



# Making Offshore Renewables Pay

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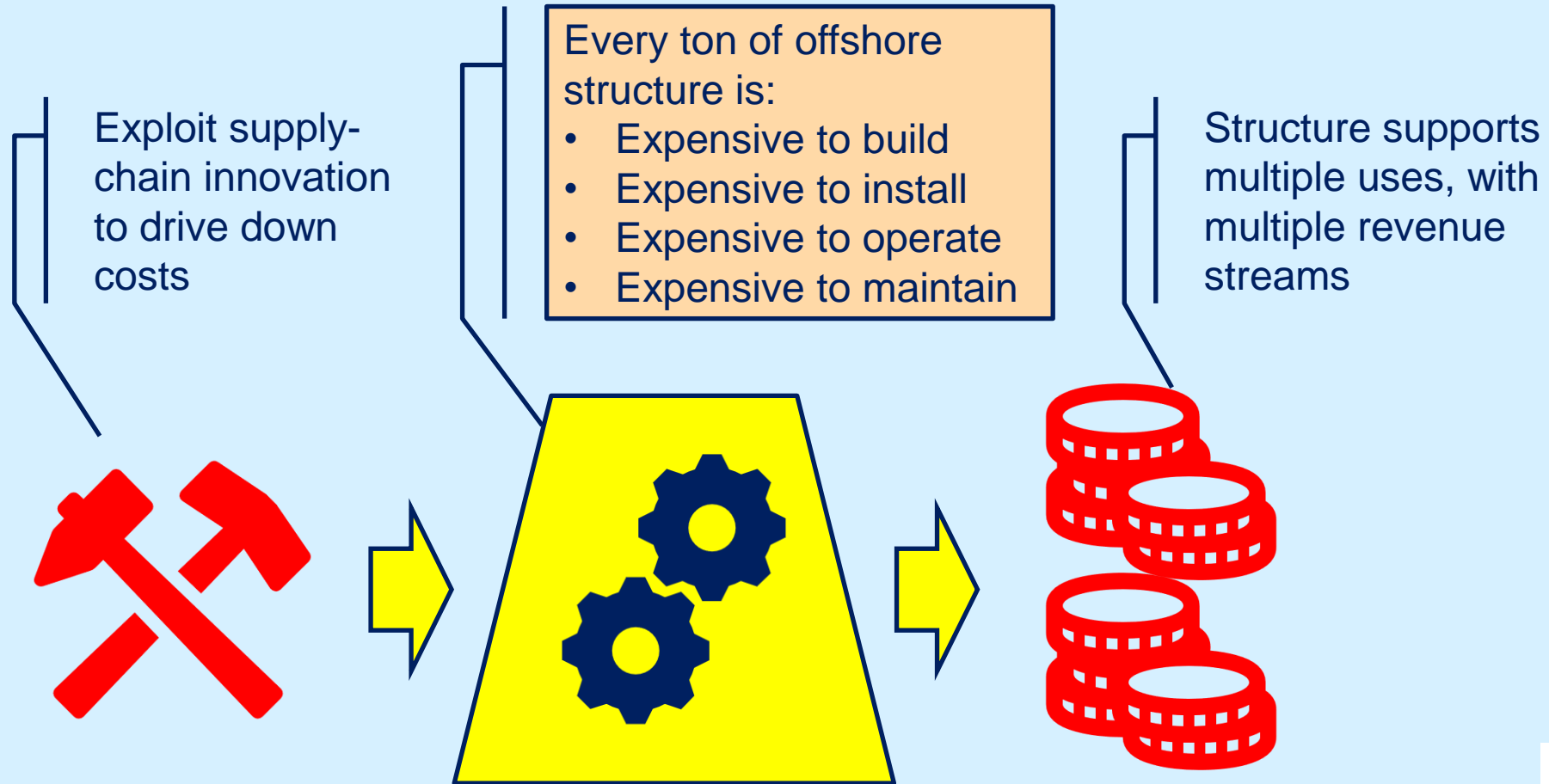


Innovate UK



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# Sweating Offshore Assets



# Low-cost Anchoring

- Most scope for cost reduction in marine renewables lies in:
    - Foundations
    - Installation
    - O&M
- ➔
- **High cost of marine operations in offshore environment**

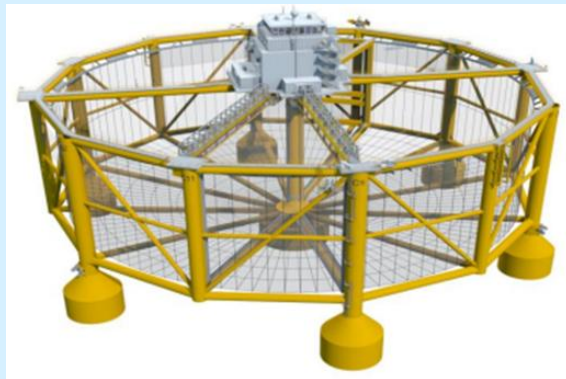


- Screw anchors as an alternative to piles and drag embedment anchors
  - Avoids use of specialist vessels and waiting-on-weather costs

# Wind Energy & Aquaculture



- Single structure supporting both wind turbine and aquaculture facility?
  - What are synergies?
  - What are potential conflicts?
  - What business model?

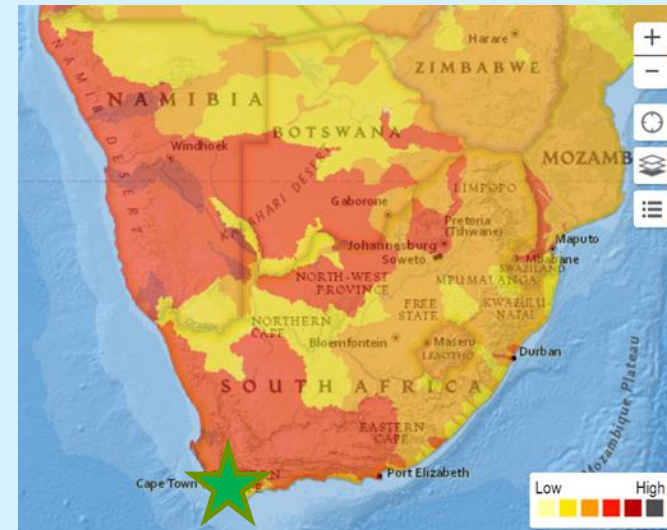


# OPEC Feasibility Stage



- Specification & prelim. engineering of a wind + aquaculture floating platform
  - Cost analysis to quantify benefit
- Deployment initially in less-developed regions
  - SIDS or sites with weak grid
  - High present energy cost
  - Depleted fisheries

- Pilot: Hermanus Bay, S Africa
  - Combined energy resources and abalone aquaculture



Marine South East:

*“Mobilising investment in innovation and capacity-  
building across the Blue Economy”*

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