European Wind Energy Technology Platform

EWI – The European Wind Initiative

Delivering today the energy of tomorrow

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European Industrial Initiatives - EII

- SET Plan - COM(2007) 723 final:

  "The European Industrial Initiatives will be implemented in different ways, depending on the nature and needs of the sector and the technologies. … The European Technology Platforms will assist in the preparation phase."

- EII are one component of the Strategic Energy Technology Plan:
  - Proposed by the European Commission in October 2007
  - Endorsed by the Council and Parliament in March 2008

- Six EII were proposed: Wind, Solar, Bio-energy, CCS, electricity grid, nuclear fission.

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European Wind Initiative – SET-Plan objectives

- *European Wind Initiative:* focus on large turbines and large systems validation and demonstration (relevant to on and off-shore applications).

- SET-Plan - Reaching 2020 objectives
  - Double the power generation capacity of the largest wind turbines, with off-shore wind as the lead application.
  - Enable a single, smart European electricity grid able to accommodate the massive integration of renewable and decentralised energy sources.

- SET-Plan - Reaching 2050 objectives
  - Bring the next generation of renewable energy technologies to market competitiveness.

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EWI – objectives

- To make wind energy the most competitive energy source on the market during the decade 2020-2030, and as a first step decreasing the wind energy costs by at least 20% by 2020

- To enable the required large-scale deployment and grid integration of wind energy offshore and onshore with the aim of reaching wind penetration levels beyond 20% of European electricity consumption in the early 2020's

- Ensuring the European technology leadership on- and offshore, and developing large offshore wind turbines, including exploring concepts up to 20 MW.

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6 components with offshore as a core

- EWI1 will ease the site assessment, and gather data for improved designs on and offshore
- EWI2 put in place the turbine technology and manufacturing capacity for both onshore and offshore
- EWI 3 supports offshore take-off in the short to medium term and ensures long-term offshore leadership. This action is focused on support structures, assembly, installation, O&M, decommissioning and environment
- EWI4 enables large-scale grid integration of on and offshore wind energy
- EWI5 designs the economic and spatial planning instruments to deploy on and offshore technologies
- EWI6 implements the training structures to secure the necessary workforce for on and offshore deployment

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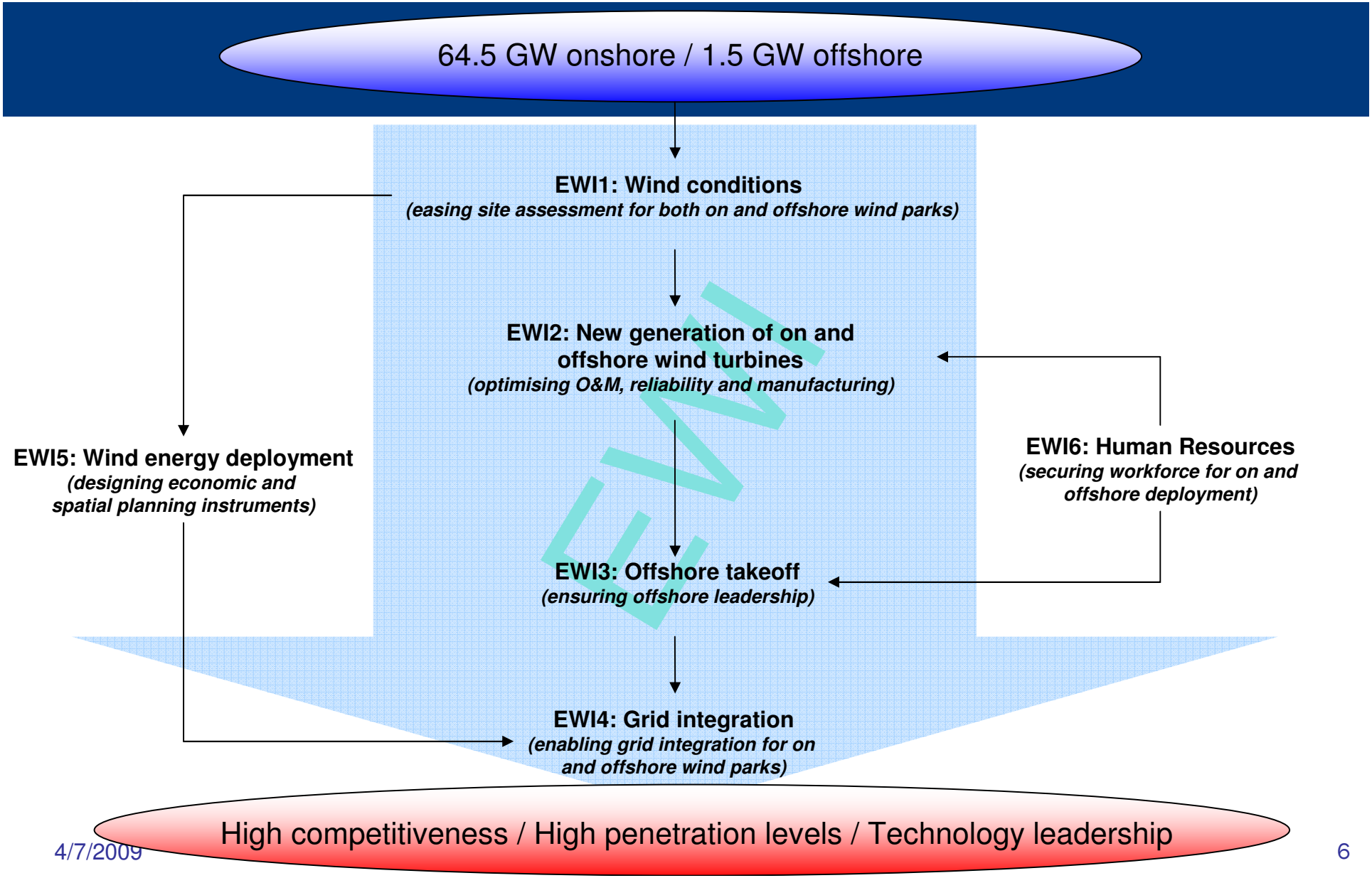

