



A regional development perspective to impact

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Week, Bergen, 8th May 2018

Hordaland County Council



Policy areas:

- Economic development and regional planning
- Upper secondary education including VET
- Culture and sports
- Transport and communications
- Dental health

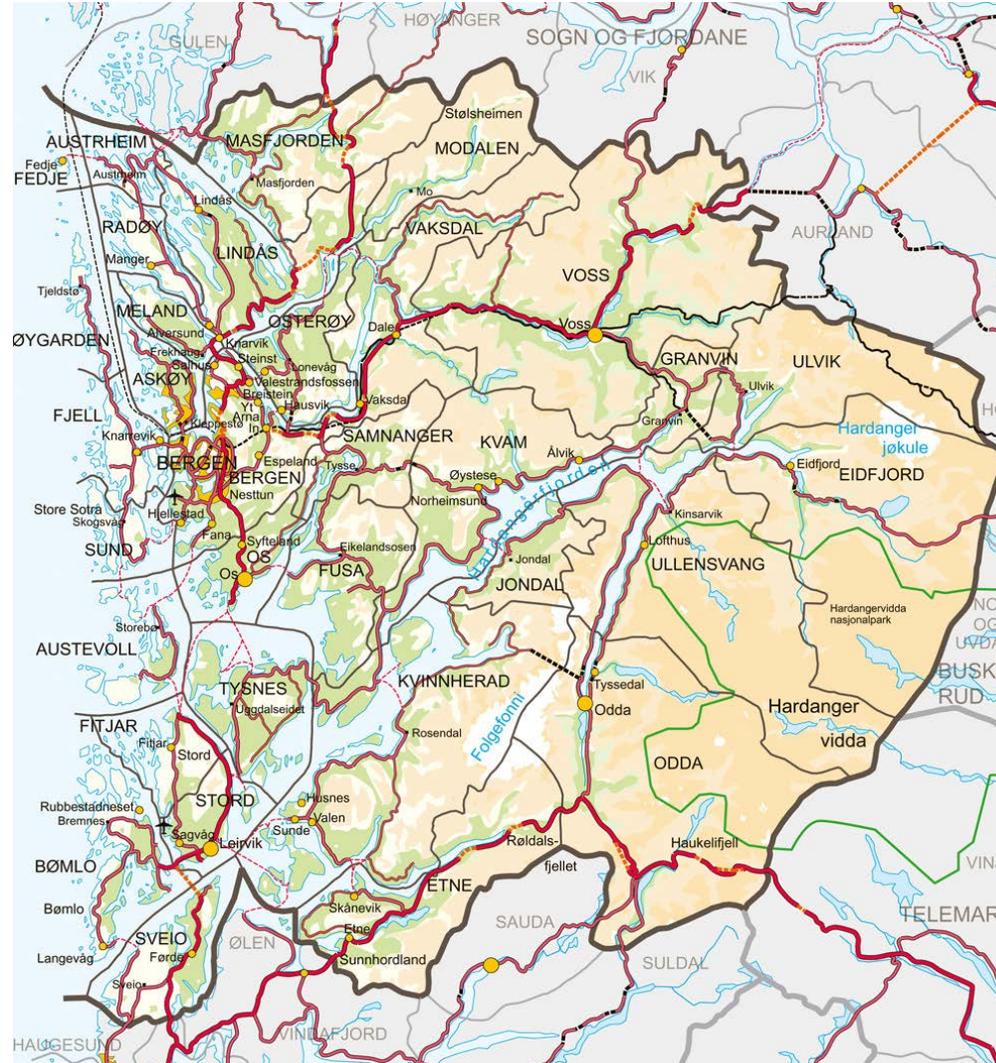
Hordaland

33 municipalities
520 000 inhabitants

Municipality of Bergen 280 000 -
second largest city in Norway



