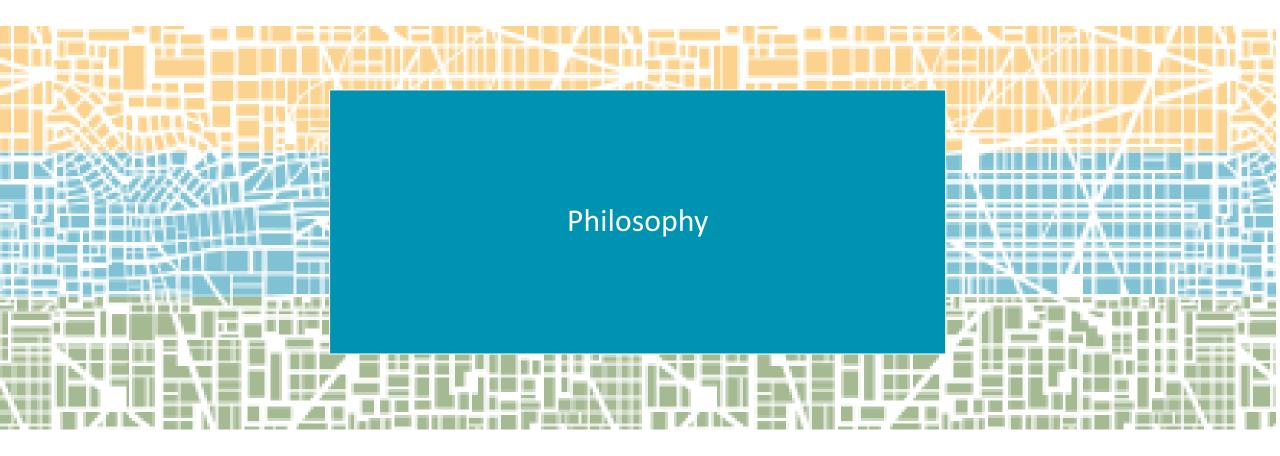


# Integrated Mobility Plan

Sustainable Development Committee Meeting



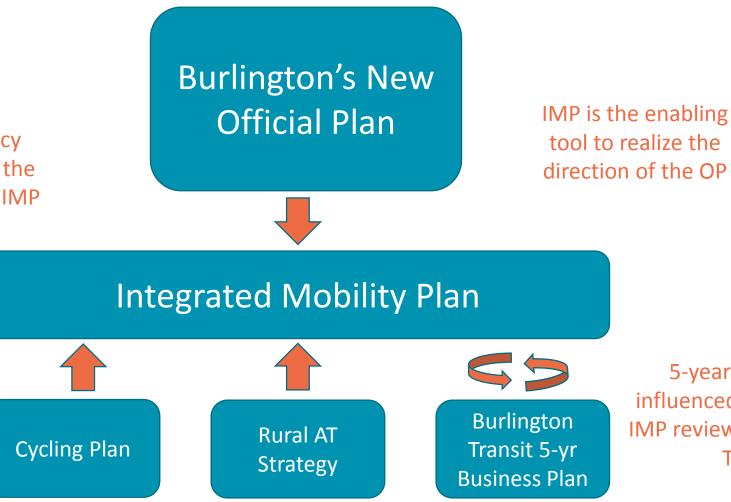
May 19, 2021





# Alignment

Mobility policy established in the OP directs the IMP

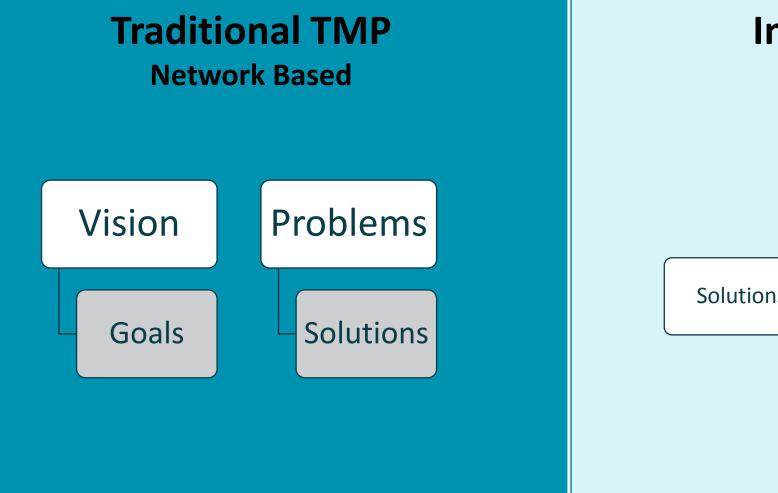


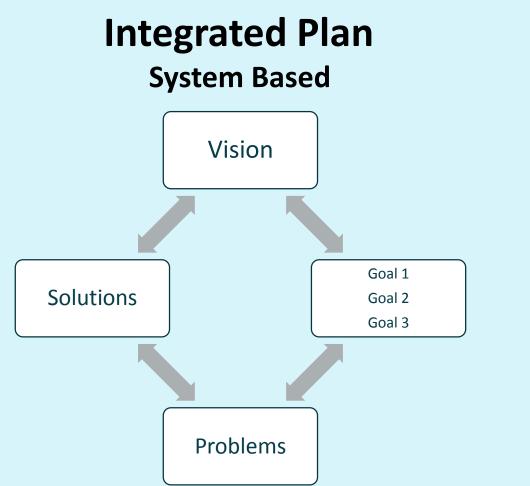
5-year Business Plan is influenced by IMP and 5-year IMP review is revised based on Transit Plan





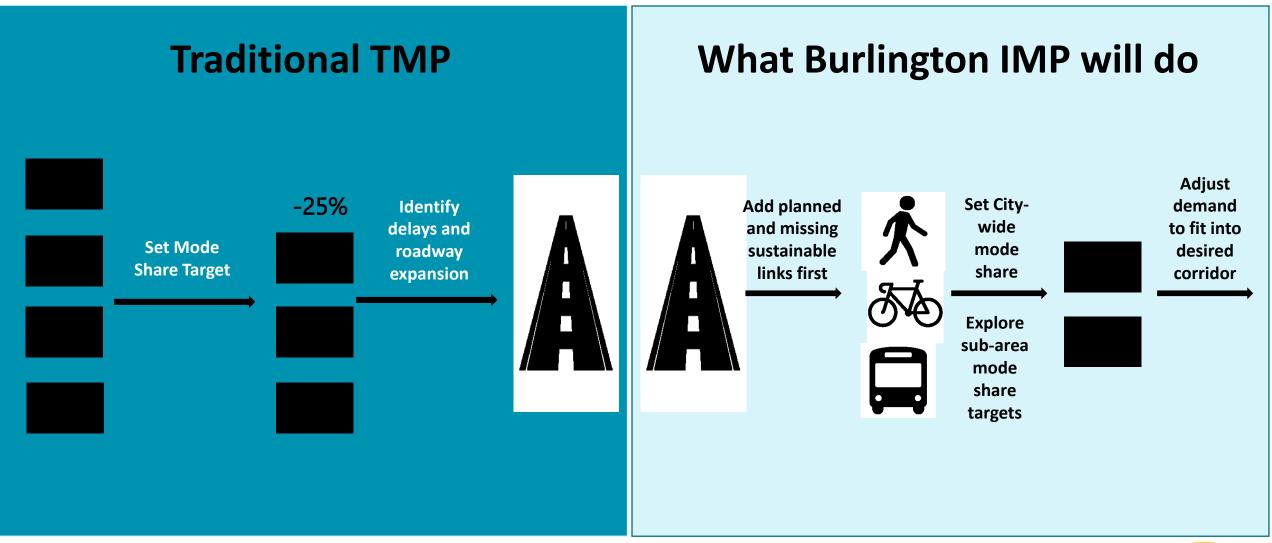
# How this plan is different







# IMP Approach – Mode Shift





# Integration of Mode Plans

## **Traditional TMP** What Burlington IMP will do 尔 仄 Identify Vision Complete and Goals Streets **Solution Solution Solution**



### Work Completed to Date

- Phase 1 of the project is complete
- Currently undertaking Phase 2 activities:
  - 1. Development of Problem Statements
  - 2. Developing the *Ideal Mode Plans* for each mode
  - 3. Development of Alternate Solutions







**IMP** Vision

Mobility in Burlington will be safe, accessible, sustainable, balanced, and livable.



