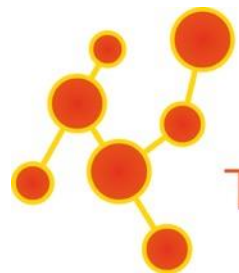


Match Making Day

Bob Meijer

14 February 2018



TKI WIND OP ZEE
Topsector Energie



Program for today

Afternoon Program

13.30	Short overview of TKI Wind op Zee activities
13.50	Tender regulations TKI Wind op Zee
14.30	Coffee and tea break at Innovation market
14.45 – 15.15	Parallel Match Making Meetings 1
15.30 – 16.00	Parallel Match Making Meetings 2
16.15 – 16.45	Parallel Match Making Meetings 3
14.45 – 16.30	3 project consultations with RVO
16.45	Drinks at innovation market
18.00	Closing



Over 160 TKI Wind op Zee partners!

<p>R&D and education</p> 	<p>Wind turbine design & production</p> 	<p>Windfarm development</p> 
<p>Consultancy, design & engineering</p> 	<p>Construction & installation</p> 	<p>Maintenance</p> 
<p>Miscellaneous</p> 		



Activities

**Offshore
Wind
Innovators**

GROW

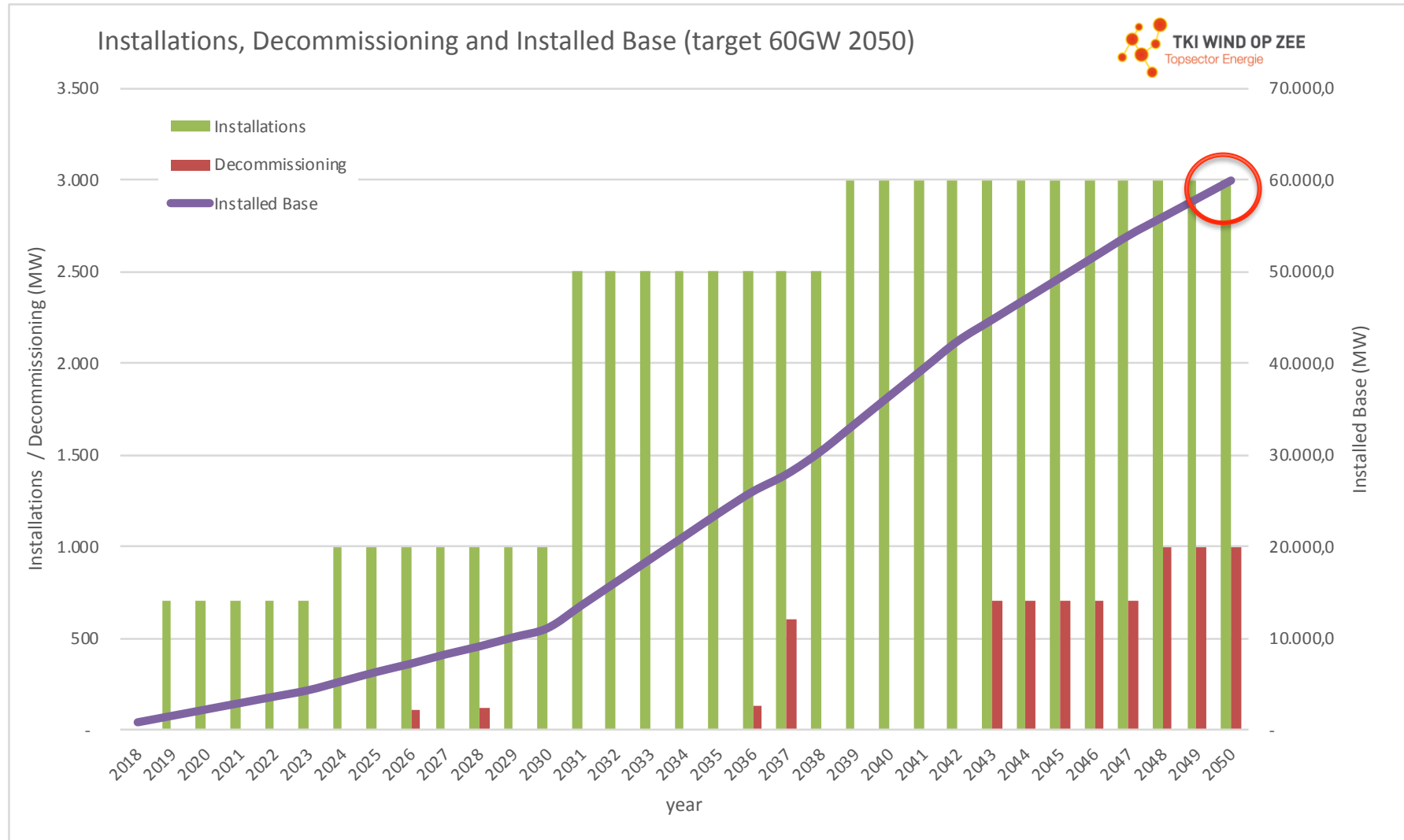
**North Sea
System
Integration**

**NSE MVI
Lab**

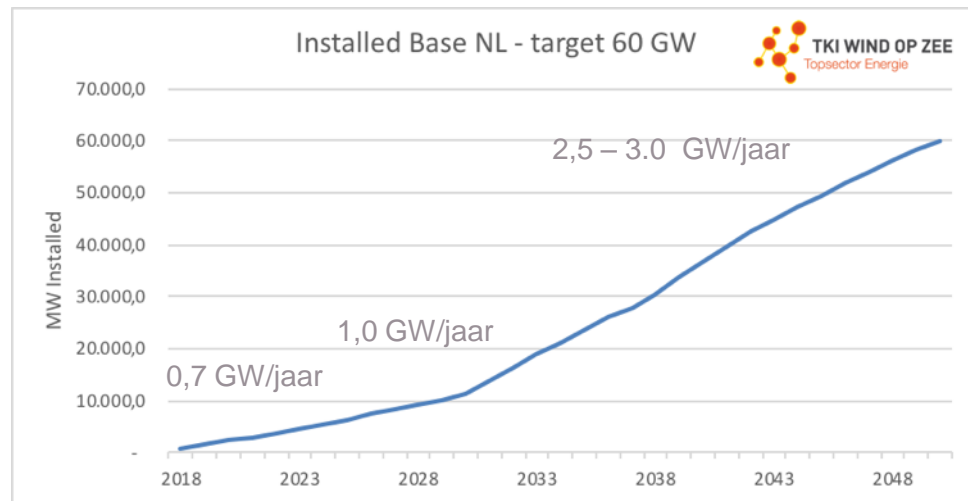
CAREER

TO2





Offshore Wind delivers the lionshare of electricity for the Energy Transition (PBL-ECN 2017)



Critical Succes Factors:

- Continued cost reduction and optimisation
- Integration in the Energy System of large volumes offshore wind power
- Integration in the environment (ecology and multo-use)

