

Windmill dream

URBAN
EQUATION

ULI Toronto Leadership Program
One Planet Living: Zibi Case Study

Alex Speigel, Windmill Development Group 28 March 2019

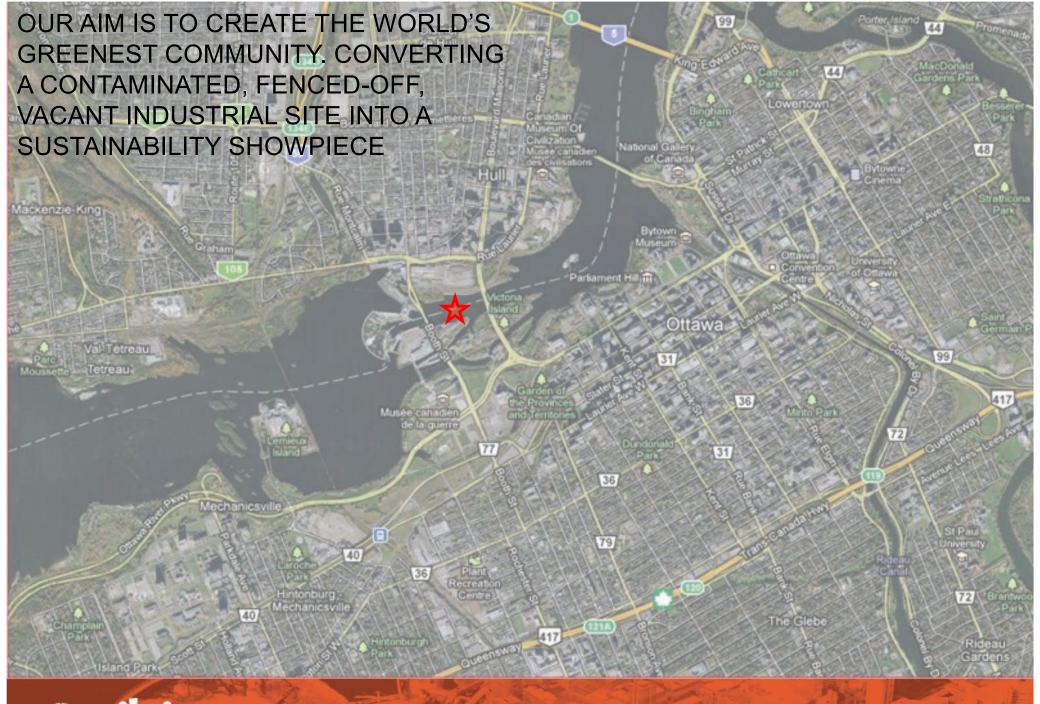






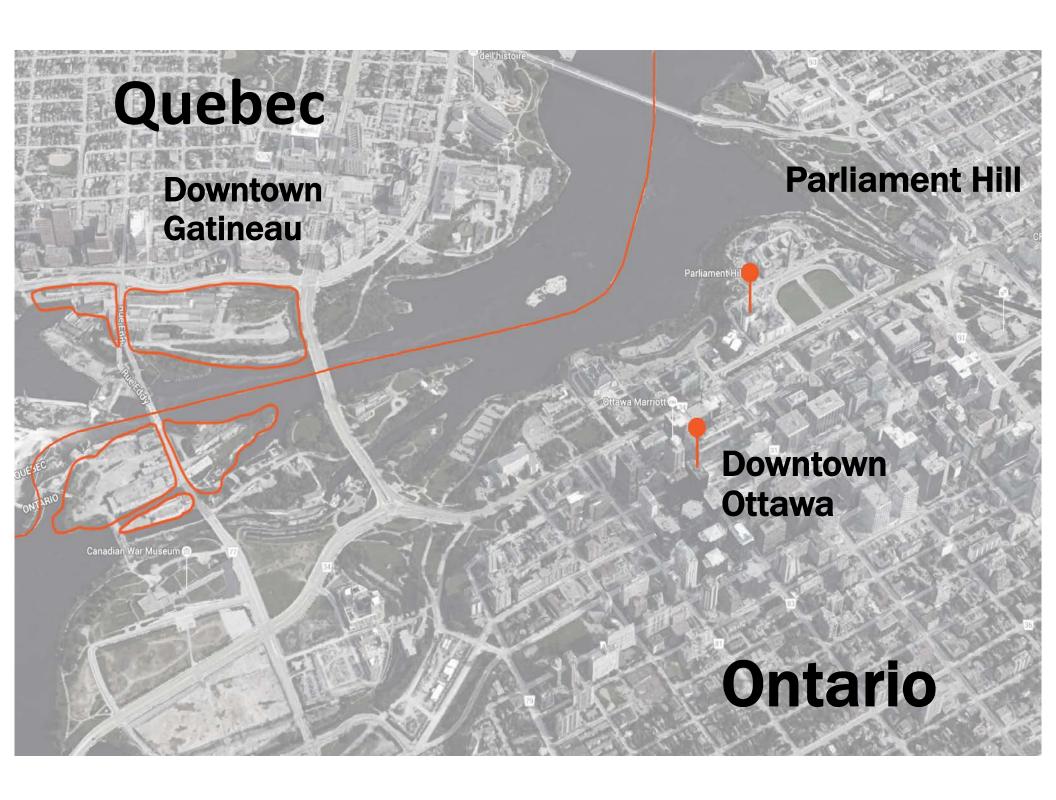














One Planet Living



A vision of a world in which people enjoy happy, healthy lives within their fair share of the earth's resources, leaving space for wildlife and wilderness

OPL: One Planet Living

If everyone on earth had European patterns of consumption, we would need 3 planets to support us.



If everyone had American lifestyles we would need 5 planets.

