

# Acceleration of Offshore Renewable Energy in Ireland

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## Offshore observation

- sea surface state (wave radar)
- sub-sea surface currents
- high-resolution bathymetric data
- seabed video and physical sampling



Mobile and Marine  
Robotics Research  
Centre, UL



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## Hydrodynamic modelling

- calibrated, high-fidelity, high speed 3D modelling
- optimum design of device-specific arrays
- mechanical models for offshore structures
- data monitoring and forecast for device

control  
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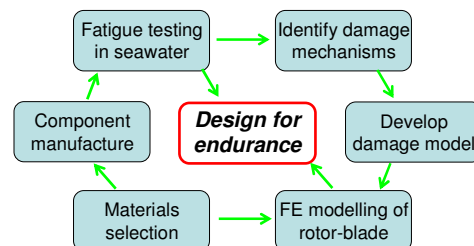
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## Mechanical Engineering

- materials for tidal energy
- static and fatigue design
- fretting and corrosion
- scaling-up offshore wind

ÉIRECOMPOSITES

openhydro  
tidal technology



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