

OFFSHORE WIND CENTRE OF EXCELLENCE

BUSINESS CASE AND OPPORTUNITIES APPRAISAL INTERIM FINDINGS

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BACKGROUND

- Cape Breton Strait MIT REAP
- UK Offshore Renewable Energy Catapult
- Funding
- Project Steering Committee
- Competitive tendering



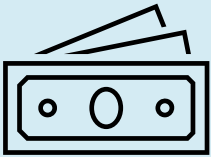
SCOPE



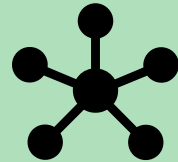
Governance Mechanism



Asset Identification



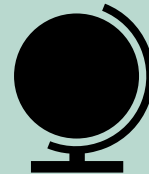
Funding Model



Networking and Inter-Play



Research/Program Priorities



Strategic Partnerships



Location Priorities and Considerations



Project Timeline

METHODOLOGY

1

Desktop Research

- Jurisdictional Scan
 - a) Governance structures
 - b) Funding mechanisms
 - c) Research priorities and focus areas
 - d) Region needs, strengths and challenges faced by CoEs

2

First-hand Research

- Digital stakeholder engagement workshops
 - a) Government, Academia/Research, Indigenous, Industry
- In-person fisheries workshops
- One-on-one interviews (virtual and in-person)
- Project Steering Committee Workshop

3

Analysis

- Grounded theory approach
- Inductive reasoning
- Thematic analysis

4

Report writing and sense checking

- Draft iterations
- Feedback sessions with Steering Committee and other stakeholders

ENGAGEMENT

Acadia University
Atlantic Canada Opportunities Agency
Atlantica Energy
Bear Head Energy
Canadian Coast Guard College
Cape Breton Partnership
Cape Breton University
CBNA Construction
CNSOER
COVE
Dalhousie University
DP Energy
Envigour
Eskasoni First Nation
FORCE
Invest Nova Scotia
Kwilmu'kw Maw-Klusuaqn
Marine Renewables Canada
Municipality of the County of Richmond
Municipality of the District of Guysborough
NEMOEC

Novaport
Nova Scotia Community College
Nova Scotia Fisheries Alliance for Energy Engagement
Nova Scotia Power
Nova Scotia Department of Natural Resources and Renewables
Port of Sydney
Potlotek First Nation
Reventus Power
SBM Offshore
Simply Blue Group
St. Francis Xavier University
Strait Area Chamber of Commerce
Strait of Canso Superport Corporation
Town of Port Hawkesbury
Universite Sainte Anne
Verschuren Centre
Wind Energy Institute of Canada

DETERMINANTS OF A SUCCESSFUL OSW COE

FINDINGS



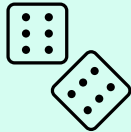
Pillars and
Collaboration



Economic
Considerations



Community
Engagement
and Local
Benefits



Government
and Industry
Interplay



Environmental
Stewardship



Market Demand

AREAS OF FOCUS

**Research
Hub**

RECOMMENDATIONS

**Innovation
Catalyst**

RESEARCH HUB

AREAS OF FOCUS

RECOMMENDATIONS

1

Economic Innovation

- Sustainable development models
- Market integration needs
- Risk mitigation

What options are there for alternative offtake of OSW power and how are these models viable?

2

Environmental Stewardship

- Resilient infrastructure
- Alignment with global environmental standards
- Environmentally responsible OSW development

What OSW technologies are best suited for the Atlantic Canada environment?

How can we ensure that the environment is left unharmed?

What challenges or impacts will be faced moving forward with regard to ecological offsetting?

3

Social Integration

- Community engagement
- Workforce development
- Co-design

How will workforce development be developed moving forward and how will industry ensure that employment is sourced locally?

How can communities in Atlantic Canada benefit from OSW through shared ownership or community benefit models?

RESEARCH HUB OPERATIONS

- Diverse network of researchers and research organizations
- Industry, communities and government identify challenges needing addressed
- Coordinated approach to addressing challenges
 - Reduce barriers to development
 - Improve development timelines
 - Improve economic, financial and social returns on projects
 - Safeguard the environment
- Initial focus on NS but opportunity to grow a larger network

