

# Future Marine Inc Electric Ferry Network



Martin Stewart



## Opportunity: Waterways as Transportation Corridors

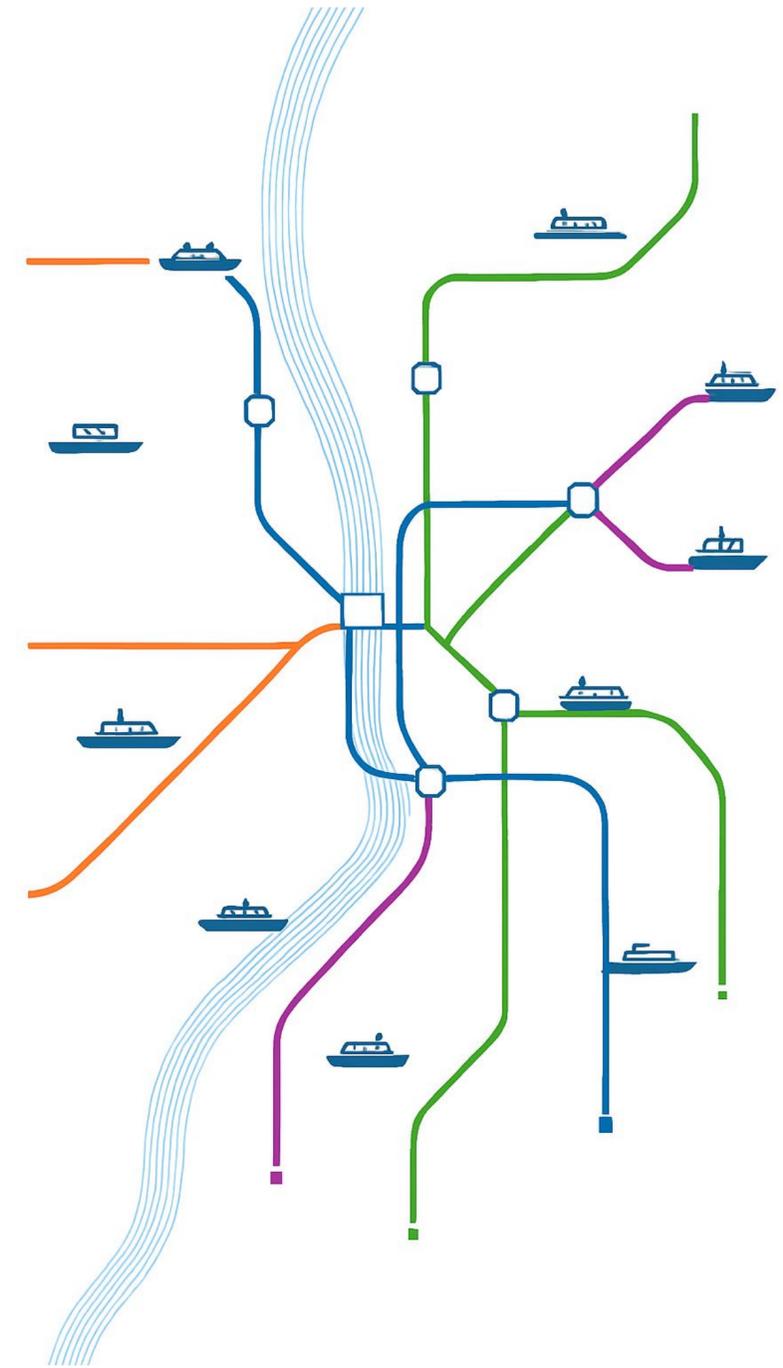
The Capital Region has extensive navigable coastline and sheltered waterways

Direct marine routes connect many communities faster than road routes

Marine transit bypasses road congestion entirely

# About Future Marine

- British Columbia marine innovation company focused on zero-emission marine transportation
- Designs and operates electric passenger ferries for urban and regional routes
- Developing autonomous navigation and advanced safety systems
- Building scalable coastal mobility networks in the Pacific Northwest
- Working with municipalities, First Nations, and public transit agencies



