



# ECOWind

## Supergen



Offshore  
Renewable  
Energy

Annual Assembly, July 12<sup>th</sup> 2023

# ECOWind Champions



Dickon Howell



Henk van Rein



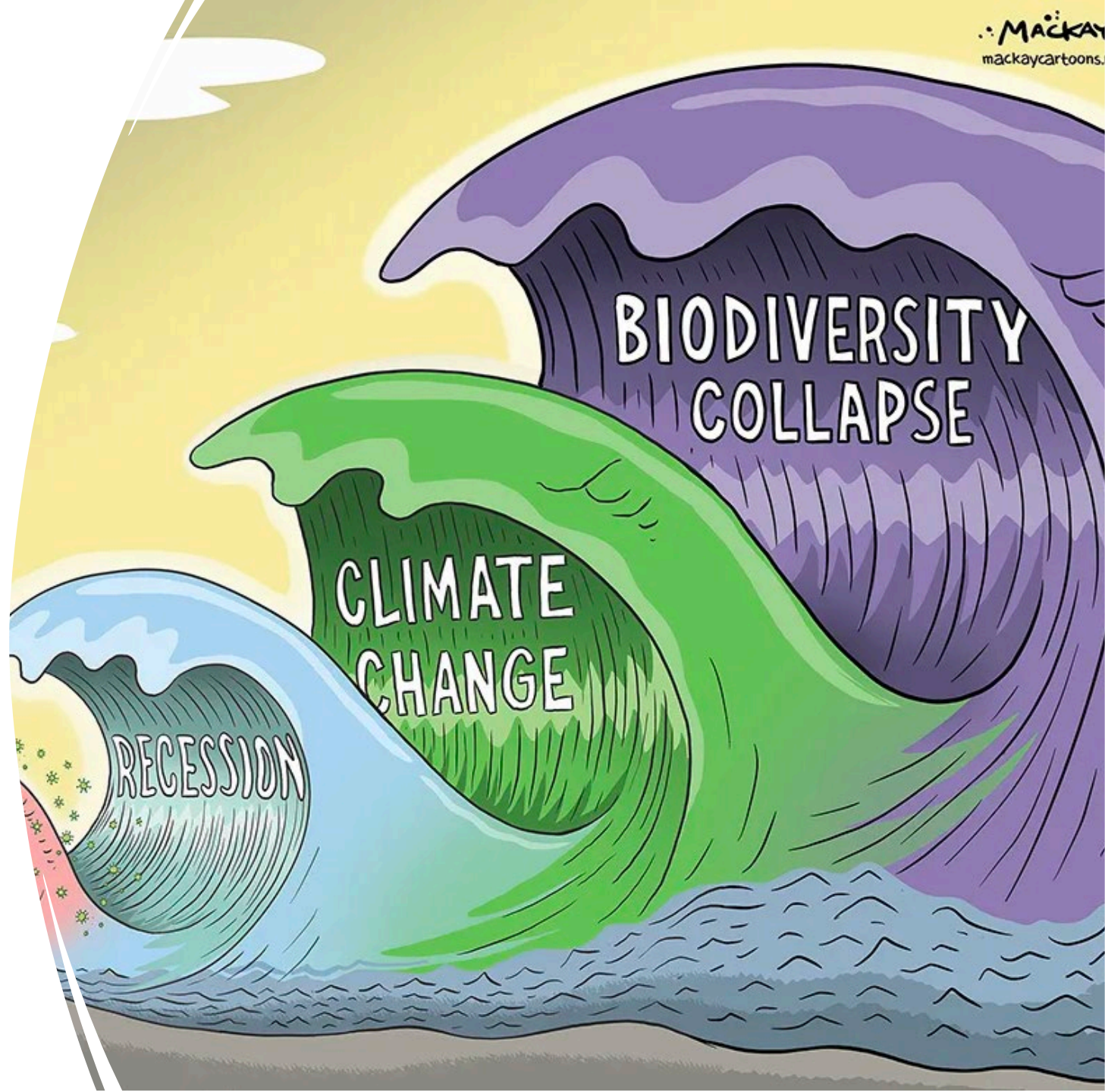
Hayley Hinchin



Kimberley Lloyd

## Why ECOWind...?

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# The Ecological Consequences of Offshore Wind

