



EUROPEAN TECHNOLOGY & INNOVATION
PLATFORM ON WIND ENERGY

ETIPWind a common forum with common goals and a common message

EERA DeepWind 2017, Trondheim

Agenda

Structure

The
importance of
collaboration

Progress
to date

Current
ETIPWind
aspirations

What are ETIPs?

European Technology and Innovation Platforms are industry-led stakeholder fora recognised by the European Commission

Goals

- Drive innovation, knowledge transfer and European competitiveness
- Develop research and innovation agendas and roadmaps for action at EU and national levels

What are ETIPs?

• Advanced Fossil Fuel Power Generation



• Bioenergy



• Biofuels



• Carbon Capture Utilisation and Storage



• Cogeneration of Heat and Power



• Concentrated Solar Power



• Electricity Storage in the Power Sector



• Energy Efficiency in the Cement Industry



• Energy Efficiency in the Iron and Steel Industry



• Energy Efficiency in the Pulp and Paper Industry



• Fuel Cells and Hydrogen



• Geothermal Power



• Heating and Cooling Technologies



• Hydropower



• Nuclear Fission Power



• Nuclear Fusion Power



• Ocean Energy



• Road Transport Efficiency



• Smart Electricity Grids



• Solar Photovoltaic

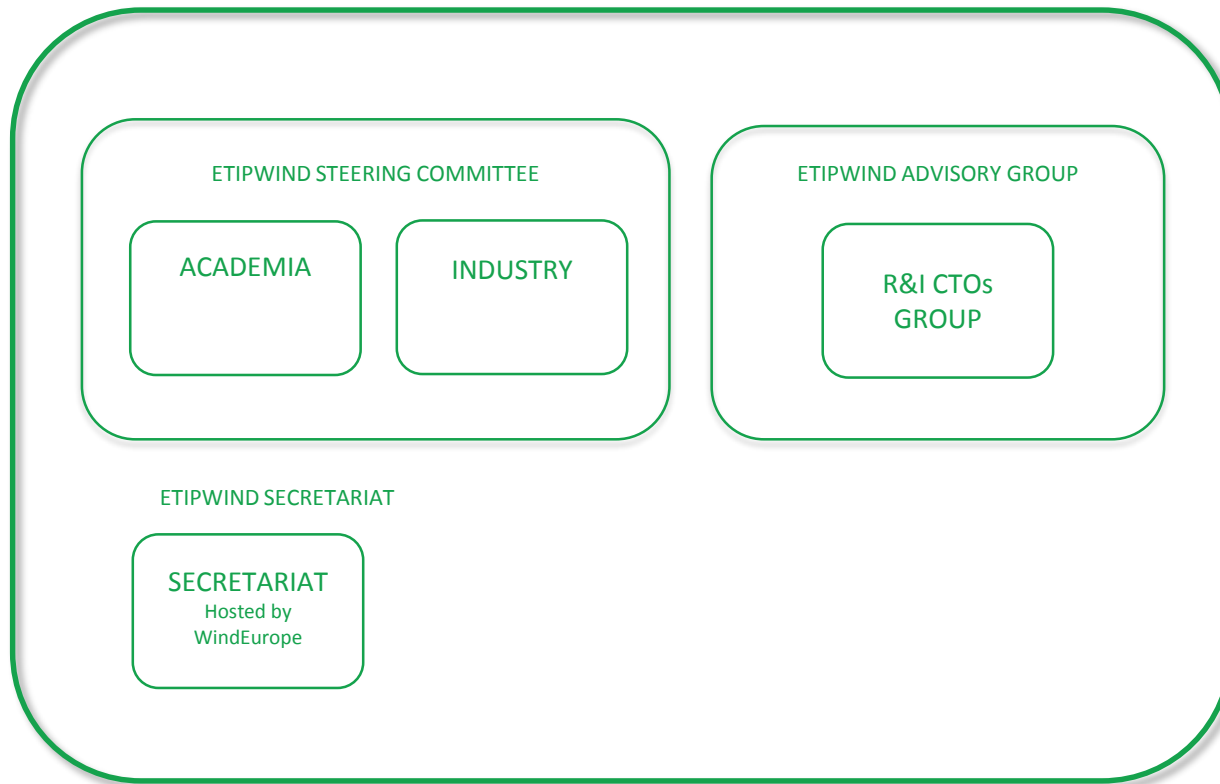


• Wind Energy



ETIPWind Structure

27 steering committee members 1/3 academia remainder
industrials



Turbine Manufacturers



Utilities and developers



Universities, research institutes and consultants



Others



Objectives



