

Re: Item No. 15.1.10

HALIFAX

**Regional Centre
All Ages and Abilities
Bikeway Network**

Update to Regional Council, November 22, 2022

Project Background

- Pre-2017. Disconnected painted bike lanes and multi-use pathways.
- Post 2017. New direction for safer facilities due to:
 - New professional engineering design guidelines
 - Public/stakeholder interest
 - Painted infrastructure ineffective (e.g., Hollis)
- Action 72 of IMP: build “All Ages and Abilities” network of bike facilities in Regional Centre.
 - Total of 20 AT actions in the IMP



Types of “All Ages and Abilities” (AAA) facilities



Protected Bike Lane

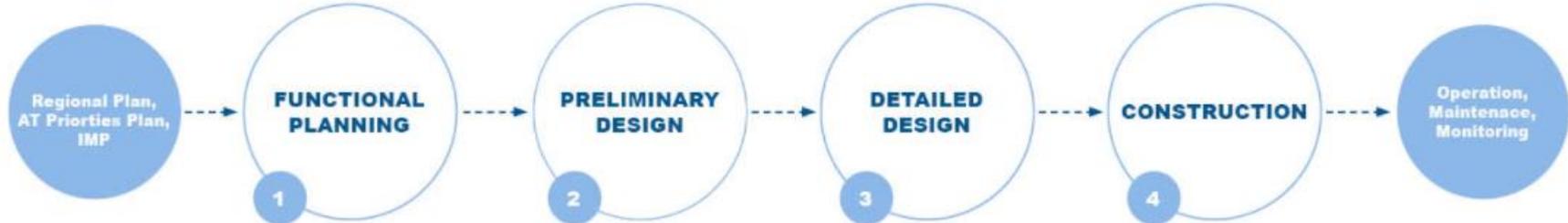


Multi-use Pathway



Local Street Bikeway ²

HALIFAX ACTIVE TRANSPORTATION PLANNING & DESIGN PROCESS



6 – 18 months (can be longer)	6-18 months	6-18 months	1-2 seasons	Ongoing
<ul style="list-style-type: none"> • Develop and evaluate concepts • Identify/manage “trade-offs” • Route selection • Public/Stakeholder engagement • Utility review • 30% design • Class D estimates • Council approval 	<ul style="list-style-type: none"> • Topo Survey • Identify permits • Land acquisition • Utility review/planning • Variances (if required) • 60% design • Class C estimates 	<ul style="list-style-type: none"> • Final drawings, specifications. • Pavement marking/signage plans. • Complete land acquisition • Structural details • Signal timing • Obtain permits • Pre-Tender Review • 90-100% design • Final cost estimates 	<ul style="list-style-type: none"> • Tender • Mitigation measures • Certifications • Deficiencies List • Payment Certificates • Infrastructure acceptance • Permits • Public and abutter notifications • Project close out 	<ul style="list-style-type: none"> • Communications launching facility • On-going monitoring • Year-round maintenance • Adjustments, as required • Asset management and rehabilitation

AAA Network Implementation Timeline

- First projects in 2018
- \$25M ICIP infrastructure funding on projects between 2020 and 2024 (HRM 17% cost share).
- IMP target was AAA completion by 2022. Will be at about 50% by end of 2022 and about 70% by 2024.
- New timeline extends to 2028. However, depends on many factors.
- Some accelerated progress via tactical/interim installations.

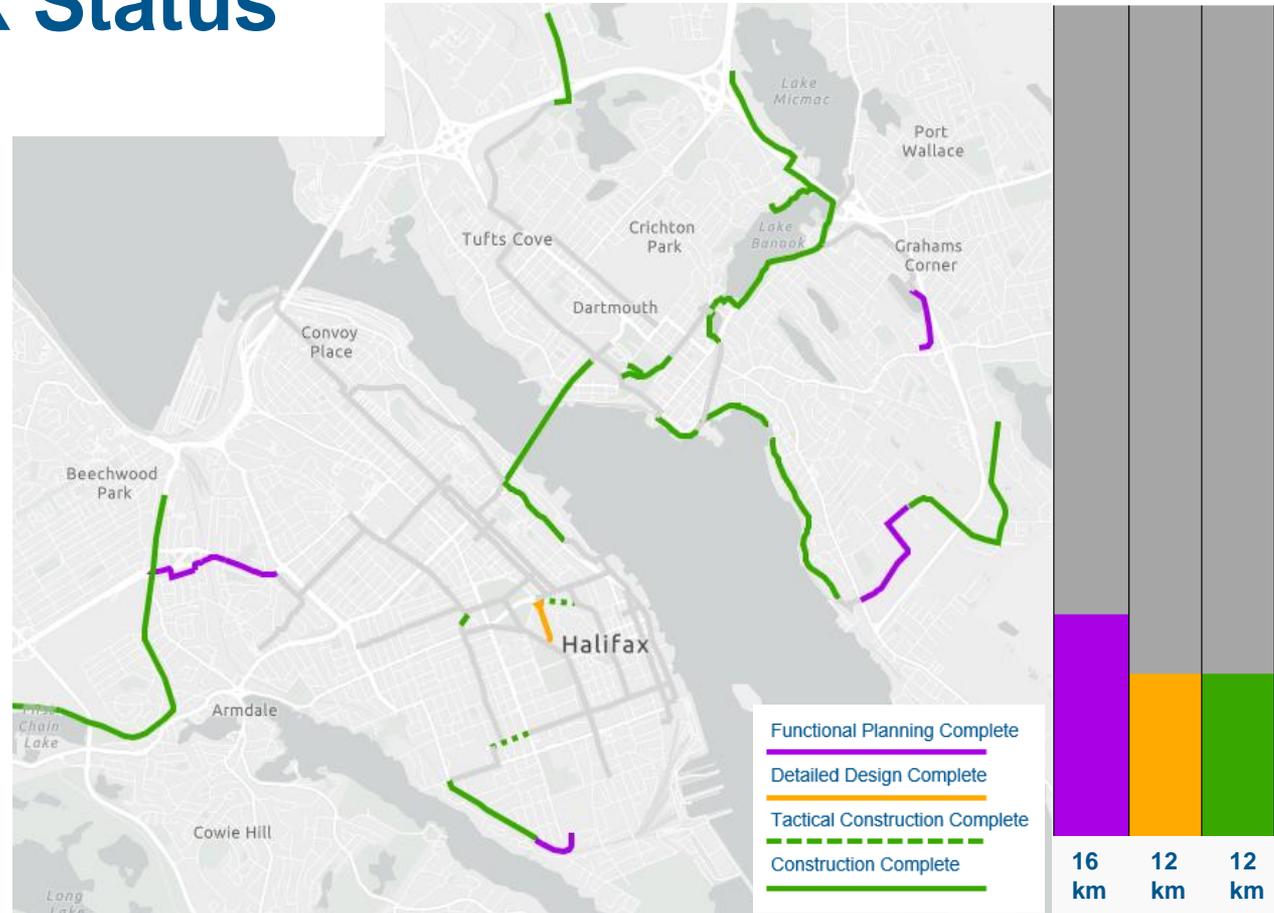


AAA Network Status 2017

57 km Total

Key Pre-IMP segments included:

