



## Challenging wind and waves

Linking hydrodynamic research to the maritime industry

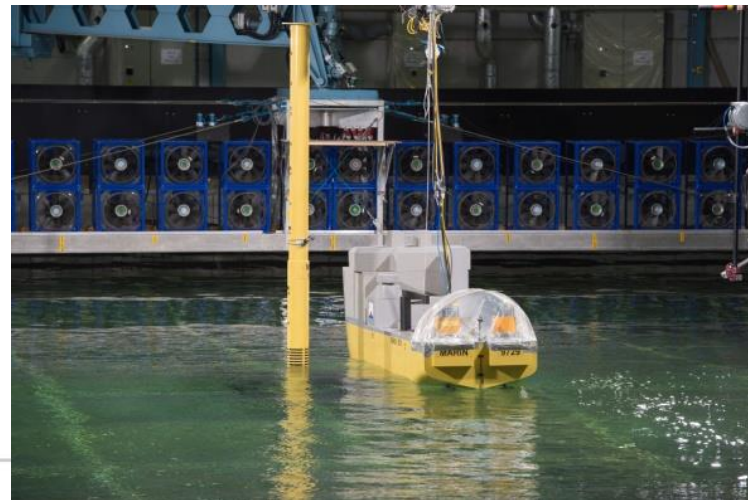
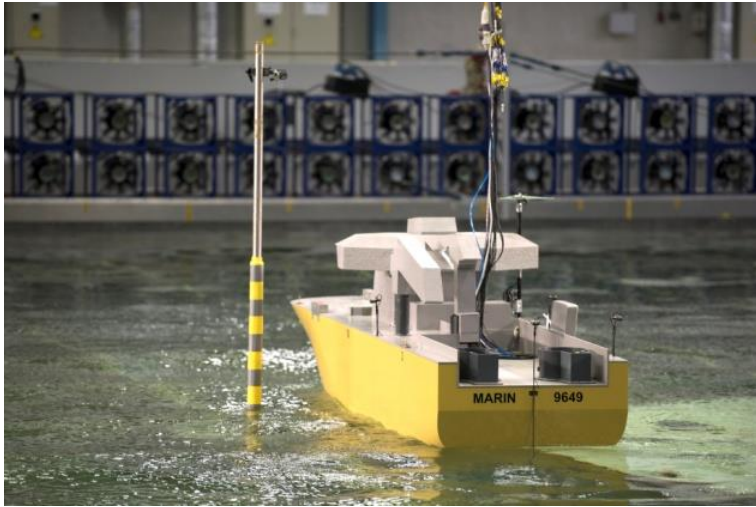
# Improving offshore operations

*Match Making Event Borssele Wind Farm Site V*

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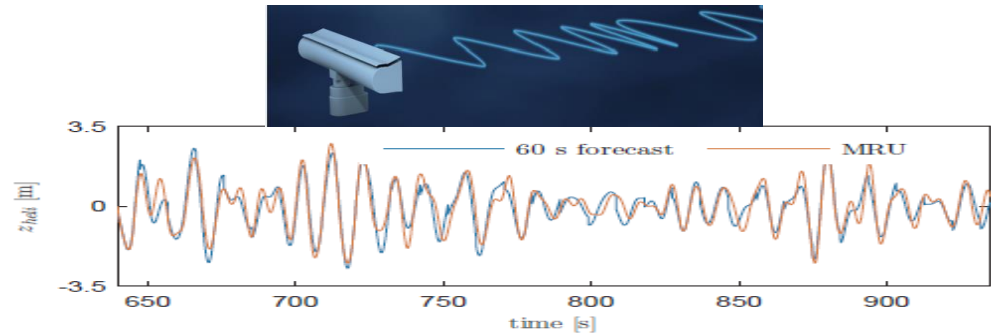
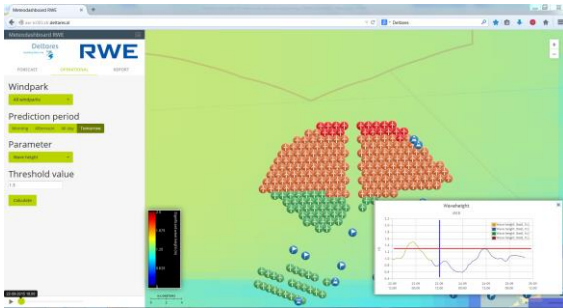
# MARITIME RESEARCH INSTITUTE NETHERLANDS

Independent and innovative service provider for the maritime sector in hydrodynamic and nautical research

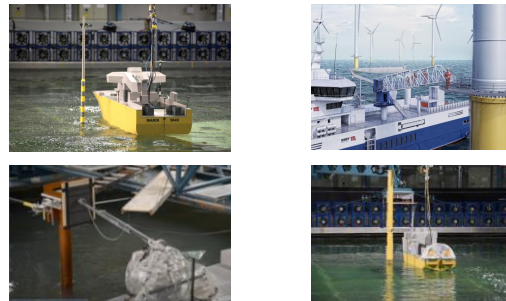


# IMPROVING OFFSHORE OPERATIONS

## Detailed forecasting and real time wave measurements



## Advanced Hydrodynamic database



Improved offshore operation

(Short term) Weather windows and less downtime

# BRINGING OFFSHORE OPERATIONS TO A NEXT LEVEL

## Test side to validate:

- Vessel Motion prediction model
- Including wave feed forward radar
- Advanced O&M Model including vessel motion prediction

## Needed:

- Location to install a wave radar
- Possibility to perform vessel motions



## Benefit:

- Short-term workability model
- Support for optimal route
- Which turbine first
  - Boatlanding orientation
  - Location in wind farm
- Daily Access vessel selection
- Sail out Yes or No