Reduce Costs



Facilitate System
Integration



Reinforce European
Technological
Leadership



Ensure First-Class
Human Resources

How does ETIPWind work?

A two years cycle...

Align on priorities







- **Define** the next challenges for the wind energy sector
- **Align** on priorities relevant for both industry and academia
- **Write** a Strategic Research and Innovation Agenda

Push to policymakers

- Make sure the EC and member states are aware of our priorities
- Help and **provide advice** in the writing of calls for projects

SET-Plan



Energy Union <i>Research, Innovation and Competitiveness Priorities</i>		SET-Plan 10 Key Actions
No1 in Renewables		<ol style="list-style-type: none"> 1 Performant renewable technologies integrated in the system 2 Reduce costs of technologies
Consumers in the Energy System		<ol style="list-style-type: none"> 3 New technologies & services for consumers 4 Resilience & security of energy system
Efficient Energy Systems		<ol style="list-style-type: none"> 5 New materials & technologies for buildings 6 Energy efficiency for industry
Sustainable Transport		<ol style="list-style-type: none"> 7 Competitive in global battery sector and e-mobility 8 Renewable fuels and bioenergy
Carbon Capture Utilisation and Storage		<ol style="list-style-type: none"> 9 Carbon Capture Storage / Use
Nuclear Safety		<ol style="list-style-type: none"> 10 Nuclear safety

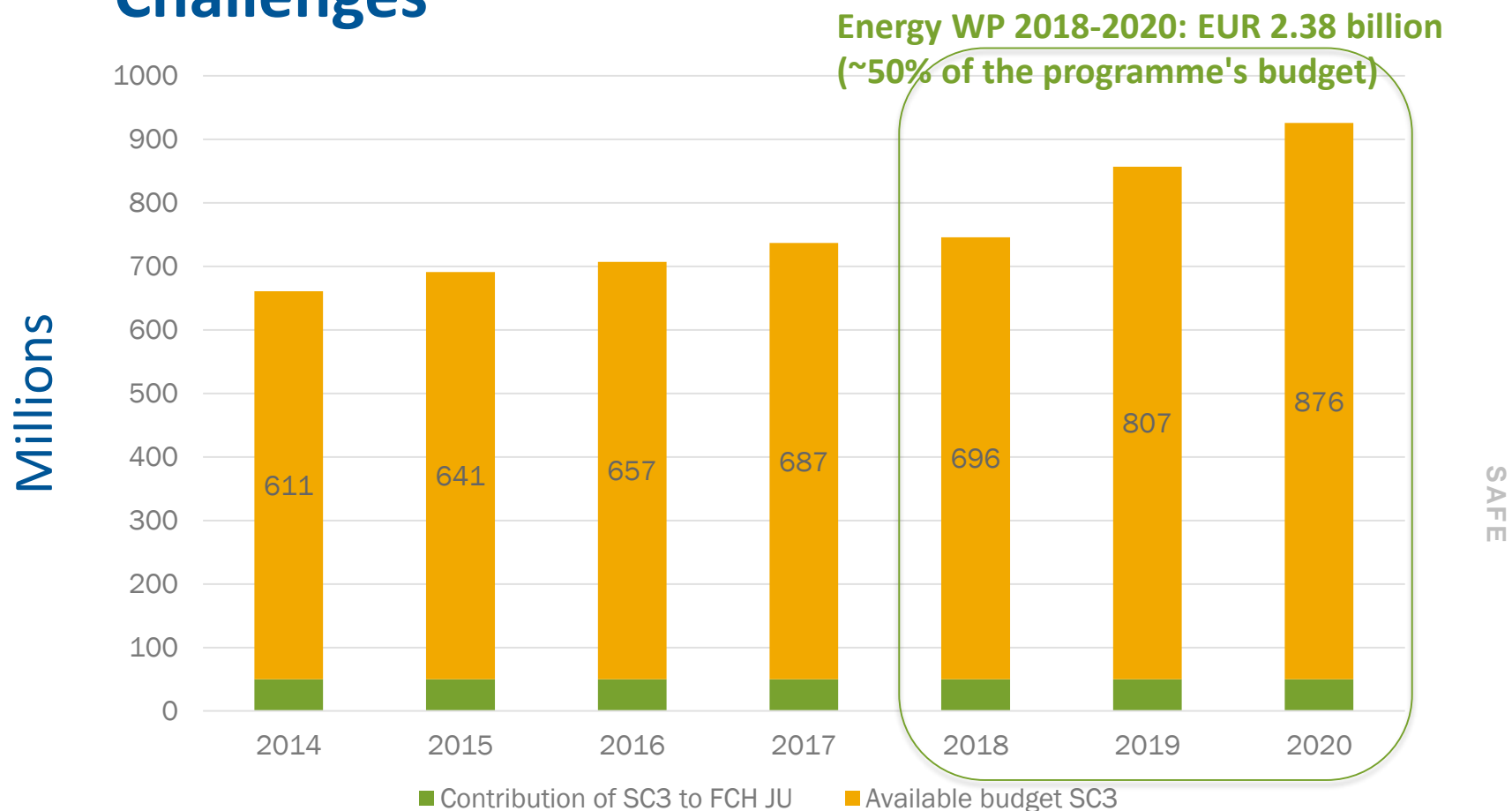
Example of policy push, Horizon2020 timeline

