



# HFC Canada:

*A Human Factors Network for Knowledge Mobilization and Collaboration Amongst Canadian Offshore Energy and Maritime Stakeholders*

Steven Mallam, PhD  
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DNV, Høvik, Norway  
24/03/2024

**Who are you?**

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**Where are you located?**

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**Why should we care?**



Greenland

Iceland

Reykjavik

Sweden

Norway

Oslo

Stockholm

Labrador Sea

North Sea

Denmark

United Kingdom

Dublin

Ireland

London

Netherlands

Berlin

Poland

Germany

Belgium

Paris

Prague

Slovakia

Vienna

Austria

Hungary

France

Croatia

Italy

Rome

Portugal

Madrid

Spain

Lisbon

Algiers

Tunis

NEWFOUNDLAND AND LABRADOR

QUEBEC

Gulf of St. Lawrence

Ottawa

Montreal

NB

PE

MAINE

NOVA SCOTIA

Boston

NEW YORK

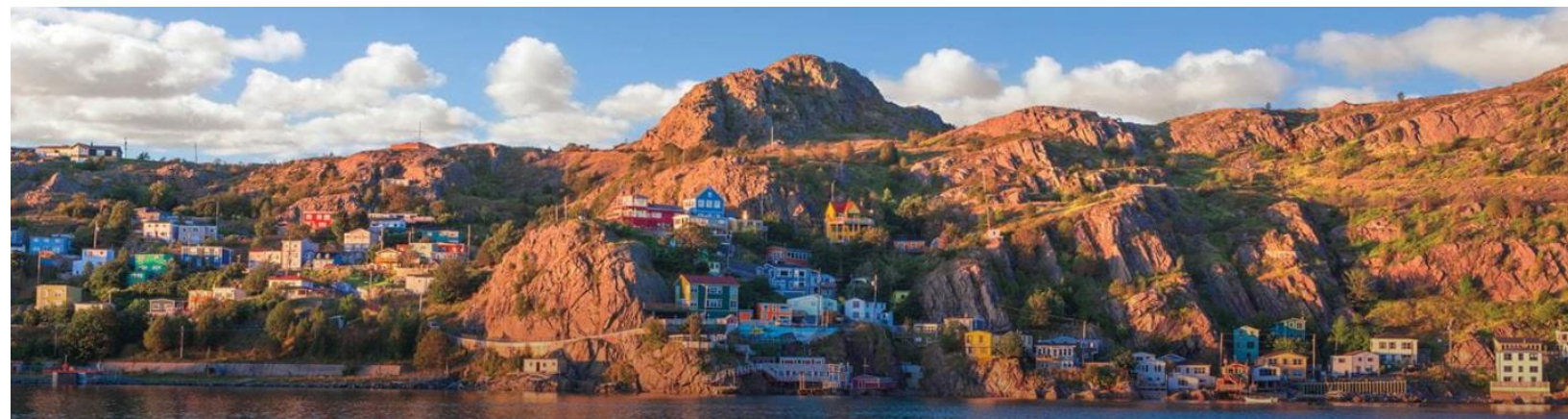
New York

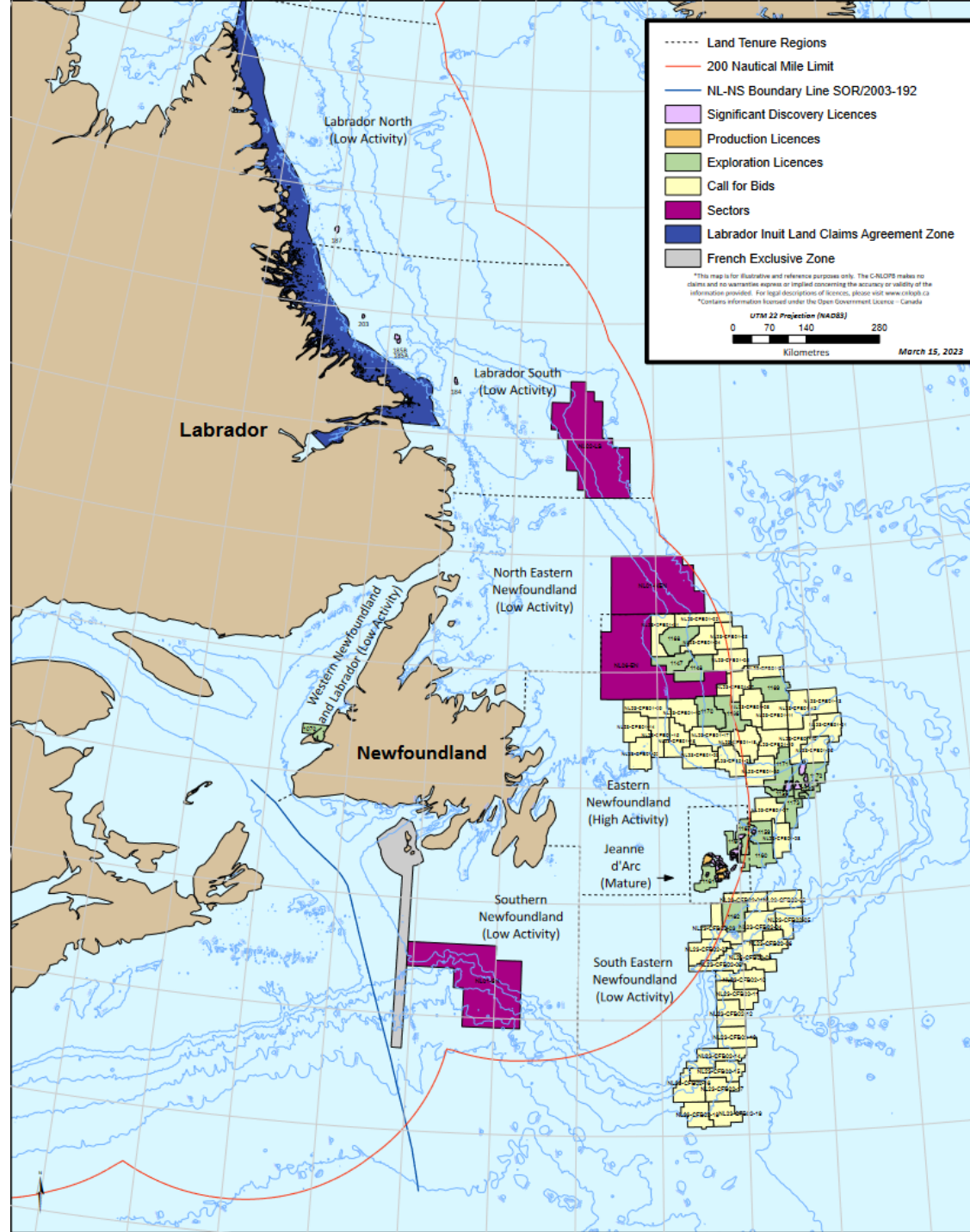
Washington

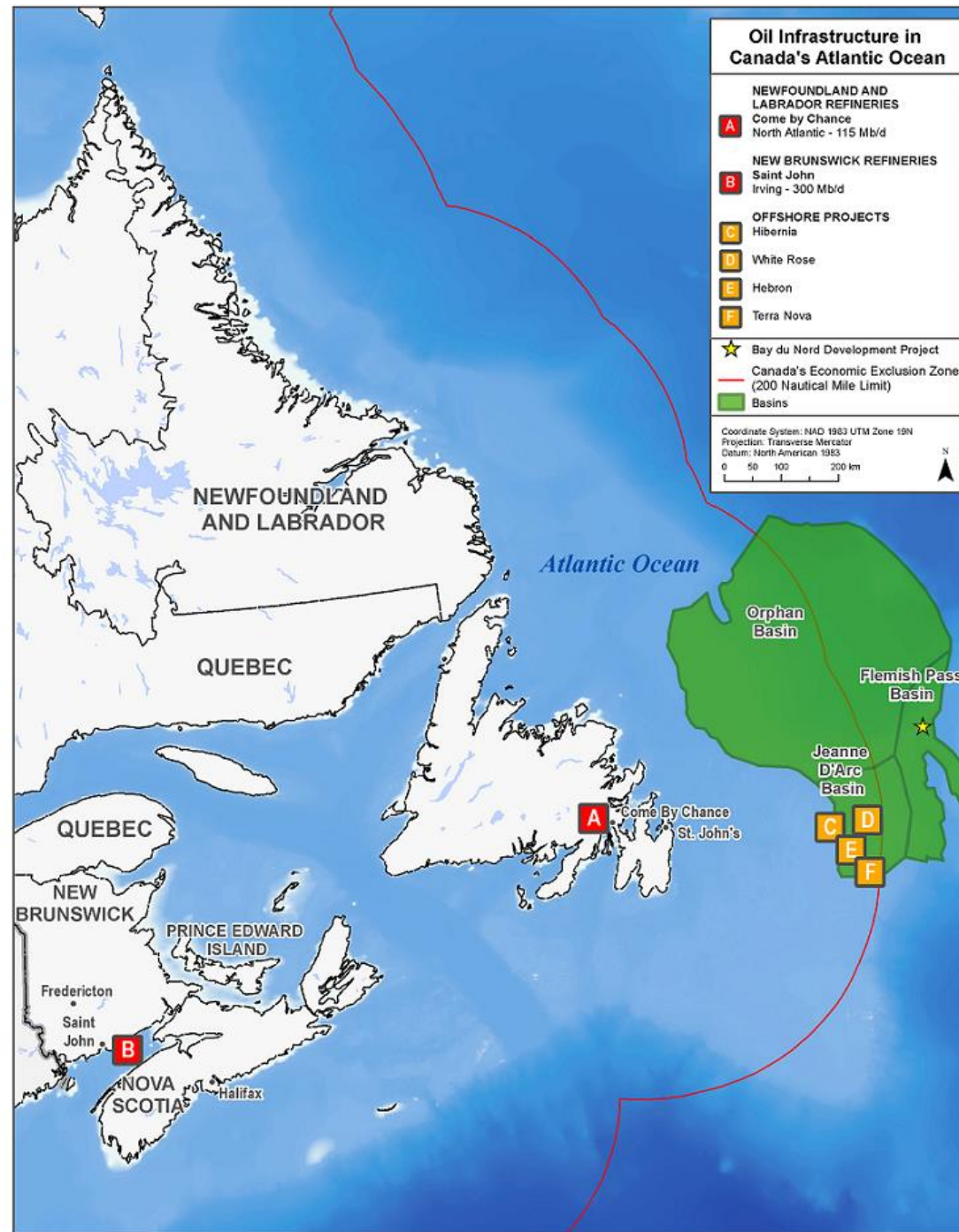
Tyrrhenian Sea

Gulf of Bothnia

Baltic S







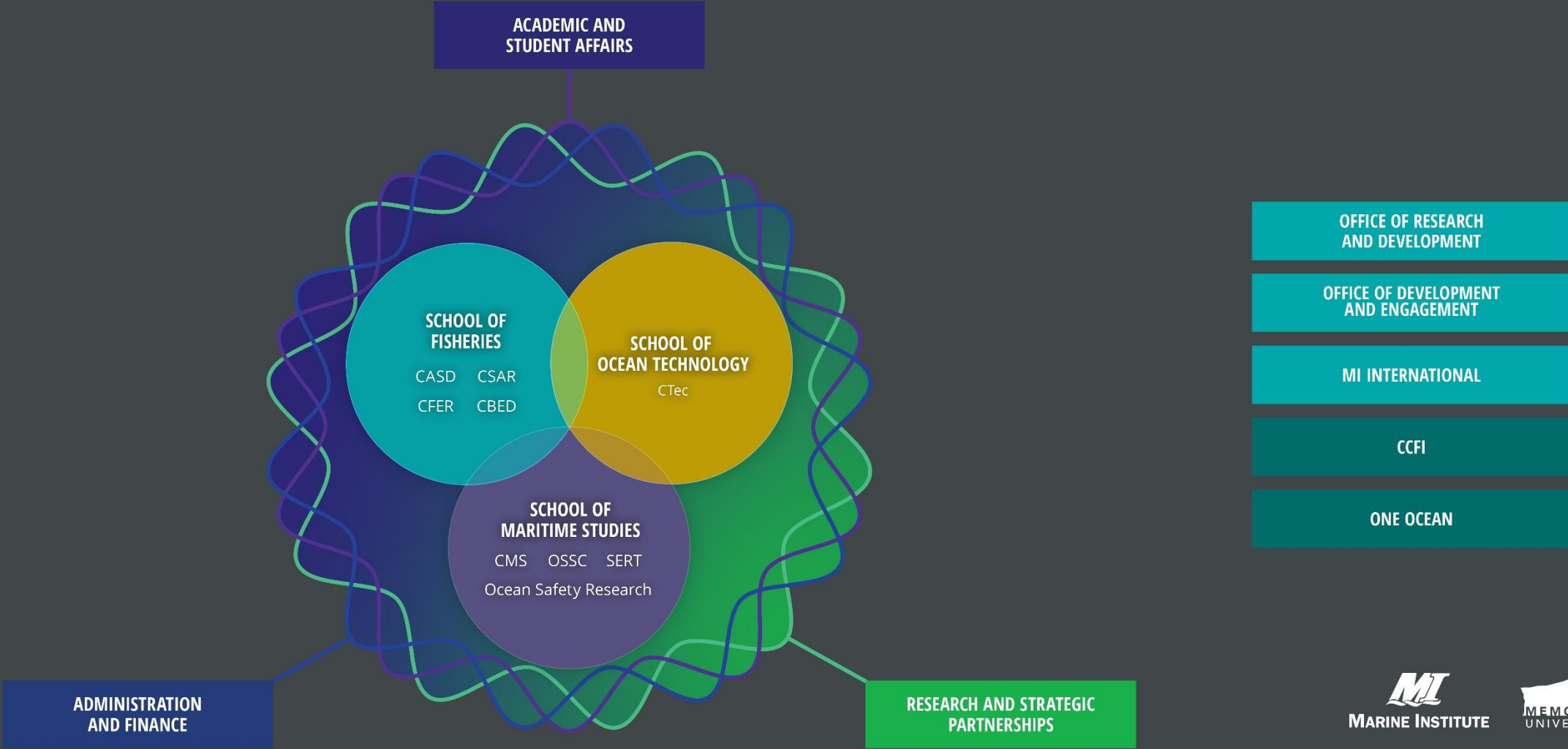
Map produced by the NEB, February 2019. The map is a graphical representation intended for general informational purposes only.