Municipality of Modalen 383 -
Second smallest in Norway



Fisheries



Tourism



Hydro-
power

Fruit



Shipping



Fish
farming

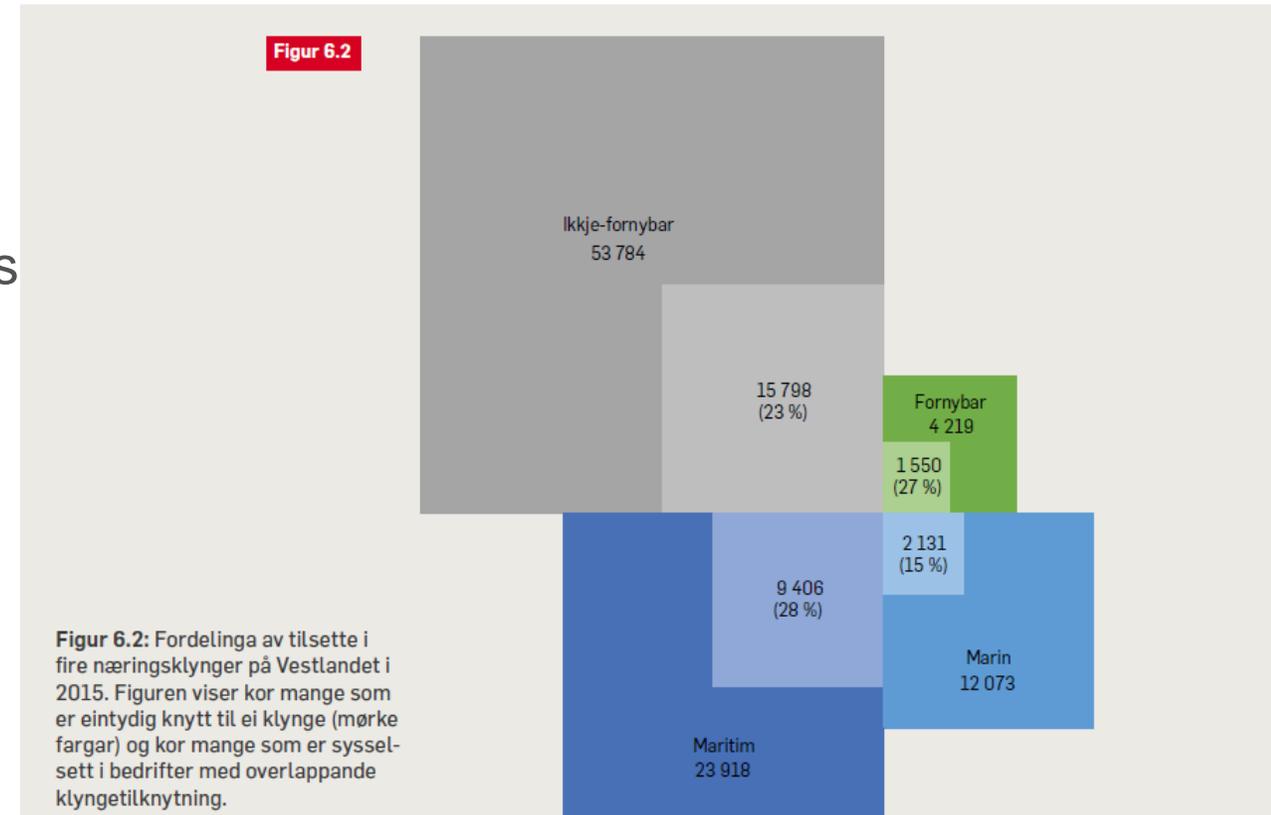


Oil and gas



Four main clusters in Western Norway

Fig 6.2 shows number of employees in the 4 main clusters of Western Norway in 2015. Dark colours show number of employees working exclusively in that cluster/field while light colours show how many are employed in companies with overlapping cluster activities





