Sustainability Metrics: Updates and Uptake to Date



May 19, 2017 Clean Air Partnership Green Development Workshop



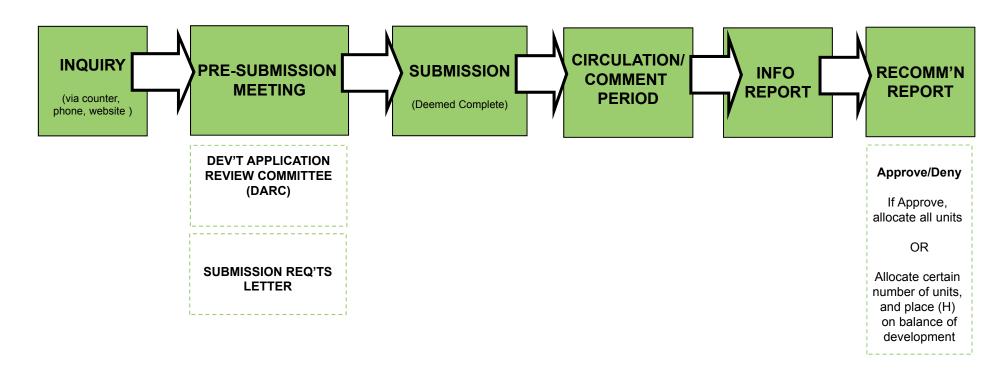
Background – Previous Process

(used between 2008-2014)



SYNTHESIZE COMMENTS, REVISE PLAN, & CONFIRM IGMS

(Confirm which of 8 IGMS Criteria are to be provided)



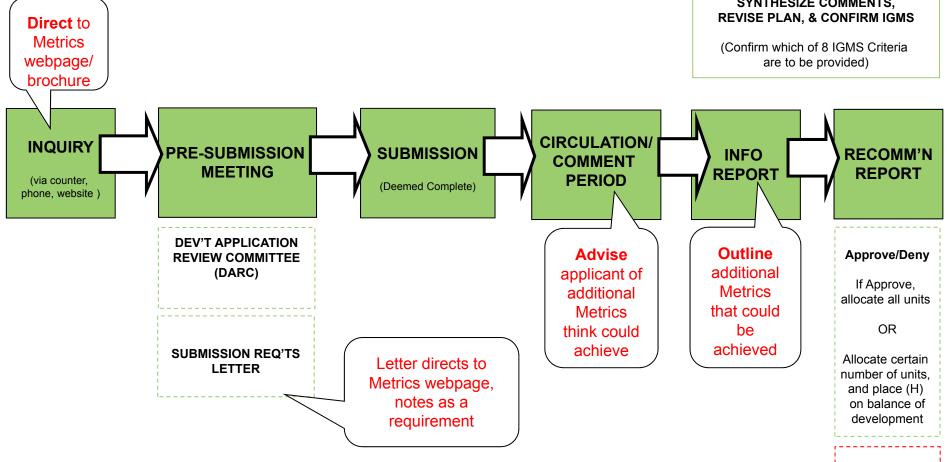
Background – Integrating Sustainability Metrics

(used March 2014 - present)



Confirm Metrics Score for Recomm'n Report

SYNTHESIZE COMMENTS.



Enter Final Score into **Monitoring Tool**

Background – 2014 "Threshold Scores"

(approved by RH Council Feb. 24, 2014)

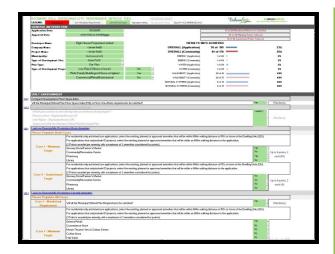


PERFORMANCE ACHIEVED	THRESHOLD
RH MINIMUM (OP/BY-LAW Requirements)	12- 20 POINTS (Draft Plan) 16-31 POINTS (Site Plan)
GOOD (Required to "Play Ball" in RH)	21-35 POINTS (Draft Plan) 32- 45 POINTS (Site Plan)
VERY GOOD	36-55 POINTS (Draft Plan) 46-65 POINTS (Site Plan)
EXCELLENT	+56 POINTS (Draft Plan) +66 POINTS (Site Plan)

Sustainability Metrics Tool



(Excel tool used to quantify/rank the sustainability performance of draft plan and site plan proposals)





