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Mode Choice (Not Ferry) Mode Advantages Disadvantages To be really effective, BRT Bus Rapid Transit Frequent service needs its own right-of-way or at (BRT) Low cost of vehicles least signaling Latest technology Needs its own corridor More expensive than BRT Frequent service Light rail (LRT) Freight trains may pre-empt public transit at peak times and deter ferry development. Cost of running rights may be too high. Need for double trackage if on a freight corridor. Commuter Rail (on existing freight Corridors and rights-of-way Cost of rolling stock higher than lines) BRT if purchased new. Source: Table 16.5, p. 217, Frost & Brooks (2021), The Routledge Handbook of Public Transport

Introduction MARINOVA This paper builds on a book chapter we wrote and then presents the beginning of a new study. The chapter identified relevant criteria for comparing maritime public transit options with BRT, LRT and other modes. Ferry service in Halifax since 1750 – oldest in North America - only 2 routes BRT evolving; commuter rail option has been abandoned One of fastest growing cities in Canada with limited ways on and off the Peninsula MARINE TRANSPORTATION SPECIALISTS

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Mode Choice (Ferries)

Mode	Advantages	Disadvantages
	Vessels are relatively inexpensive.	Needs 'park and ride' facilities for commuters.
	Way costs less than road or rail.	Needs to be integrated with other types of transit.
	Can add vessels as	Terminal costs are higher than
	demand increases.	hub facilities for BRT.
	Use of usually underutilized corridors.	Waterside environmental impactudies often more onerous that
	Less expensive to establish	landside development impact
Ferries	than LRT or commuter rail.	studies.

Source: Table 16.5, p. 217, Frost & Brooks (2021), (continued)

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Last 900s Storet

Last 900s St

5 COMMUTER BUAT

Boston

First Bussey

International
Airport

Winthrop

Winthrop

Doublester

D

Key Takeaways from
Frost & Brooks (2021) [1]

• Importance of connectivity with
neighbourhoods and other
modes

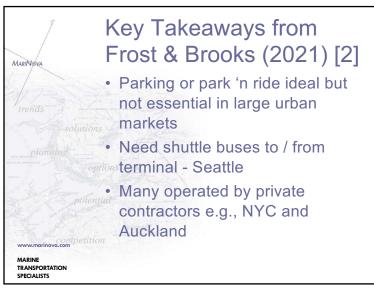
• Amenities can attract different
clientele

• Can spur "Transit Oriented
Development" (TOD) or "Ferry
Oriented Development" (FOD)

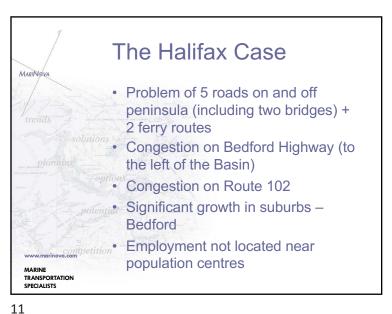
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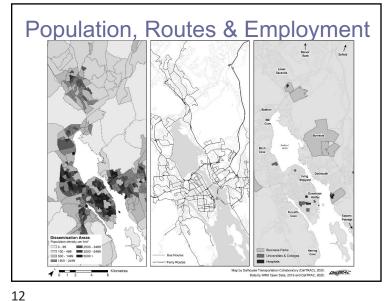
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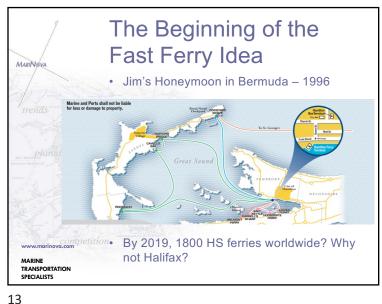


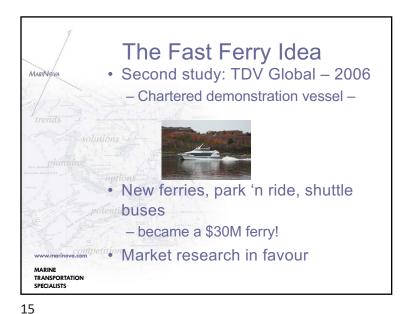
The Halifax Case: Main Routes on / off Peninsula





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The Fast Ferry Idea

• Halifax has an underutilized corridor

• First study: LEA Consulting — 2003

• Charter a vessel

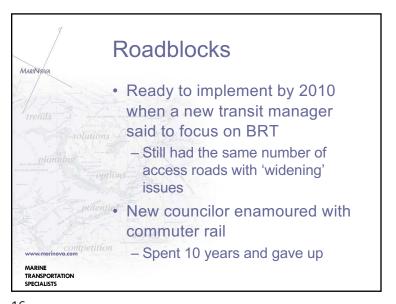
— Buy a new one if popular

— Temporary docks & wharves

— \$5M tops

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Recent developments MARINOVA Underway are our new studies for implementation Marketing Vessel Propulsion Metocean Terminals Desire for net-zero ferries - Funding contingent on this · Will it happen 19 years after the MARINE first study? TRANSPORTATION SPECIALISTS

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