Calendar for adoption of Work Programmes during Horizon 2020

2014	2015	2016	2017	2018	2019	2020
Strategic Programme						
Work Programme 1 (plus tentative information for 2016)		Strategic Programme				
		Work Programme 2 (plus tentative information for 2018)	Strategic Programme			
				Work Programme 3 (plus tentative information for 2020)		
						Work Programme 4



Available budget of the H2020 Energy Challenges



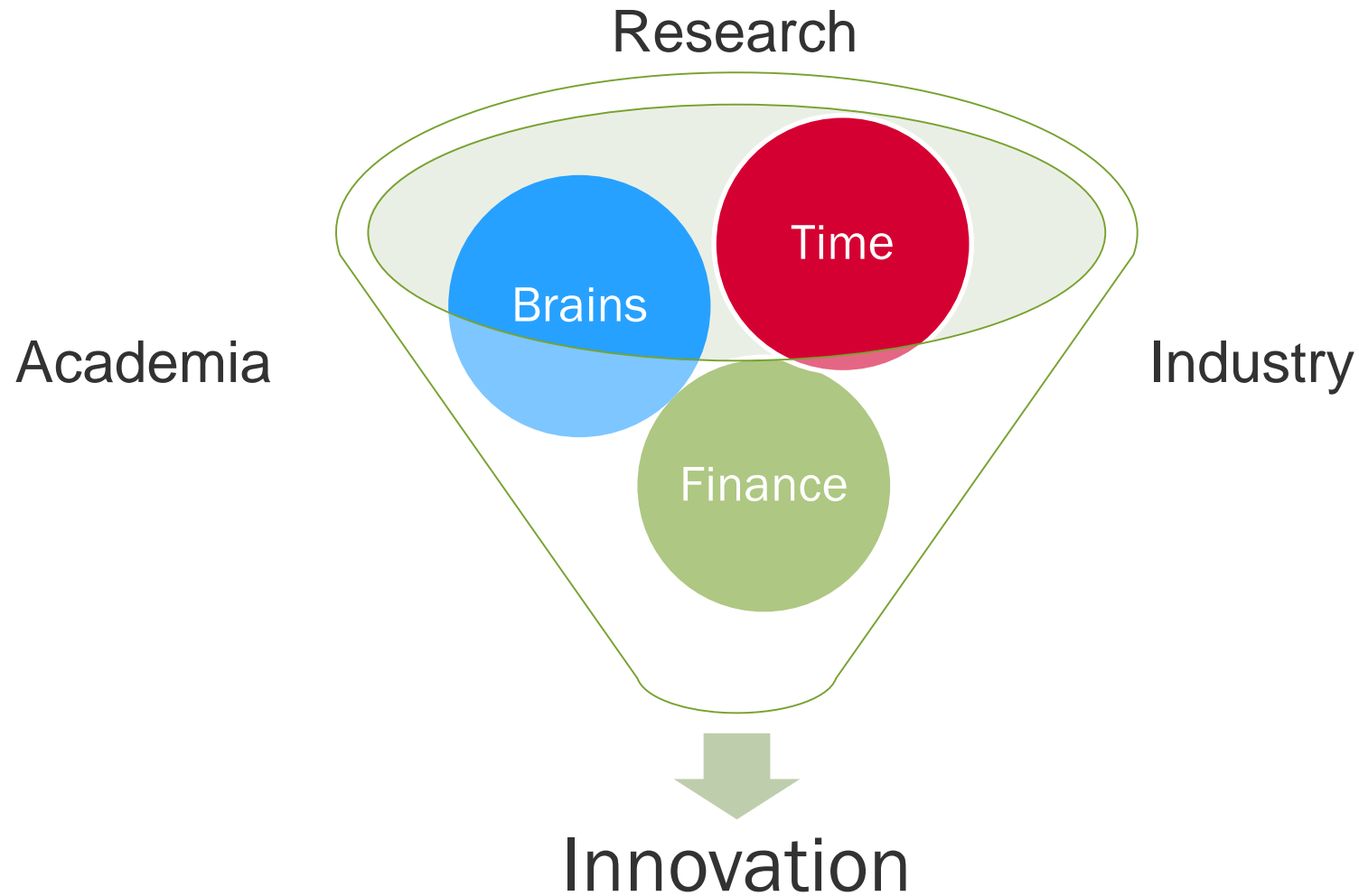


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The importance of collaboration “Whats in it for all of us”

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One view of the world



A second view of the world