OPL Framework

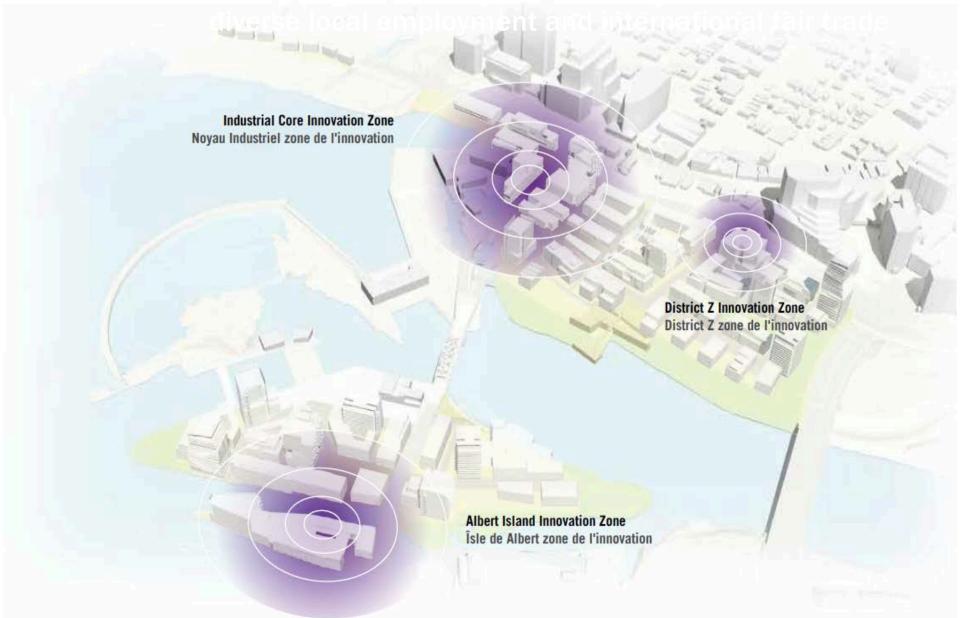












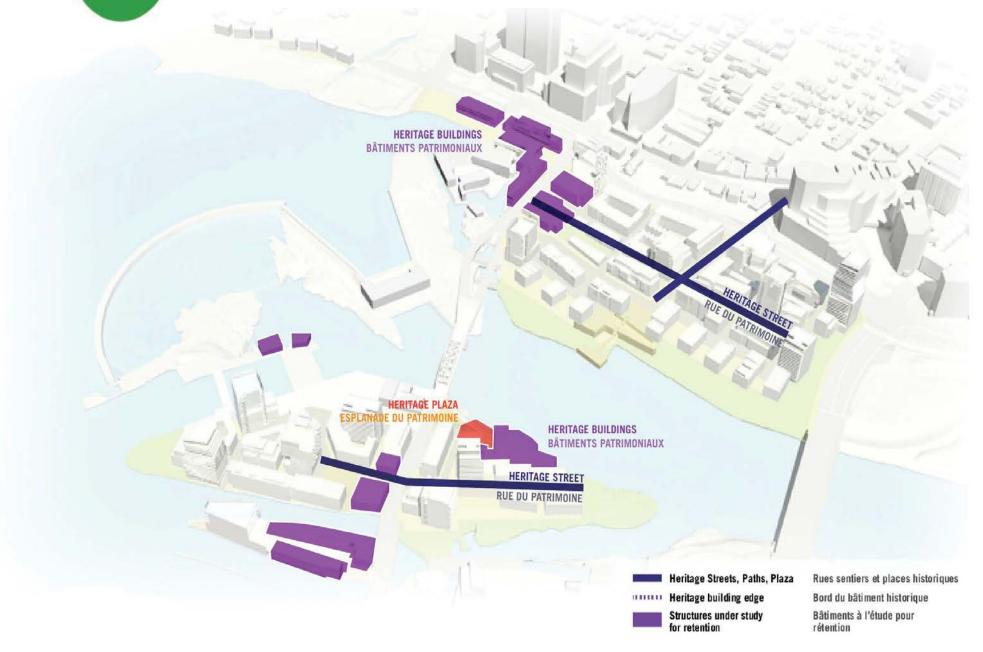


Culture and Community

Respecting and reviving local identity, wisdom and culture; encouraging the involvement of people in shaping their community and creating a new culture of sustainability