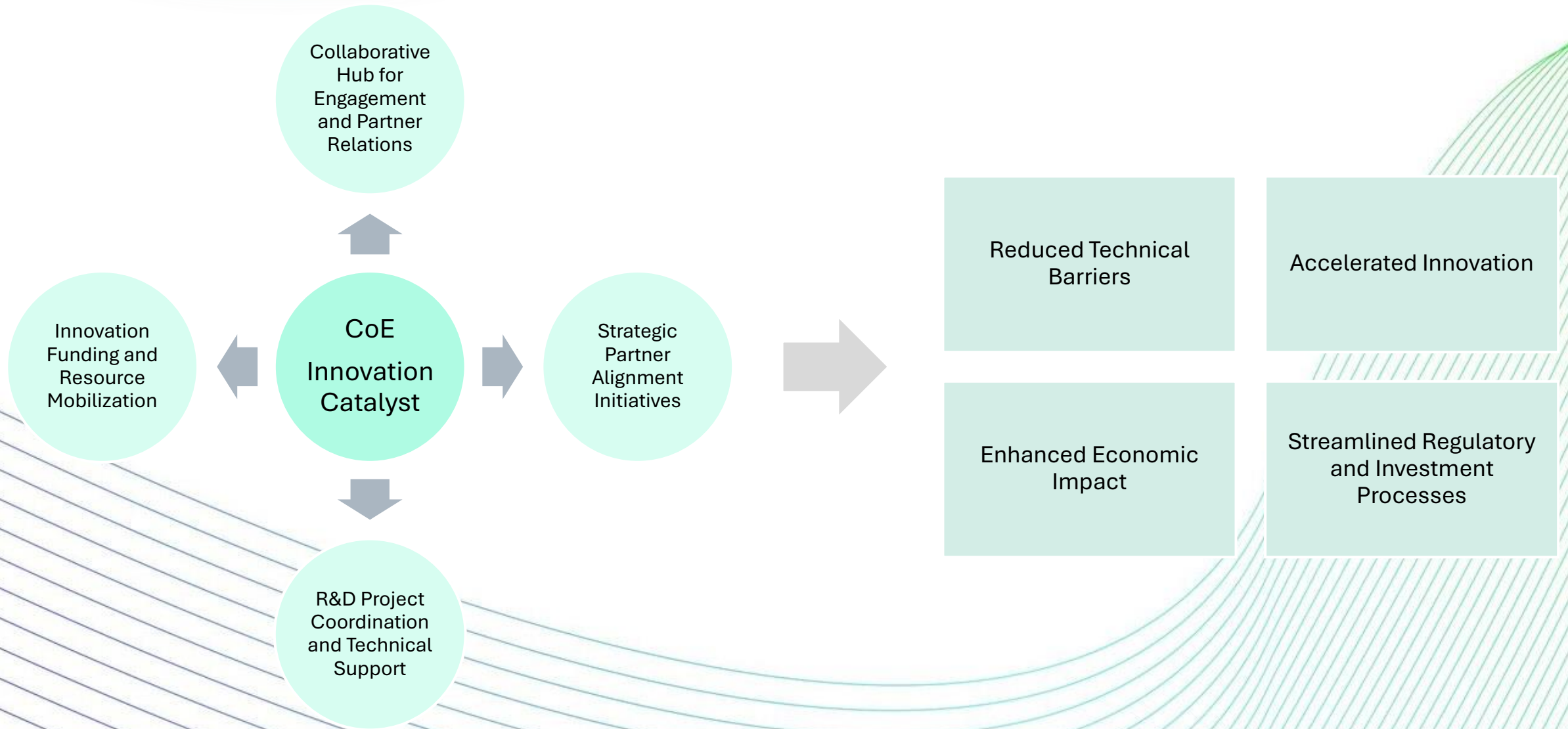


RECOMMENDATIONS



INNOVATION CATALYST

RECOMMENDATIONS



PROPOSED INITIAL PROJECTS

RECOMMENDATIONS

- 1. Regulatory roadmap given Bill C-49 and how to navigate the Canadian market
(Innovation Catalyst)**
- 2. Research into alternative offtake and the interplay with the hydrogen industry
(Research Hub)**
- 3. Research with Fisheries organizations to identify how OSW may impact the established
industry and models of coexistence
(Research Hub)**

GOVERNANCE

RECOMMENDATIONS

Standalone entity model

- Fully tailored to OSW priorities
- Autonomous
- Flexible
- Comprehensive operational framework
- Substantial initial investment

Hosted by existing organization

- Likely aligning CoE goals with those of host organization
- Less flexibility
- Leveraging existing 'infrastructure'
- Benefits from existing organization's reputation and credibility
- Lower costs

NEXT STEPS

- 1. Project Steering Committee review of 1st Draft**
 - November 2024
- 2. Consulted Stakeholders review of 2nd Draft**
 - December 2024 / January 2025
- 3. Project Steering Committee and Key Stakeholders review of Final Draft**
 - January 2025
- 4. Publication**
 - February 2025

CONTACTS

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