- Macdonald Bridge Bikeway
- Dartmouth Harbourfront Greenway
- Lake Banook – Shubie Greenway
- Interim bikeways on University Ave. and Rainnie Dr.

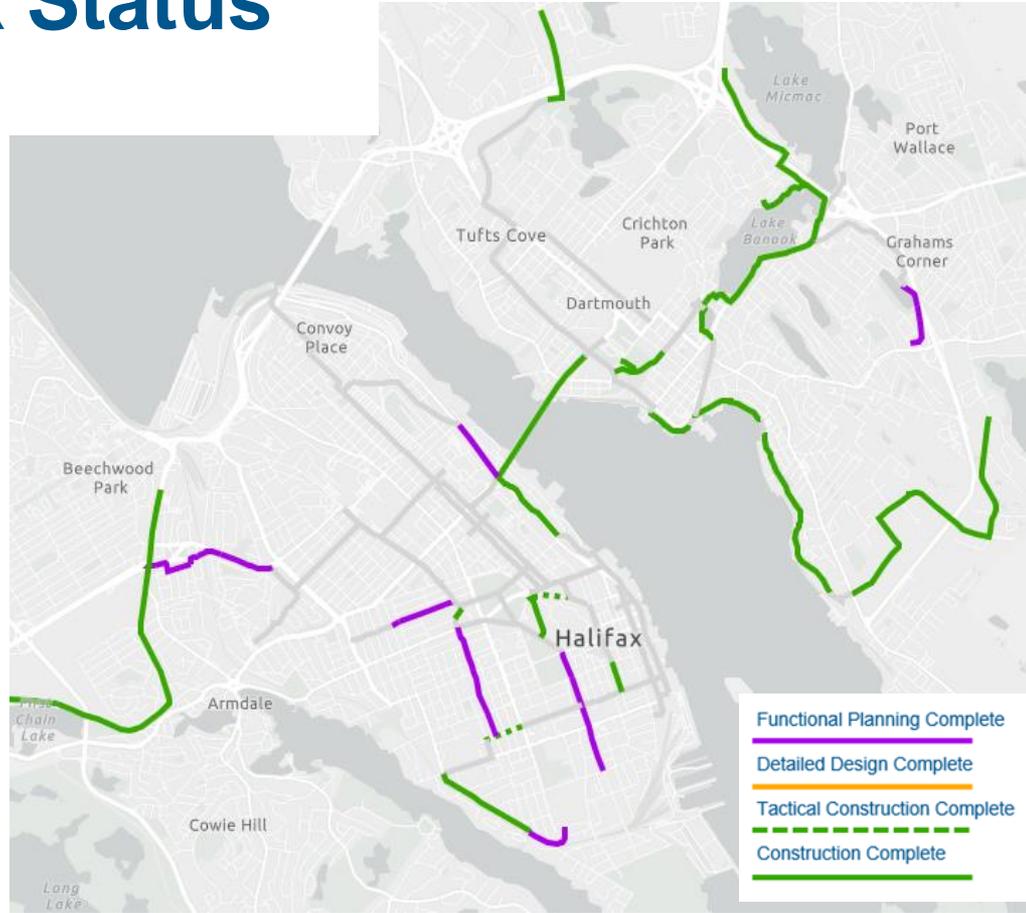


HALIFAX

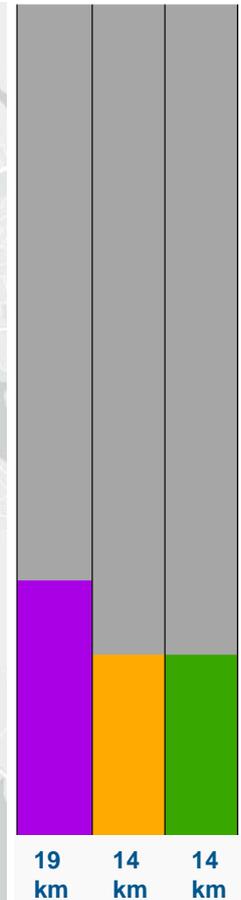
AAA Network Status 2018

Construction included:

- Woodside MUP
- Ahern MUP
- Sexton Campus AT Corridor (Dalhousie project)