The 'Knowledge City' Bergen

Statoil

CMR

New University
College campus

Haukeland
University Hospital

New R&D park at
Marineholmen

University of
Bergen

Institute of Marine
Research

Norwegian School
of Economics



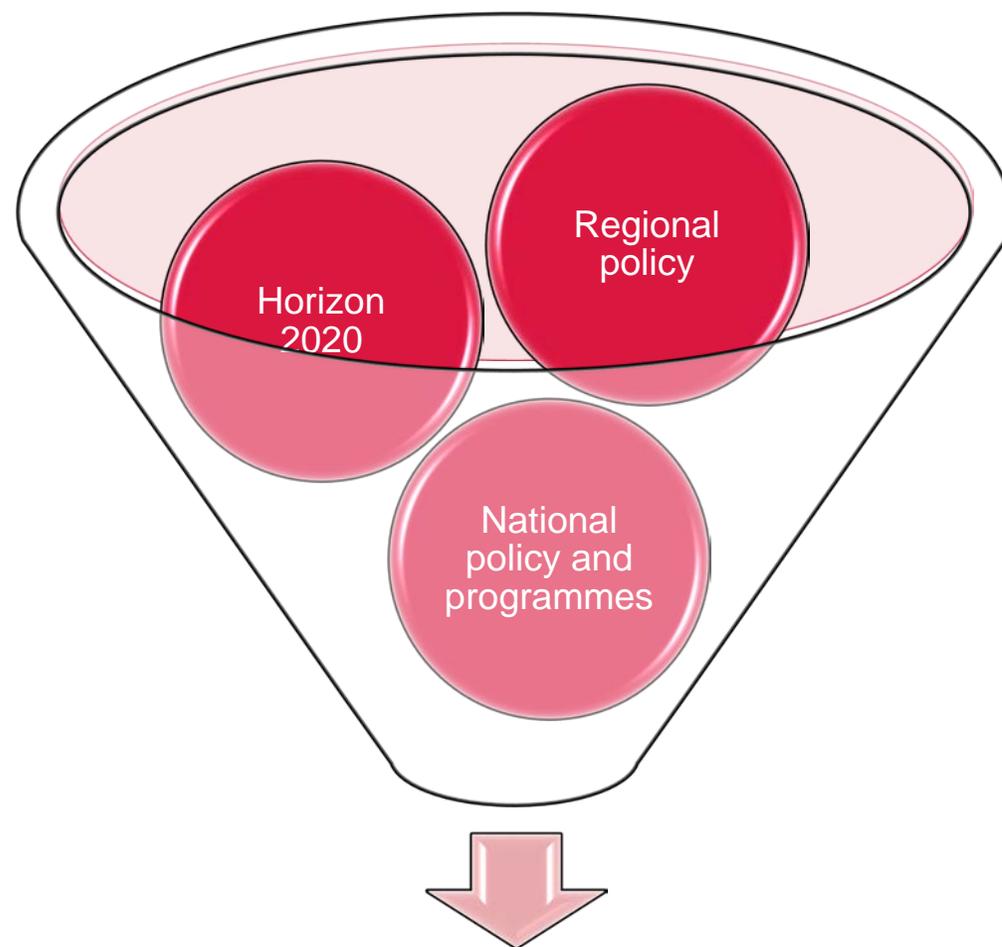
Hordaland regional challenges – some examples

- **Industry**
 - > Heavily dependent on oil and gas including supply chains and services
- **Climate**
 - > Flooding, landslides, avalanches
- **Air quality in Bergen**
 - > Due to topography – at times one of the worst cities in Europe (weather dependent)
- **Tourism and cruise industry**
 - > Sustainable nature based tourism, balance between economics and natural heritage
- **Demographics**
 - > Ageing population and brain drain from smaller rural communities, low birth rate, integration
- **Mobility and emissions**
 - > Congestion and new business models for mobility, public transport and share economy
- **Energy**
 - > Need for more clean energy for industry and for consumers, grid / export
- **Seafood Industry**
 - > Feed, disease, escapes
- **Health care**