Aspirational targets

Minimum targets

Mandatory targets

Sustainability Metrics Category	Performance	Indicators
Built Environment	 Compact Development Land Use Mix & Diversity Green Buildings Site Accessibility Housing Unit Mix Landscape and Street Tree Planting/ Preservation 	 Natural Green Space Parking Pedestrian Connections Cultural Heritage Community Form Tree Canopy Natural Heritage
Mobility	 Site Permeability Transit Supportive Active Transportation Walkability Street Network / Block 	
Natural Environment & Open Space	ParksStormwaterUrban AgricultureNatural Heritage SystemSoils and Topography	
Infrastructure & Buildings	 Energy Conservation Potable Water Lighting Bird Friendly Design Materials & Solid Waste Management Heat Island 	

2015 Capacity Building Workshop:

Planner as "Quarterback" & Coordinator with other Divisions





Informing Customers
About the Metrics



Improving Sustainability Together



Leading Change (Planning Application with Appropriate Metrics Provided)



Engaging Others (Commenting Experts)

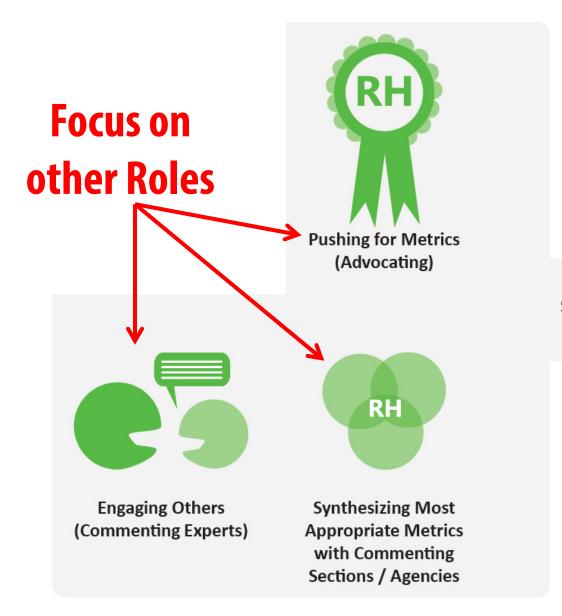


Synthesizing Most Appropriate Metrics with Commenting Sections / Agencies

2015 Capacity Building Workshop:

Planner as "Quarterback" & Coordinator with other Divisions





Improving Sustainability Together



Leading Change (Planning Application with Appropriate Metrics Provided)



FOR 2014 - 2017

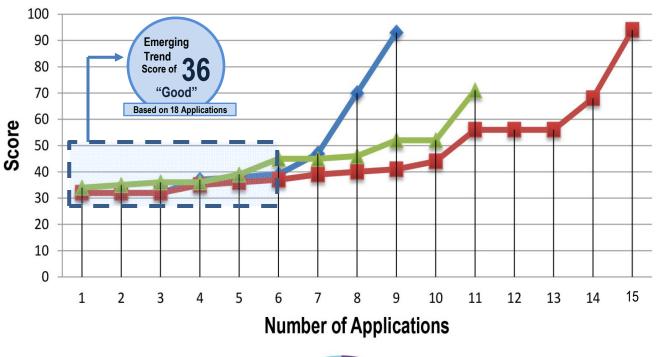
Sustainability Performance Metrics Tool

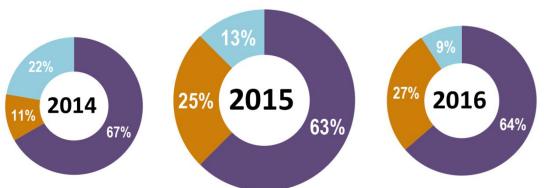
Overall High Scores + Overall Low Scores



Sustainability Metrics

2014-2016 TRENDS





Site Plans 2014-2016

9 Apps in 201415 Apps in 201511 Apps in 2016

- Values are based on <u>35</u> submitted applications
- Number of applications receiving <u>Very Good</u> is increasing
- The median score throughout the years is increasing