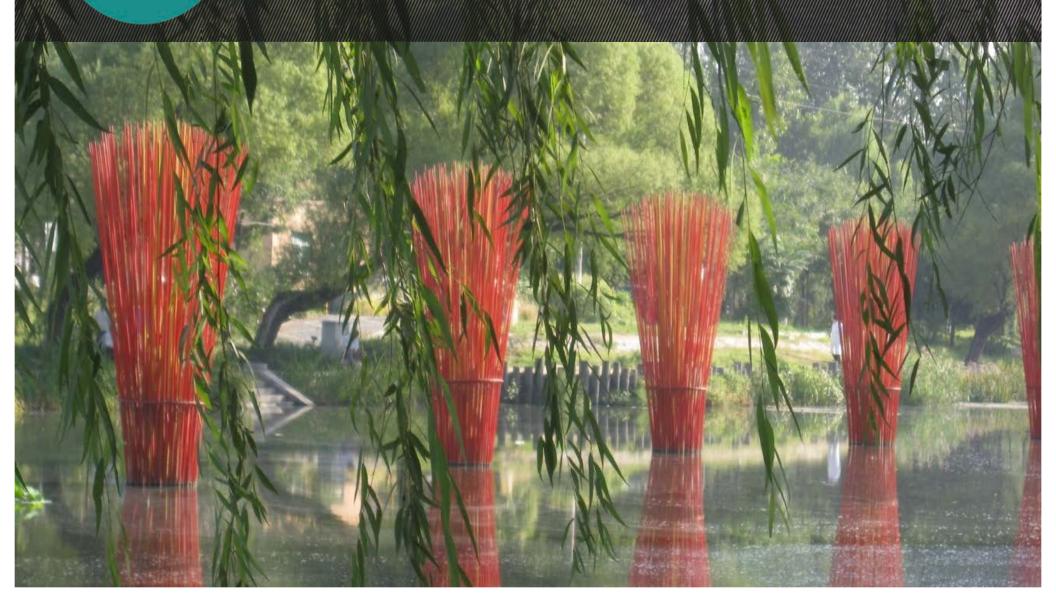


Culture + Heritage

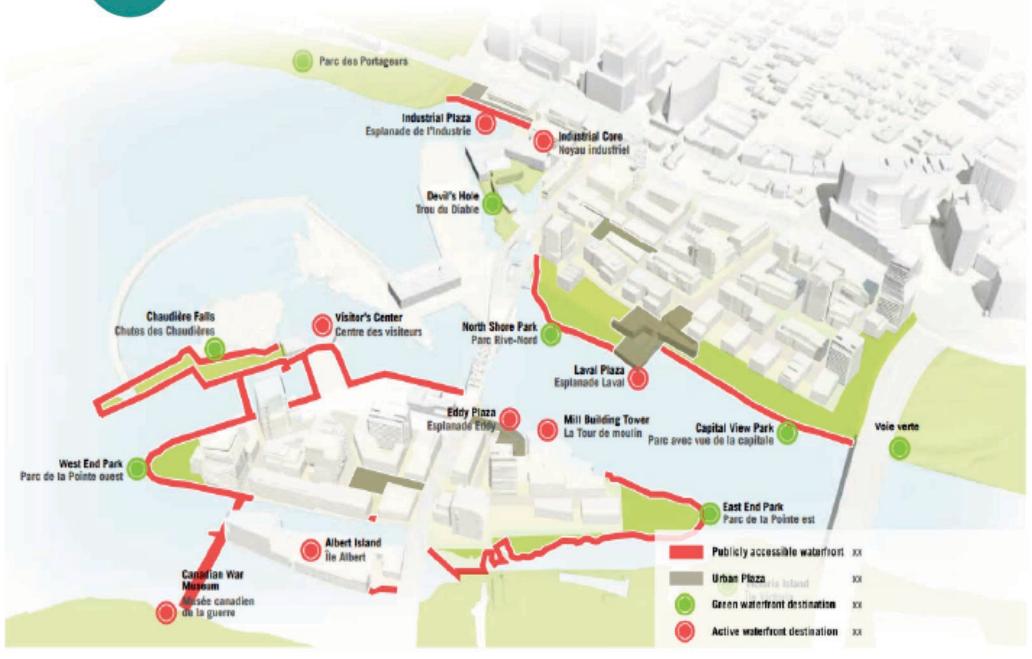




Protecting and restoring biodiversity and creating new natural habitats through good land use and integration into the built environment