## Transportation Challenges in the Capital Region

- Rapid regional population growth including the West Shore communities of Colwood, Langford, and Sooke
- High dependence on private vehicles for daily commuting
- Increasing congestion on Highway 1 and Highway 14
- Limited options and high costs to expand road capacity
- Transportation emissions represent a significant portion of regional greenhouse gas emissions



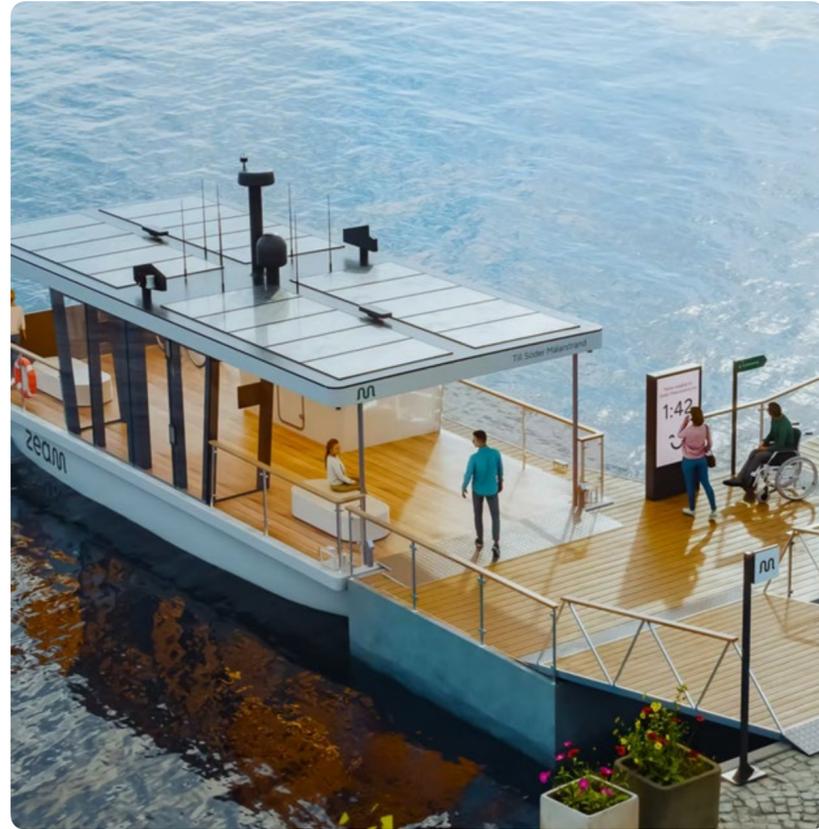
## **Opportunity: Waterways as Transportation Corridors**

- The Capital Region has extensive navigable coastline and sheltered waterways
- Direct marine routes connect many communities faster than road routes
- Marine transit bypasses road congestion entirely
- Small electric ferries require minimal physical infrastructure
- Water-based mobility can complement buses, light rail, cycling networks, and walkable centres



