Innovation Offshore Wind – Van Oord

Wouter Dirks, Manager R&D and Innovation, Van Oord

13 February 2020 – TKI-WOZ matchmaking day
Offshore wind: very fast development and the need for R&D

Present:
- Rotor: 165
- Hub height: 110
- Tower weight: 500

2020-2030
- Rotor: 210 and more
- Hub height: 140 and more
- Tower weight: 1000 ton
How to master a BOP project?
“Mastering the race”

The Formula 1 example

1. Grand Prix
2. Mission Control
3. Car

1. Plan the Challenge
2. Execute the Plan
3. Enable Technology
“Mastering the race”

The Formula 1 example

1. Grand Prix
2. Mission Control
3. Auto

“Mastering BOP”

1. Design
2. Project Control
3. Equipment

Analogy

1. Win & execute the project
2. Control the project
3. Equipment
“Getting to cooperate on concepts that matter for the Industry”

- Universities
- Research Centers
- R&D Networks

Kavel V:
1. Eco-scour
2. Slip Joint

Start ups and SME’s

Design
Control
Equipment

Industry
https://vimeo.com/366482018/7fecb27911
https://vimeo.com/368228399
Van Oord Offshore Wind technology clusters

1. FOU & WTG installation
2. Cable design, installation and burial
3. Piling, drilling and noise mitigation
4. Foundation design - incl Soil Pile Interaction
5. Subsea design & ecology
6. O&M and decommissioning
7. New Energy Technology

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Thank you for your attention!