



Urban Climate Innovation in Toronto

The Atmospheric Fund

March 27, 2017

26 yrs

WHAT IS THE ATMOSPHERIC FUND?

- The world's first municipal climate agency
- Established by the Province of Ontario in 1991
- Endowed with \$23M from the City of Toronto
- Independent governance

- Grants to community and City
- Loans and financing
- Incubation projects
- Policy research and convening
- Impact Investing

\$60M

- Clean Air Alliance
- Clean Air Partnership
- AutoShare start-up
- First urban wind turbine
- SolarShare Model
- Smart Commute



- LED Traffic Signals
- EV300
- LIC Financing
- Energy Policy
- GHG Inventory



- TowerWise Retrofit
- Efficiency Capital Corp.
- Heat Pump Technology
- Microtransit
- TransformTO



-24%

TAF'S SECRET SAUCE

- Endowment Fund
- Arms-length Status
- Small, Nimble, Responsive
- Multi-faceted
- Community Relationships

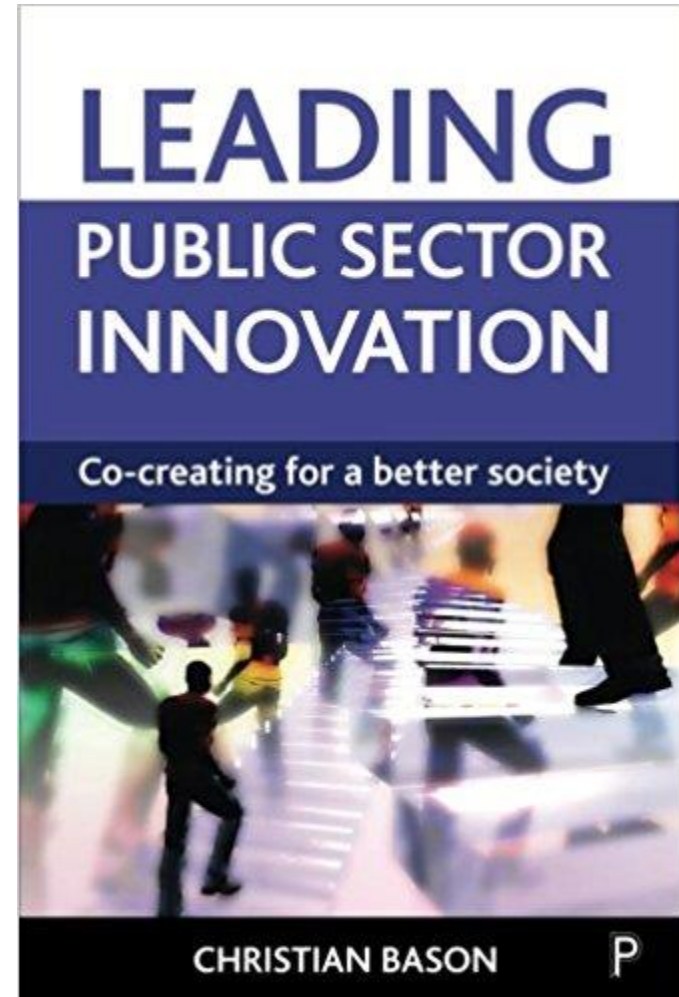


\$0

“ Unfortunately, most public sector organizations today are ill-suited to develop the kinds of radical new solutions that are needed.”

— Christian Bason, *Leading Public Sector Innovation: Co-creating for a better society*

- Short-term political cycles
- Risk aversion
- Standards of operation
- Silos
- Rule-enforcement role



- Can take a long-term view
- De-risking – concepts, funding
- Strategic support
- Silo agnostic
- Innovation role

- TAF's creator and owner
- Deep subject matter expertise
- Inter-government advocate
- Resources to allow scale
- Political legitimacy

“ Cities that collaborate with other actors are able to deliver twice as many climate actions as those that govern through a less partnership-based approach.”

— C40 Cities/ ARUP, *Potential for Climate Action*

TransformTO is engaging the community in achieving an 80% reduction in Toronto's greenhouse gas emissions by 2050.