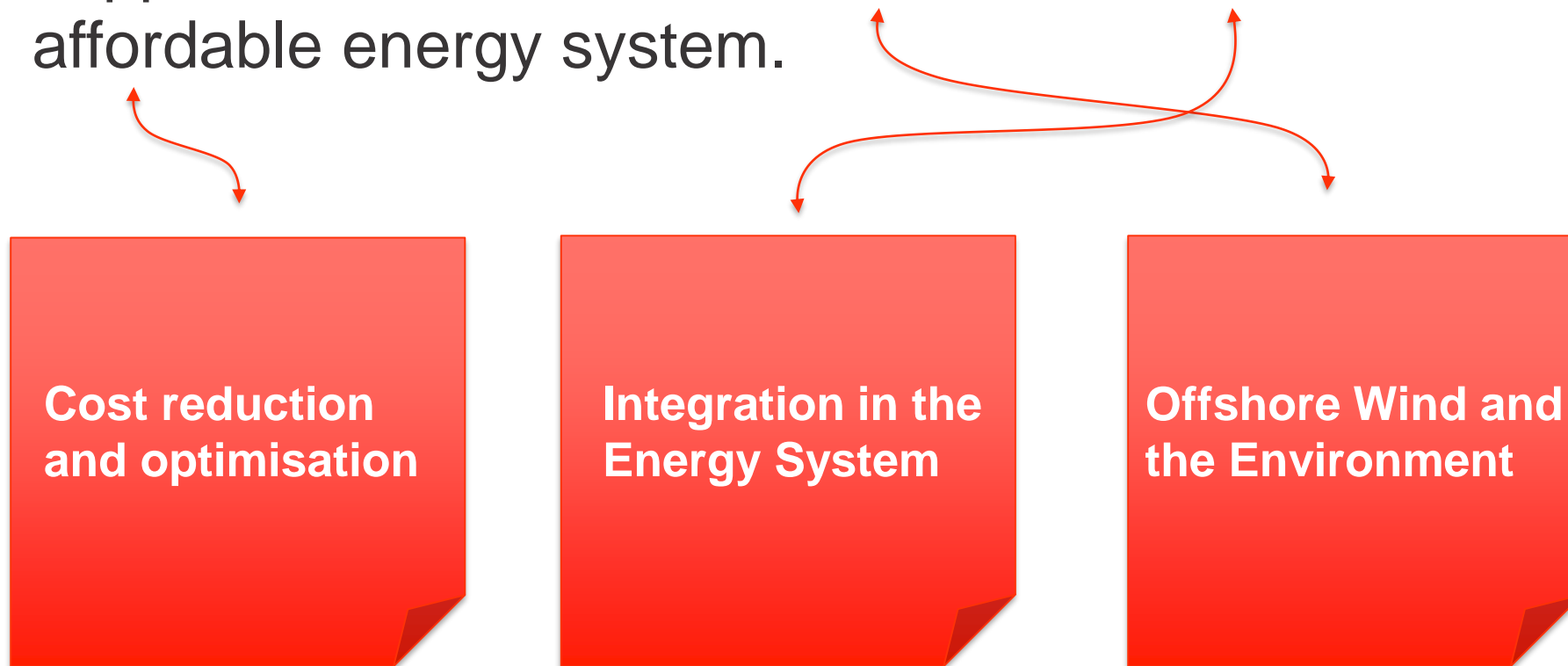
Innovation challenge

No succesfull energy transition without these conditions fulfilled



Offshore Wind Innovation Program

Support the transition to a low-carbon, reliable and affordable energy system.



Program details

Program document (in Dutch)

Addresses the three themes and R&D or innovation topics

Only projects within the program scope are eligible for subsidy

The subsidy regulations further define the conditions for these subsidies

*Updated with your input.
Thank you!*



Cost reduction and optimisation

- **Support Structures**
- **Wind turbine and wind farm optimisation**
- **Inter array network and grid connection**
- **Transport, Installation and Logistics**
- **Operations and maintenance**



Integration in the Energy System

- **Large scale transmission systems**
- **The offshore grid**
- **Energy storage and conversion**