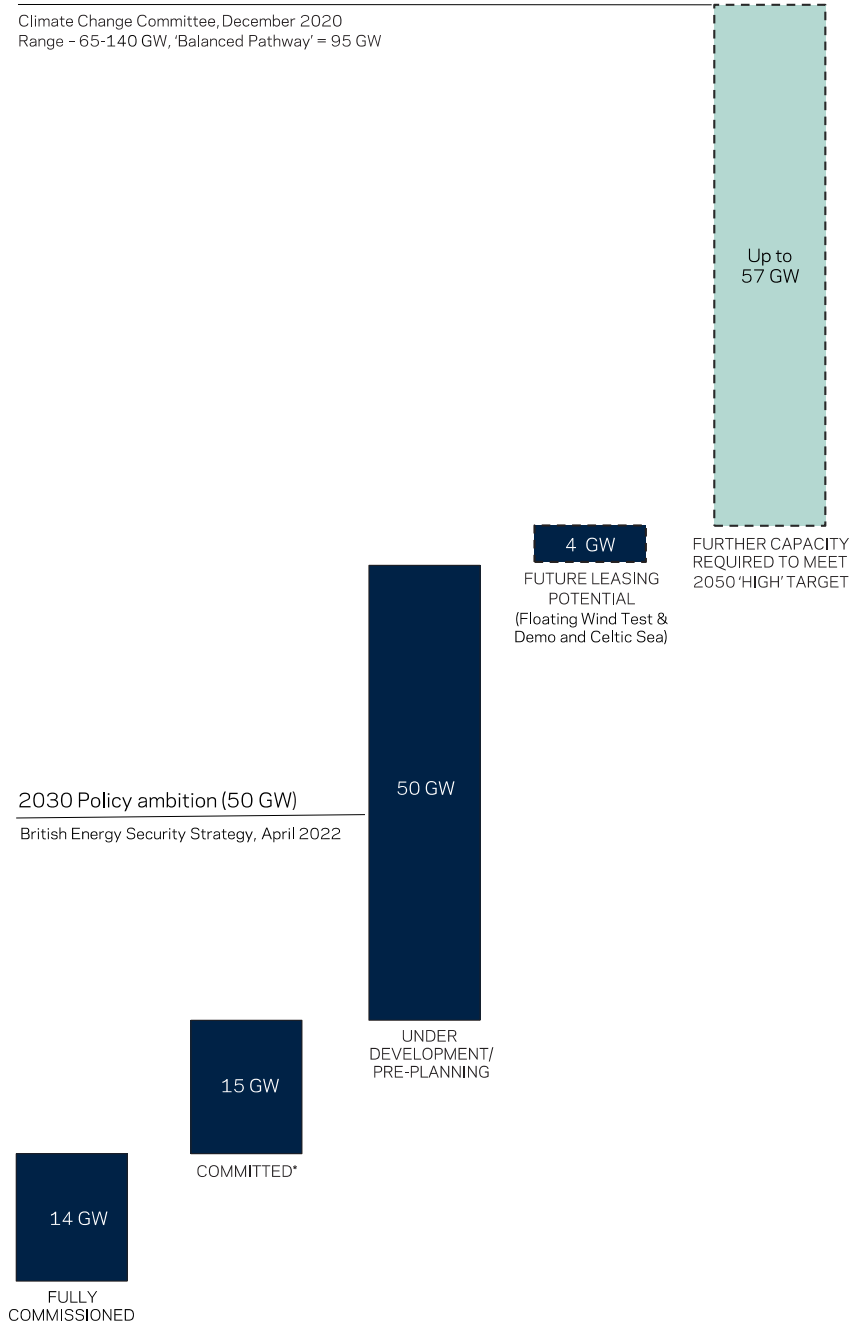
ECOWind's research aims to understand how OWFs affect ecosystems, and the species and habitats that make them...

and by better understanding this to influence the development of policies to better manage our marine environment...

