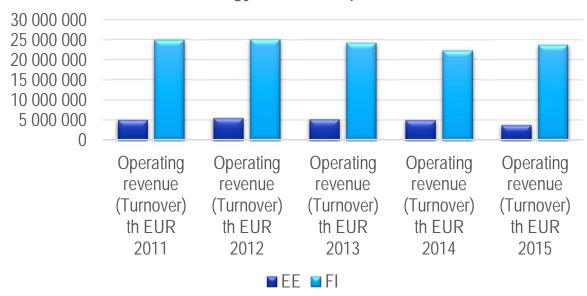
Estonia

1,417 769 648

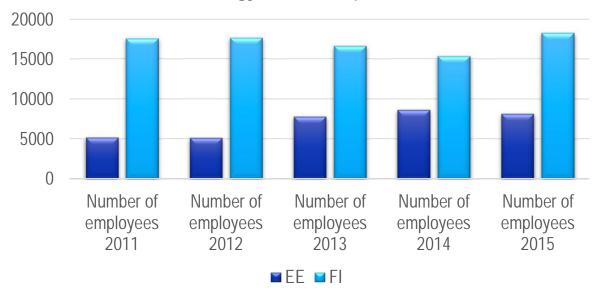
Source: http://ec.europa.eu/eurostat/product?code=tour_cap_natc&language=en&mode=view



Energy, N738 companies



Energy, N738 companies

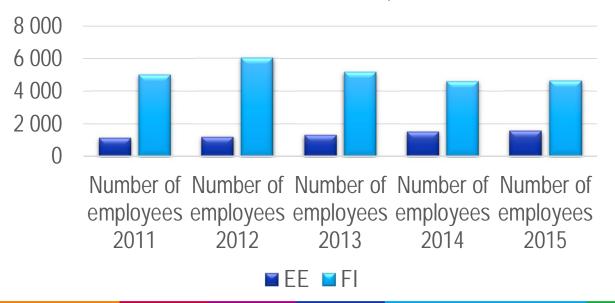




Marine construction, N796



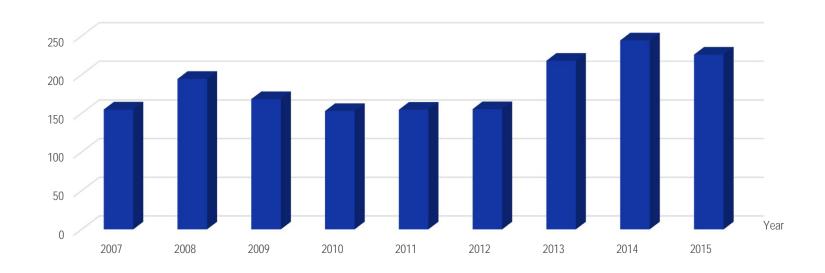
Marine construction, N796





Examples

Productivity of marine fishing and marine fish farming in Finland. Turnover / person 1000 Eur



Source: Tilastokeskus



Patents

Out of around 12 000 maritime patents registered in Estonia and Finland between years 1900 - 2016, 3500 patents are registered after year 2000.

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B63B0035320000; in swimming or splash baths or pools E04H0004160000), Closet or like flushing BASIONIO 1240000 anchoing ain-rid BAFT (0001 1200000 married architeryolated interesting and the second anchoing ain-rid BAFT (0001 1200000 married architeryolated interesting and the second and anchoing ain-rid BAFT (0001 1200000 married architeryolated interesting and anchoing ain-rid BAFT (0001 1200000 more interesting anchoing ain-rid BAFT (0001 1200000 more interesting anchoing ain-rid BAFT (0001 1200000 more interesting anchoing ain-rid BAFT (0001 120000 more interesting anchoing ain-rid BAFT (0001 1200000 more interesting anchoing ain-rid BAFT (0001 120000 more interesting ain-rid BAFT) anchoing ain-rid BAFT (0001 120000 more interesting ain-rid BAFT (0001 120000 more sipping printing and an anagement of all and applications of the product of a relative printing and an anagement of all and applications of a relative printing and a relative F 2000 17000005 Statemen having of grounder resuse (F12000 170000005). An advantage of grounder resuse (F12000 170000005). An advantage of grounder support result of grounder support result of grounder support results of groun indicating the different personal control of the Cort consider or enhanced management days beased analysis of graphing-passability modern analysis of the concentration of the control of the contr suppression of the control of the co special purposes, for transfer at sea between ships or between ships and off-shore structures, for transporting marine vessels, for vehicles, e.g. to determine permissible loading of ships, from ships, e.g. for mines, for depth charges, Fuzes actuated by exposure to a liquid, e.g. sea-water (F42C0005000000 takes precedence; time fuzes F42C0009000000), Guiding means for lowering by cables, e.g. for listing ships, Hauling using anchors; Anchors therefor (marine anchors

