







<u>Big Policy Move 2:</u> By 2046, the majority of trips in the city will be made by sustainable transportation.

The overarching mobility goal of the Official Plan is that by the end of its planning horizon, more than half of all trips will be made by sustainable transportation such as walking, cycling, transit or carpooling.

- Climate change goals
- Healthier city
- More equitable and inclusive city
- Safety

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- Vibrant communities
- Financially sustainable



Ottawa's Conceptual Development / Internal Buy-In Occurring 2013-2016



Ottawa Conceptual Adoption: Why Protected Intersections?

- **Traditional Intersection:**
- Confusion, multiple possible cycling movements!
- Little protection for cyclists
- Not comfortable



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Start Building!

2011: Laurier Avenue



2014: Churchill Avenue













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Standardize: Need for a Protected Intersection Design Guide

With more protected intersections being built, Ottawa needed a design guide that was...

- ✓ Detailed
- Specific to Ottawa context and experience
- Transparent City of Ottawa practice for external engineers/designers and public
- Consistent for designers and users
- ✓ Universally Accessible
- Guide development with Alta Planning + Design (2020-2021)



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Standardize: Protected Intersection Design Guide

Guide is a framework for developing protected intersections and is therefore organized into steps of the design process.

- Chapter 2: Guiding Principles
- Chapter 3: Functional Planning context, constraints, and corner radius
- Chapter 4: Protected Corner Selection

 types and selection process 7
 different corner types in Guide





















Part 2: Speed Management (Through Design!)



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Why Speed Management?

- Policy 9-9 of 2023 Transportation Master Plan: Reduce Operating Speeds through Changes in Street Design
 - "Streets with slower operating speeds <u>are safer</u> <u>for vulnerable users</u> and <u>encourage active</u> <u>transportation</u> while continuing to allow for the provision of high-quality transit service."
 - o 30km/h Local residential streets
 - o 50km/h or less "Access" streets
 - o 60km/h or less "Flow and capacity" streets









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Collector Streets – Then and Now

Esprit Drive (Constructed ~2005)



- 11m curb-to-curb width
- 1.5m-wide sidewalks
- No cycling facilities

Derreen Avenue (Constructed 2023)



- 9.4m curb-to-curb width with...
 7.0m-wide road narrowings
- 2.0m-wide sidewalks
- 1.8m-wide cycle tracks

Spotlight: Continuous Sidewalks and Bikeways

- Inspired by the Netherlands, as well as Canadian Cities like Nanaimo, BC.
- Included as an "Emerging Measure" in the City of Ottawa 'Local Residential Streets 30km/h Design Toolbox'.















Scott Street - Parkdale to Bayview Station Road: Under Construction

Included at unsignalized intersections as part of a protected intersection project