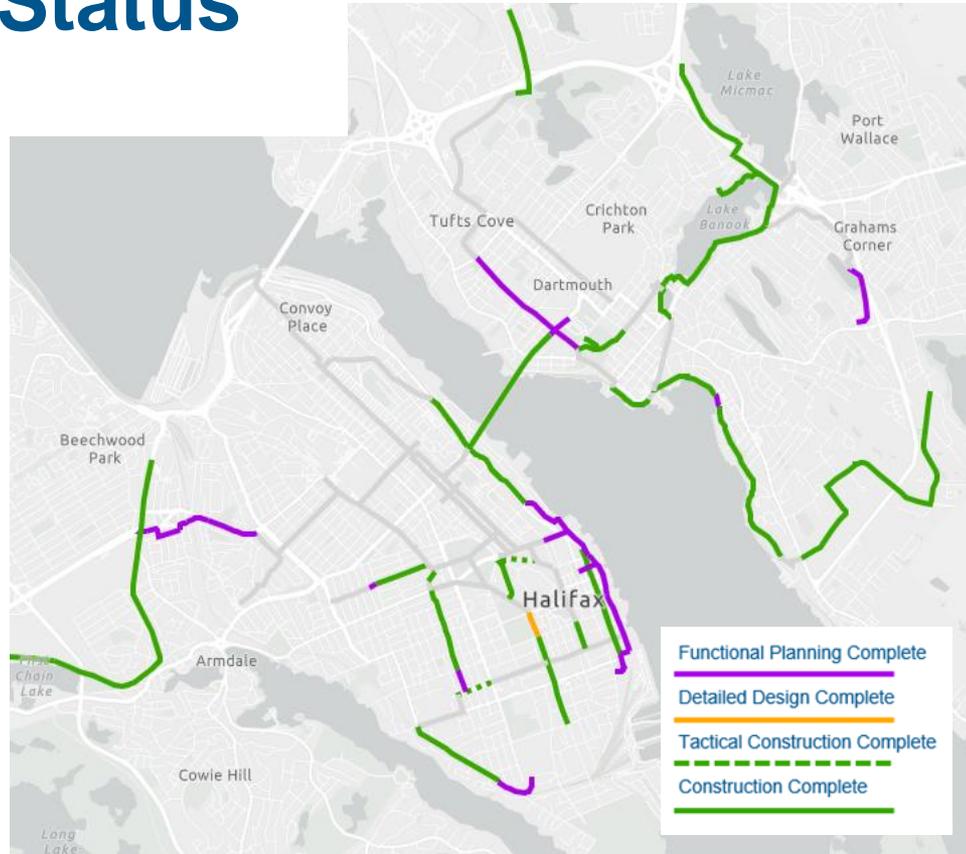
57 km Total



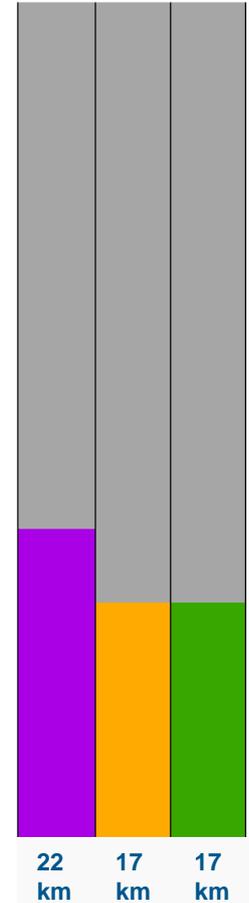
AAA Network Status 2019

Construction included:

- Vernon LSB
- Allan LSB
- South Park Phase I
- Hollis Phase I
- Barrington Greenway Ext.



57 km Total

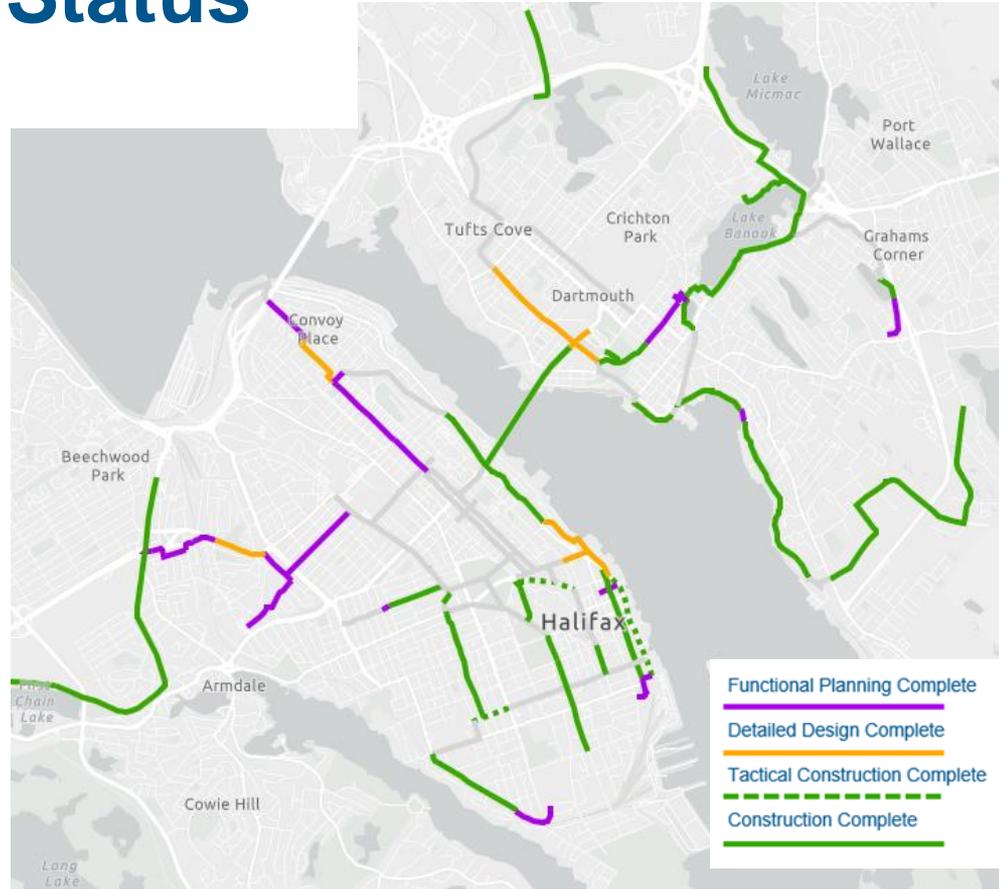


AAA Network Status 2020

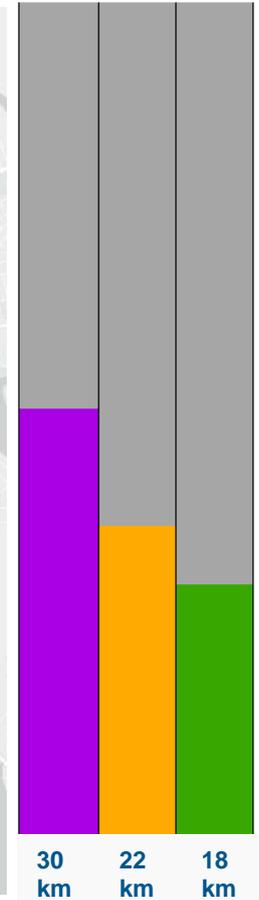
Construction included:

- South Park II
- Vernon/Coburg signals
- Lower Water and Gottingen Tactical

35% complete



57 km Total

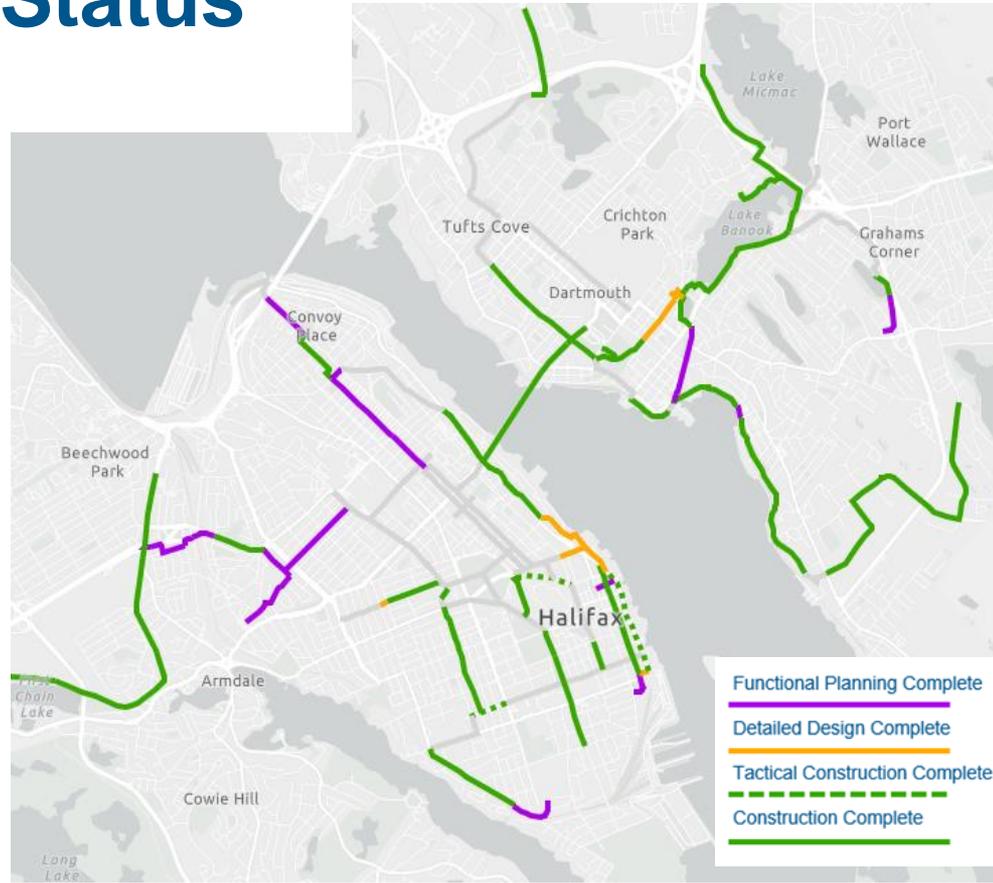


AAA Network Status 2021

Construction included:

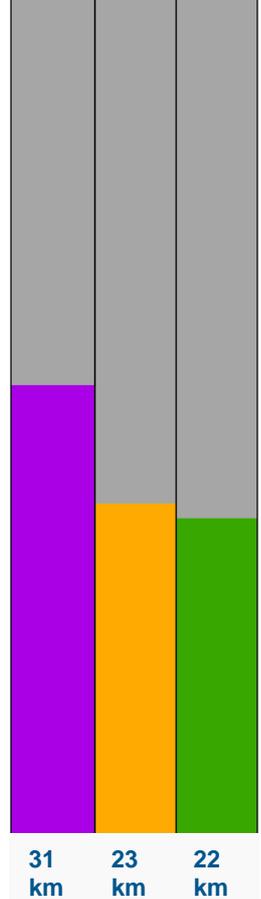
- Wyse Road
- Dahlia Phase I
- Leaman-Isleville
- Allan-Oak signals
- Bayers Road MUP

40% complete



Functional Planning Complete
Detailed Design Complete
Tactical Construction Complete
Construction Complete