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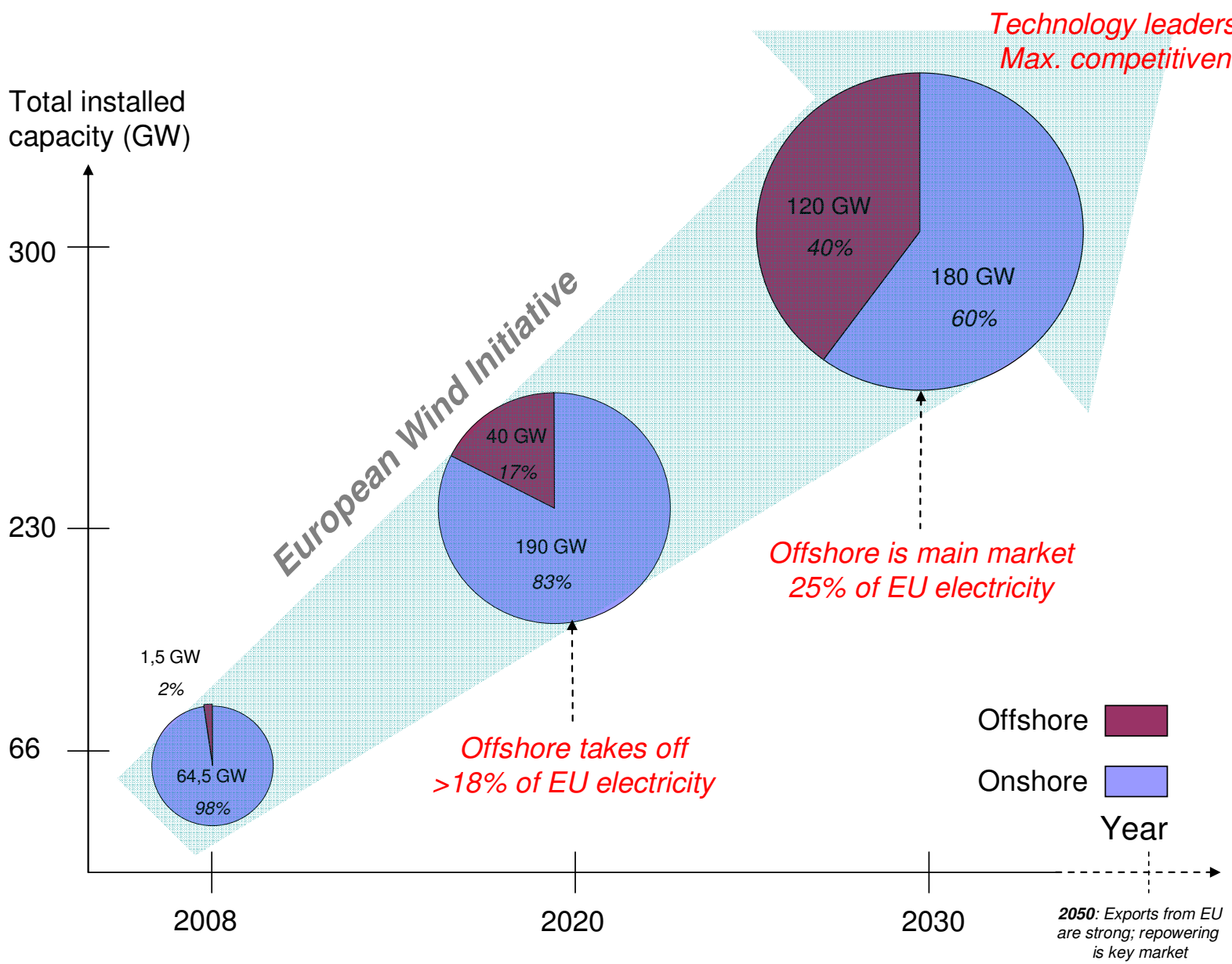