Pitfalls to be avoided

- The messiah complex
- Pre-concieved opinions
- Two worlds apart – how many companies are here?
- Avoid being divided by ST policy makers
- Specific not to yield to the fuzzy general
- Divorces are messy - parties are fun



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Progress to date

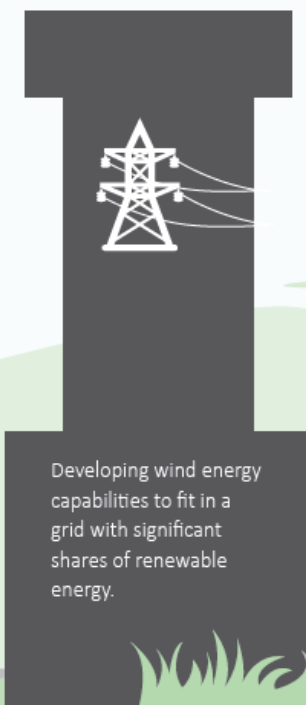
Chairmen are nasty people

- Race against the clock
 - Passionate discussions
 - Frayed tempers
-
- Consensus reached in the SRIA
 - Submitted on time and professionally
 - Submitted 30 project areas to Commission
 - Cooked 30 projects down to 15

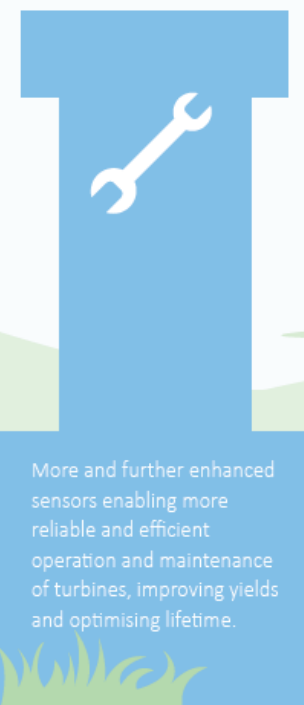
Perfect process no - but a really good result 😊

