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# TPWind and the SRA/MDS



European Wind Energy  
Technology Platform

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## EWEC2009: Marseille, 17 March 2009

### Structure of the presentation:

- Part One: Introduction on TPWind
- Part Two: SRA / MDS & implementation plan



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# PART I: Introduction on TPWind



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## TPWind - Objectives

### ❑ Scoping sector innovation and R&D needs

- R&D → SET- Plan, FP7, other EU and National plans


### ❑ A single, powerful voice for R&D

- EU, Member States, industry, other energy sector, R&D institutions and financiers

### ❑ Maximal sector sensitivity. Better communication

- Within the wind sector & externally (other industry sectors & technology platforms)

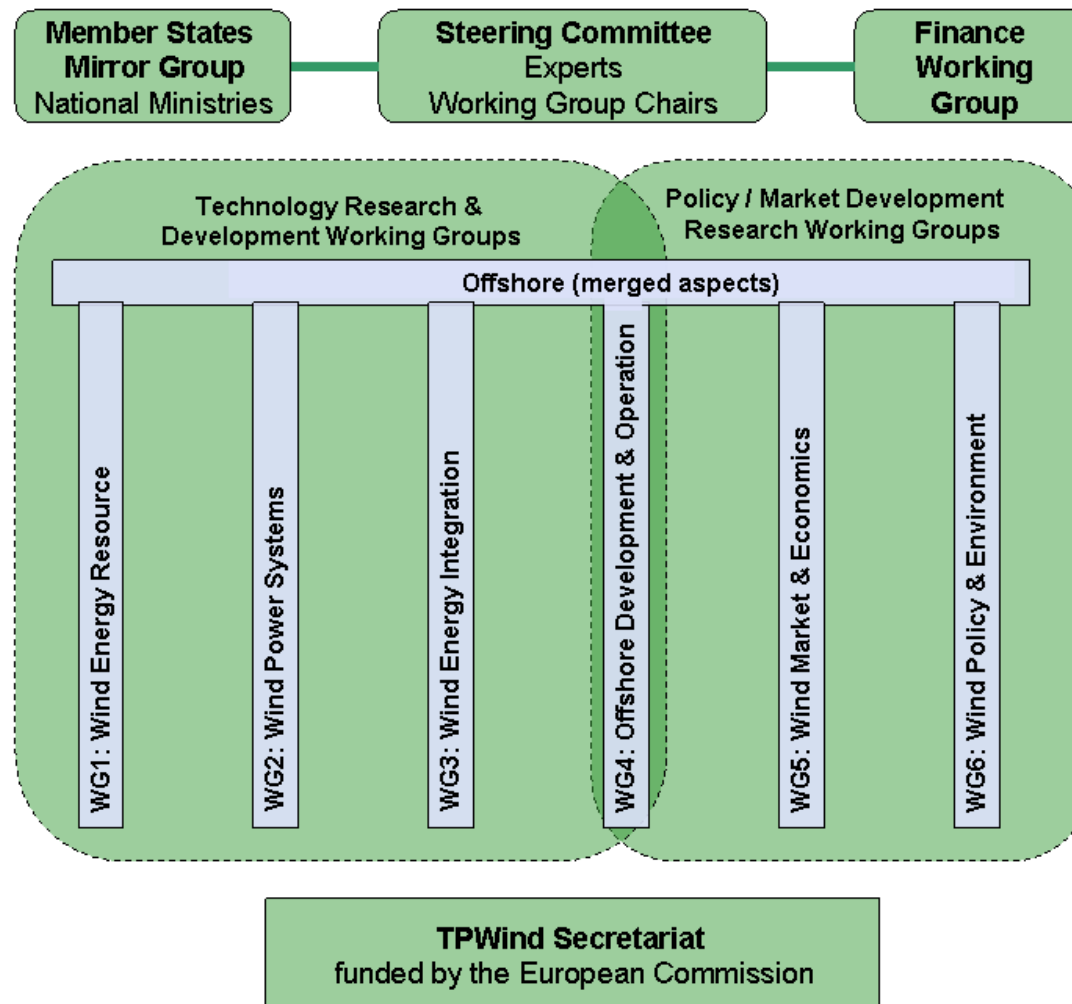
### ❑ “Docking station”

