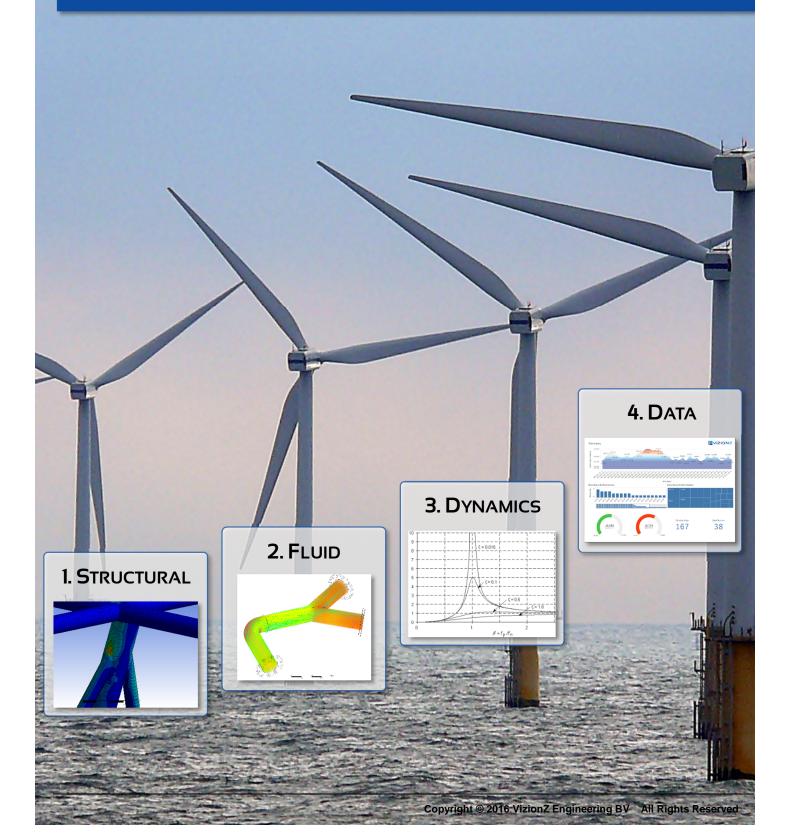


Bold Engineering in Air, Steel and Water



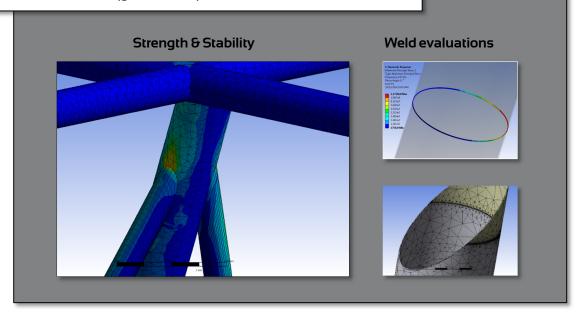
1. STRUCTURAL ENGINEERING



We offer design and engineering services for the **offshore wind** and **oil & gas** industries or **special structures**, specializing in complex steel structures and foundations subject to wave, wind and/or mechanical loading. We deliver results from concept design to detailed design and documentation, but also redesign and evaluate existing installations.

Design and engineering of (offshore) structures

- All necessary global structural analysis (static and dynamic)
- Detail calculations (static and dynamic)
- Lifting, transport, on bottom stability, ship collision, collapse (dropped object)
- Stability (barge loading), sea fastening
- Blast calculations (for walls, containers and living quarters)
- Helideck calculations (emergency landing etc.)
- Pre-stressed structures, welds (global, local)



VizionZ Engineering calculates special structures (large/slender) with large deflections for the offshore industry, but also **cranes** and **bridges**. Including integrated calculations with **hydro-and electro-drivin**g and mechanical detail calculations of **cylinders**, **shafts** etc.

For **cable laying ships**, VizionZ Engineering provides calculations of the deck/ship integrity strength of the equipment structures.