	Mean	Median
2 014	47	38
2 015	46	40
2 016	45	45



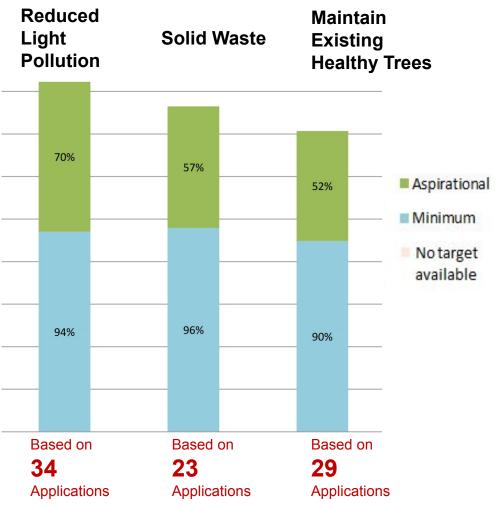


Top Five Sustainability Metrics that have the Highest Uptake

Site Plans 2014-2016

Overall 35 Applications







Top Five Sustainability Metrics that

have the Highest Uptake

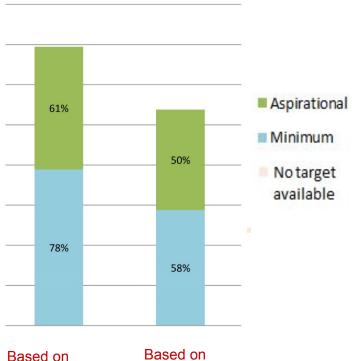


50%+ are achieving their Min & **Asp targets**

Site Plans 2014-2016

Overall 35 Applications

Bicycle Parking (Comm/Res/Inst) **Number of** Universally **Accessible Points of Entry**



18 **Applications**

35 **Applications**

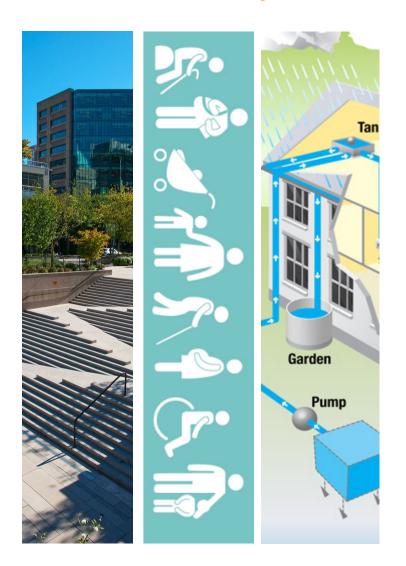


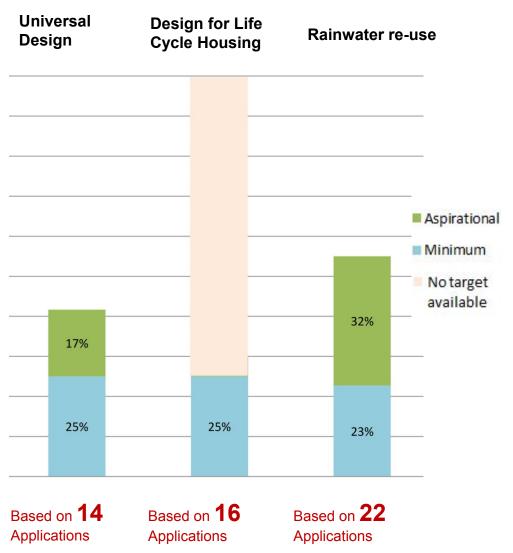
Top Five Sustainability Metrics that

Site Plans 2014-2016

Overall 35 Applications

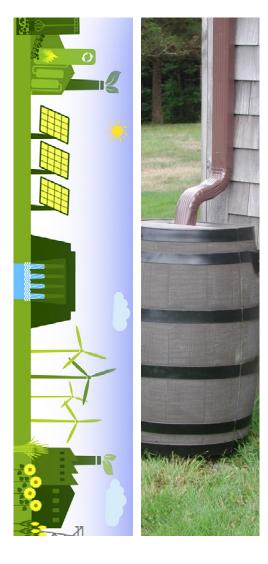
have the Lowest Uptake







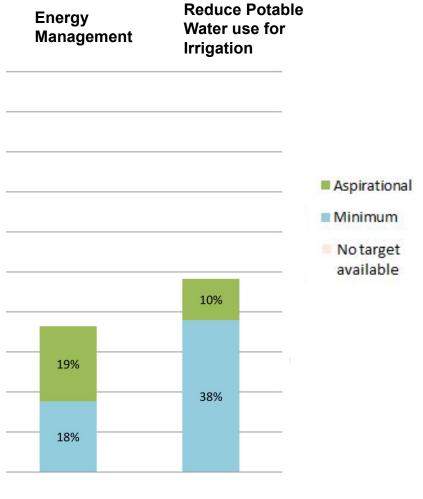
Top Five Sustainability Metrics that have the Lowest Uptake



