

# One of Europe's largest independent research organisations





### Applied research, technology and innovation

#### Expertise from ocean space to outer space:



Renewable energy



Ocean space



Industry



Buildings and infrastructure



Materials



Micro-, nano- and biotechnology



Climate and environment



Oil and gas



Health and welfare



Society



Digitalization



**Transport** 





### A world-leading research institute

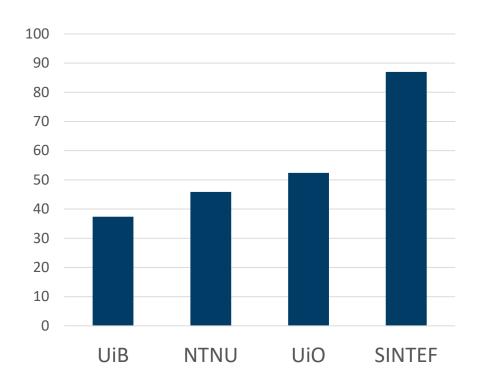
Our main goal: A world-leading research institute.

We develop solutions to some of society's grand challenges by being at the forefront of our strategic focus areas.



### Major participant in EU research programs

#### Mill. Euro



- Participate in 133 projects, with a project volume of € 1371 mill.
- Coordinate 37 projects with a project volume of € 201 mill.
- SINTEF research funding from EU: € 87 mill.

Participation in Horizon 2020, as of October 2017. Source: RCN, EU's contract data base.



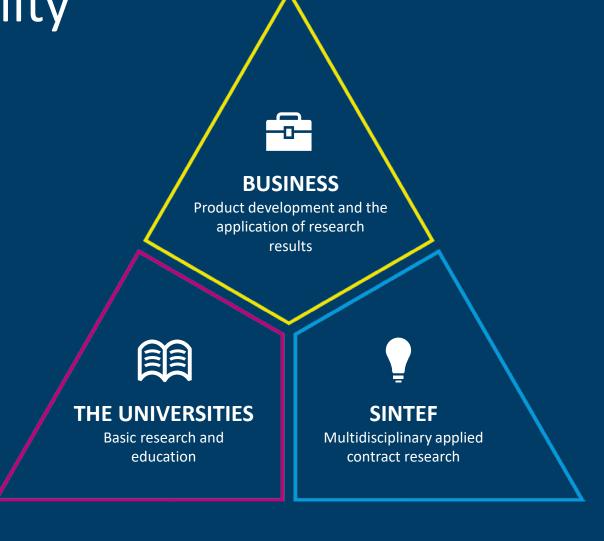


# Partnership with NTNU

- Strategic and operational cooperation since 1950
- Joint use of laboratories and equipment
- Cooperation covers research projects, research centers and teaching

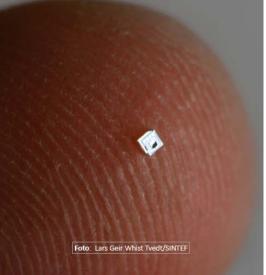


Close working relationships generate innovation and high quality









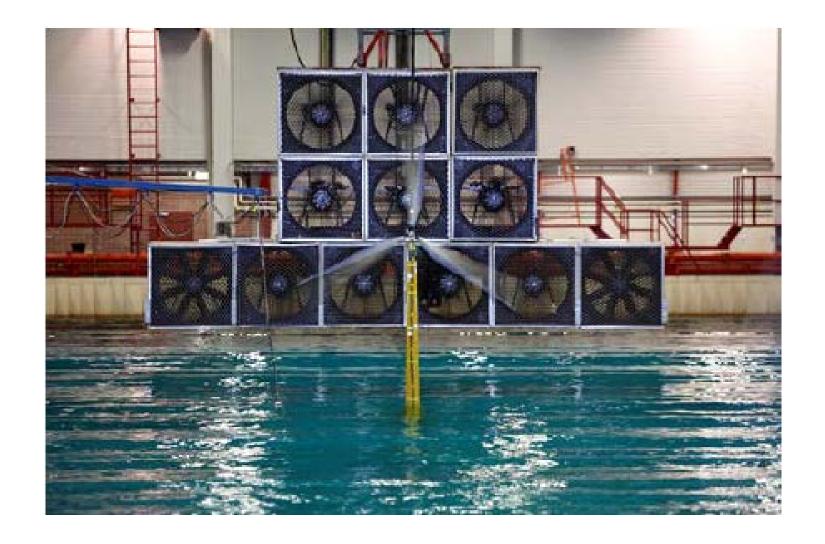
## Laboratories and test facilities

- World-leading within a range of technology areas
- From nano and micro electronics to high voltage and ocean laboratories