Monitor ongoing initiatives (EC / other EU & national)	Strengthen the ERA 	Assess and monitor ongoing and new research projects
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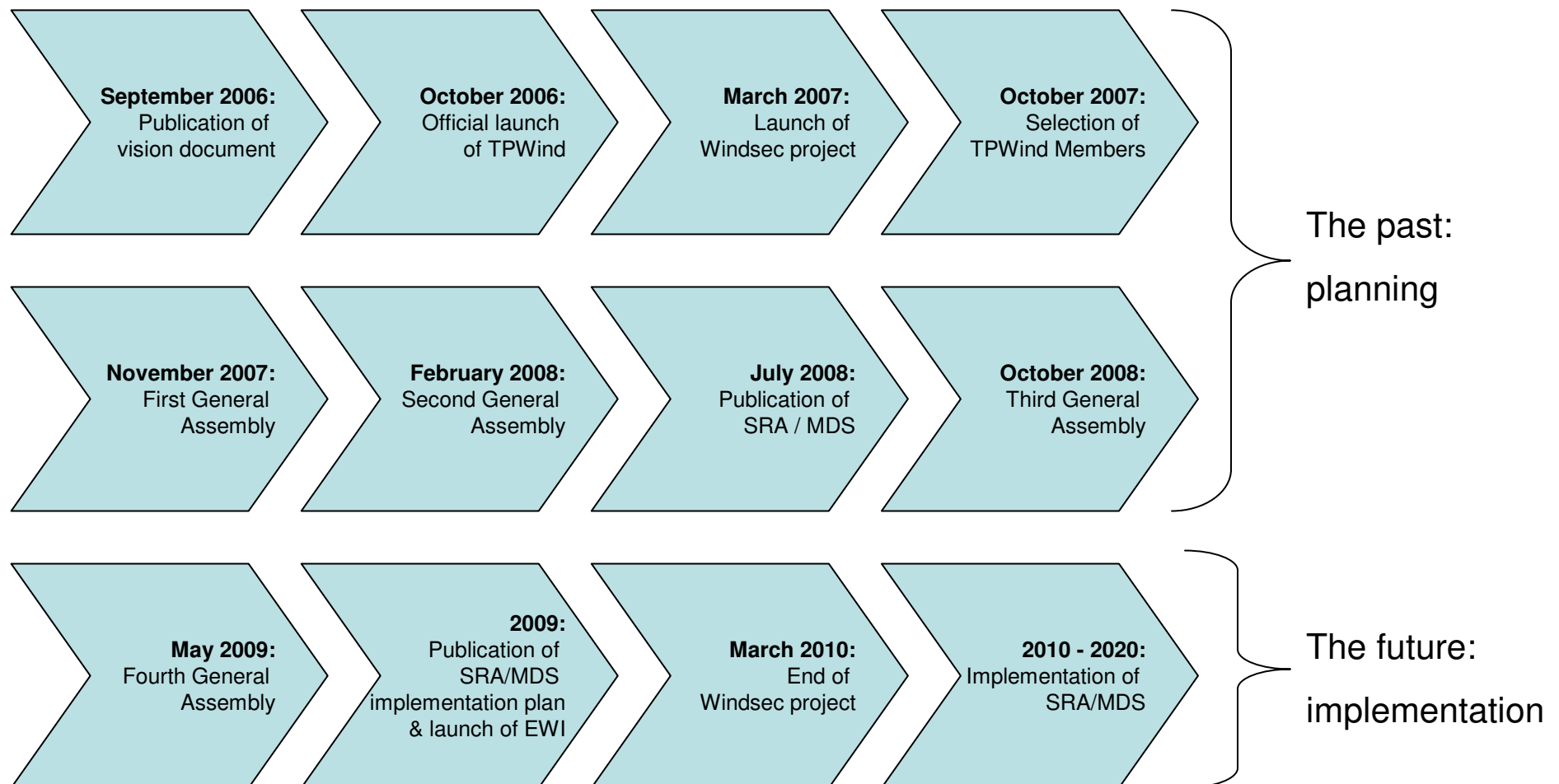
### ❑ Effective Action Plans, for technology and policy

- Strategic Research Agenda (SRA) & Market Development Strategy (MDS) – published in July 2008

# TPWind - Structure



## TPWind - Activities



## TPWind - Main Deliverables

- ☐ Vision document on wind energy up to 2030 (published in September 2006)
- ☐ Strategic Research Agenda (SRA) / Market Development Strategy (MDS), to cover technology issues, policy R&D and market development (published in July 2008)
- ☐ SRA / MDS implementation plan (to be finalized in the first half of 2009)
- ☐ Action plan outlining the future of the Platform (i.e. after the end of the “Windsec” project). The action plan will be finalized in the first half of 2009
- ☐ “European Wind Initiative”, developed in cooperation with the European Commission (the EWI should be launched before the end of 2009)

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## PART II: SRA / MDS and implementation plan