#### Value Statements

#### <u>Safe</u>

- Movement of people + goods will be safe for all modes
- Focus on safety of vulnerable users
- Move towards eliminating transportationrelated deaths and serious injuries

#### **Accessible**

- Getting around will be accessible to all ages and abilities
- Eliminate infrastructure/ service gaps in multimodal networks
- Let people move when, where, and how they want

#### **Sustainable**

- Encourage transit, cycling, walking, and other non-car modes
- Leverage electrification potential

#### **Balanced**

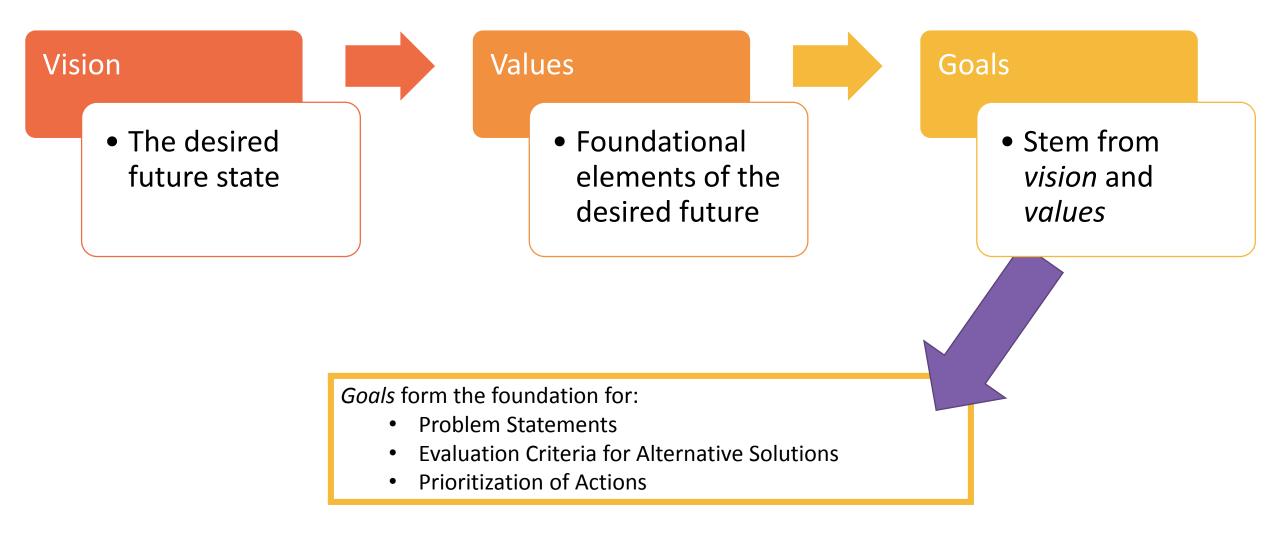
- Prioritize travel by non-car modes
- Allow comfortable travel for all modes

#### **Liveable**

- Design streets to fit within their surroundings
- Use streets to support the environment and character in surrounding neighbourhoods