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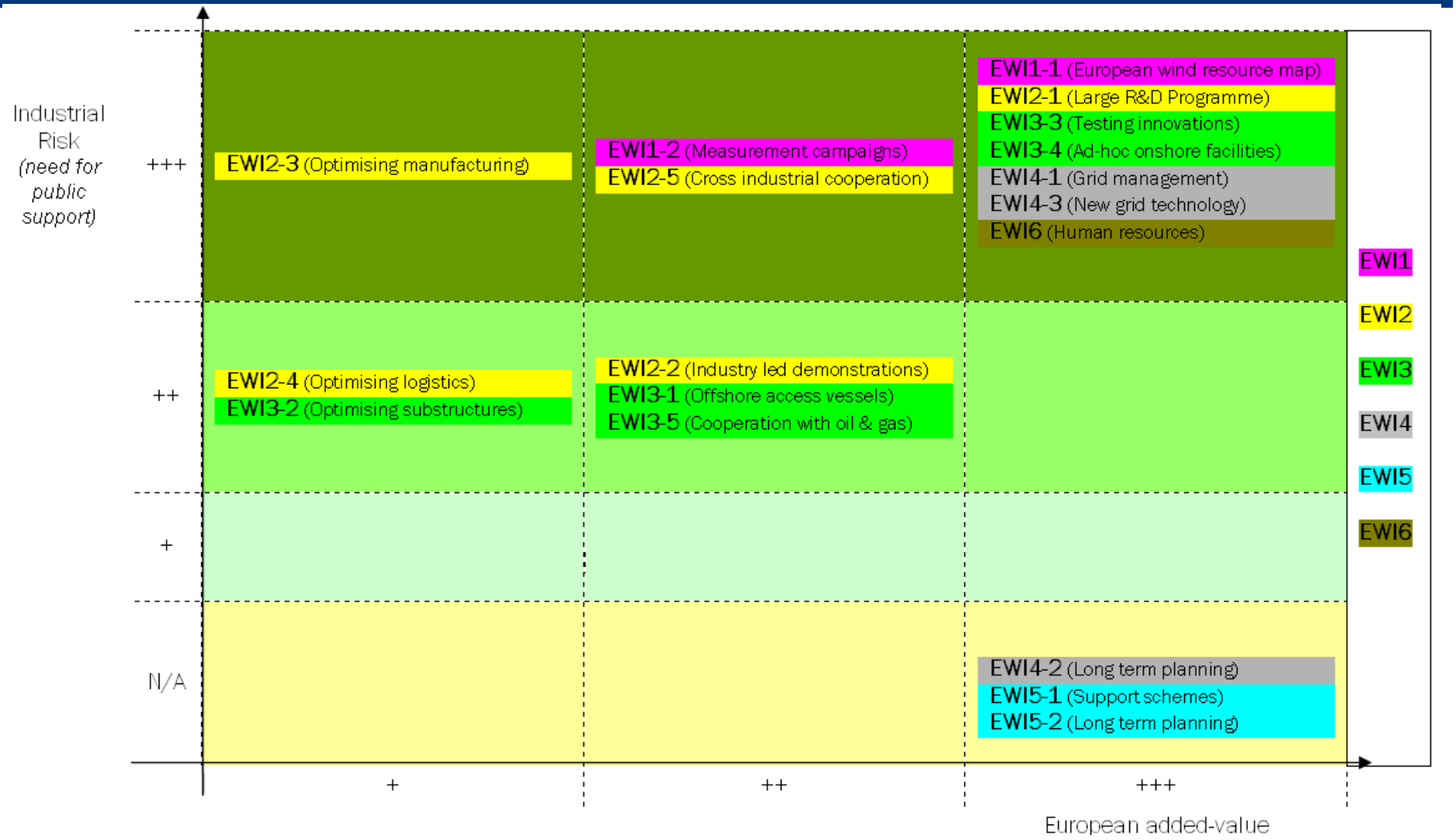
Funding intensity & European integration



