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SSG SUSTAINABILITY SOLUTIONS GROUP

whatIf?























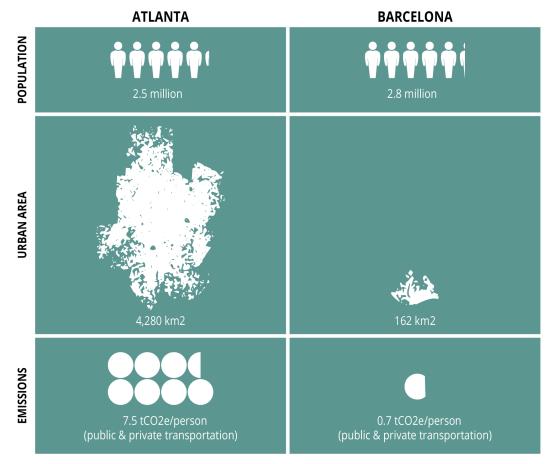








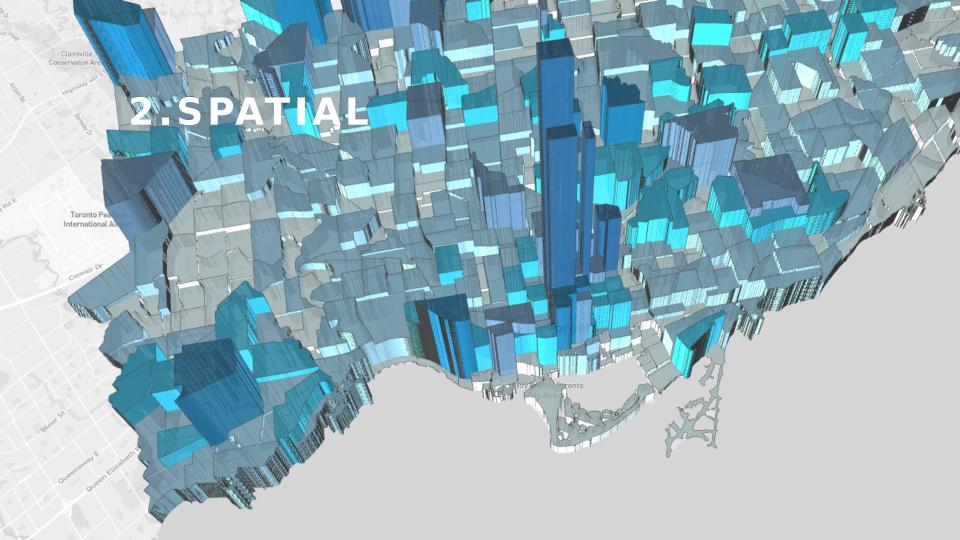
THE IMPERATIVE



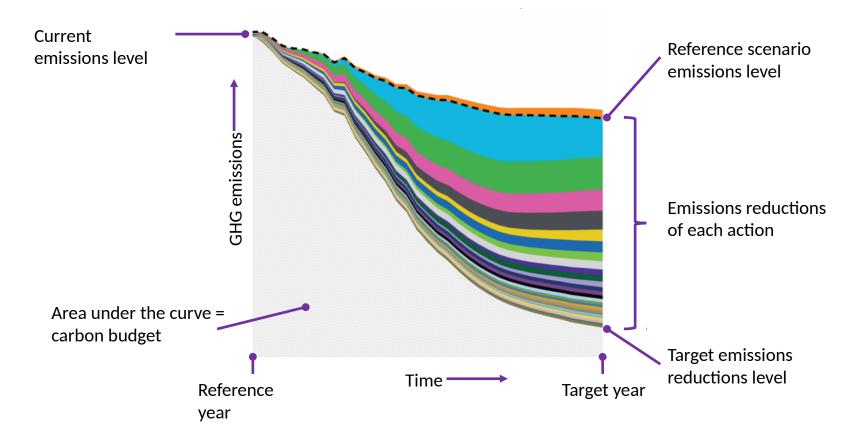
Source: Transit Density: Atlanta, the United States and Western Europe. Bertaud and Richardson, 2004.

LAND-USE ENGINEERING/ CITY AS A **PLANNING INFRASTRUCTURE SYSTEM CLIMATE ECONOMIC ENERGY ACTION UTILITIES DEVELOPMENT PLANNING TRANSIT EQUITY AUTHORITIES**