50%+ are <u>not</u> achieving their Min & Asp targets

Site Plans 2014-2016

Overall 35 Applications



Based on **34**Applications

Based on **29**Applications

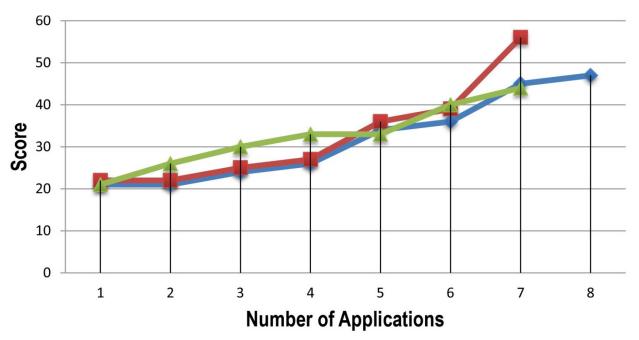


Sustainability Metrics

2014-2016 TRENDS

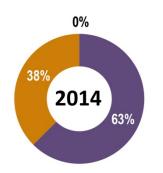
Draft Plans 2014-2016

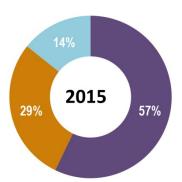
8 Apps in 2014 7 Apps in 2015 7 Apps in 2016

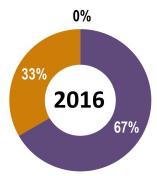


- Values based on <u>22</u> submitted applications
- 2015-16 applications scored on average higher then 2014 applications
- The median score in 2016 was 33 (Good) which was higher than other years

	Mean	Median
2014	32	30
2015	32	27
2016	33	33









■ Good

Excellent

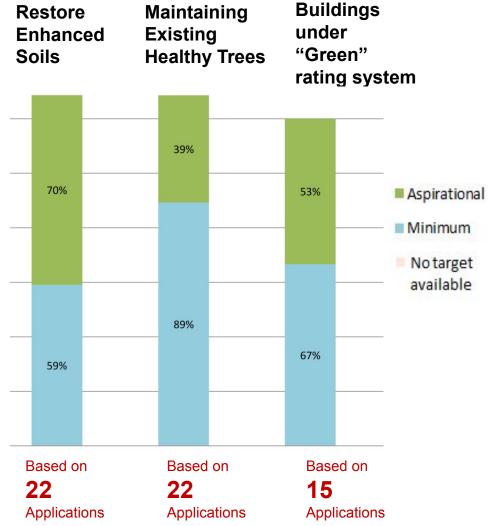


Top Five Sustainability Metrics that have the Highest Uptake

Draft Plans 2014-2016

Overall 22 Applications







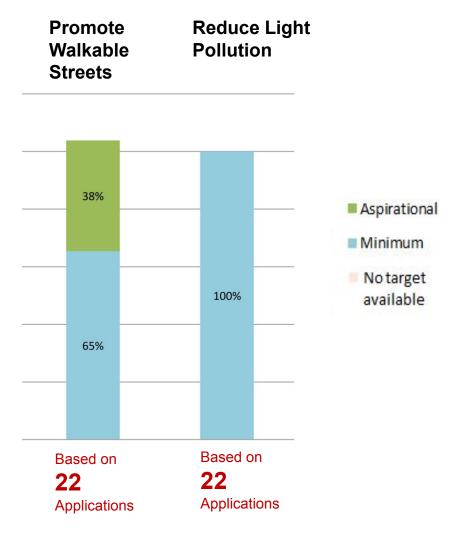
Top Five Sustainability Metrics that have the Highest Uptake