International Patent Classification (IPC): Adaptation for use in or on ships, submarines, buoys, or torpedoes (for subaqueous use H01Q0001040000; retractable loop aerials H01Q0007020000), Adaptations of wind motors for special use; Combinations of wind motors with apparatus driven thereby (arrangements in connection with vehicle propulsion units with power supply from wind B60K0016000000; propulsion of ships or other waterborne vessels by wind motors driving waterengaging propulsive elements B63H0013000000; pumps characterised by combination with wind motors F04B0017020000), Apparatus or devices for transferring liquids when loading or unloading ships (ship-based equipment B63B0027000000). Apparatus or methods specially adapted for use on

marine vessels, for handling power plant or unit liquids, e.g. lubricants, coolants, fuels or the like, Apparatus or processes for magnetising or demagnetising (for degaussing ships B63G0009060000; for

clocks or watches G04D0009000000; demagnetising arrangements for colour television H04N0009290000), Aquatic toy installations; Harbour arrangements, Armoured or armed vehicles (general vehicle aspects B60; armoured or armed ships B63G; armoured or armed aircraft B64D mounting guns, e.g. machine-guns, on vehicles F41A0023000000), Arrangement of mines in fields or

barriers (net barriers for harbour defence F41H0011050000), Arrangement of ship-based loading or unloading equipment for cargo or passengers (self-discharging barges or lighters B63B0035300000)

shore-based equipment B65G0067600000; elevators, escalators or moving walkways per seB66B; floating cranes B66C0023520000; loading or unloading devices per se, see the relevant subclasses, e.g.

B65G, B66C, B67D), ARRANGEMENT OF SIGNALLING OR LIGHTING DEVICES, THE MOUNTING OR

SUPPORTING THEREOF OR CIRCUITS THEREFOR, FOR VEHICLES IN GENERAL (arrangement of

signalling or lighting devices, the mounting or supporting thereof, for rail vehicles B61D, for cycles B62J, for ships B63B, for aircraft B64D; lighting in general, lighting devices per seF21, H05B; signalling

in general G08; electric switches per seH01H), Balustrades; Handrails (quard-rails on ships B63B; for

Barrages or weirs; Layout, construction, methods of, or devices for, making same (for protecting banks, coasts, or harbours E02B0003040000; sealings or joints E02B0003160000; handling building or

like materials for hydraulic engineering E02D0015000000; foundations in general E02D0027000000)

Bridges or similar structures, based on land or on a fixed structure and designed to give access to ships

or other floating structures, by dilution in water, e.g. in ocean, in stream, by reference marks, e.g. for

ships' compasses, by ships or other floating means, by storage in the ground; by storage under water,

e.g. in ocean, Cast or life lines; Attachments thereto; Containers therefor (adaptations of aerial cableways to shipboard use B63B0027180000; guns for line-throwing F41F; line-carrying missiles F42B0012680000), characterised by signalling means, e.g. lights (arrangement or adaptation of signalling or lighting devices for ships or other waterborne vessels B63B0045000000). Cleaning or keeping clear the surface of open water; Apparatus therefor (construction of ships or other waterbornes to

 ${\it vessels B63B, e.g. vessels specially adapted for collecting pollution from open water} \\ {\it university of Turku}$



Thank you!

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