TransformTO

- Co-directed by TAF and City of Toronto's Environment and Energy Division
- Building broader relevance for climate action through examination of co-benefits

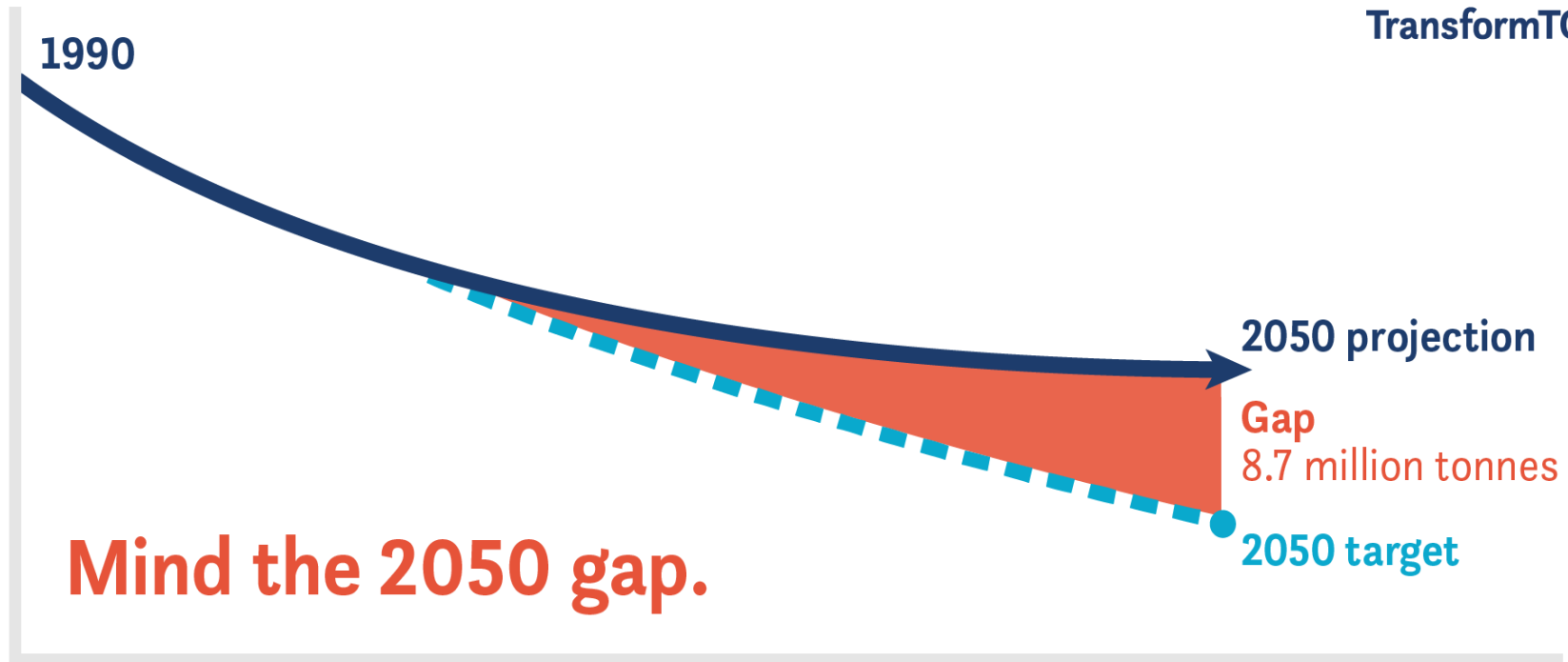


GHG REDUCTION – TECHNICAL MODELLING

Toronto's Business As Planned
GHG Emissions



TransformTO



- Approaching net-zero
- No more gasoline
- Short trips walked or cycled
- Waste virtually eliminated
- Diverse local energy
- Low-carbon district energy



Benefits of GHG reduction

PUBLIC HEALTH

Low-carbon transportation like walking, cycling, and electric transit improves air quality.

TransformTO

Benefits of GHG reduction

SOCIAL EQUITY

Urban planning that supports youth and senior residents creates better cities for everyone.