#### Roles of the Vision, Values, and Goals



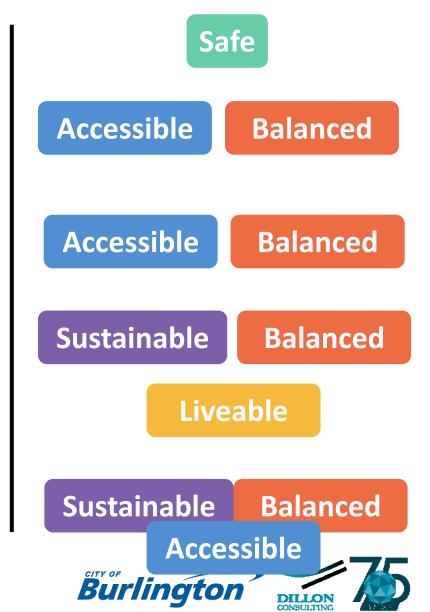


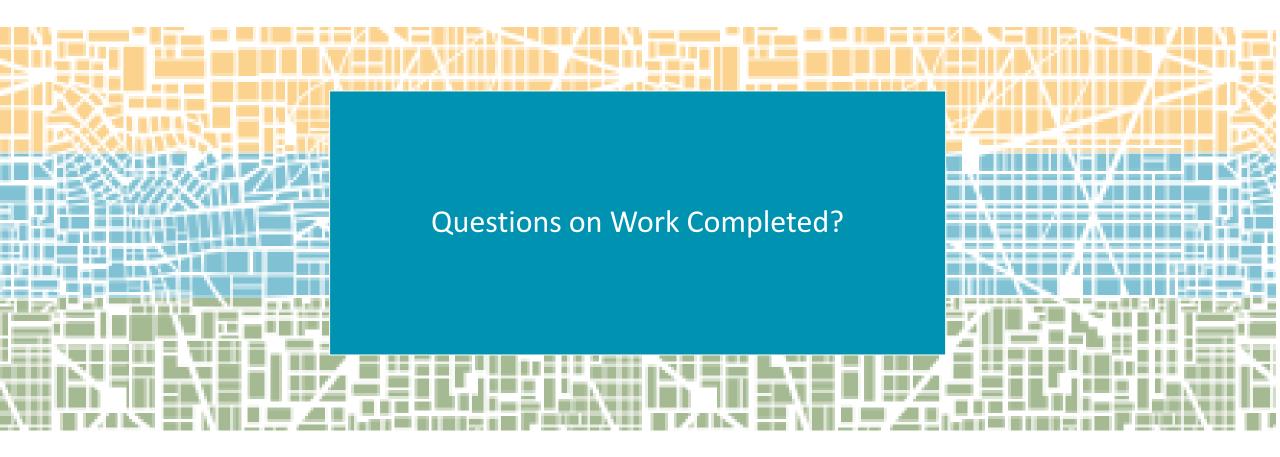
### **IMP** Goals

## Alignment with Values



- 2. Burlington's transportation system will be accessible and reliable for users regardless of factors like age, ability, income, or familiarity with the city.
- 3. Burlington will provide high-quality transportation options to move people and goods wherever and whenever, while maintaining a high quality of life for residents.
- 4. Burlington will eliminate transportation-related carbon emissions.
- 5. Burlington's streets will support the intended roles of the communities they run through and help these communities be vibrant and prosperous.
- 6. Burlington will actively plan for the transportation changes of tomorrow while continuing to deliver great service today.

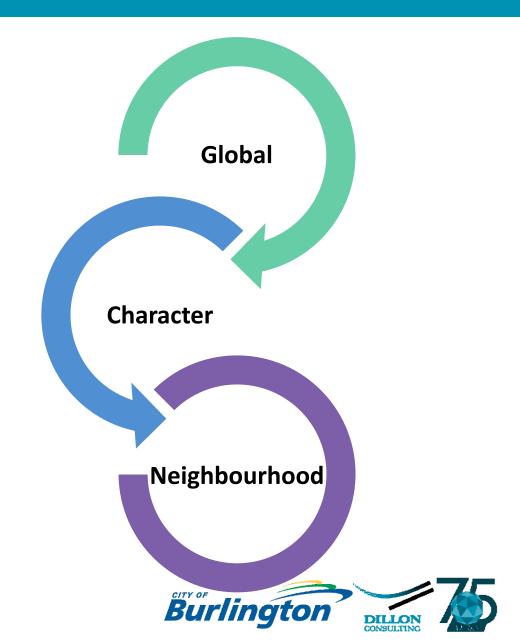






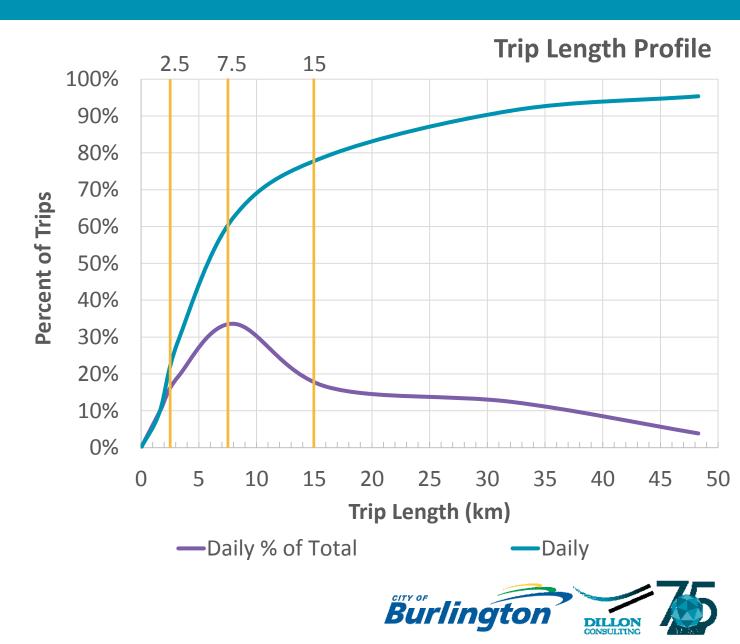
### Mode Share Profile

- Most shift as at the core of the IMP philosophy
- The *Mode Share Profile* sets out context-sensitive targets for different parts of the city
- It identifies mode share targets at three different layers:
  - Global, or city-wide targets
  - Character, or land use type targets
  - Neighbourhood, or sub-area targets