57 km Total

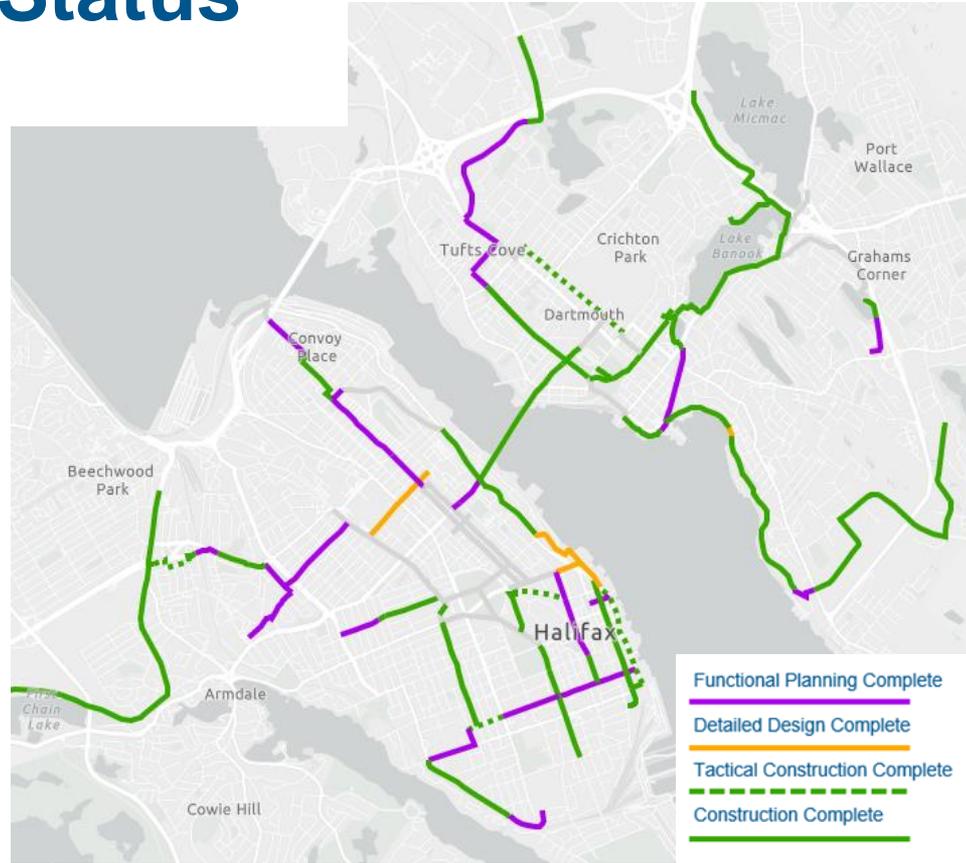


AAA Network Status 2022

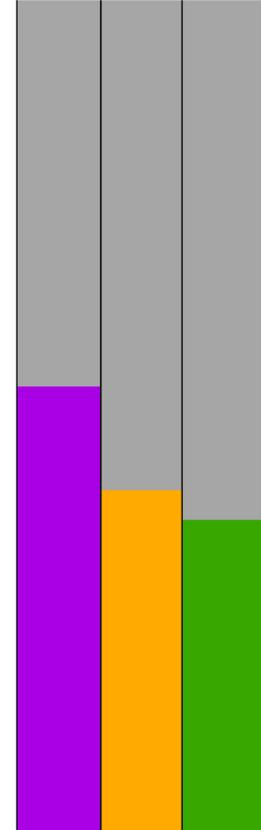
Construction included:

- Exit 0/Joe Howe
- Terminal Road and Hollis Phase II
- Dahlia Phase II
- Tactical

~ 48% complete



57 km Total

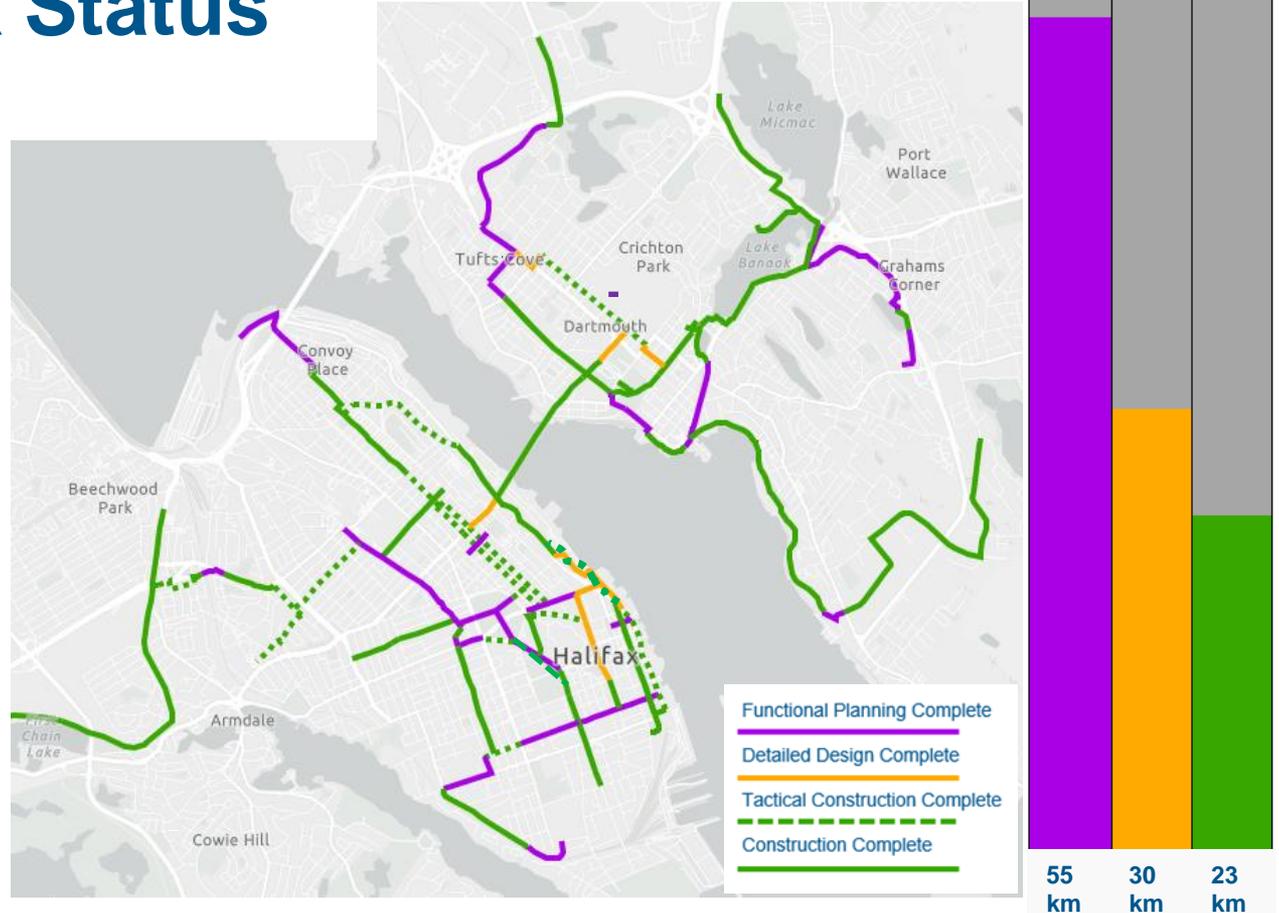


36 km 24 km 22 km

AAA Network Status 2023 (planned)

Planned Construction:

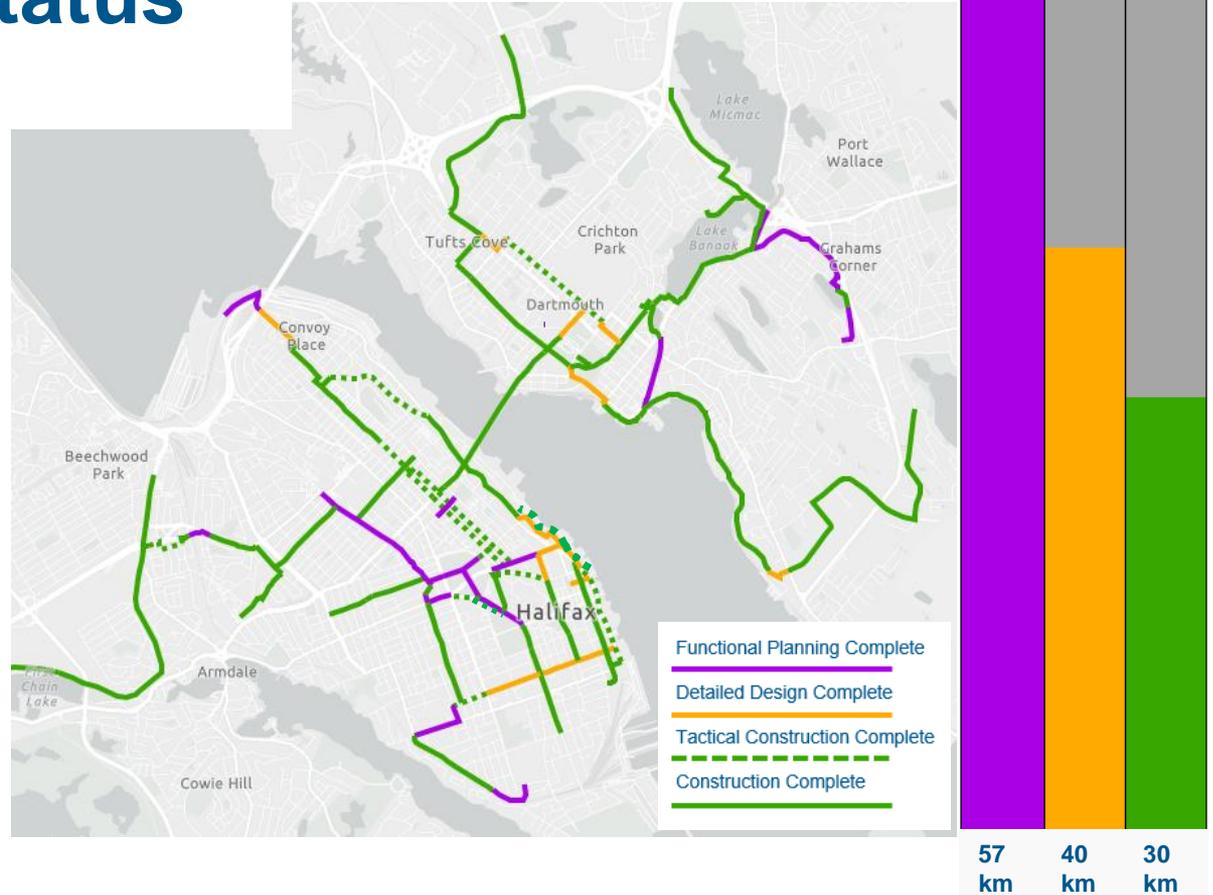
- Almon Street
- Dartmouth Harbourfront (Parker-Old Ferry)
- Isleville (Duffus-Young)
- Cogswell District “bypass”
- Tactical



AAA Network Status 2024 (planned)

Planned Construction includes:

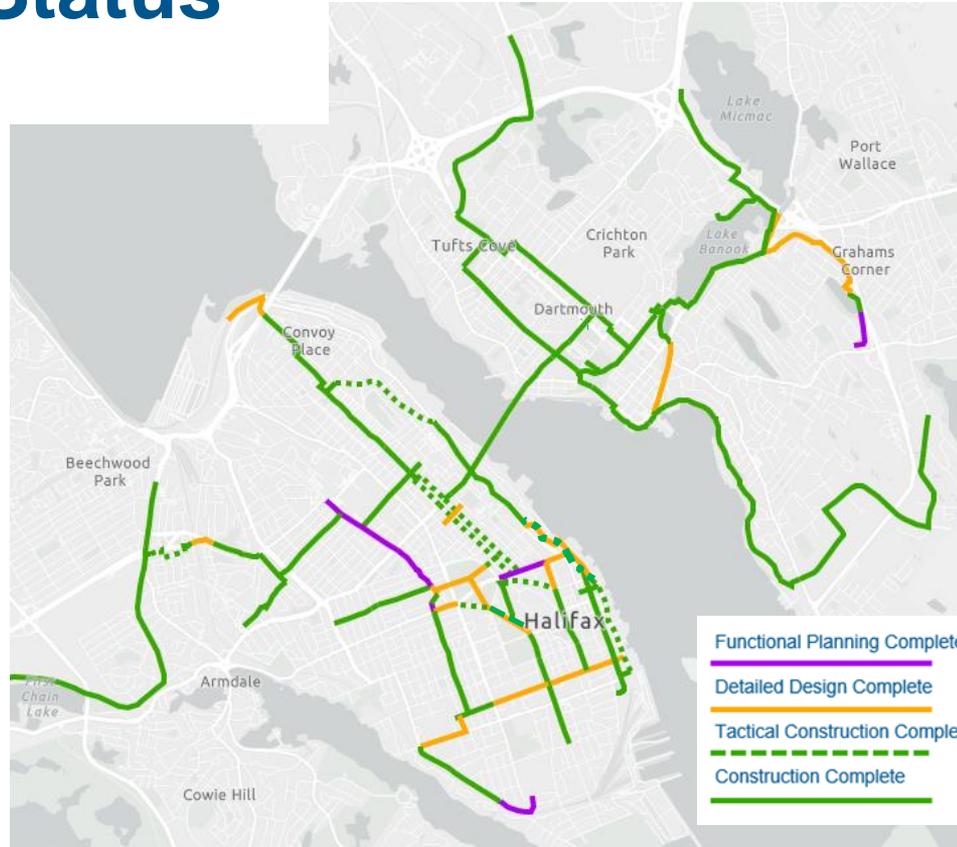
- Dartmouth North
- Macdonald Bridge Halifax Side
- West End Bikeways
- Brunswick Phase I



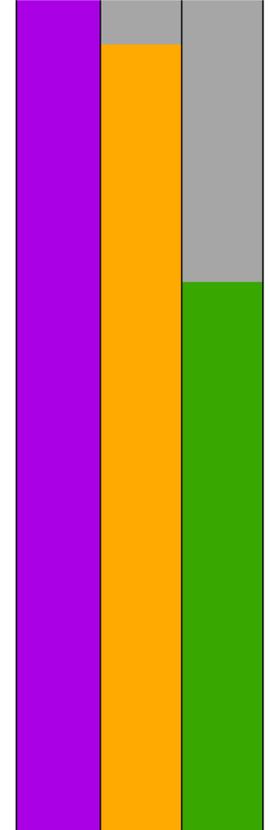
AAA Network Status 2025 (planned)

Planned construction includes :

- Peninsula South I
- Slayter LSB
- Thistle-Alderney Landing
- Isleville (Young to Bloomfield)
- George St.