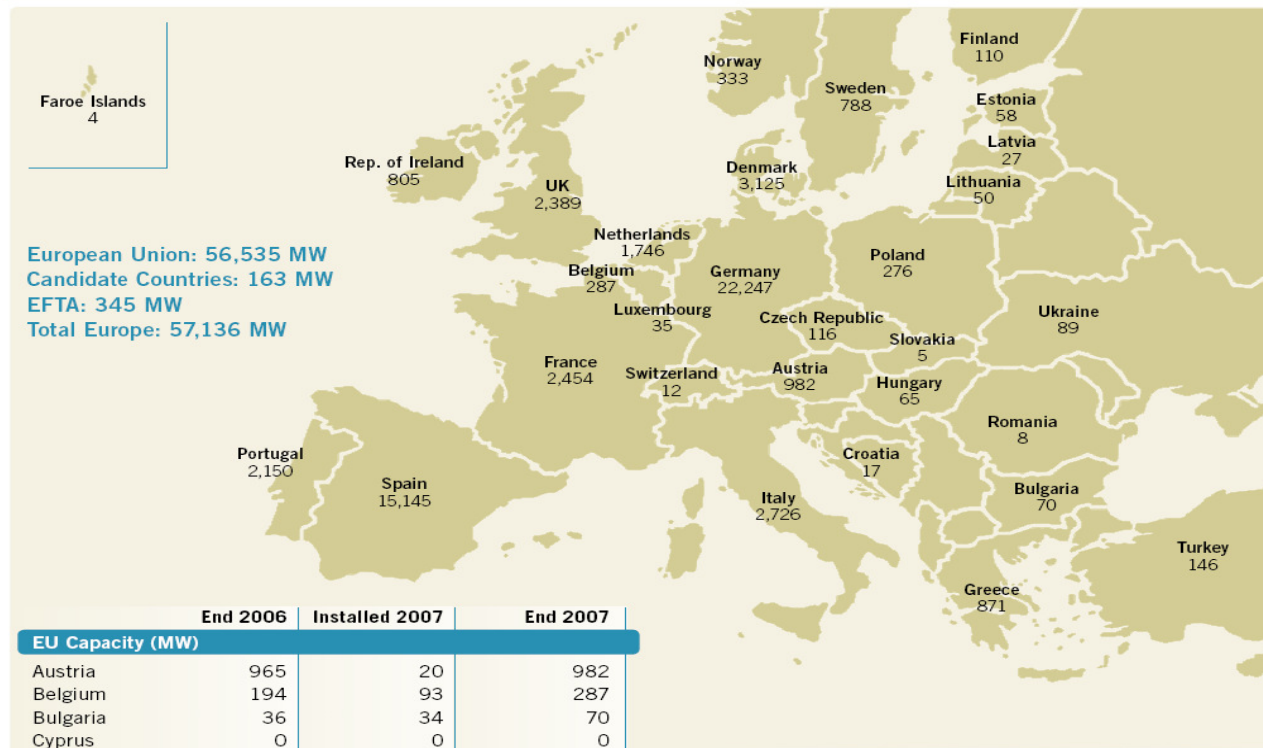
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# SRA/MDS - TPWind 2030 Vision: the starting point

Wind power installed in Europe by end of 2007 (cumulative)



To achieve the proposed objectives, 10 to 15 GW of additional capacity must be installed every year, i.e. 20 3MW turbines per working day