...while also tackling climate change

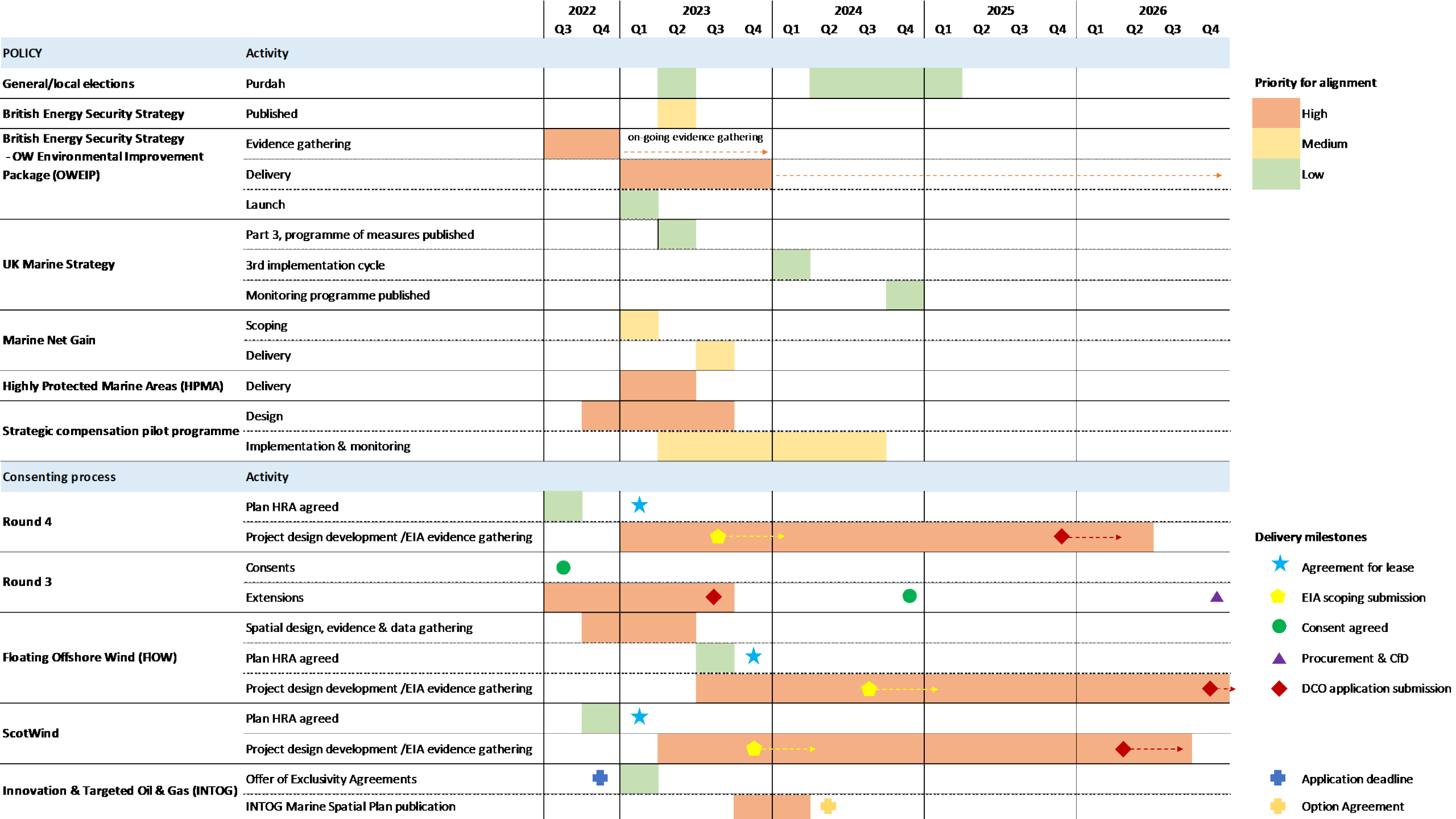
2050 Net Zero scenarios (up to 140 GW)

Climate Change Committee, December 2020  
 Range - 65-140 GW, 'Balanced Pathway' = 95 GW



- 2030
  - Good Environmental Status achieved (currently 4/15 indicators)
  - 30% of UK waters designated and well managed
- 2025
  - Marine Net Gain launched in England
- 2024
  - Marine Recovery Fund Launched
- 2023
  - Highly Protected Marine Areas designated
  - Strategic Compensation Mechanism agreed

\* Projects under construction or that have government support on offer e.g. Contract for Difference OR taken FID



# ECOWind Programme

To understand how fixed offshore wind expansion, combined with other anthropogenic pressures, affects species interactions and marine ecosystems to enable robust approaches to marine environmental restoration and net environmental gain

## ECOWINGS

Ecosystem change,  
offshore wind, marine  
net gain & seabirds

Francis Daunt, UK Centre  
for Ecology & Hydrology

## ACCELERATE

Ecological implications of  
accelerated seabed  
mobility around  
windfarms

Katrien Van Landeghem,  
Bangor University

## PELAgIO

Physics to ecosystem  
level assessment of  
impacts of offshore  
windfarms

Beth Scott, University of  
Aberdeen

## BOWIE

Sustainable expansion of  
offshore wind while  
protecting benthic  
biodiversity & functional  
value

Martin Solan,  
Southampton University



# What is impact?

## UKRI

Academic impact is the demonstrable contribution that excellent research makes to scientific advances, across and within disciplines, including significant advances in understanding, method, theory and application.