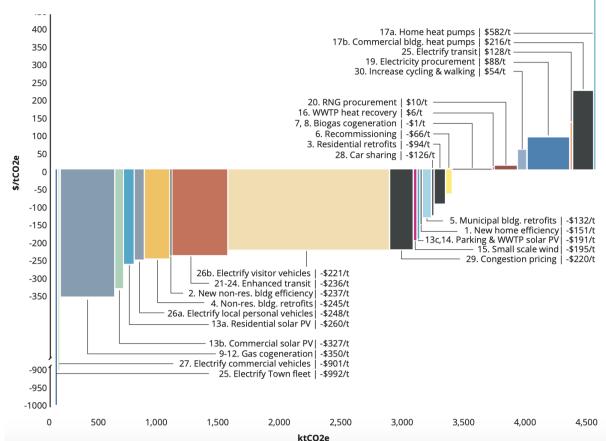
residential local ener energy use production water use conversio INTEGRATED residential population & population buildings households (spatial) (total) (spatial) population personal related daycare edicator vehicles land use accounting 0 services passenger en transit transportation (cc & energy use system non-residential employment buildings ₀ (spatial) (spatial) non-residential energy use commercial



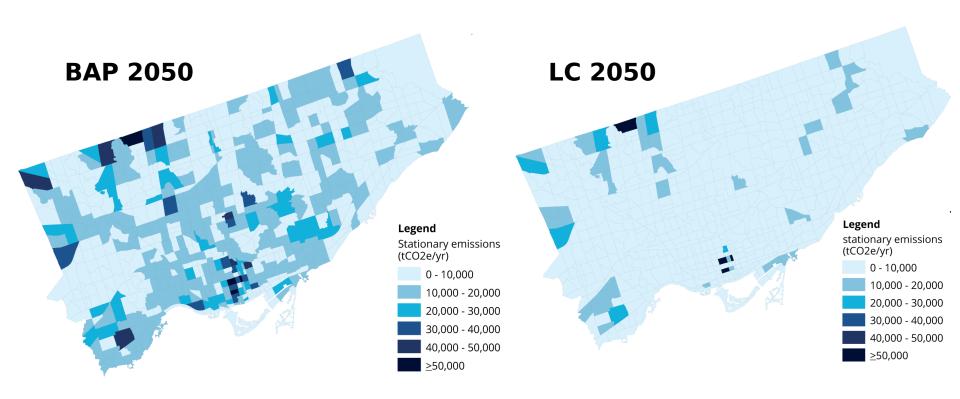
3. DETAILED PATHWAY



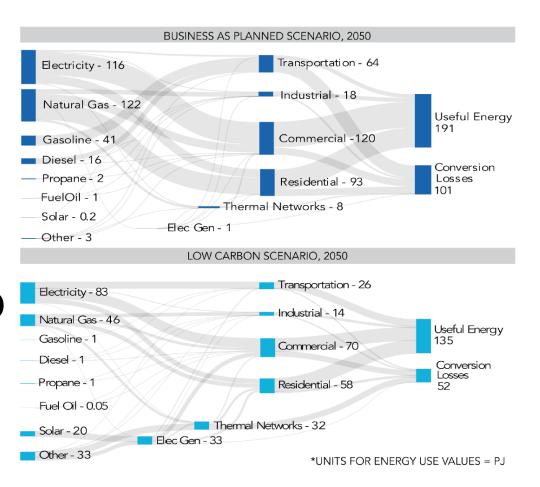
4. FINANCIAL IMPACTS



GHG IMPACTS

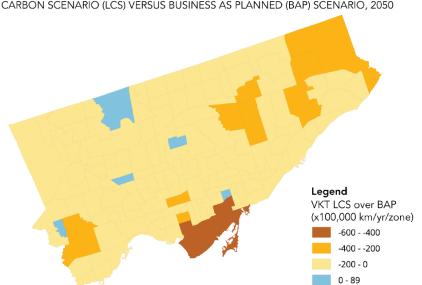


IMPACT ON ELECTRIFICATIO

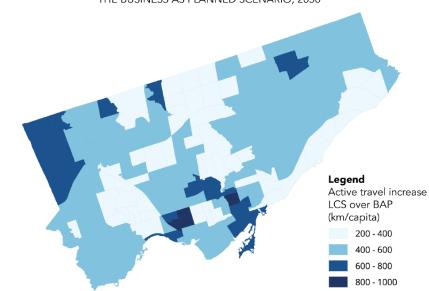


EQUITY HEALTH + WELL-BEING



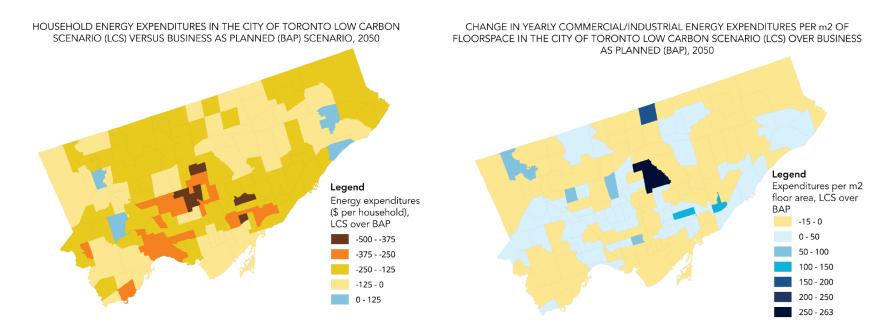


INCREASE IN ACTIVE TRAVEL IN THE CITY OF TORONTO LOW CARBON SCENARIO OVER THE BUSINESS AS PLANNED SCENARIO, 2050



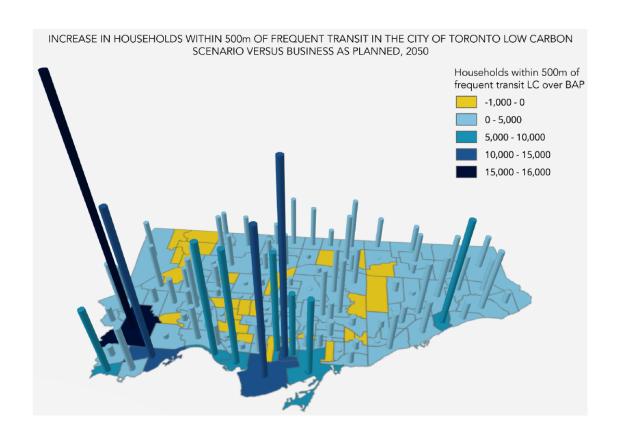
SUSTAINABILITY

AFFORDABILITY



SUSTAINABILITY

ACCESS



TECHNICAL

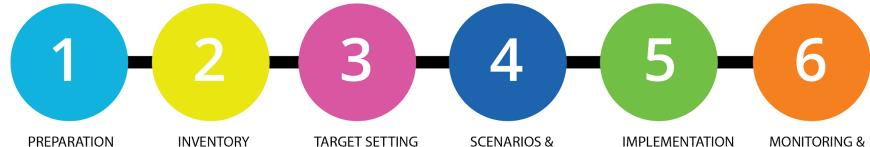
Inventory emissions in the base year and project future emissions in the absence of an explicit plan for reducing them.

Adopt a target year and related target emissions level.

Use the inventory to identify and analyze the impact and costs of measures (i.e. changes in technologies and behaviours, relative to the baseline) required to meet the target; finalize a preferred plan.

Implement the measures.

Measure progress, report results, modify the plan accordingly.



Identify & establish the partnerships and working relationships needed to produce the emissions inventory, and involve the key influencer

(of GHGS in the community) and stakeholders in generating the baseline outlook. **TARGET SETTING**

Engage the influencer /stakeholder community in the target setting exercise or, in the case of an externally established target, in the explanation of the rationale for the target.

SCENARIOS & ACTIONS

Work with influencers and stakeholders to identify alignments and/or conflicts between their goals and aspirations and the measures for achieving a low carbon outcome.

IMPLEMENTATION