Linking project results, policy and strategies – regional, national and European

- Why
 - > Channel tools for better results
 - > Streamlined for higher impact
 - > Embedded in specific regional, national or EU challenges
 - > Critical mass
 - > Upscaling
- How
 - > Synergies between programmes and policies
 - > Eg climate change policies – clear goals for 2030 and 2050 to be reached through H2020, Interreg, transport, CEF etc etc
 - > Cross sectoral approach
 - > Build on regional knowledge
 - > Build regional partnerships – capacity building, triple/quadruple helix
 - > Skills and education
- Examples
 - > Smart specialisation
 - > National cluster policy
 - > National, European and regional emission goals and climate goals
 - > NOx fund - clean shipping → clean shipping cluster - spin offs ([Urban Water Shuttle](#)) and [short video](#)



Societal challenges



Horizon 2020 – record high returns for Norwegian participation

«The goals for Horizon 2020 align with the government's priorities for research. Good levels of participation in H2020 helps contribute to our own ambitions within strengthened competition, better research quality and the need to meet societal challenges»

Norwegian Minister for Research and Higher Education, Iselin Nybø

Press release 3rd May 2018



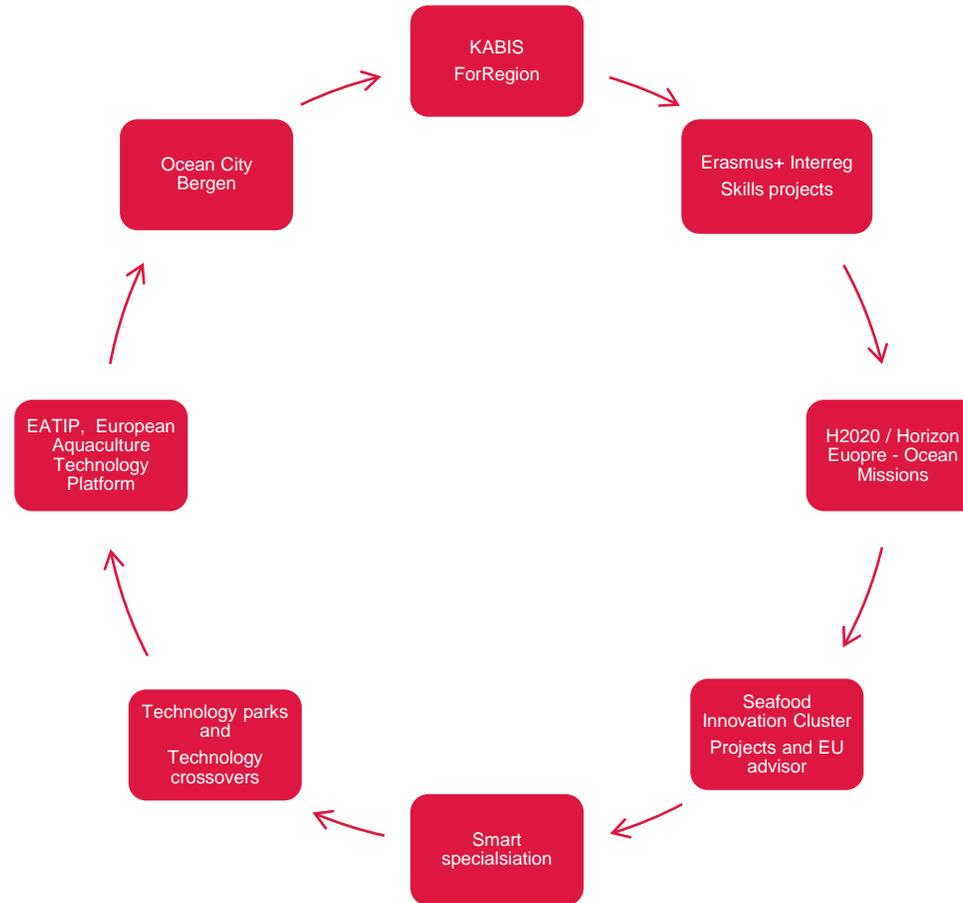


Regional development - mechanisms at the regional level

- **Regional Research Fund**
 - ❖ 3 regions in Western Norway: Hordaland, Rogaland and Sogn and Fjordane total NOK 59 million in 2016
 - ❖ Prioritised themes within innovation and research for pilots and larger research projects
- **Research based innovation in the regions (FORREGION)**
 - ❖ National Research Council's main support mechanism for research and innovation in Norway's regions.
 - ❖ The programme offers professional and financial support to long-term, research-based development processes in the regions
 - ❖ NOK 123 million in 2017/8
- **Direct funds for community and business development initiatives**
 - ❖ NOK 40 million in 2016
 - ❖ Innovation Norway NOK 15 million in 2016 – business development measures
- **Climate policy and annual work plan**
 - ❖ Climate strategy for Hordaland 2014-2030 – NOK 10,5 million in 2017
- **National cluster policy**
 - ❖ National platform for innovation - 3 global, 15 national and 24 Arena clusters
 - ❖ In Hordaland 1 Global Centre of Expertise - Subsea; 3 National Centres of Expertise - Maritime Clean tech; Seafood Innovation; Tourism and Media
 - ❖ EU advisor for the clusters – 2 year project NOK 5 million, mobilising for H2020
- **Other measures**
 - ❖ Horisont Vest – Nok 1,5 mill / 3 years – mobilising for H2020
 - ❖ Project based - for example Hordaland is lead on a national project about work related skills and education
 - ❖ NOK 5 million administered by Hordaland's Business Development section for training and other business measures to allow for restructuring the oil sector in 2016