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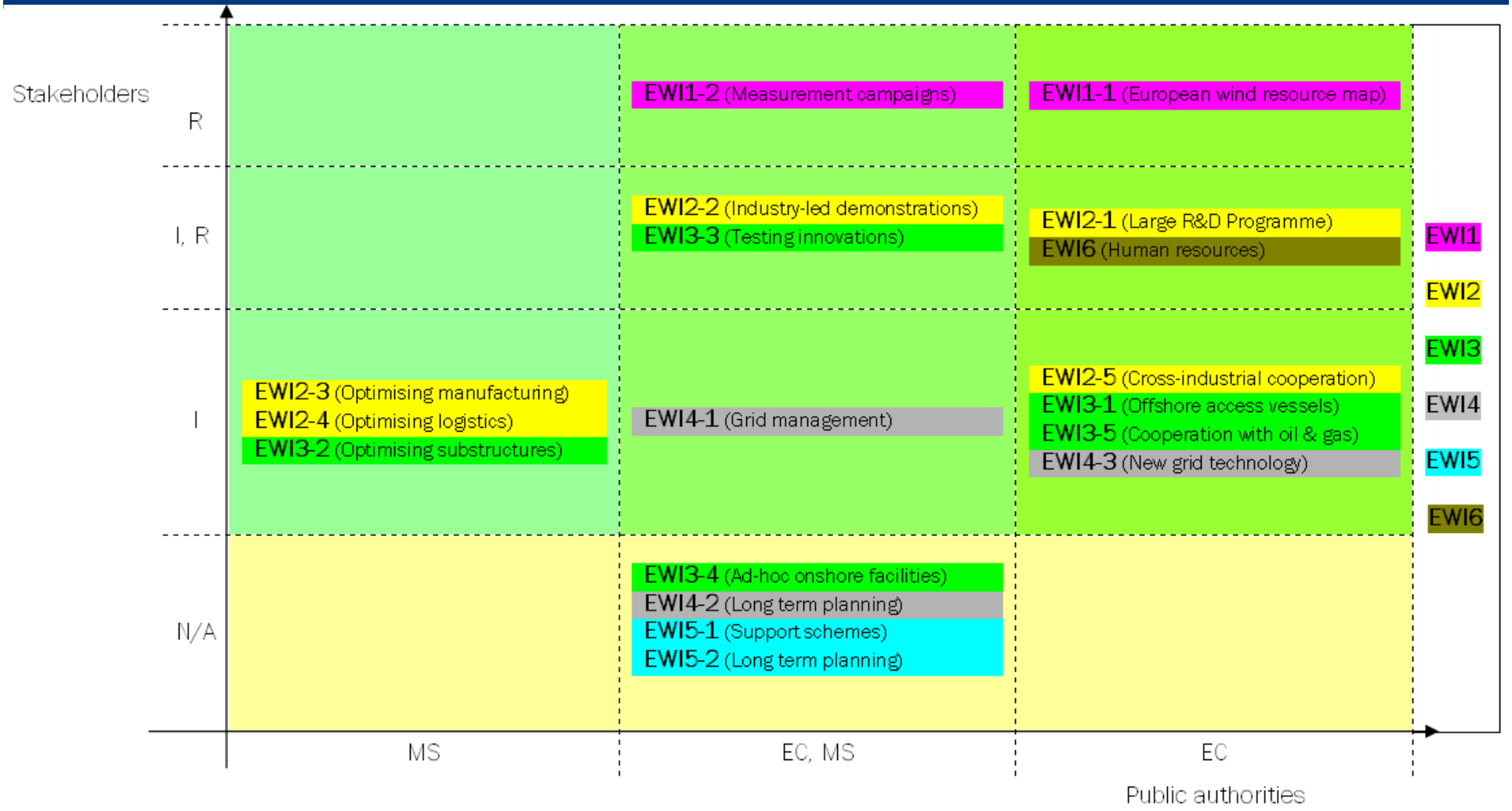
Leadership and funding



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Budget

Based on the best available knowledge, and existing activities.

EWI component	Foreseen budget (€ million)
EWI1	175
EWI2	< 2000
EWI3	> 1000
EWI4	> 2000
EWI5	25
EWI6	500
Total	< 6000

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Thank you for your attention

http://www.windplatform.eu

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