Implement policies, strategic partnerships, bylaws and other identified opportunities for accelerating adoption of the measures in the plan through targeted support of the key GHG influencers

MONITORING & EVALUATION

Work with stakeholders and partners to share data, assess progress, and continuously improve the plan.

HUMAN

ENGAGEMENT

CituinSight Disclaimer Definitions Projections - Scenario Selection: BAP - Low Carbon -



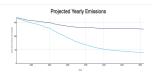
TransformTO

Projected Changes in Annual Emissions

GHG emissions in Toronto are projected to decrease over the next 30 years. In the Business as Planned scenario (assuming all current plans and programs are achieved) the decline is evident, however it is not enough to reach our 2050 target of 80% reductions by 2050. There is a gap of approximately 8.7 million tonnes of carbon between our project 2050 emissions and our goal.

To close the gap, TransformTO: Report #2, was unanimously approved by Toronto City Council in July 2017.

Analysis shows that the 2050 goal is achievable with existing technologies, but it means bold action is required to transform Toronto's urban systems -buildings, energy, transportation and waste. Where Toronto is already on the correct trajectory, we need to stay the course. In other areas, we need to increase the scale and

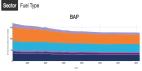


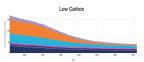
Projected Changes of Emissions Year 2050

- Over 2011
- Over BAP (2050)

Scenario	Total Emissions Change ktonne	Total Emissions Change per Capita tonne	Percent Change %	Percent Change per Capita %
. Low Carbon	-15,760.00	-6.15	-80.13	-85.05

EMISSIONS BY

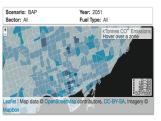




■Commercial Fugitive Industrial Local Energy Production Residential Transportation Waste

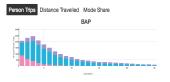
STATIONARY EMISSIONS BY ZONE (9

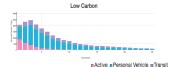




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COMMUTER TRIPS BY MODE @

Tries Mode Share

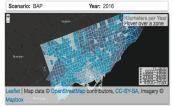




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COMMUTER VEHICLE KILOMETERS TRAVELLED PER CAPITA FOR EACH ZONE @





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