



# **Agenda**

- Introduction to Acteon
- ▶ Introduction to Seabed Foundations Technologies Cluster
- ▶ Evolution of Technology from Oil & Gas into Offshore Wind
- ▶ The New Way of Procurement



# **ACTEON** companies Defining Subsea Services

Our aim is to define, shape and lead Subsea Services through best-in-class expertise in our expert capabilities



#### Acteon's expert capabilities provide the geographical coverage and depth of expertise our clients need.



#### Reach and depth of resource:

- 20 Specialist branded service companies
- 85 locations, 15 countries

2,500 staff

and Data

Risers and Moorings

Seabed Foundation **Technologies** 

Four expert capabilities:

Local content >97% national employees



## **Seabed Foundations Technologies Cluster**

#### Selected examples of Acteon's services:



- Conductor, Template, tieback design and installation including full minimal facility platform supply.
  - Mooring systems design, rental and maintenance
  - 6 Rig moves and positioning
  - Rental of subsea electronic and monitoring equipment
  - 8 FPSO mooring system design, rental, installation and recovery
  - 9 Drilled and driven pile installation equipment and support
    - Flow line and umbilical installation and recovery
    - Survey of subsea pipelines and pipeline repair
    - 12 Well plugging and abandonment
    - AUV surveys and ROV Tooling/Sensor support
    - Subsea infrastructure lifetime data management with engineered intelligence



Monitoring and Data

Risers and Moorings

Seabed Foundation Technologies

Project Support Service



## **Seabed Foundations Technologies Cluster**



**MENCK:** Provides a wide range of hydraulic hammers, an after-sales service and highly experienced offshore service technicians;



**LDD:** Designs, engineers, builds and operates world class pile installation and drilling equipment to deliver a complete foundation service;



**LMH:** Provides a comprehensive lifting and handling service for offshore installation and subsea construction works.



**CORE:** Provides grouting for offshore foundations & structural strengthening for conductor and well integrity services



**CIS:** Provides full project management of high quality conductor installations.



## **Evolution of Technology**

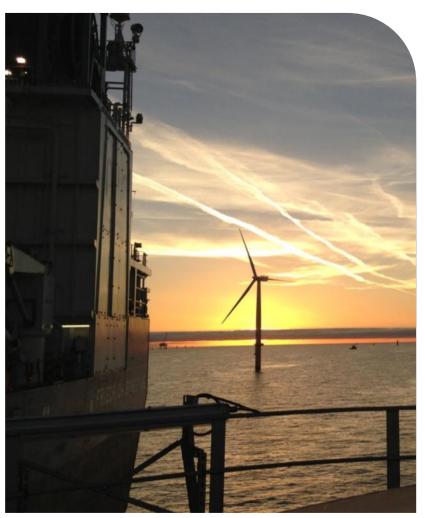
Equipment development to Offshore Wind application

- ▶ Reverse circulation drill from 1m to 8.5m diameter
- MHU 100kJ to 3500kJ
- ▶ 20\*20m subsea piling template









World's largest Construction Drill @ 8.5m

#### **MENCK New Products**

Meeting Market Requests and Expanding MENCK Portfolio





2003: MNRS: MENCK Noise Reduction System

2010: MHU 100C

2011: Subsea Noise Protection System

2011: Subsea Piling Frame: LM StabFrame

2013: MHU 3500S - World Largest Piling Hammer







World's largest Hydraulic Hammer @ 3500 kJ

# **ACTEON**



World's largest subsea piling template @ 20\*20m



## The New Way of Procurement

Acteon's Foundations Cluster aims to deliver significant cost savings, whilst maintaining the highest standards in QHSE, by delivering bundled service offerings in the Offshore Construction Sector.

- ▶ Key Account Management: Cross company tender and project management efficiencies;
- ▶ Single contracting entity: Reduced commercial, contractual and interface risk;
- ▶ Resource optimisation: reduced crews and ancillary equipment;
- Access to world leading domain expertise in pile driving, drilling and socketing, grouting, lifting, handling and engineering services.