Draft Plans 2014-2016

Overall 22 Applications



50% + are achieving their Min targets



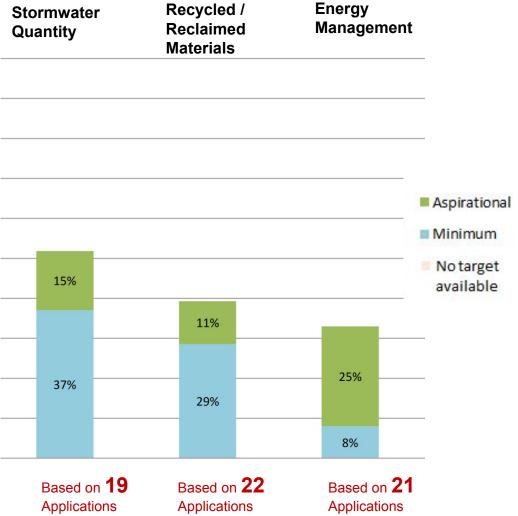


Top Five Sustainability Metrics that have the **Lowest Uptake**

Draft Plans 2014-2016

Overall 22 Applications







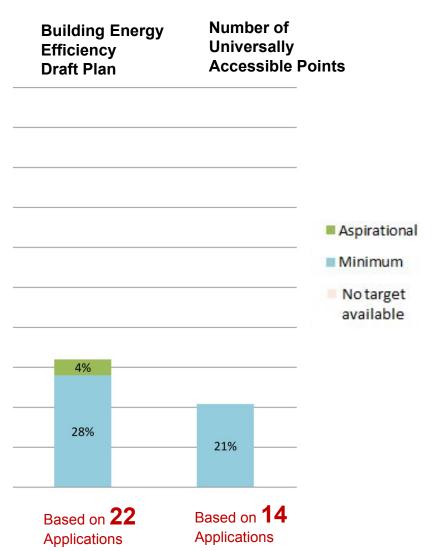
Top Five Sustainability Metrics that have the Lowest Uptake

Draft Plans 2014-2016

Overall 22 Applications



50%+ are not achieving their Min & Asp targets





Site Plan Applications

How Did We Do?



TOP 3 'EASY WINS" TO PUSH FOR



% Tree Canopy within Proximity to Building



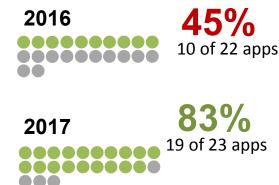
Water Conserving Fixture



Stormwater Quantity (LID)

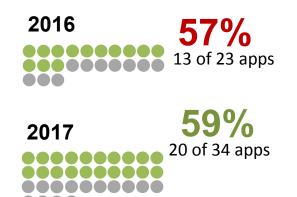
Minimum Metric:

Provide shade for at least 50% of the walkway

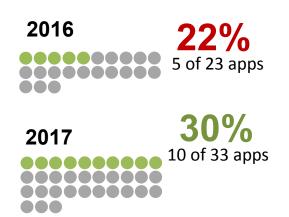


Minimum Metric:

10-20% Reduction over baseline fixtures



Aspirational Metric: Retain 15 mm Rainfall Volume



Draft Plan Applications

How Did We Do?



TOP 3 'EASY WINS" TO PUSH FOR



Promote Walkable Streets

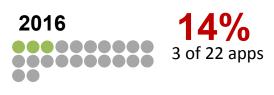


Building Energy Efficiency



% Canopy Coverage

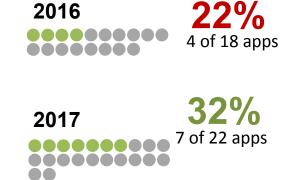
Aspiration Metric: Contain Continuous Sidewalks





Minimum Metric:

> 75% achieve EnerGuide 83 of higher



Aspiration Metric: Tree-lined Streets





Next Steps

Richmond Hill

2017 and beyond



Sustainability Metrics Update/Incentives Project (initiating fall 2017)



Should RH adjust our Thresholds to be higher?

(i.e. like Brampton's — approved March 2015 and given the recent TGS Update)

Brampton Thresholds								
	Base	line	Minimum/	Bronze S		ilver	Aspirational	
	Min	Max	Min	Max		Min	Max	/Gold
Site Plan	21	34	35	52		53	69	70+
Block Plan	23	29	30	38		39	48	49+
Draft Plan	21	28	29	39		40	50	51+

Richmond Hill Approved Thresholds									
	Basel	ine		Minimum/Good			Very	Eveellent	
	Min	Мах		Min	Max		Min	Max	Excellent
Site Plan	16	31		32	45		46	65	66+
Draft Plan	12	20		21	35		36	55	56+