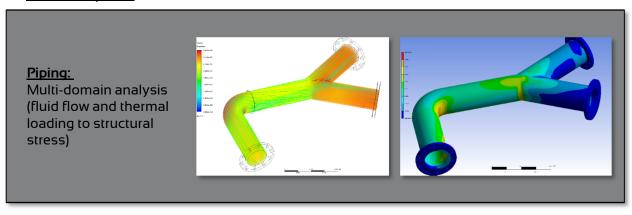


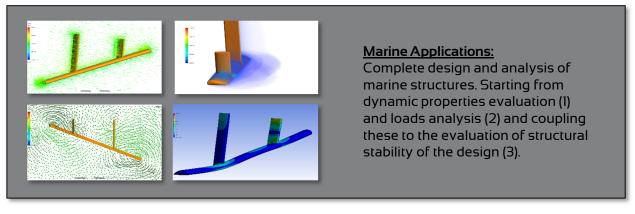


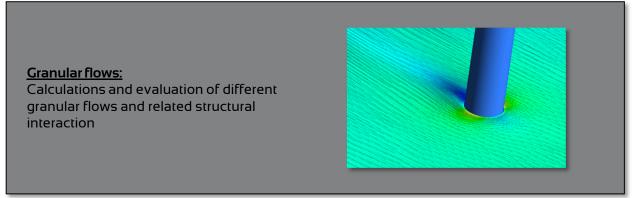
2. FLUID DYNAMICS ENGINEERING

VizionZ Engineering has experience in performing **fluid dynamics** evaluations in several different industry domains. Out engineers are particularly specialized in the design and evaluation of **multi-domain problems** such as fluid-structural interaction systems.

Past Projects











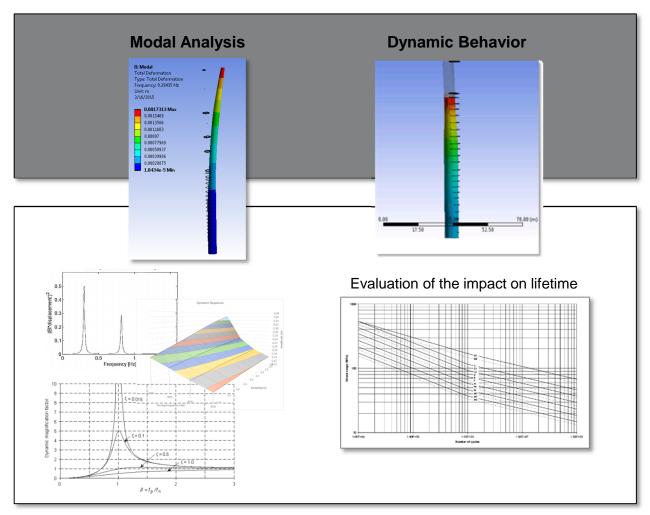
3. DYNAMIC SYSTEM ENGINEERING



Dynamic Evaluations

- Fatigue analysis
- Modal analysis
- Dynamic response and time history loading
- Non-linear analysis (material, geometry)
- Plastic analysis









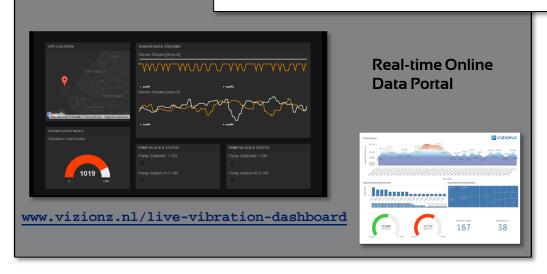
4. DATA MONITORING AND CONTROL SOLUTIONS



We provide solutions for the measurement and analysis of field systems. The system capabilities cover a broad range of data acquisition options, data processing and control system intervention and system performance analysis.

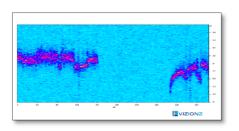
Mobile station for Live Vibration Monitoring

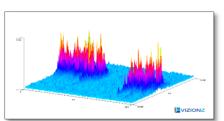
- mobile and self containing station fit for offshore conditions
- monitoring of soil vibrations in different soil types
- real-time feed in the online customer portal with restricted access
- access from mobile devices
- generation of Data Analytics Reports and data analysis services of data logs
- custom alert generation (Email, Twitter, SMS)



Frequency Domain Analysis

We also provide analysis of the collected measurement data and specialize in vibrations analysis.











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