

NOWITECH final event 22-23 August 2017

Tuesday, 22 August, Session 15:30-16:35

Operation and Maintenance

Thomas Welte

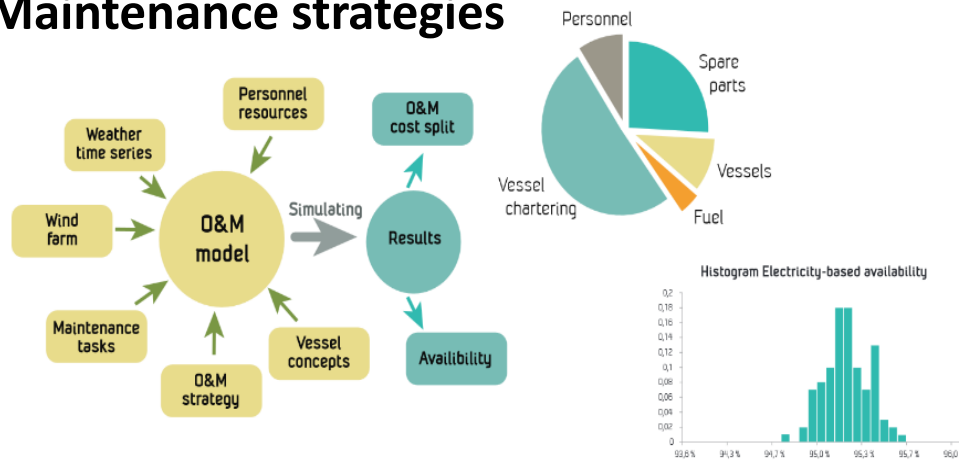
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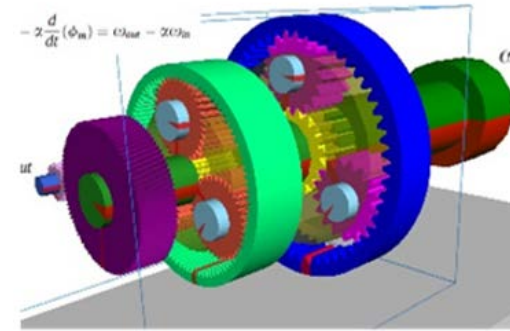
SINTEF Materials and Chemistry
Jens.K.Jorgensen@sintef.no

WP B – Operation & Maintenance and Materials

Maintenance strategies

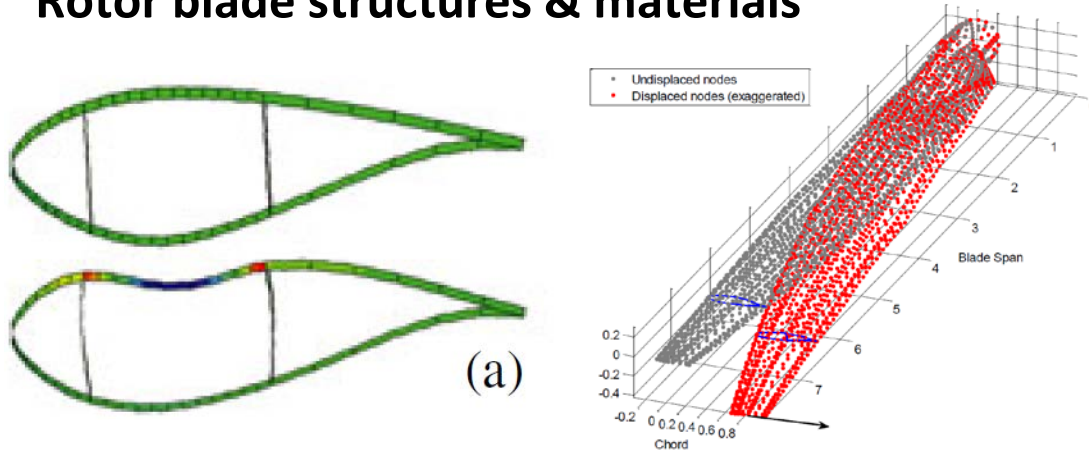


Surveillance and condition monitoring



O&M

Rotor blade structures & materials



New coatings for better performance

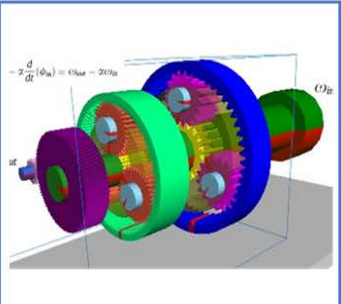


Reinforced polyurethane

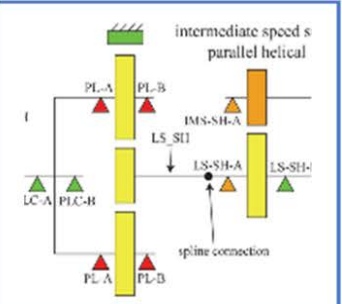


Materials

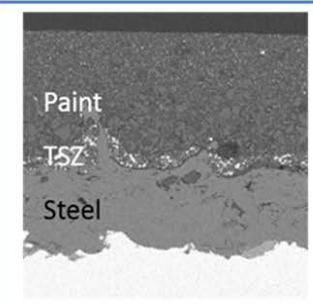
O&M and Materials - Innovations



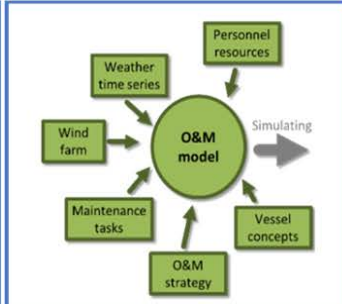
Gearbox fault detection
TRL3



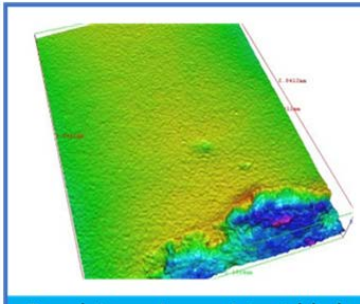
Gearbox vulnerability map
TRL3



Dual layer corrosion protection coatings
TRL5



NOWIcob
TRL6



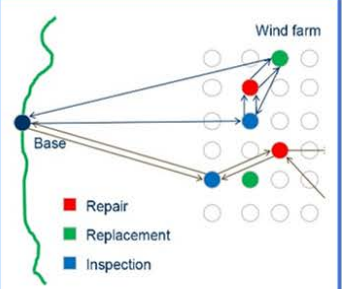
Droplet erosion resistant blade coatings
TRL3



Droplet erosion testing
TRL5



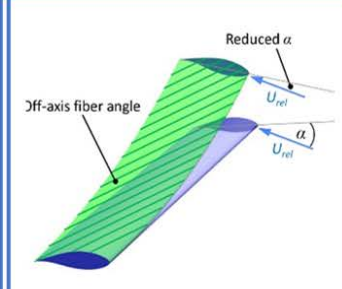
Remote Presence
TRL5



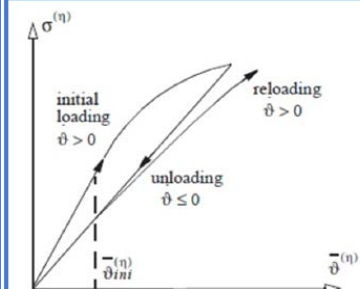
Routing and scheduling
TRL2



Thermally sprayed SiC coatings
TRL5



Buckling resistant blades
TRL3



Fatigue damage simulation
TRL4



Fleet optimization
TRL5