**MARINE INSTITUTE**



# OUR STRUCTURE





# MI LOCATIONS



ST. JOHN'S

MARINE INSTITUTE CAMPUS



FOXTRAP

OFFSHORE SAFETY AND SURVIVAL CENTRE



HOLYROOD

HOLYROOD MARINE BASE



STEPHENVILLE

SAFETY & EMERGENCY RESPONSE TRAINING CENTRE



ST. JOHN'S

MT. SCIO BY-PRODUCTS FACILITY



LEWISPORTE

LEWISPORTE REGIONAL MARINE AND FISHERIES CENTRE



**Problem... Opportunity...**

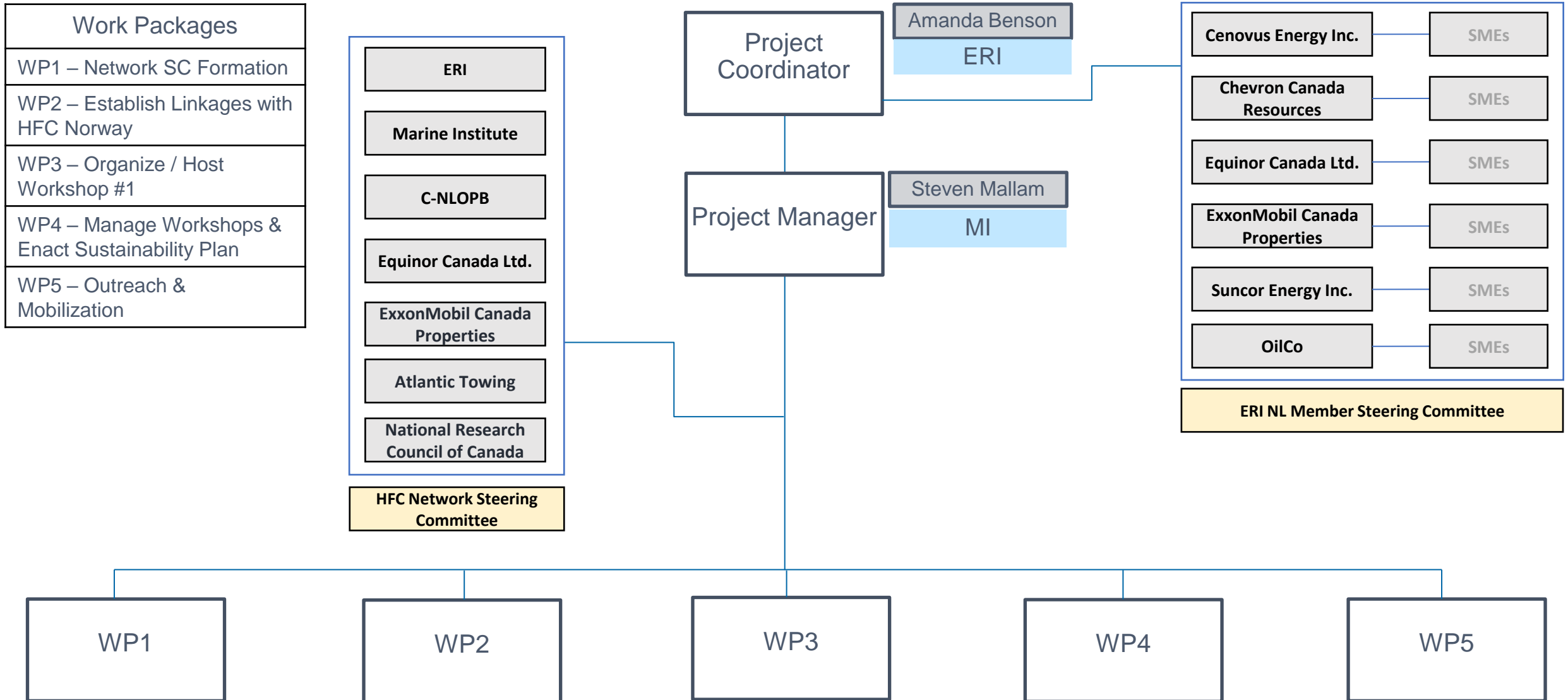
**Un(der)tapped...  
...Potential,  
...Utilization,  
...Collaboration**