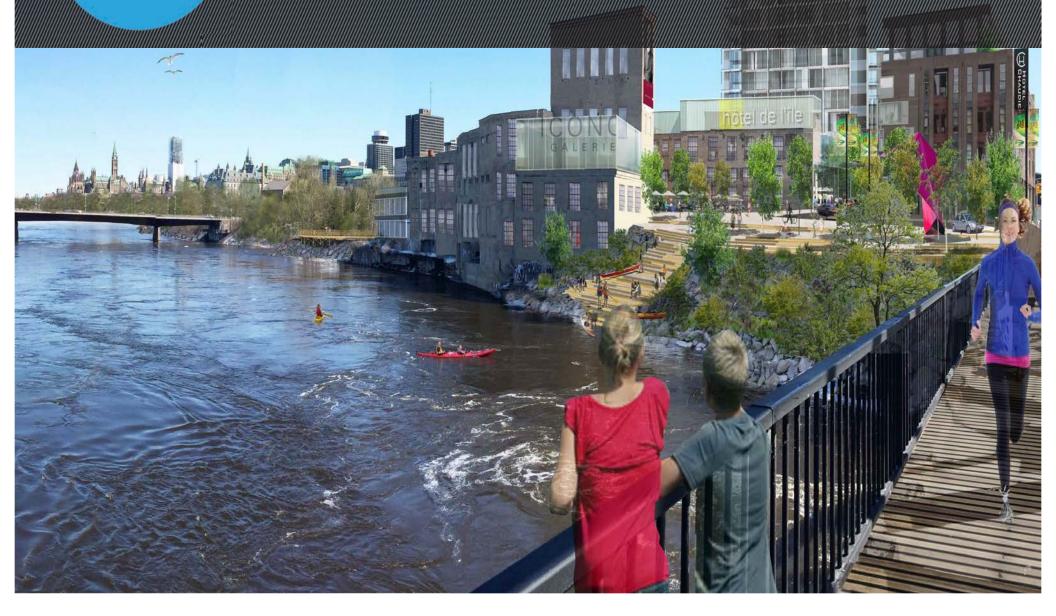


Access to Waterfront

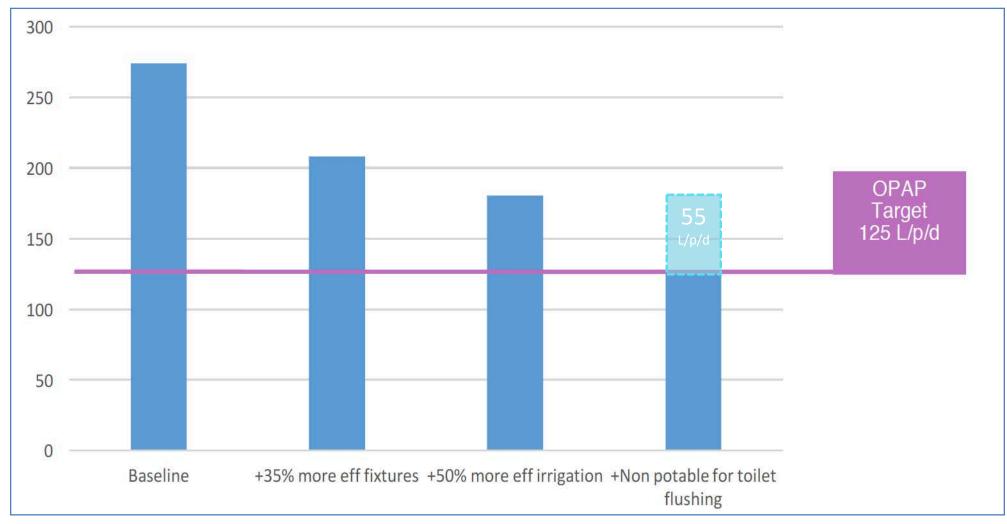




Using water efficiently in buildings, farming and manufacturing. Designing to avoid local issues such as flooding, draught and water course pollution