Offshore Wind and the Environment

- **Multi Use of offshore wind farms**
- **Enhance the ecological value**

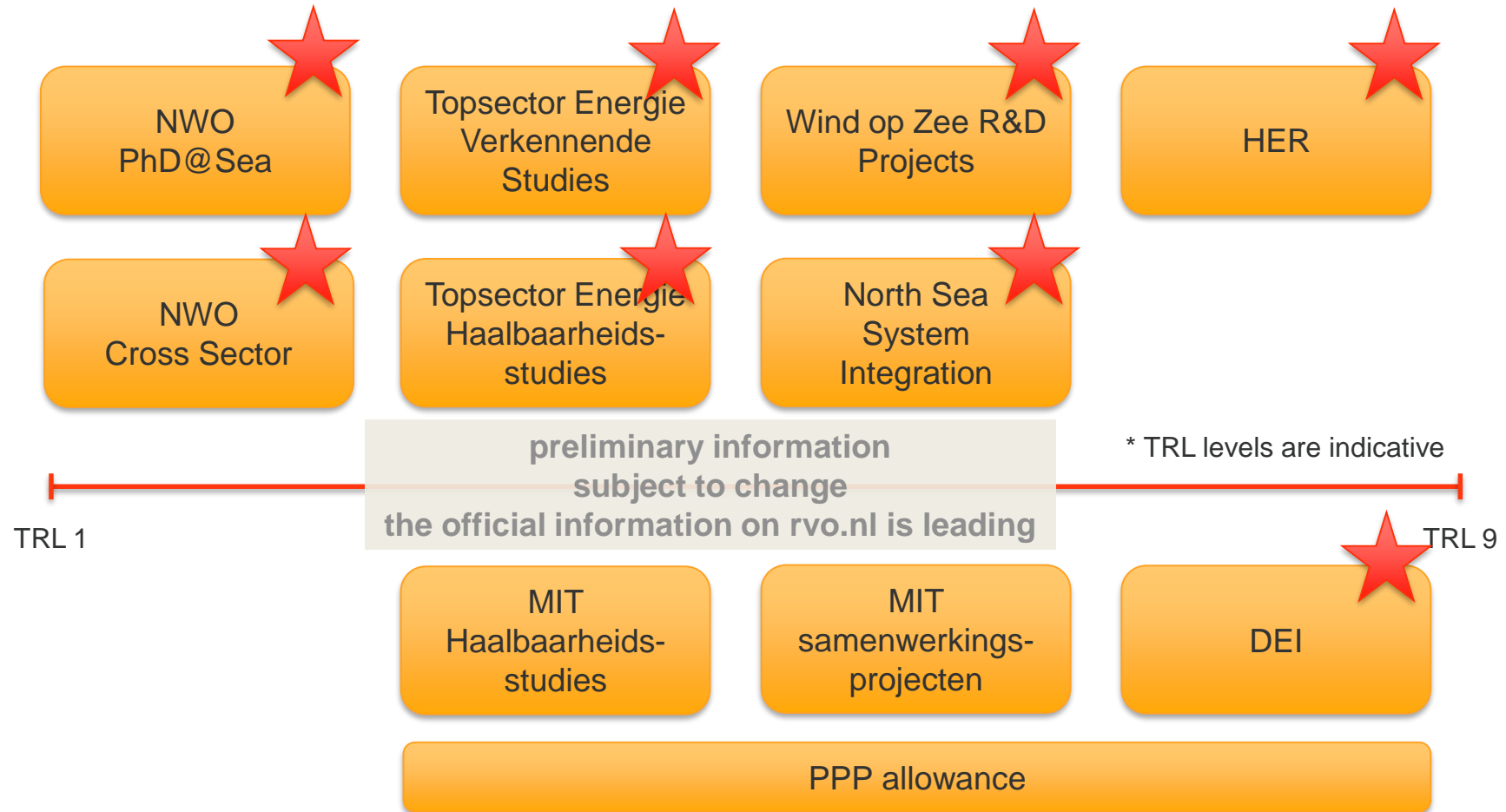


14-02-18

R&D Program and subsidy tenders 2018 - preliminary information -
subject to change - the official information on rvo.nl is leading

Subsidy instruments

★ New or important changes!



Call: Hernieuwbare Energie Regeling (HER / Renewable Energy)

Cost
reduction and
optimisation

Integration in
the Energy
System

Offshore Wind
and the
Environment

- **Call opens 1 April 2018 and is FCFS - budget 2017 not depleted**
- **Joint Program with other TKIs in the Topsector Energy**
- **Higher TRLs leading to Demonstration**
- **Contribution to Cost Reduction – below 60 €/MWh**
 - Corroborate the actual potential cost reduction!
- **Quality and feasibility of the project and efficiency**
- **Knowledge dissemination**
- **Balanced cooperation**
- **Maximum € 6,000,000 per project – budget is € 50 M**



Call: Wind op Zee R&D Projecten

(offshore wind R&D projects)

Call expected to open 1 April 2018 / close 5 June 2018

Budget € 4.8 M / maximum subsidy € 0.75M

R&D and Innovation subjects:

- **Cost Reduction & Optimisation**
 - Knowledge development (Industrial Research)
 - Use where you cannot use the HER like e.g.:
 - Earliest production date after 2030
 - Innovations for the offshore grid
 - Where it is unclear what the cost reduction will be
 - Subjects such as Health & Safety or Circularity (Decommissioning, Re-Powering, Recycling)
- **Offshore Wind and the Environment**
 - Multi Use of offshore wind farm areas
 - Improve ecological value of offshore wind farms