Economic and societal impact is the demonstrable contribution that excellent research makes to society and the economy, of benefit to individuals, organisations and nations.

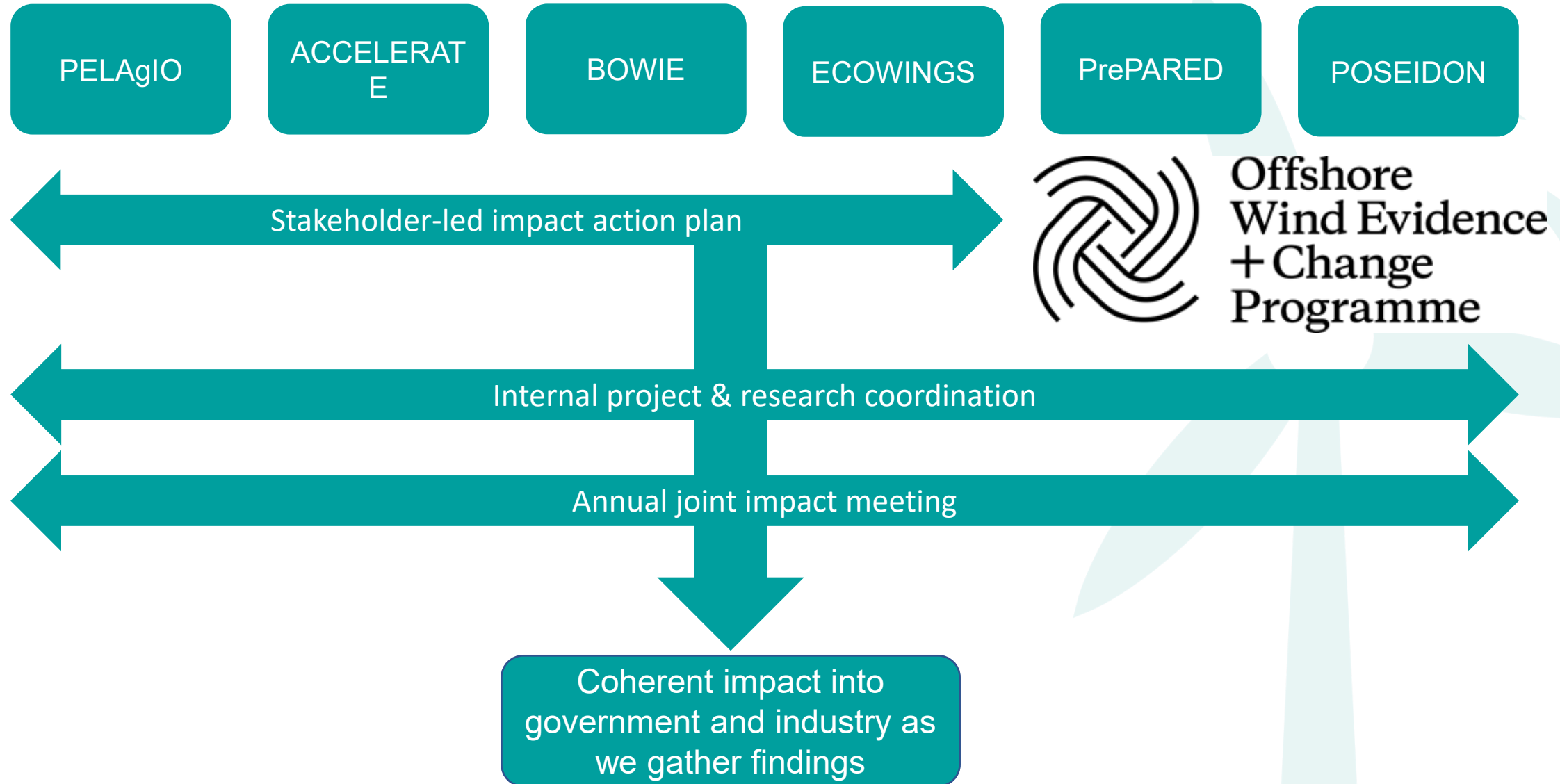
## Government

Impact is shown by research that can contribute to decision making and enable the development and delivery of government policy outcomes

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# Delivering a coherent programme



**ECOWind can understand  
ecological impacts &  
trade-offs...**

**But can we engineer  
differently to  
avoid compensating?**





# ECOWind

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