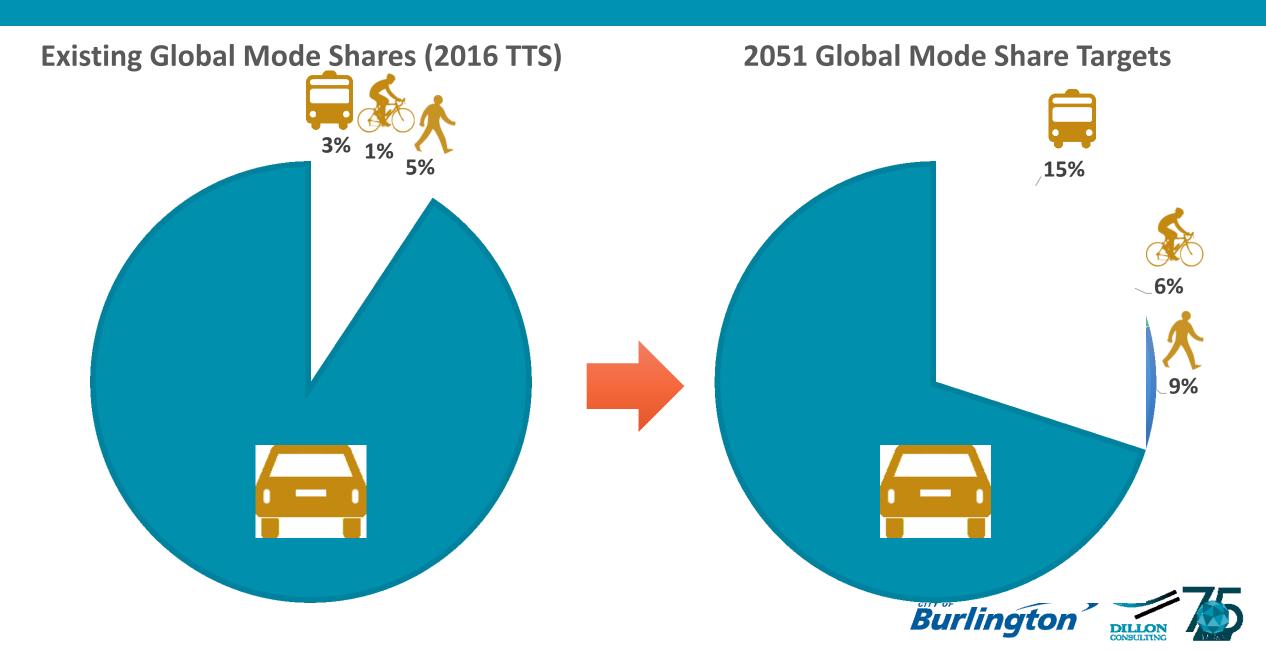


#### **Mode Shift Potential**

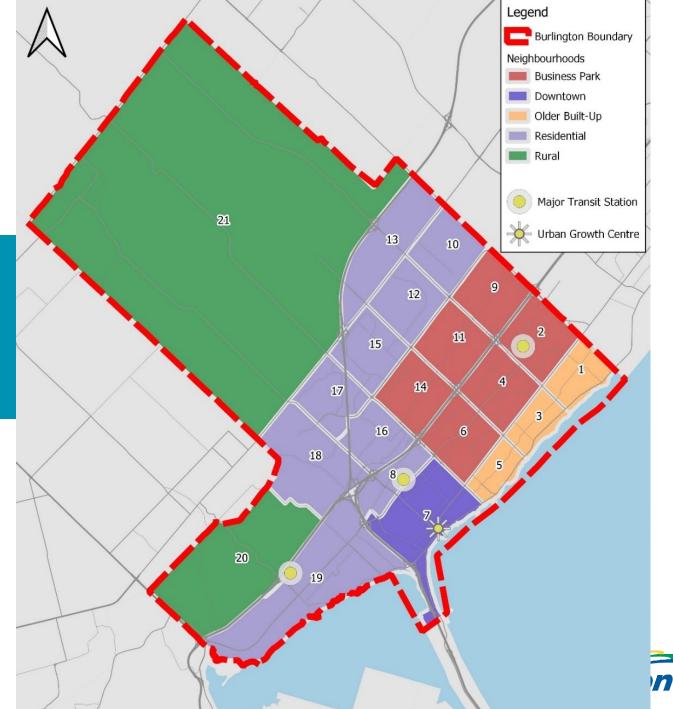
- Targets were developed by considering:
  - Existing mode shares
  - Neighbourhood characteristics
  - Existing and planned trip conditions for different modes
  - Mode Share Potential based on trip length