57 GW today

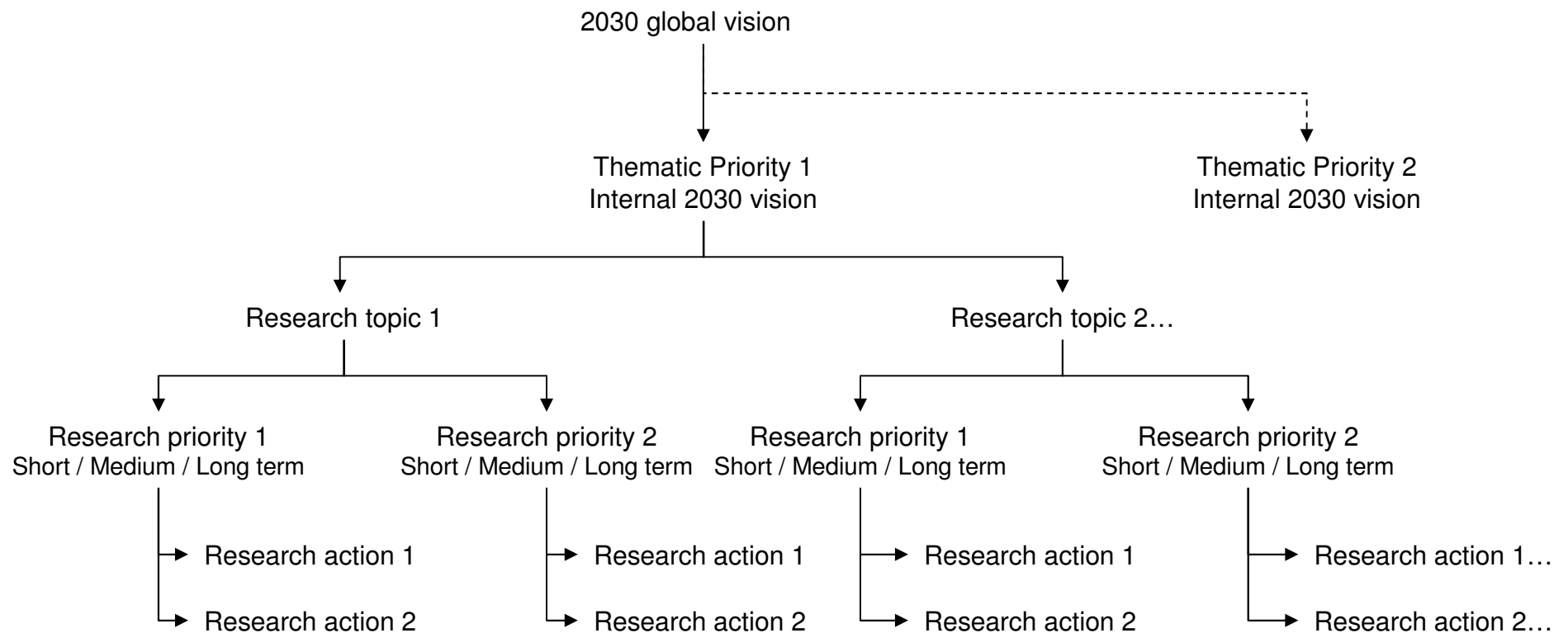


180 GW by 2020  
(i.e. 12/14% of EU's electricity consumption)



300 GW by 2030  
(i.e. 25% of EU's electricity consumption)

# SRA/MDS - Structure of the analysis



**The result is a research implementation plan at short / medium / long term**

## SRA/MDS – Overview of R&D Thematic Priorities

- The SRA is divided into five thematic priorities, which reflect the vision of the sector for 2030 (as expressed in the vision document published in September 2006) as well as the structure of TPWind:
  - Wind conditions;
  - Wind turbine technology;
  - Wind energy integration;
  - Offshore deployment and operation;
  - European research infrastructure (transversal action line).

## SRA/MDS – Implementation plan (I)

- ❑ The SRA/MDS has been published in July 2008: TPWind is now working on its implementation
- ❑ During the third TPWind General Assembly (8-9 October 2008), more than 100 wind energy experts from the public and private sector gathered in Brussels to discuss how to transform the SRA/MDS into reality
- ❑ 46 project ideas for implementing it were identified, which can be categorised and summarised on the basis of their focus and level of priority, as highlighted by the table below:

Type of project / Level of priority	Research and development	MDS studies and policy actions	TOTAL
High	26	11	37
Medium	1	6	7
Low	1	1	2
Total	28	18	46

## SRA/MDS – Implementation plan (II)

- ❑ The balance between R&D and economic / political projects demonstrates the capacity of TPWind to cover all relevant issues for the development of the wind energy sector and confirms its ability to involve all relevant stakeholders
- ❑ The relevant implementation plan will be finalized by the end of 2009: this document, together with the new “European Wind Initiative” (EWI), will drive wind energy R&D in the next decade
- ❑ The TPWind brochure that is being distributed at this session and at EWEA’s stand provides a first overview of the projects identified to implement the SRA/MDS
- ❑ The implementation of the SRA/MDS will contribute in meeting the ambitious 2020 targets recently set by the EU and will play a key role in fighting climate change
- ❑ TPWind has just entered a new and more challenging phase: implementation!

## SRA/MDS – Implementation plan (III)

- ❑ Implementing the proposed strategy represents a key priority for the wind energy sector, which needs to fulfil its full potential
- ❑ The political conditions for doing it appear to be very favourable, since the European Commission is clearly interested in backing the development of renewables, especially in view of EU's 20% binding target for renewable energy production by 2020 (which has been set in the 20% Directive approved in December 2008)
- ❑ The resources for implementing all the identified projects will come from the EWI, the FP7, the FP8 the EIB and the EBRD (which are expected to manage a considerable budget dedicated to renewables – see COM(2008) 800 “A European Economic Recovery Plan”)
- ❑ However, public funds will not cover more than 50% of project costs in any case: the rest will have to be covered by the private sector
- ❑ For this reason, a clear commitment of the industry will also be needed
- ❑ TPWind is currently working to create the best possible conditions for a smooth launch of the identified projects

Thank you for your attention!



<http://www.windplatform.eu/>

Filippo Gagliardi, [filippo.gagliardi@ewea.org](mailto:filippo.gagliardi@ewea.org), +32 2 546 1982