

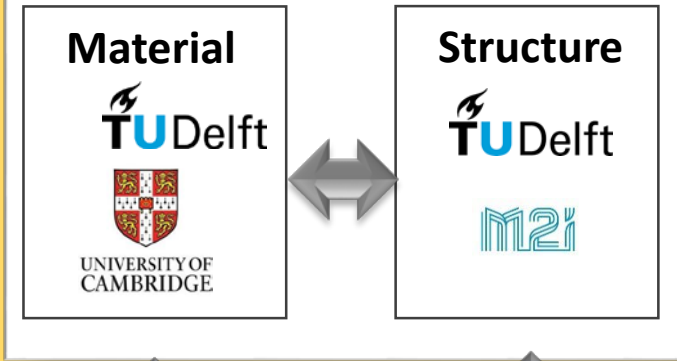
WP 1: Long term behaviour of hybrid structures

WP 2: Inspection and monitoring

WP3: Guidelines for the qualification of hybrid bonds

Outputs (2020)

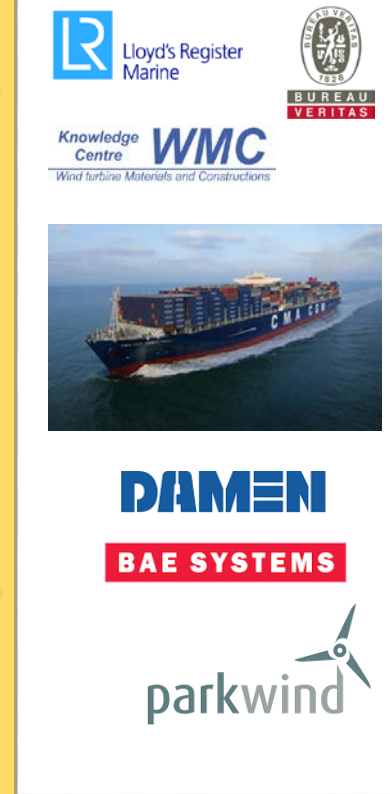
Modelling



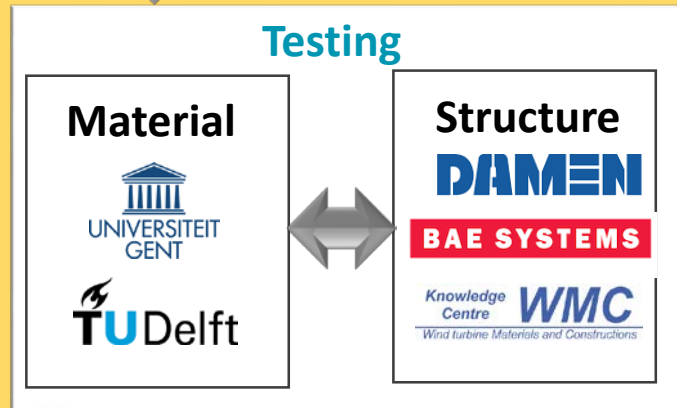
Structural health monitoring



Guidelines for qualification



Testing



Reliability and reparability of the monitoring system



Accelerated testing equipment & methodology for Testing plan

Monitoring protocol

Guidelines for qualification

- Hybrid bonds certified for primary structures
- Reduced lead time for new ship designs
- Reduced maintenance costs (up to zero)
- Up to 75% weight savings in marine applications
- Fuel savings (from 6 to 45%) and reduced CO2 emissions

TRL 4 TRL 5 TRL 6 TRL 5 TRL 6 TRL 6-7

TRL 7-9

WP 4: Project Management



WP 5: Communication