New Models for Innovation to Grow a Low Carbon Blue Economy

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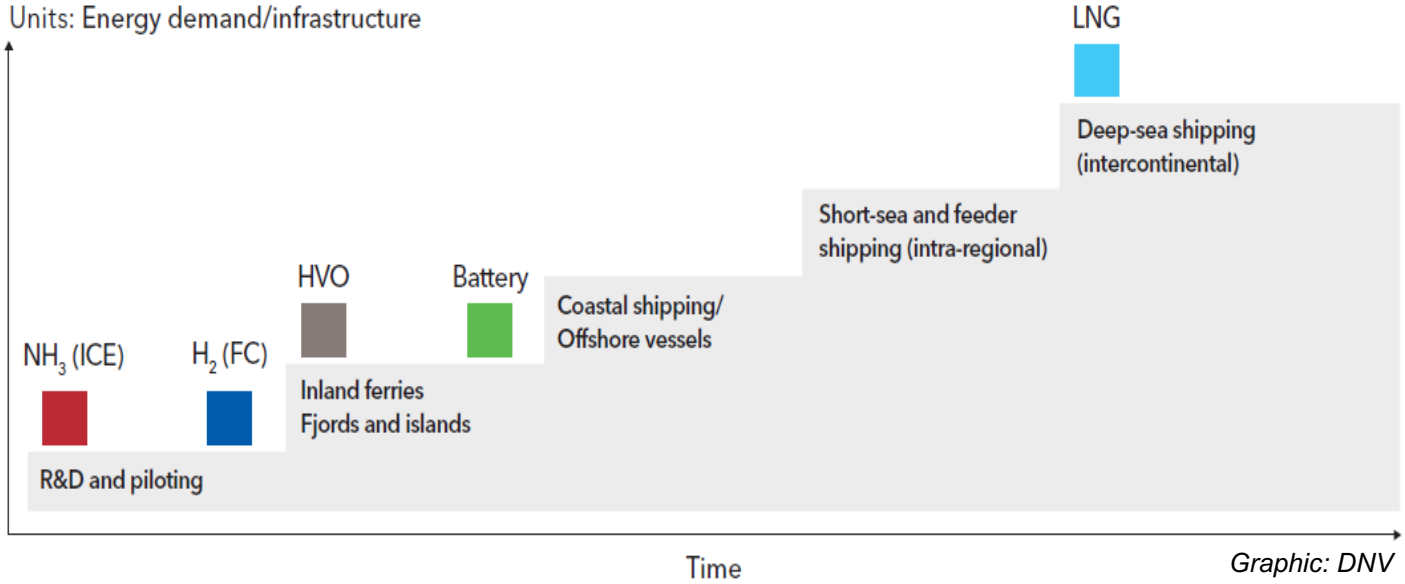
Agenda

- The Maritime Decarbonization Challenge
- The Innovation Cluster Model
- Strategic Initiatives
- Joint Innovation Projects
- Funding the Innovation Ecosystem

Maritime Decarbonization – A Systems Challenge

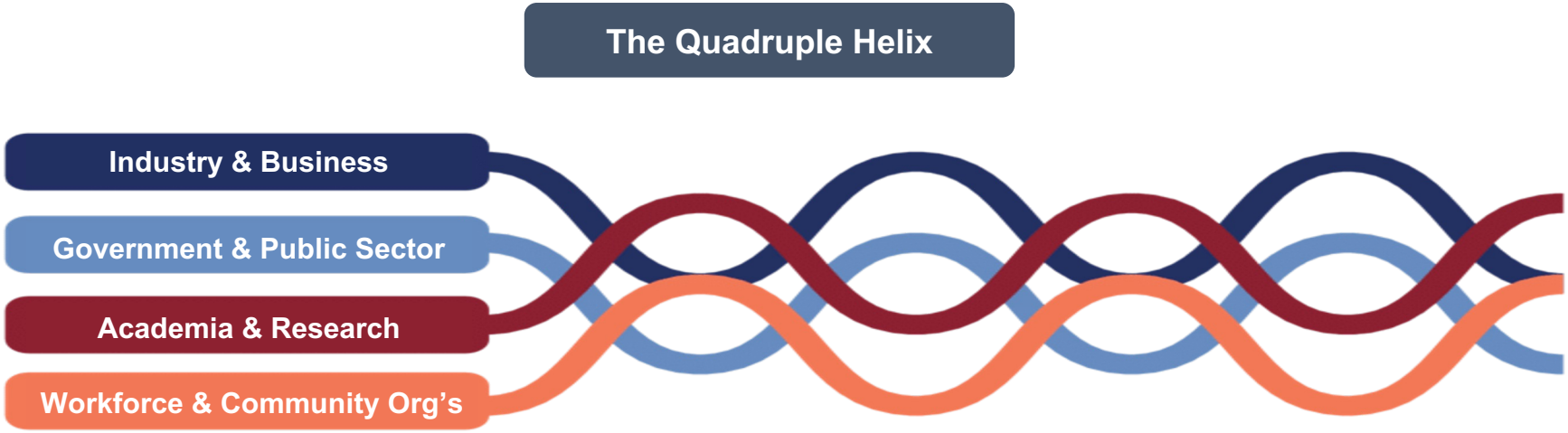
- Global shipping emissions account for nearly 3% of total human-caused GHG emissions
- IMO has set a goal of 50% reduction of CO2 emissions by 2050.
- Vessels that will operate in 2050 are being built now
- There is no ”one-size fits all” fuel solution