# Future Vessels

12 Passengers



12-passenger electric catamaran ferries designed for harbour mobility

Zero Emission



Zero-emission electric propulsion and very low noise

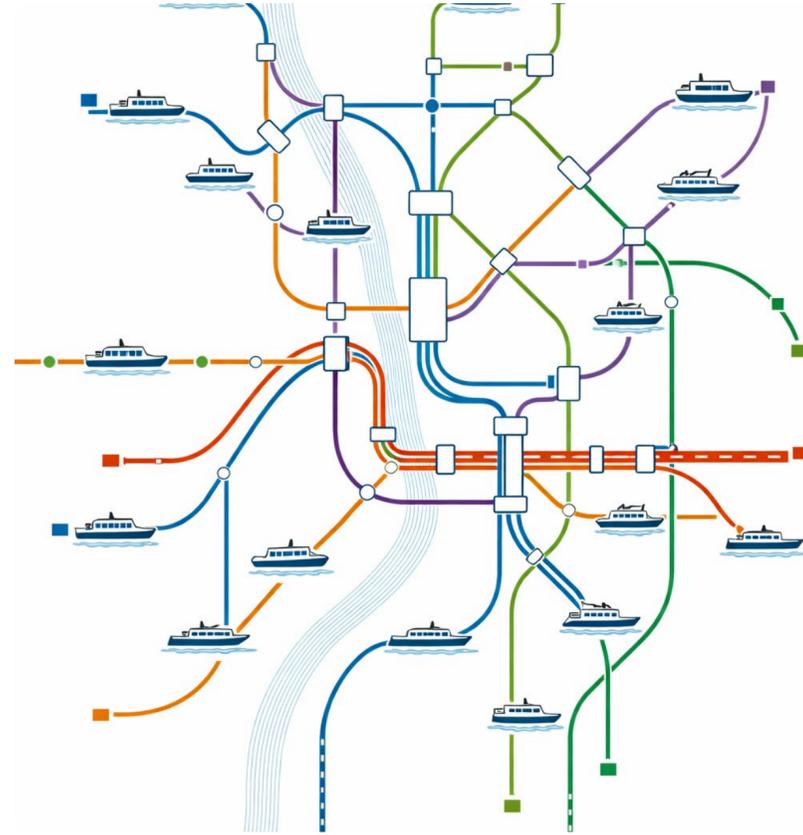
Low Wake



Low wake design suitable for sensitive harbour environments

# Future Vessels

## High Frequency



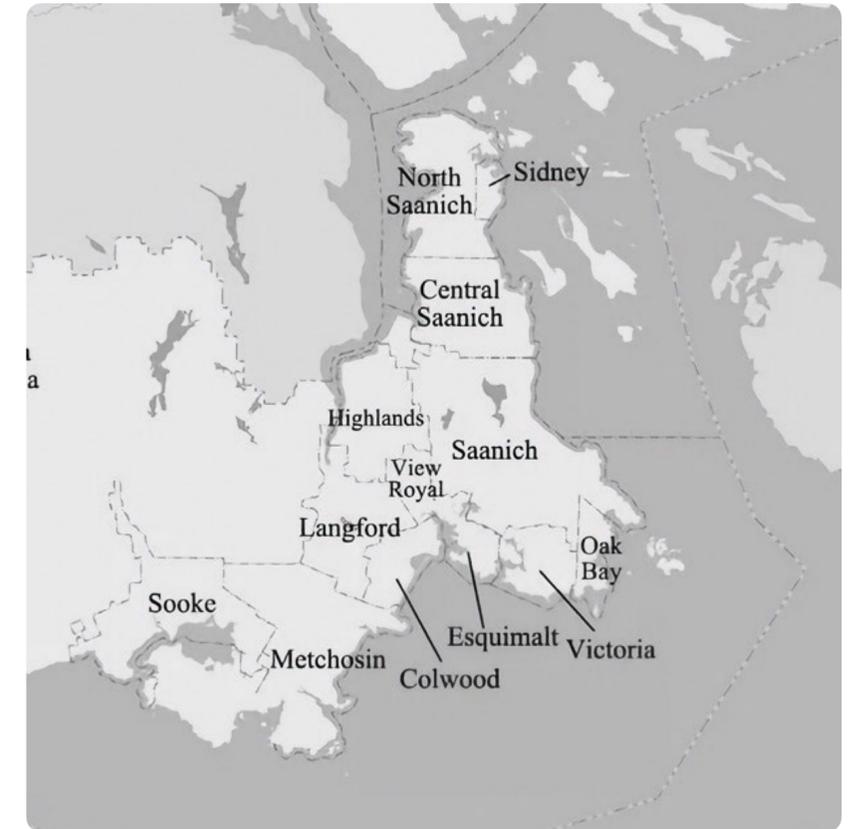
High frequency, on demand service

## Short Crossings



Ideal for short crossings in urban waterways

## Service Areas

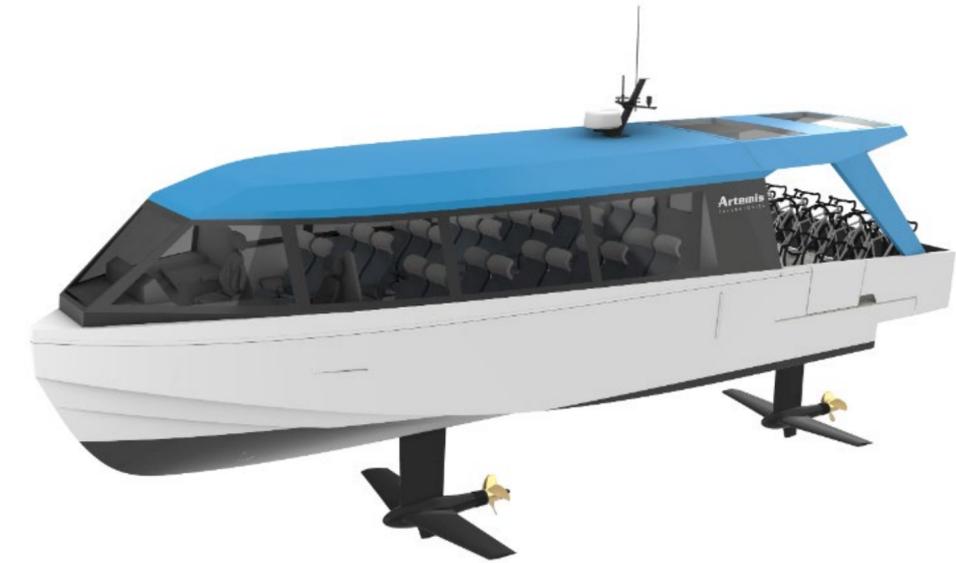


Potential South Island service areas include Esquimalt Harbour, Sooke Basin, Victoria Inner Harbour

## Regional Ferry Service – High Speed Vessels

- High-speed electric passenger ferries using hydrofoil technology
- Hydrofoils lift the vessel above the water to dramatically reduce drag
- Significantly lower energy use compared with conventional fast ferries
- Cruising speeds of 25–30+ knots
- Ideal for longer regional routes such as Victoria–Sooke–Port Renfrew, Mill Bay–North Saanich–Airport
- Complements smaller urban ferries by connecting regional destinations

ARTEMIS 30 PASSENGER



ARTEMIS 2



## Integrated Multi-Modal Transportation

- Ferry terminals can connect directly with BC Transit, light rail, and other transportation options.
- Integration with cycling and pedestrian infrastructure
- Opportunity to create local mobility hubs near ferry landings
- Supports inter-modal travel without reliance on private vehicles
- Creates flexible transportation choices for residents and visitors

## Alignment with Climate Action Goals

- Zero-emission electric propulsion eliminates fossil fuel pollution