TransformTO

Benefits of GHG reduction

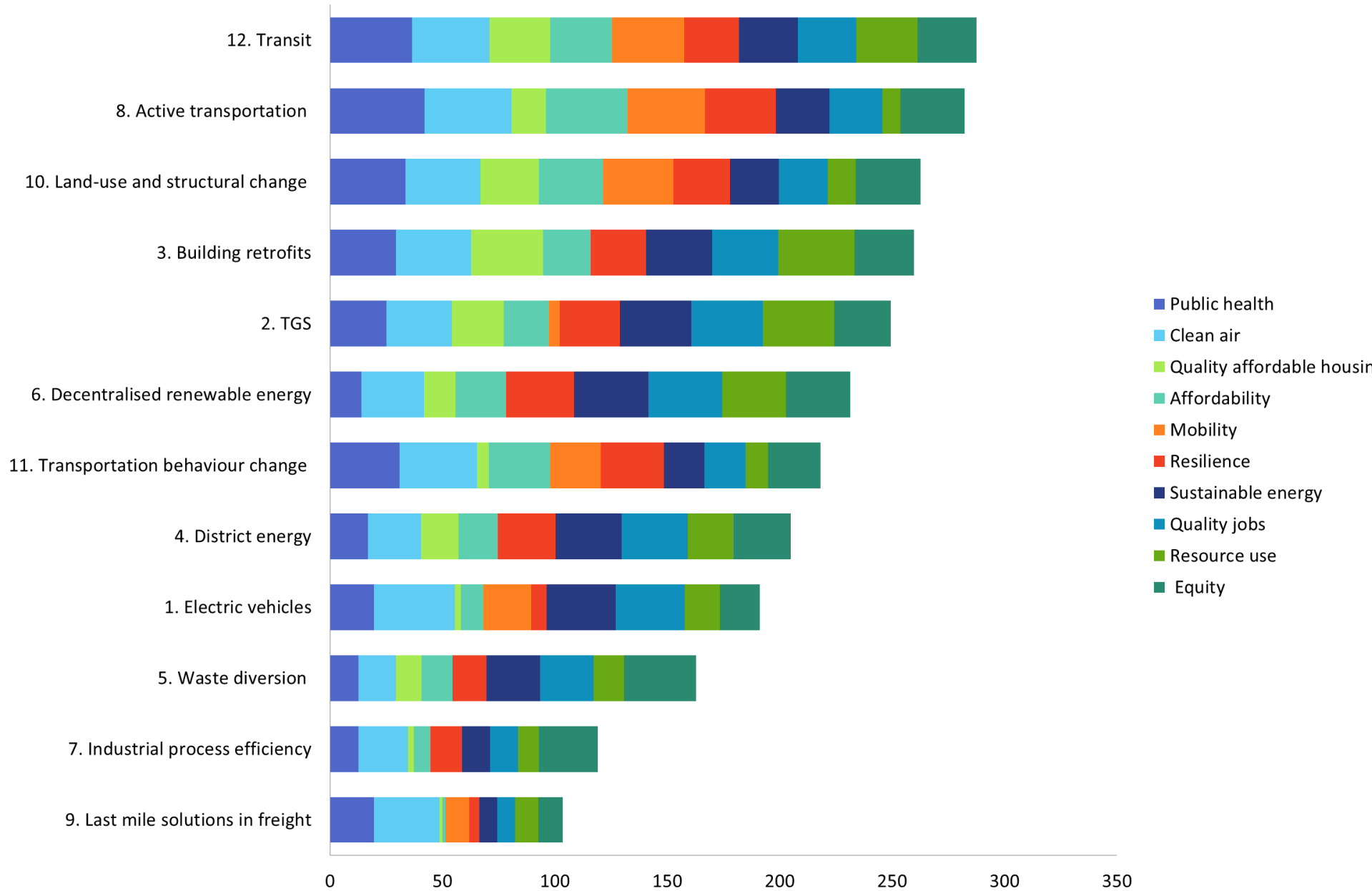
ECONOMIC PROSPERITY

Every \$1 spent on energy efficiency programs results in an increase in GDP of \$5.

- Acadia Centre

TransformTO

Prioritization Outputs



JOINT STRENGTHS

- Interdivisional/Community liaison
- Combined funding, joint fundraising
- Staff expertise/flexible service support
- Joint ideation and application
- Developmental Evaluation pilot
- Shared ownership and commitment

STAY CONNECTED!



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