5 Pillars of research and innovation for wind energy

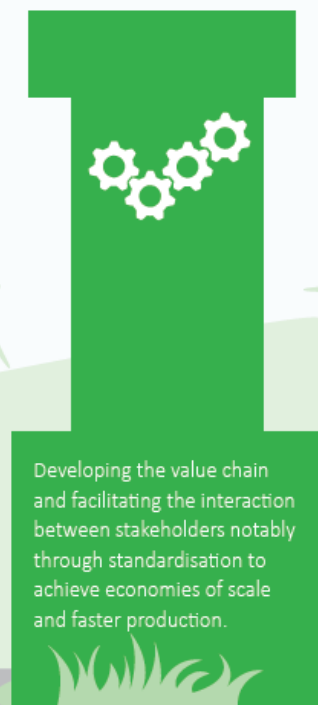
Grids systems,
integration and
infrastructure



Operation and
maintenance



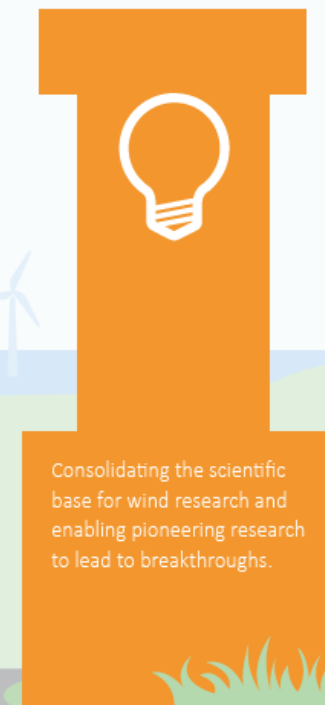
Industrialisation



Offshore
balance of plant



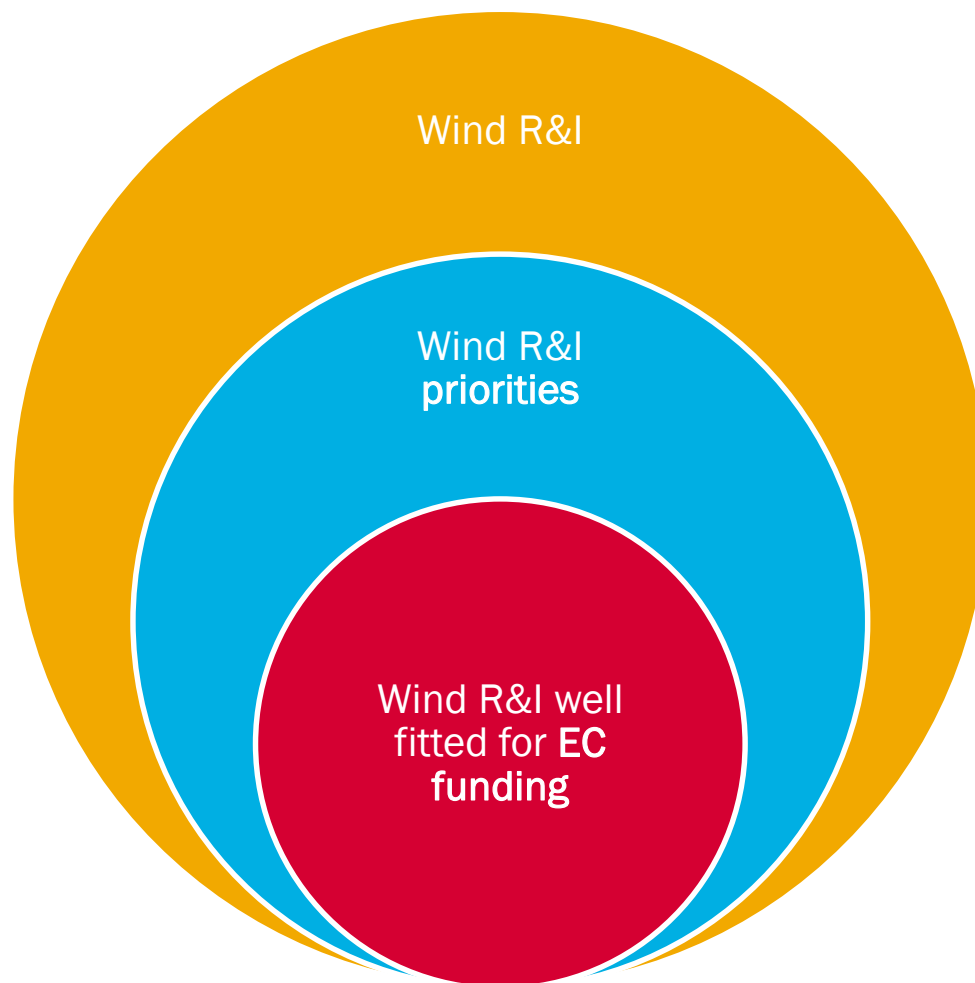
Next generation
technologies



From R&I to deployment