#### **Global Mode Shares**



## Breakdown of Neighbourhoods



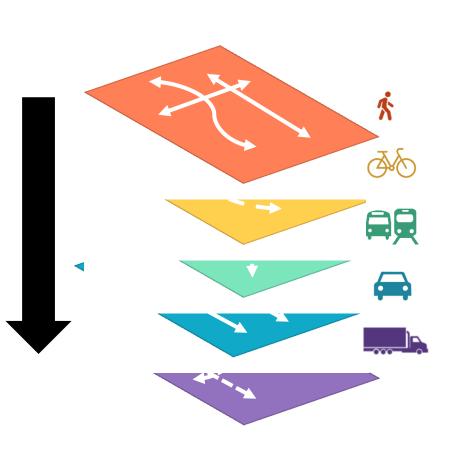


### 2051 Mode Share Targets – Character and Neighbourhood

	Existing Mode Share (TTS)			Mode Share Targets				
Mode Share Layer	Α	т	В	w	A	т	В	w
Global (All Trips)	91%	3%	1%	5%	70%	15%	6%	9%
Downtown	90%	3%	2%	4%	50%	16%	15%	19%
Residential	91%	3%	0%	5%	72%	15%	5%	8%
Rural / Developing	98%	2%	0%	0%	96%	3%	1%	0%
Older Built-Up Area	88%	3%	3%	6%	70%	15%	6%	9%
Business Park	91%	3%	1%	6%	75%	15%	3%	7%

		Existing Mode Share (TTS)				Mode Share Targets					
	Mode Share Layer		Α	т	в	w	Α	т	В	w	
	1	ELIZABETH GARDENS	Older Built-Up	92%	3%	1%	5%	73%	15%	4%	8%
	2	PINEDALE*	Business Park	89%	3%	1%	7%	72%	17%	3%	8%
	3	SHORE ACRES	Older Built-Up	87%	4%	4%	5%	69%	15%	8%	8%
	4	LONGMOOR	Business Park	85%	4%	1%	10%	71%	15%	3%	11%
	5	ROSELAND	Older Built-Up	85%	3%	3%	8%	68%	15%	6%	11%
	6	DYNES	Business Park	94%	3%	1%	3%	78%	15%	3%	4%
	7	CENTRAL*	Downtown	90%	3%	2%	4%	50%	16%	15%	19%
	8	PLAINS*	Residential	92%	5%	0%	3%	72%	17%	5%	6%
	9	CORPORATE	Business Park	89%	3%	0%	7%	73%	15%	3%	9%
	10	THE ORCHARD	Residential	88%	4%	0%	8%	69%	15%	5%	11%
	11	TANSLEY	Business Park	96%	1%	1%	2%	81%	14%	3%	2%
	12	MILLCROFT	Residential	93%	2%	1%	4%	74%	14%	5%	7%
	13	ALTON VILLAGE	Residential	85%	3%	1%	11%	67%	15%	5%	13%
	14	PALMER	Business Park	90%	2%	1%	7%	75%	14%	3%	8%
	15	HEADON FOREST	Residential	87%	3%	1%	10%	69%	14%	5%	12%
	16	MOUNTAINSIDE	Residential	97%	1%	0%	2%	77%	13%	5%	5%
	17	BRANT HILLS	Residential	88%	4%	0%	8%	70%	15%	5%	10%
	18	TYANDAGA	Residential	96%	3%	0%	1%	77%	15%	5%	3%
	19	ALDERSHOT*	Residential	95%	2%	1%	3%	73%	17%	5%	5%
	20	ALDERSHOT N	Rural	98%	1%	1%	0%	97%	2%	1%	0%
	21	RURAL BURLINGTON	Rural	97%	3%	0%	0%	95%	4%	1%	0%