# HFC Canada Project (Network) Objectives

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- Enhance safety and optimize human performance within Newfoundland and Labrador's (NL) energy, maritime, and technology sectors:
  - by establishing a knowledge sharing platform among key stakeholders including academia, industry, and policy makers.
- Through biannual seminars and workshops, the platform will foster dialogue and collaboration among local, national, and international stakeholders, initially focusing on NL and Atlantic Canada.
  - Success relies on securing buy-in and engagement from the local and regional stakeholder community, with national and international involvement enhancing impact.

# HFC Network Organization Chart



# HFC Canada Network Structure

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- **The Focus:**

- NL's vital sectors: energy, maritime, technology.
- Human Factors, Human Performance and safety in complex systems.

- **Current Landscape:**

- Strong Human Factors research presence at Marine Institute.
- Collaboration with local and international partners.
- Human Factors and Safety graduate programs at MI (Master's and PhD Level)

- **Objective:**

- Create a knowledge-sharing and collaboration platform for offshore energy and maritime stakeholders
  - What makes this different???

- **Approach:**

- Multidisciplinary workshops, biannual seminars.
- Phased approach: local buy-in, then national/international expansion.
  - Planned and unplanned offshoots

- **Stakeholders:**

- Industry, policy makers, academia, public actors

- **Conclusion:**

- Local stakeholder focus - with potential for broader impact.
- Offshore and maritime focus - with broader impact/appeal/relevance

# Expected Outcomes

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- **Establishment and Growth of HFC Canada Network**
  - Robust platform for knowledge sharing and collaboration.
  - Focus on NL's energy, maritime, and technology sectors.
  - Partnerships between academia, industry, and policymakers.
  
- **Advancements in Human Factors Research and Practical Application**
  - Drive innovations in human factors and system safety methodologies.
  - Relevant to offshore and maritime operations.
  - Improvements in competency in local environment
    - Training current and next generation HF professionals
  
- **Biannual Seminars and Workshops**
  - Facilitate exchange of best practices and research insights.
  - Enhance safety and resilience of Canada's ocean industries.
  - Sustainability and long(er) term initiatives
  
- **Local Engagement, National and International Participation**
  - Inform industry regulations and align technical standards.
  - Drive investment in human factors research.
  - Support transition to digitalized, remote, and autonomous operations.

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# HFC Canada Sustainability (Beyond 2027...)

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# HFC Norway... Møt HFC Canada

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# Human Factors Canada Network (HFC)

- Aims to enhance safety and optimize human performance within NL's energy, maritime, and technology sectors by establishing a knowledge sharing platform among key stakeholders
  - Academia, industry, policy makers, public at large
- Biannual events held in St. John's Metro region and online
  - Local, national, international speakers
  - Free attendance
- Notable Deliverables
  - Human Factors Training; Human Factors Training Handbook
- First event – Fall 2024, followed biannually