57 km Total



57
km

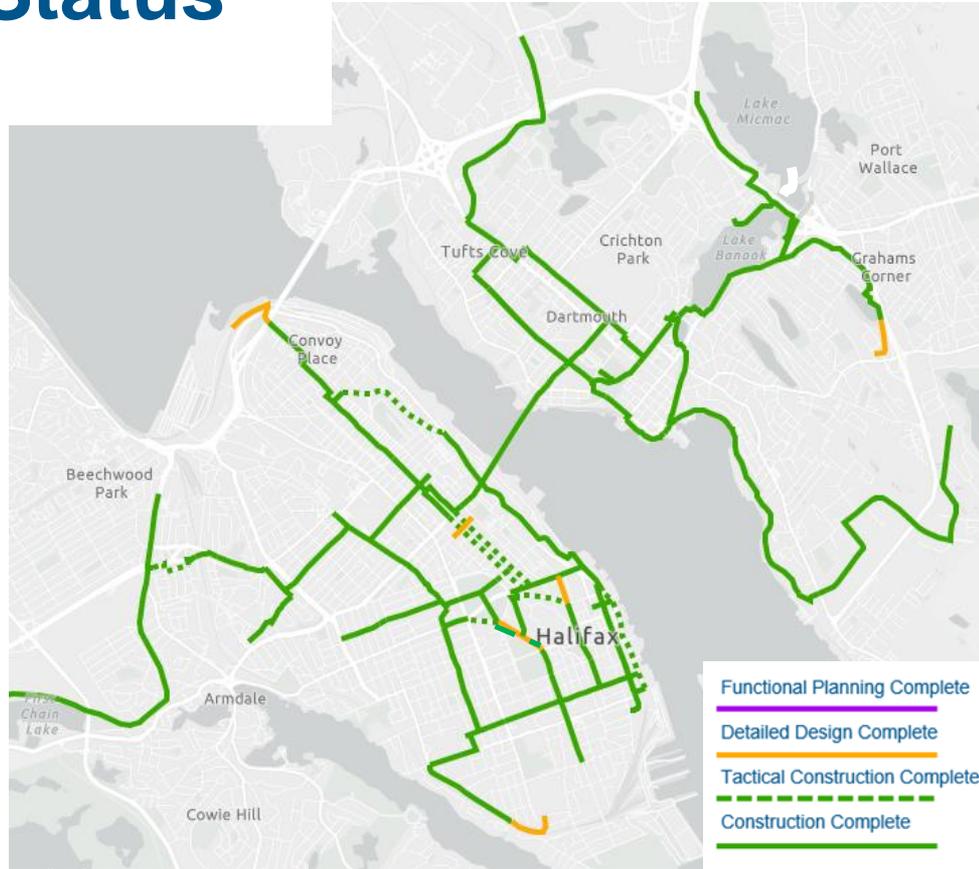
54
km

38
km

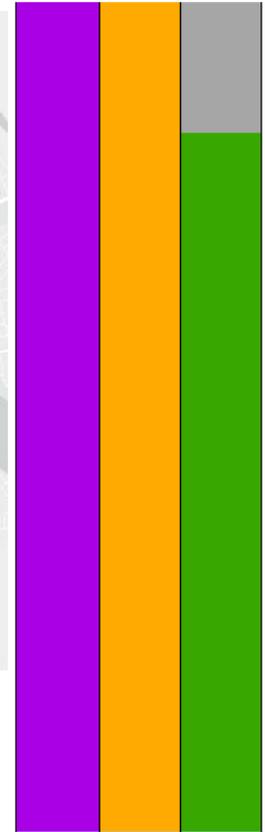
AAA Network Status 2026 (planned)

Planned Construction:

- Peninsula South II
- Slayter LSB
- Mid-town bikeways
- North End Bikeway (Fuller and Northwood)
- Cogswell District
- Downtown Dartmouth (Canal)