Water Value Proposition



Potable Water Use L/person/day

Water Value Proposition

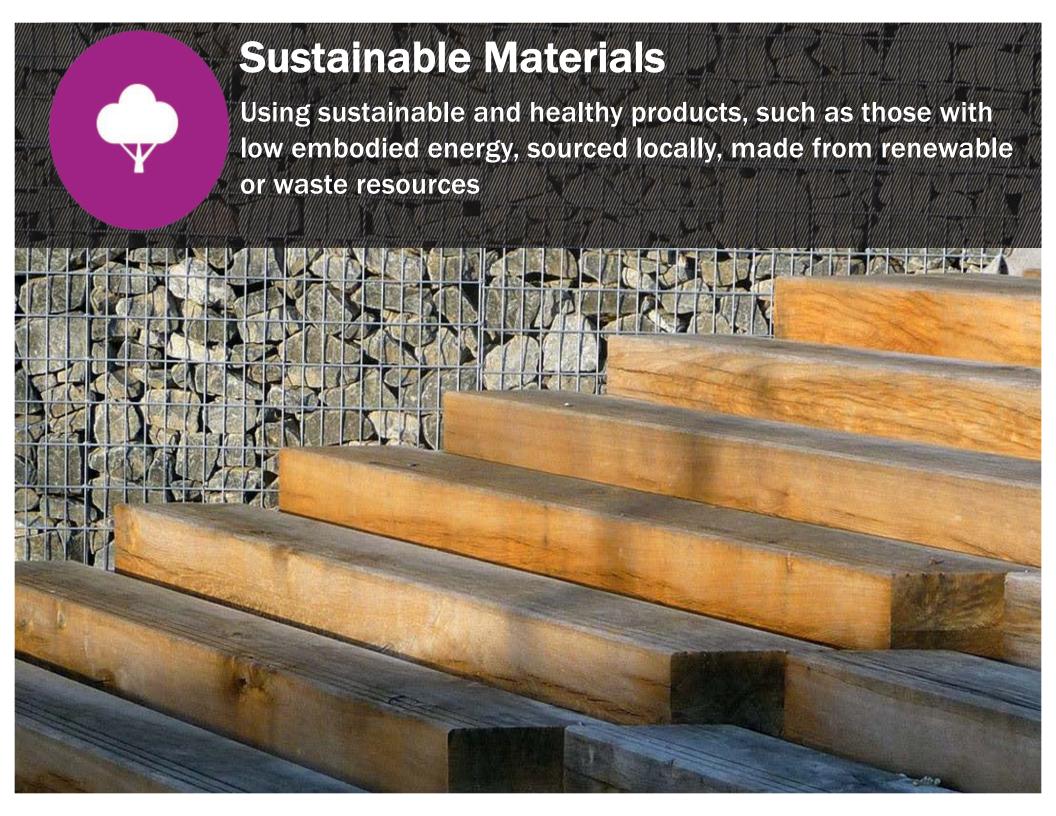
	Riverwater	Greywater	Rainwater
Goals			
Residential potable water =125L/person/day.	Yes	Yes	Contributes
Eliminate potable water use in landscaping.	Yes	Contributes	No
All new buildings will utilize non-potable water for sewage conveyance.	Yes	Yes	No
Residential cost per/sq.ft	\$2.45	\$2.73	\$2.45
Cost per residential flush litre	\$0.15	\$0.17	\$0.36



Local and Sustainable Food

Supporting sustainable and humane farming, promoting access to healthy, low impact, local, seasonal and organic diets and reducing food waste