### Hywind model test (2005)



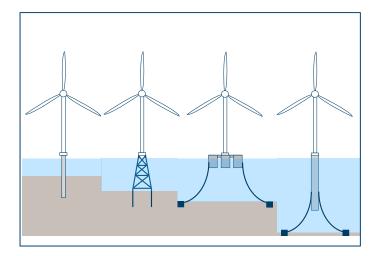


### Bold visions – in 2006

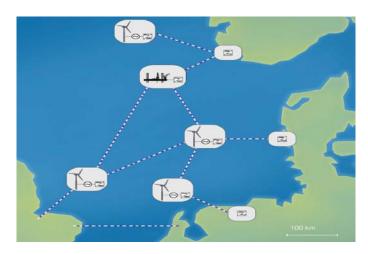




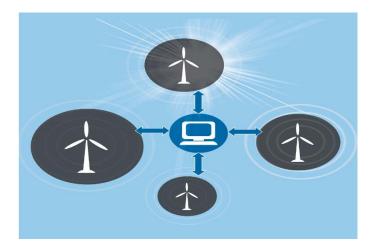
### Offshore wind research priorities



- Support structures
- Marine operations
- Materials



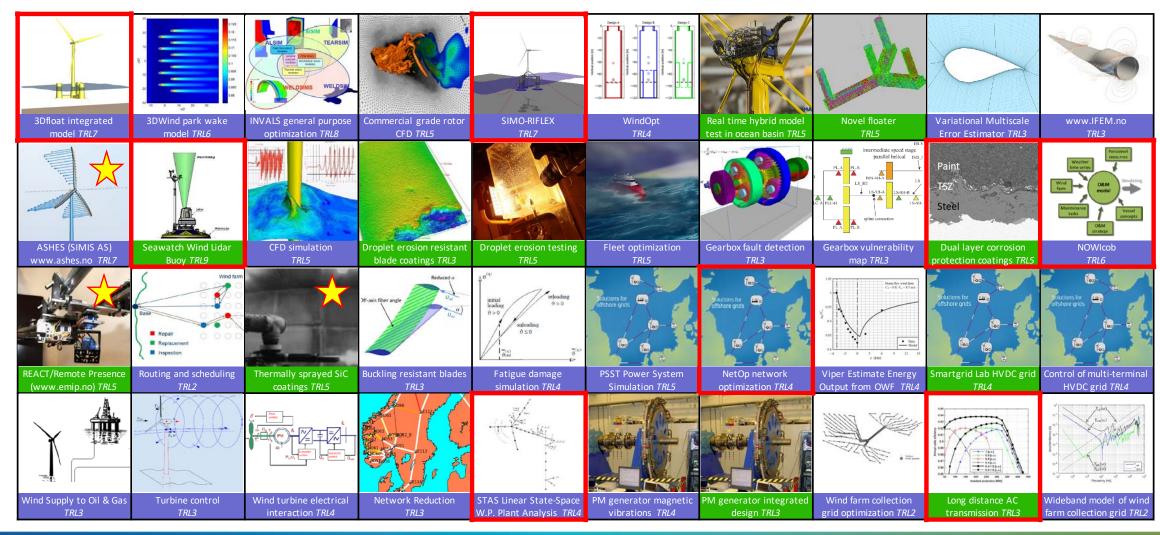
- Grid connection
- System integration
- Energy storage



- Asset management
- Wind farm control
- Digitalization



### NOWITECH has 40 innovations in progress













### Potential value of innovations

NPV: > 5000 MEUR\*

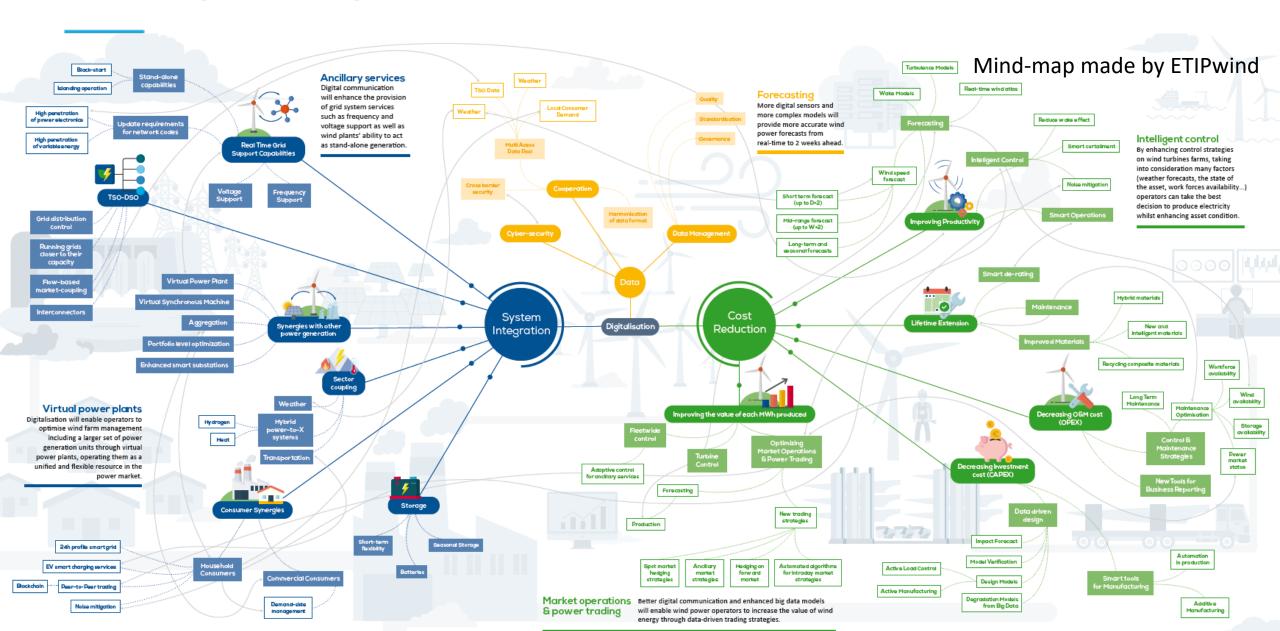
IMPELLO

\* Result from analysis carried out by Impello Management AS for a subset of innovations by NOWITECH. NPV is calculated as socio-economic value of applying the innovations to a share of new offshore wind farms expected in Europe until 2030.





### Wind goes digital





Technology for a better society