#### Upcoming Deliverable - Ideal Mode Plans



- Dillon is developing the draft *Ideal Mode Plans* for walking, cycling, transit, truck, and cars
- Each Mode Plan shows the desired + unconstrained long-term network for that mode, in isolation of other modes
- Mode Plans will be overlaid on top of each other, identifying areas of necessary trade-offs
- Different combinations of the different Mode Plan elements will lead to Alternative Solutions



### Network Planning Parameters (aka Guidelines)

- Network Planning Guidelines are the fundamental parameters of network design for each Ideal Mode Plan
- Each of the proposed Guidelines connect directly to the IMP Goals





Relationship to IMP Goals	Performance Objective	Network Planning Guidelines
Goal 1	Pedestrian network is safe	A pedestrian facility on at least one side of the road is provided on all streets OR street design is modified to create safe environment for mixed traffic
Goal 3Ped network promotesGoal 4walking	Generous sidewalk width and short block lengths provided in high volume areas	
	Distance between crossings of major barriers does not exceed <b>1km</b> *	



## Cycling Network Planning Guidelines

Relationship to IMP Goals	Performance Objective	Network Planning Guidelines
		Corridor "priority level" is continued through intersections (policy)
Goal 1	Goal 1 Cycling network is safe	Cycling facilities meet Book 18 requirement (policy)
Goal 2		Spine Network is AAA (Spine Network is similar to arterials for cars)
Goal 3cycling for a broad populationGoal 4of cyclists	Crossings of major barriers does not exceed 2000m	



Relationship to IMP Goals	Performance Objective	Network Planning Guidelines
Goal 3 Goal 4	Transit service attracts car trips	Transit service in urban areas is competitive with car travel
Goal 4	Transit network minimizes bus delays	Transit network permits/accommodates priority measures (like dedicated lanes, queue jump lanes, transit signal priority, etc.) in high activity corridors and/or in corridors where transit is the preferred first commuter option



Relationship to IMP Goals	Performance Objective	Network Planning Guideline
Goal 1	Truck network separates trucks safely from conflicts with other modes	Vehicle lanes are separated from pedestrians and cyclists
Goal 3 Goal 5	Truck network connects high activity truck areas (i.e. industrial areas) to freeways	<i>Permissive</i> or <i>Restrictive</i> truck routes connect industrial areas to freeways and have wide curb lanes



## Cars Network Planning Guidelines

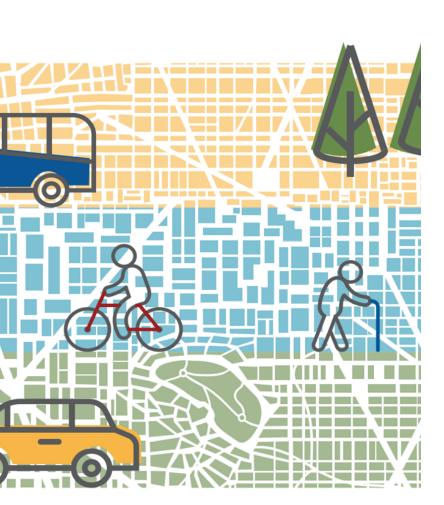
Relationship to IMP Goals	Performance Objective	Network Planning Guidelines
Goal 3	Car mobility network is complete	Arterial network connects all neighbourhoods to freeways
Goal 1	Car mobility network is safe	Arterial network is made up of three to four lanes
Goal 2	Car mobility network avoids gridlock	<b>Peak period</b> car demands are limited to built capacity (V/C > 1.2)



Relationship to IMP Goals	Performance Objective	Network Planning Guideline
Goal 6	Street network is resilient	Core arterial network has a minimum ROW, which protects for future options/flexibility of space*
Goal 3	Street network are integrated/ complete	Policy statement - supports development of prioritization process



#### Next Steps



#### **Enabling Strategy**

- 1. Develop remaining four Lived Experience Papers
- 2. Publish Existing Conditions and Strategic Directions StoryMap in June 2021 for public engagement

#### **Network Strategy**

- 1. Finalize the network planning parameters
- 2. Submit draft Ideal Mode Plans for each mode for technical review
- 3. Develop Alternative Solutions and Evaluation Criteria
- 4. Engage with public on Problem Statements, Alternative Solutions, and Evaluation Criteria in July 2021