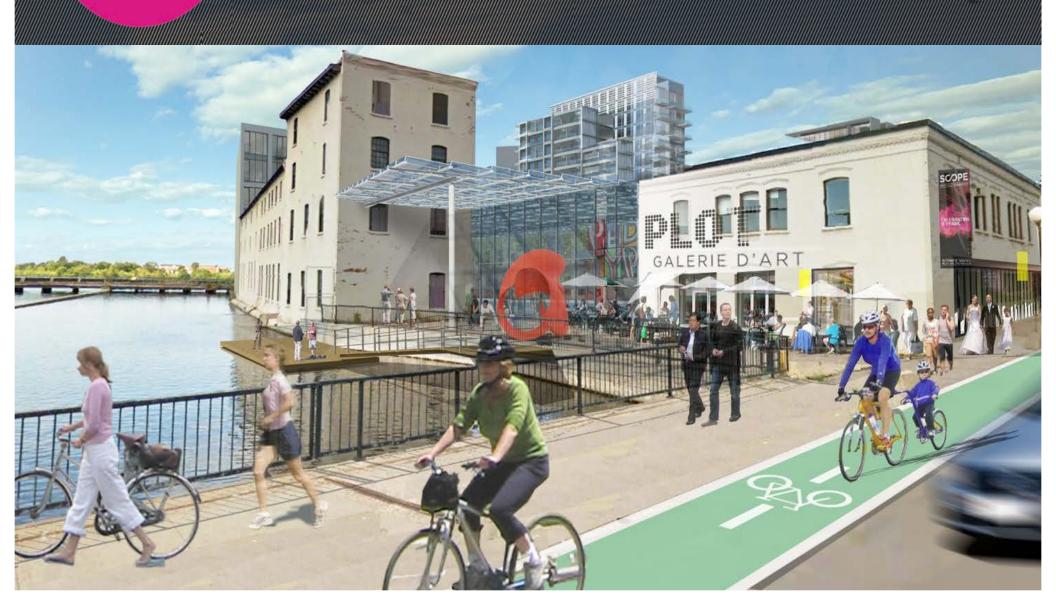




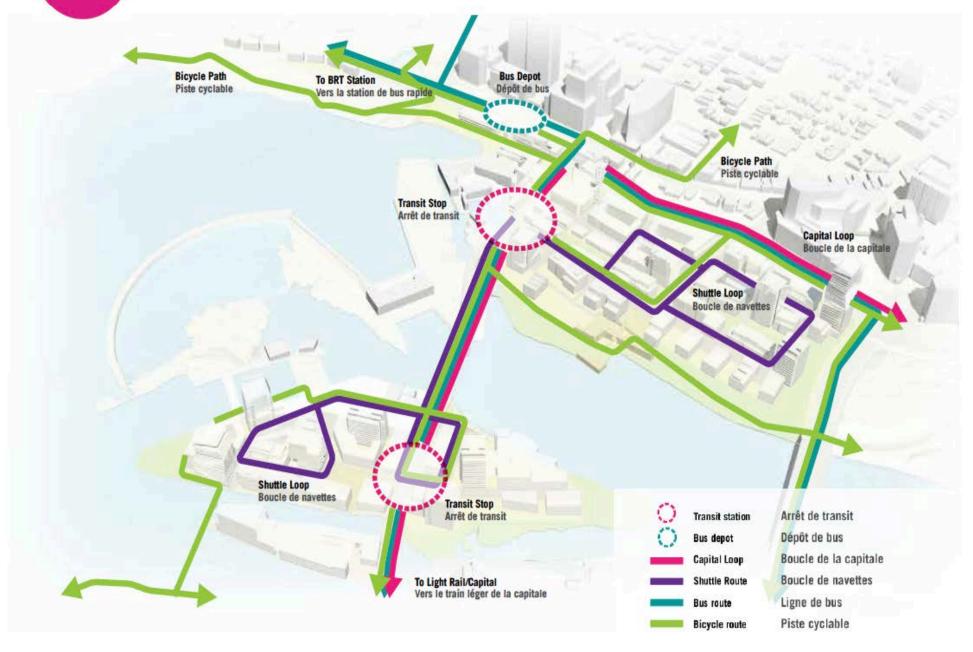


Sustainable Transport

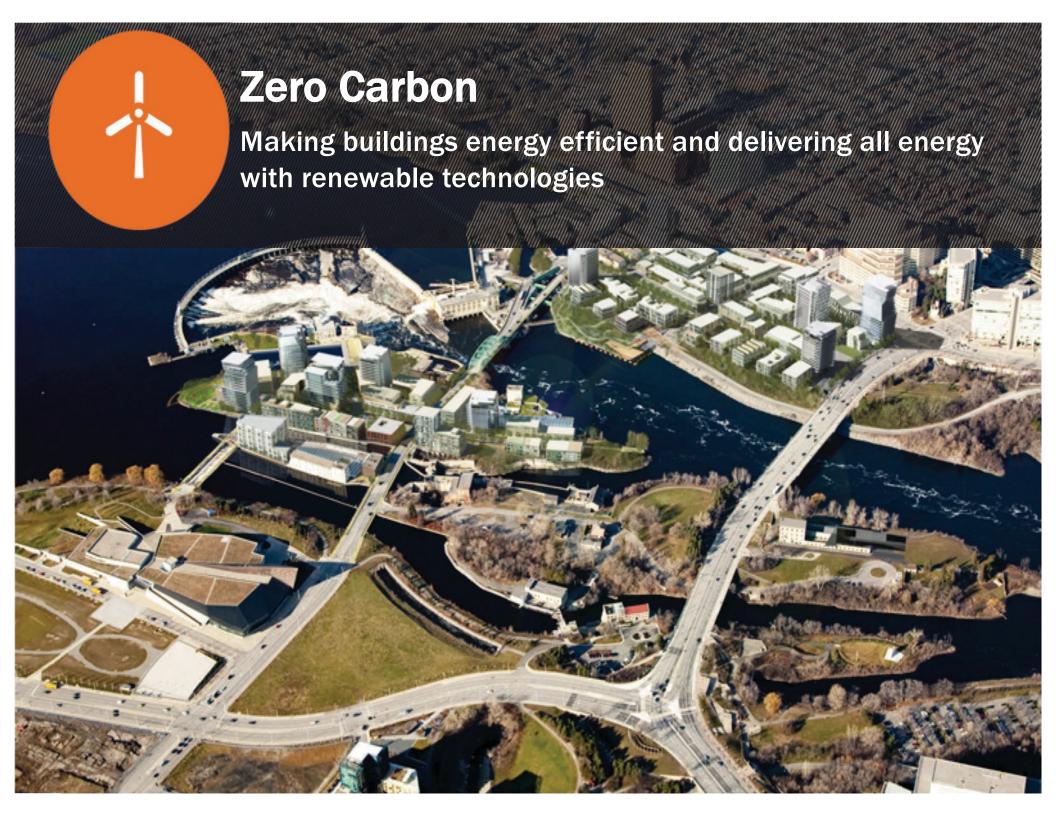
Reducing the need to travel, and encouraging low and zero carbon modes of transport to reduce emissions