Waste Dev't Standard Update

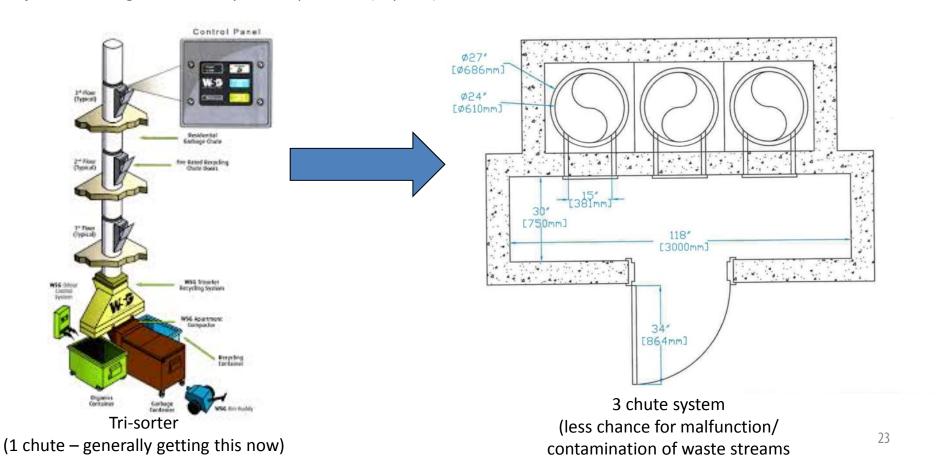
(re-initiating summer 2017)



3-Stream Metric

Minimum Target – Storage and collection areas for recycling and organic waste are within or attached to the building or deep collection recycling and organic waste storage facilities are provided (1 point). (Single family developments are exempt from minimum requirements).

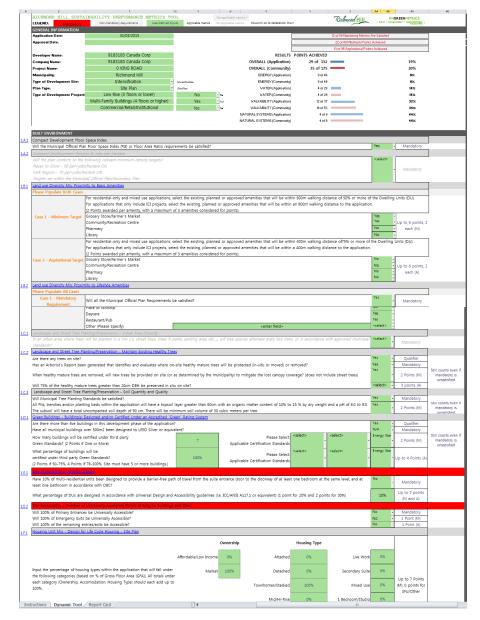
Aspirational target - 3 chute system is provided (1 point)



New Sustainability Metrics Webform

(under development)

Current – Excel Chart





Future – Webform (in process)

Built Environment		+			
Mobility		-			
All fields marked with an * are required to submit the form.					
Mobility					
2.B.1 Street Networks/Blocks - Block Perimeter/Length					
Verify the following statement, 75% of block perimeters do not exceed 550m and 75% of block lengths do not exceed 250m.	Please select •	2 Points (M)			
Verify the following statement, 100% of block perimeters do not exceed 550m and 100% of block lengths do not exceed 250m.	Please selec: ▼ Please selec Ves	2 Points (A)			
Is the site within 800m walking distance to an existing or planned commuter rail, light rail, bus rapid transit or subway with frequent service? Alternatively, is the site within 400m walking distance to 1 or more bus stops with frequent service? (This Minimum Target must be met in order to earn Aspirational Points)	No ▼	3 Points (M)			
Is the site within 400m walking distance to an existing or planned commuter rail, light rail, bus rapid transit, or subway with frequent service? Alternatively, is the site within 200m walking distance to 1 or more bus stops with frequent service?	Please selec' •	3 Points (A)			
2.D.1 Active Transportation - Proximity to Cycle Network					
Does the development plan include any anticipated or existing trails or cycling networks?	Please select •	Qualifier			
2.E.1 Walkability - Promote Walkable Streets					
Are all sidewalks in accordance with applicable Municipal Standards? Sidewalks must be at least 1.5 m in width.	Please select •	Mandatory			
What percentage of streets have continuous sidewalks, or equivalent provisions, provided on both sides of streets? (at least 75% = 2 points, $100\% = 4$ points) (Must meet minimum target of 75% to earn aspirational points)	Please selec: •	Up to 4 points (M and A)			
Have pedestrian amenities been provided to further encourage walkable streets?	Please selec: •	2 points (A)			
Please list pedestrian amenities provided: Wind Breaks Seating Pedestrian Oriented Lighting Winde Sidewalks (Urban Areas) Shading Other (Please Specify)					
Natural Environment and Open Space		+			
Infrastructure and Buildings		+ Submit			

Looking forward:

Helping others to "Regionalize" Green Development Standards