 - ❖ Municipalities can apply for funds for projects within public health
 - ❖ Recruitment, skills building and equal opportunities in farming
 - ❖ 35% of project costs for infrastructure for fibre optic cables
 - ❖ National funding for environmentally friendly technologies E-PILOT NOK 100 mill
 - ❖ ...

EURO 1 = NOK 9,3

Seafood Innovation – example of regional capacity building





European tools

- EU funding opportunities - programmes /projects
 - ❖ Horizon2020
 - *Regional EU networks for mobilisation to Horizon2020 - Horizont Vest NOK 1,5 million over 3 years*
 - *Regional participation level in Hordaland pr. Oct 2016 € 41,9 million, 20 coordinators*
 - ❖ Interreg
 - *A programmes – integrated into regional development funds - € 70 mill*
 - *B programmes - € 21 mill*
 - *Europe programme - € 3 mill*
 - ❖ Erasmus+ - application 2017 - over 500 mobility projects (staff, apprentices, vocational students and teachers, business-school networks), 2016 – € 302 987
- EEA grants – 2014-2021 € 2,8 billion
- Role of the new regions in European policy and networks – financial mechanisms, project development, policy development etc.



Climate and energy targets 2030 & 2050

EU 2030

- 40% cut in greenhouse gas emissions compared to 1990 levels
- At least 27% share of renewable energy consumption
- At least 27% energy savings compared with the business as usual scenario

2050

- 80%-95% cut in greenhouse gas emissions compared to 1990 levels

Hordaland 2030

- 40% cut in greenhouse gas emissions compared to 1991
- 30% reduction in energy compared with 2007
- Collective transport using renewable fuels by 2025, as far as possible

Bergen 2030

- Transport free from fossil fuels by 2030
 - > transport, harbour, heating, refuse

2050

- «1,5 degrees city» where carbon footprint per inhabitant is max 2 tonnes.



Some concepts to consider

- **Outputs**
 - > What the project produces along the way
 - > A study, experiment, demonstration, proof of concept etc.
- **Results**
 - > Need to be measured and evaluated, baselines and indicators established
- **Dissemination**
 - > Spread results, tell others and increase the value, share knowlege, increase knowlege base and demonstration
- **Impact**
 - > **what change has taken place, what are the effects – how can we benefit, how can we replicate?**
 - > **«demonstrable contribution»**
 - > **Create jobs**



Definition of Impact!

Higher Education Funding Council for England defines impact as:

“an effect on, change or benefit to the economy, society, culture, public policy or services, health, the environment or quality of life, beyond academia”.

Australian Engagement and Impact Assessment defines impact as:

“the contribution that research makes to the economy, society, environment or culture, beyond the contribution to academic research.”

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