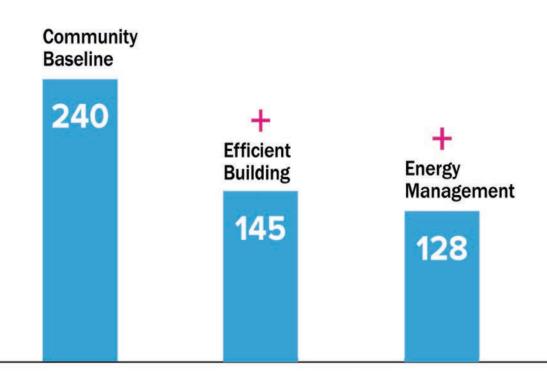








Carbon Neutral Value Proposition



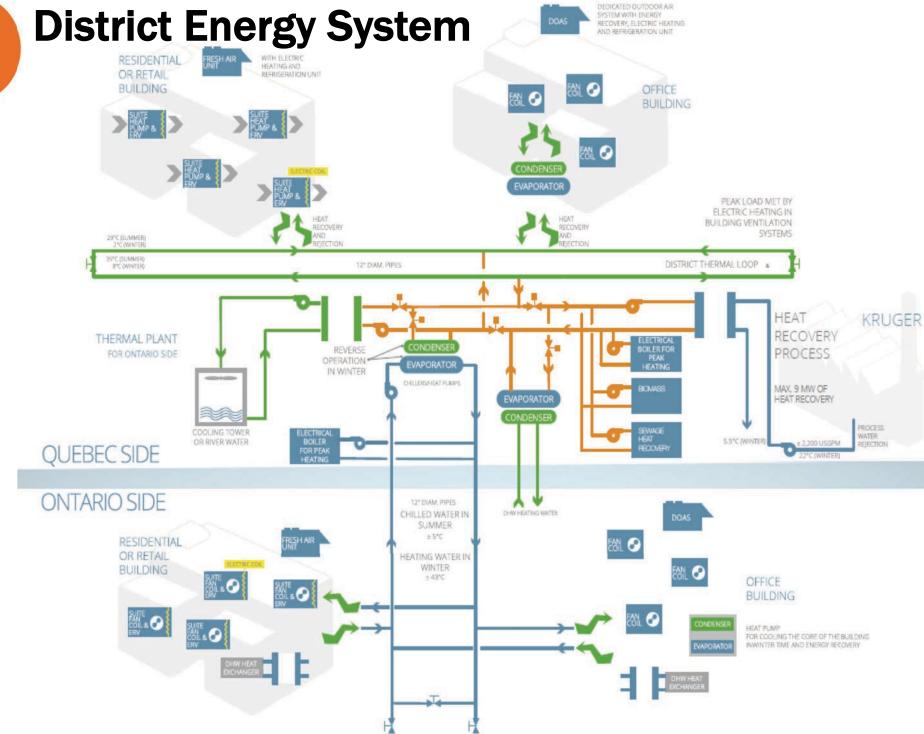
Carbon Neutral

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- -Kruger Waste Heat
- -Run of River Hydro
- -River Water
- -Solar ready roof planes