57 km Total



57
km

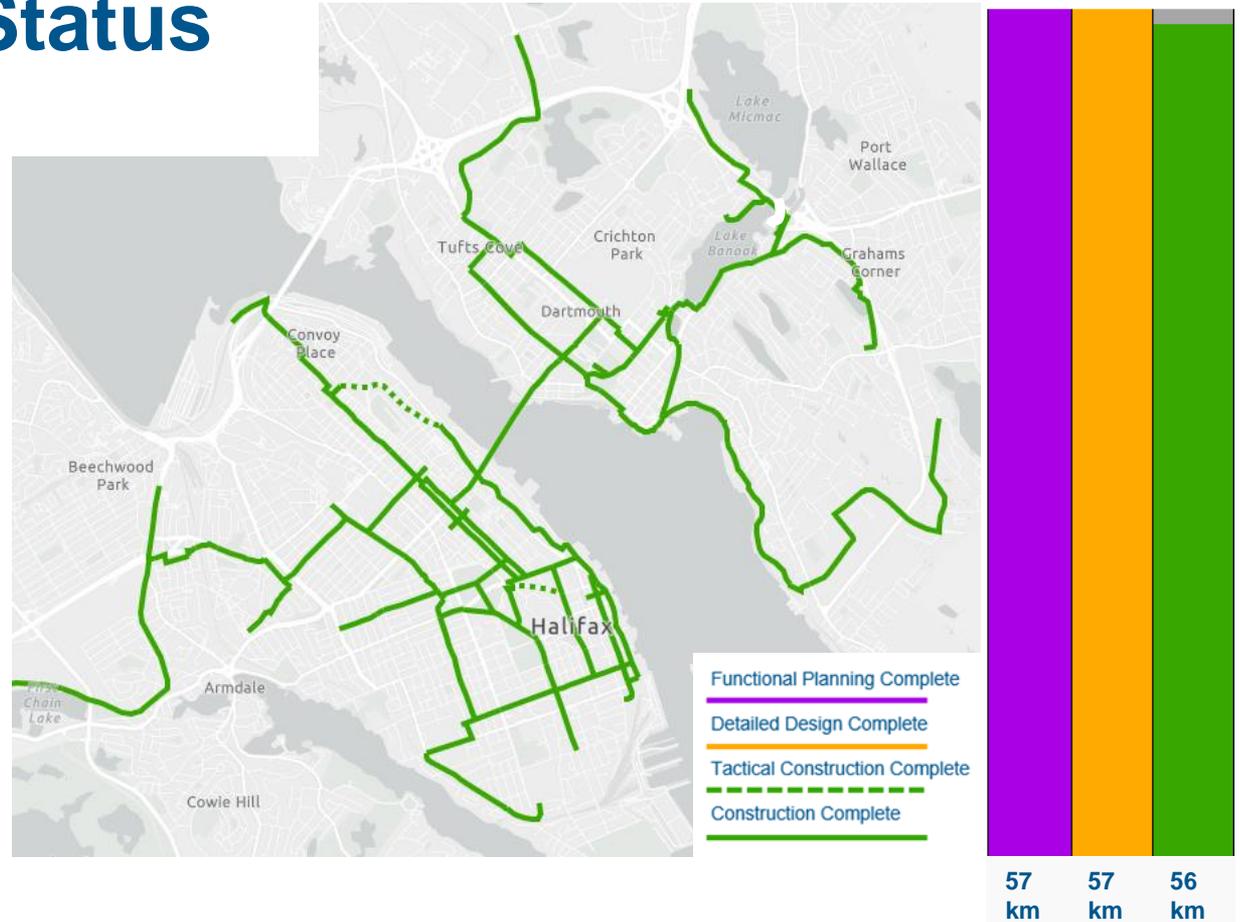
57
km

48
km

AAA Network Status 2027 (planned)

Planned Construction:

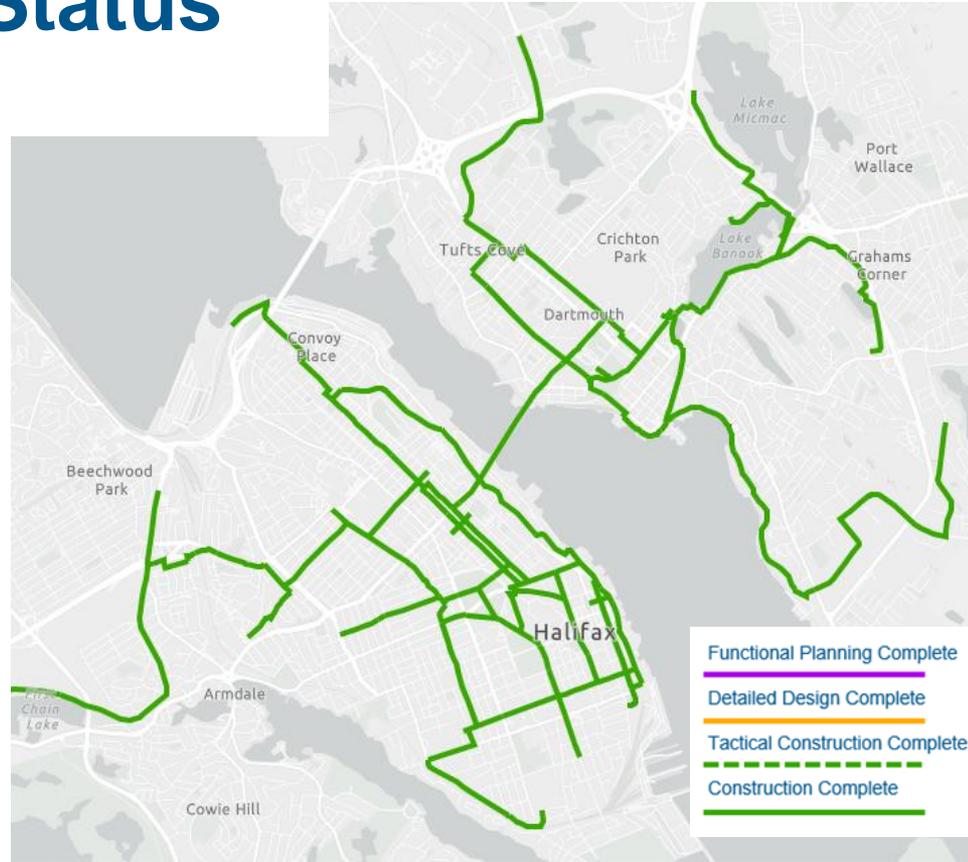
- North End Bikeway (Charles, Creighton and Maynard)
- Africville AT Connections



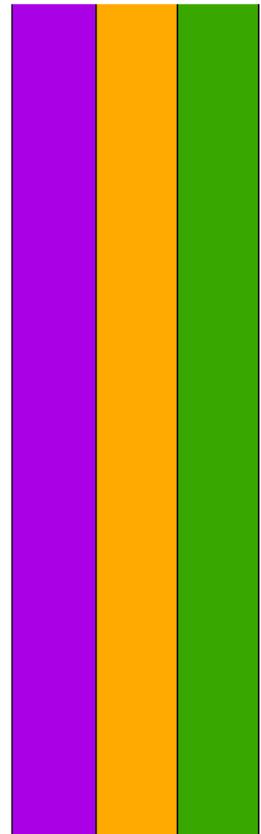
AAA Network Status 2028 (planned)

Planned Construction:

- Devonshire
- Rainie-Gottingen



57 km Total



57
km

57
km

57
km

Project Budget as of 2022 (actual and estimated)

Time Period	Total Cost	Net Cost
2018 and 2019	\$3,431,000	\$3,007,000
2020 – 2023 (17% HRM cost share)	\$14,000,000	\$2,380,000
2024 (17% HRM cost share on \$11M)	\$18,300,000	\$9,170,000
2025 - 2028	\$36,300,000	\$36,300,000
Total	\$72,031,000	\$50,857,000

Macdonald Bridge Bikeway Connectors

- Halifax side status

- Essential element in AAA network
- Fed/Prov infrastructure funding is critical for implementation
- Concern for costs (structure, plus intersection)
 - 2016 estimate: \$5.4M
 - 2021 estimate: \$8.5M
 - 2022 estimate: \$12.6M
- Construction delayed due to:
 - Project complexity (e.g. Transit/BRT needs, utility conflicts, urban forestry, pedestrian network)
 - Project management changes
 - Peer review/value engineering exercise
- New timeline is for 2024 construction



Thank you