Cost
reduction and
optimisation

Integration in
the Energy
System

Offshore Wind
and the
Environment



Call: System Integration on the North Sea

Cost
reduction and
optimisation

Integration in
the Energy
System

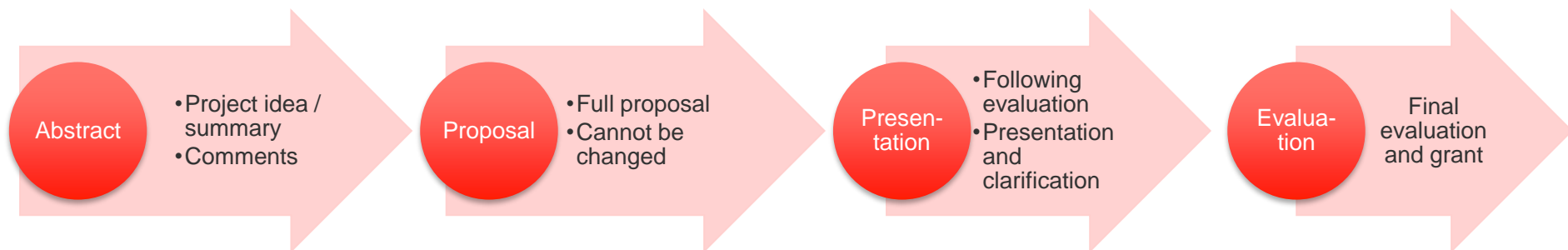
Offshore Wind
and the
Environment

- **Call expected to open 1 July 2018**
- **Budget 1.0 M€ in a tender with ranking; Max subsidy € 0.35M**
- **Joint call with TSE SI and TKI New Gas**
- **Objective: reduce balancing risk and costs, improve flexibility and maximise the integration of renewable electricity**
- **Subjects:**
 - Large scale offshore transmission systems
 - The offshore grid
 - Storage and Conversion
- **Details will follow later**



Wind op Zee R&D projects – evaluation process

- **Screening project ideas (not obligatory)**
- **Initial evaluation by Advisory Committee**
- **Presentation by Project initiator(s) and possible clarification**
- **Final evaluation by Advisory Committee and discussion with RVO**
- **Subsidy Grant**



Optional appeal < 6 weeks



How to file your project proposals

For all relevant information, forms and regulations:

<https://www.rvo.nl/subsidies-regelingen/subsidies-energie-innovatie>

- **All information, including attachments and annexes, must be filed through eLoket and use electronic identification (eHerkenning).**
- **Questions can be raised at: 088-0424242 / klantcontact@rvo.nl.**
- **Demonstrate your own financing**
- **Be on time**



Other innovation support

- **DEI**
 - Demonstration of innovative renewable energy technology
 - Production facilities
 - Contribute to Green Growth in the Netherlands – export potential
- **MIT R&D projects & Feasibility Studies**
 - Subjects in line with TKI Wind op Zee program
 - For SME companies only
- **Innovatiemakelaars / Innovation Brokers**
 - Financial support to involve innovation experts
 - For SME companies only
 - Can be requested at the TKI Wind op Zee



PPS allowance

- **Projects not eligible for Topsector Energy subsidies**
- **Are in line with the TKI Wind op Zee Program**
- **Cooperation between at least one business and one Knowledge Institute**
- **Possibility of 25% (gross) contribution on the (largely) cash spent on work done by Knowledge Institutes**
- **For further questions and request for PPS Toeslag: TKI Wind op Zee**



Call: NWO PhD@Sea

- **Opportunities on the North Sea: PhD@Sea**
- **Budget € 1.5 M (requires 30% co-financing)**
- **Links to the *PhD@Sea community* initiated by the TKI Wind op Zee**
- **R&D topics aligned with the European Academy for Wind Energy (EAWE) and TKI Wind op Zee programs**
- **Subjects (e.g.):**
 - ICT & AI
 - Materials
 - Fluid dynamics
 - Systems integration
 - Socio – economic aspects
 - Ecological impact

Cost
reduction and
optimisation

Integration in
the Energy
System

Offshore Wind
and the
Environment



Summary for TKI Wind op Zee tenders

TRL range	Thema Kostenreductie en optimalisatie	Thema Integratie in het energiesysteem	Thema Wind op Zee en de omgeving
LOW TRL and Fundamental Research	NWO calls TSE studies	NWO calls TSE studies	NWO calls TSE studies
Mid range TRLs	Wind op Zee R&D Projecten <small>(only Industrial Research - see details)</small>	Systeemintegratie op de Noordzee	Wind op Zee R&D Projecten
High TRLs	Hernieuwbare Energierегeling	Systeemintegratie op de Noordzee	Wind op Zee R&D Projecten