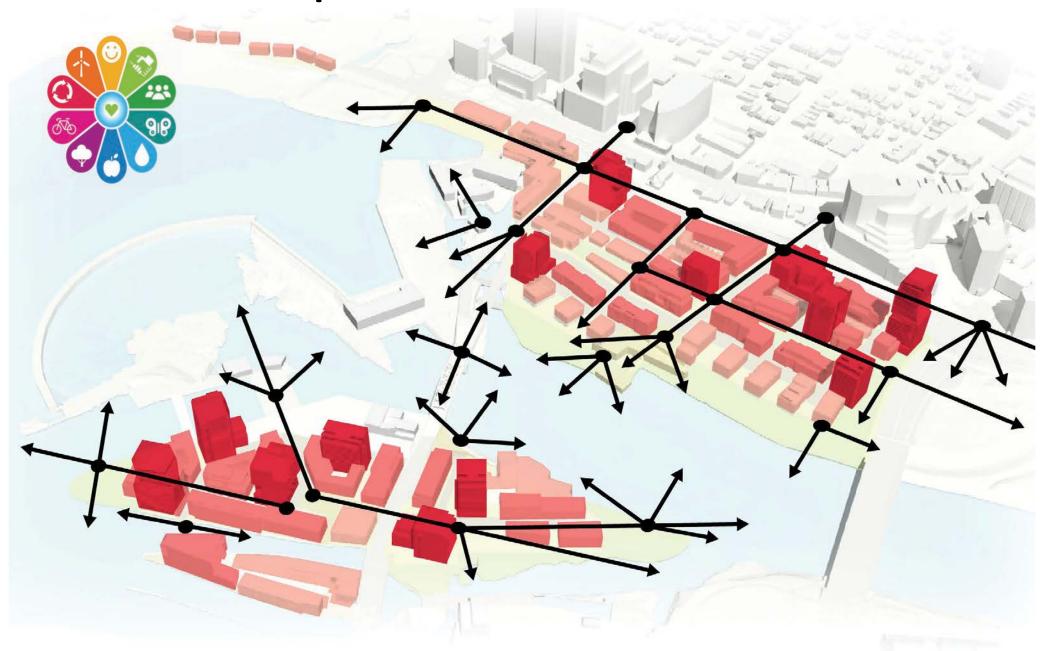
(kWh/sm)



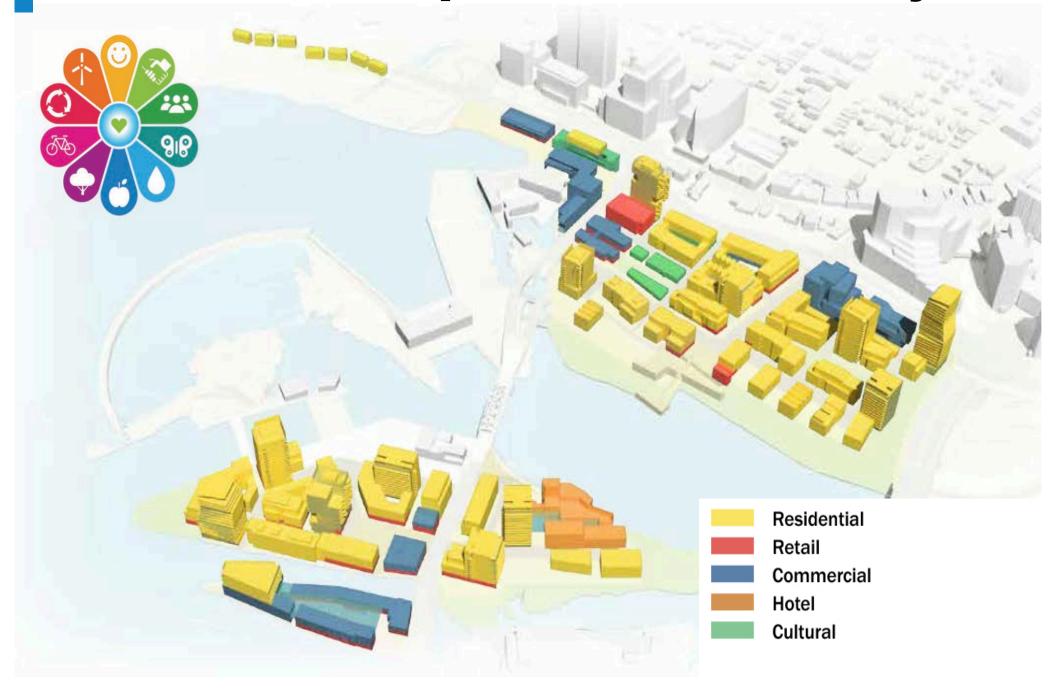




Views Street pattern



Zibi is a Complete Community



OPL: 20-Year Commitment