Adapting markets and policies for optimal integration of renewables, integrating wind turbines into their natural surroundings, ensuring public engagement and acceptance and deploying human resources.

Scope of the discussion





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Current ETIPWind Aspirations

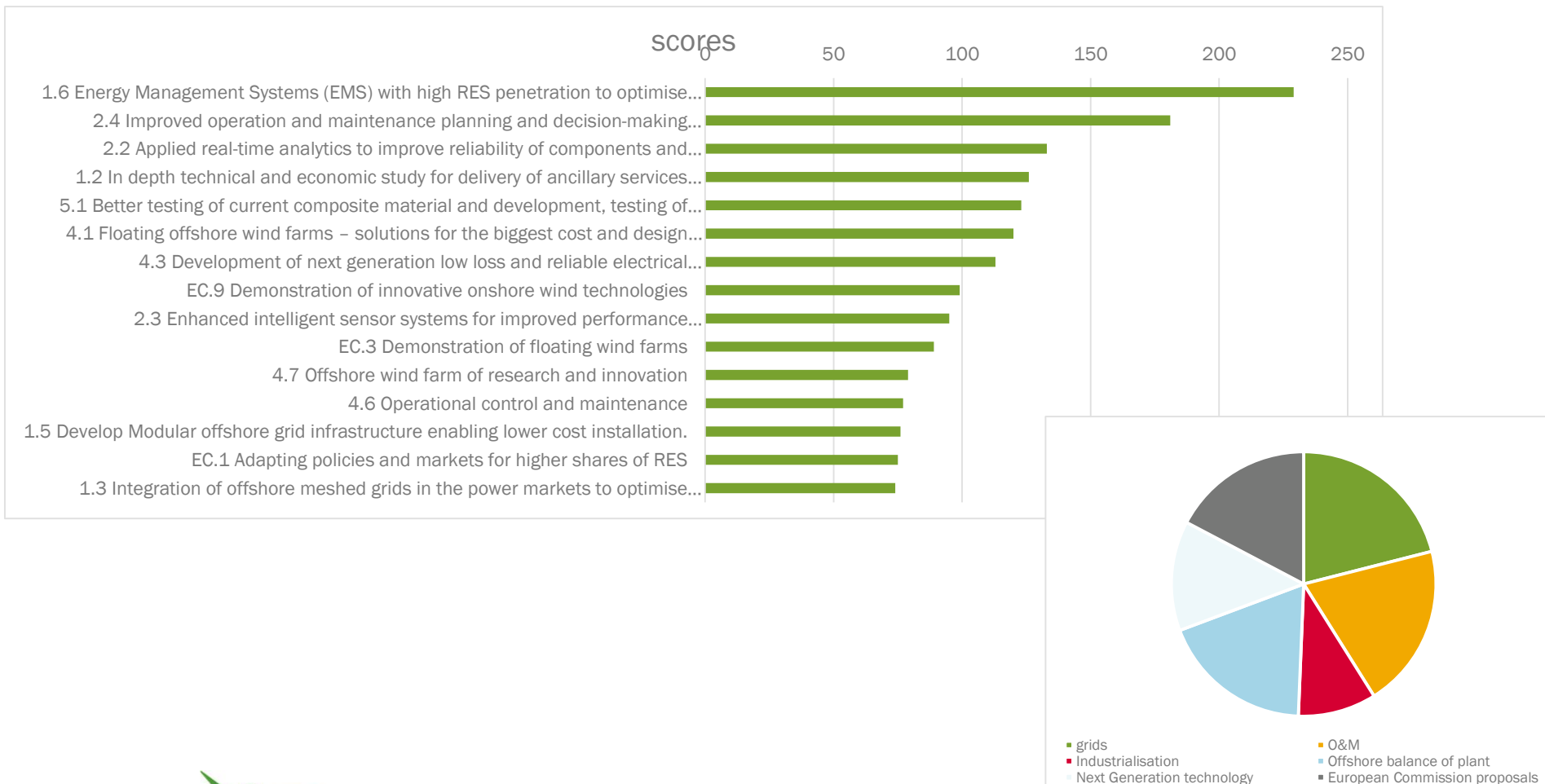
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Projects proposal for the European Commission