Graphic: DNV

The Innovation Cluster Model

Formal Ocean/Maritime Clusters have emerged as organizational entities that enhance competitiveness and collaboration. To ensure accountability and implementation we spun out an independent, nonprofit, Cluster Organization charged to Implement the State's strategy – using the "Quadruple Helix" approach.

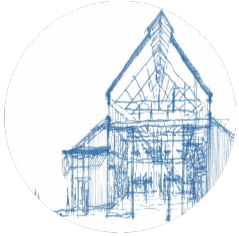


Our Scope of Work

Blue Ventures
Supporting Entrepreneurship and Capital Investment

Quiet Sound
Reducing Noise Impacts on Southern Resident Orcas

Equity Engagement
Career Connected Workforce and Employer Development

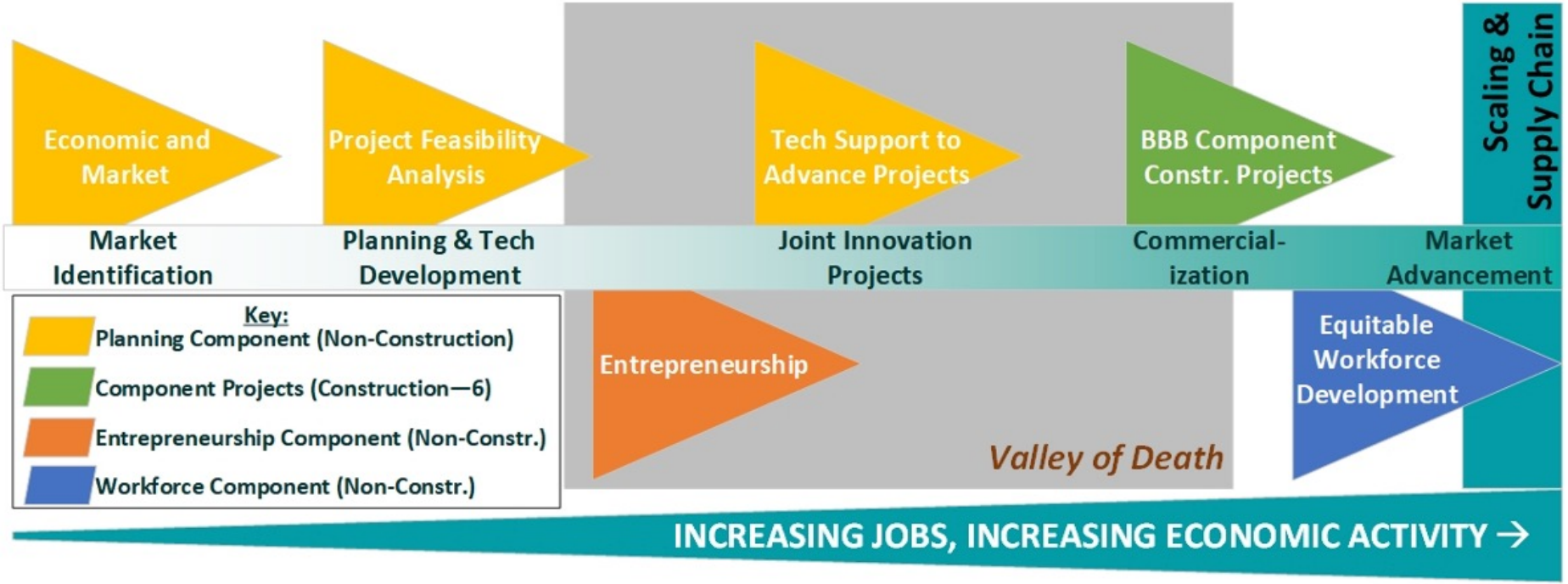


Blue Hub
Home for Collaboration and Business Development

Strategic Initiatives
Knowledge Sharing and Leadership Coordination

Joint Innovation
Collaborative Mechanisms for Demonstration Projects

Strategic Initiatives



Joint Innovation Projects

- Collective strength of cluster to form partnerships
- Parallel paths of scope
- Place-based work
- Hybrid funding models

Foil Ferry Photo Credit: Glosten

Funding the Innovation Ecosystem

- Public & place-based initiatives:
  - EDA/DOE Build2Scale
  - EDA Build Back Better
  - DOE Hydrogen Hubs
  - WA Innovation Cluster Accelerator Program
  - NSF Engines
- Private: investment, foundation dollars, venture

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