

Update on MaREI Research Programme

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MRIA Conference, Dublin, February 7th 2014



Marine Renewable Energy Ireland



Total Budget € 25m / 2013-2019

**5 Universities
SFI &
45 companies
MNCs and SMEs**



UNIVERSITY of LIMERICK
OLLSCOIL LUIMNIGH

**Working together
to secure Ireland's
position as
a global leader in
Marine Renewable
Energy**

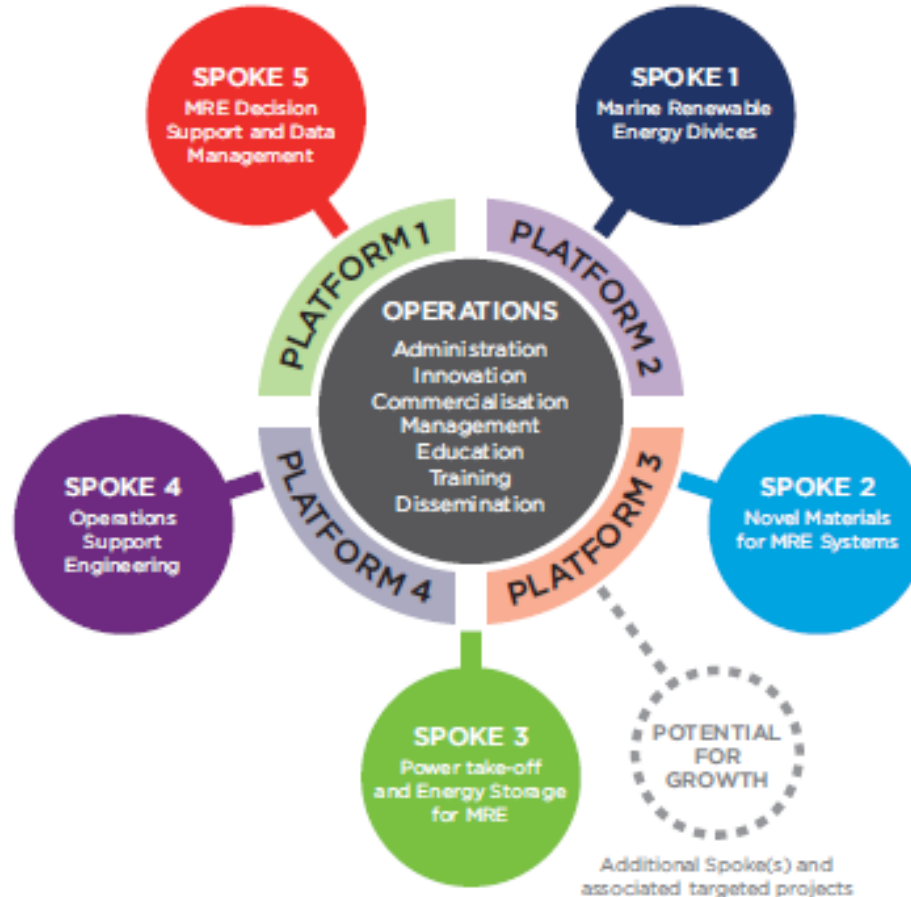
MaREI Research Programme

Platform Projects

- **P1** Wave Energy Device Design Innovation and Optimisation
- **P2** Marine Electro-gas
- **P3** Marine Renewable Energy Informatics Tools
- **P4** Cost Reduction for Marine Renewable Energy

Spoke Projects

- **S1** Marine Renewable Energy devices
- **S2** Novel Materials for MRE systems
- **S3** Power take-off and energy storage for MRE
- **S4** Operations support engineering
- **S5** MRE decision support and data management



Spoke Projects co-funded with industry
45 MNCs and SMEs

Platform and operations funded
100% by SFI

More companies can join:

Annual Spokes Programme

Rolling Spokes Programme

Lightweight Composite Materials



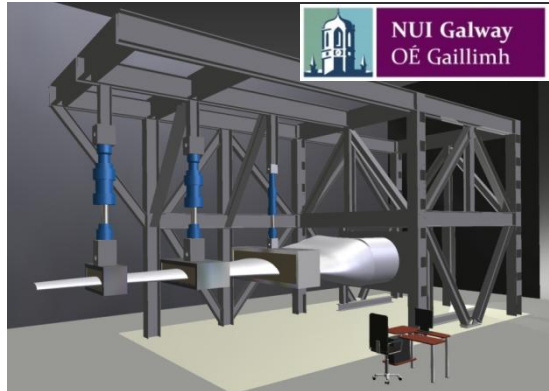
Materials testing



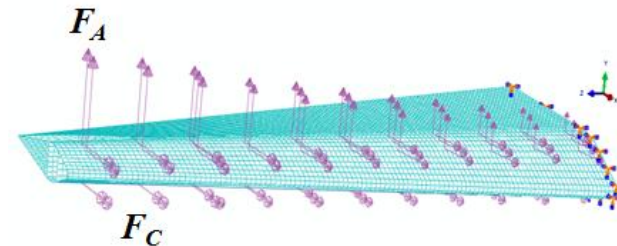
Aerospace manufacturing



13.0m wind blade manufacture



Tidal blade testing



Finite Element analysis and design

Beaufort Research – Marine and Energy

Tank Testing and
Device Design

Wind Energy
Forecasting

Resource
Assessment &
Environmental
Impact

Physical Processes &
Seabed Mapping

Renewable Energy
Storage

Applied Remote
Sensing and GIS

Biofuels

Unique Resource and Facilities 135 Researchers

Structural Design &
Testing

Novel Materials
Low-Cost Composites

Coastal Governance

Marine Ecology

Power Take Off
Systems & Control
Optimisation

Micro-Grids

Decision Support &
Data Management

Geomatics

Energy for Transport

River & Coastal
Engineering

Policy and Planning



Beaufort Laboratory, ETA Spring 2015



5,000m²

National Ocean Test Facility

€15.0m investment



UCC

Coláiste na hOllscoile Corcaigh, Éire
University College Cork, Ireland



MaREI

Marine Renewable
Energy Ireland



**BEAUFORT
RESEARCH**

Beaufort Laboratory, February 2014

Ringaskiddy Co. Cork - IMERC Campus



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