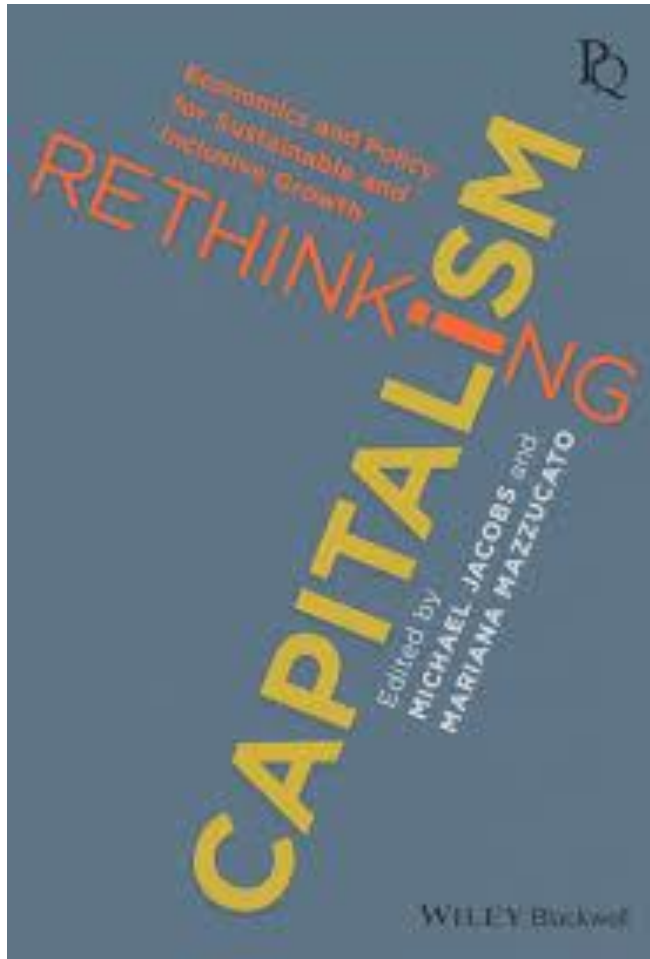
- **Definition** of more than 30 projects of interest for the academia and the industry
- **Submission** to the European Commission for feedback
- **Reception** of EC's feed back, including proposition of new topics
- **Survey** of the wind energy community on which are the most attractive projects (~15)
- **Analysis** of the best topics to fulfil our objectives
- **Final submission** to the EC

Creation of a common future vision with PV and other renewable technologies.

Projects proposal for the European Commission



The life cycle of a progressive society



Specifically chapters

1. Introduction
4. **Costs of Short-termism**
5. The Innovative Enterprise
6. **Innovation, the State and Patient Capital**



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Thank you for listening
& a special thank you to my hard working Steering
Committee & Secretariat



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