- Supports regional greenhouse gas reduction targets
- Encourages shift from private vehicles to public transportation
- Reduces noise pollution in urban waterfront environments
- Supports sustainable coastal transportation systems

## Reducing Road Congestion

- Waterways provide additional transportation capacity at no additional cost
- Creates parallel transportation corridors that do not require new highways
- Reduces pressure on key commuter routes
- Improves travel reliability for commuters, and in the event of accidents or road closures
- Supports regional population growth without major road expansion

## First Nations Collaboration

- Future Marine is developing partnerships with First Nations communities
- Opportunities for shared planning of marine transportation infrastructure
- Economic development and employment opportunities
- Marine training and operations roles
- Potential collaboration with Songhees Nation, Esquimalt Nation, Malahat Nation, and T'Sou-ke Nation

## Phased Implementation

- Phase 1: Pilot service with 2 to 4 electric ferries
- Initial dock locations in strategic harbour locations
- Operational demonstration and ridership development
- Phase 2: Expansion to additional communities and routes
- Phase 3: Integration of autonomous navigation systems

## Collaboration with the CRD

- Integrate marine transit into regional transportation planning
- Identify potential ferry landing sites
- Coordinate with municipalities and First Nations partners
- Support provincial and federal funding opportunities
- Develop a regional electric ferry pilot program

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