RE: PE15.1

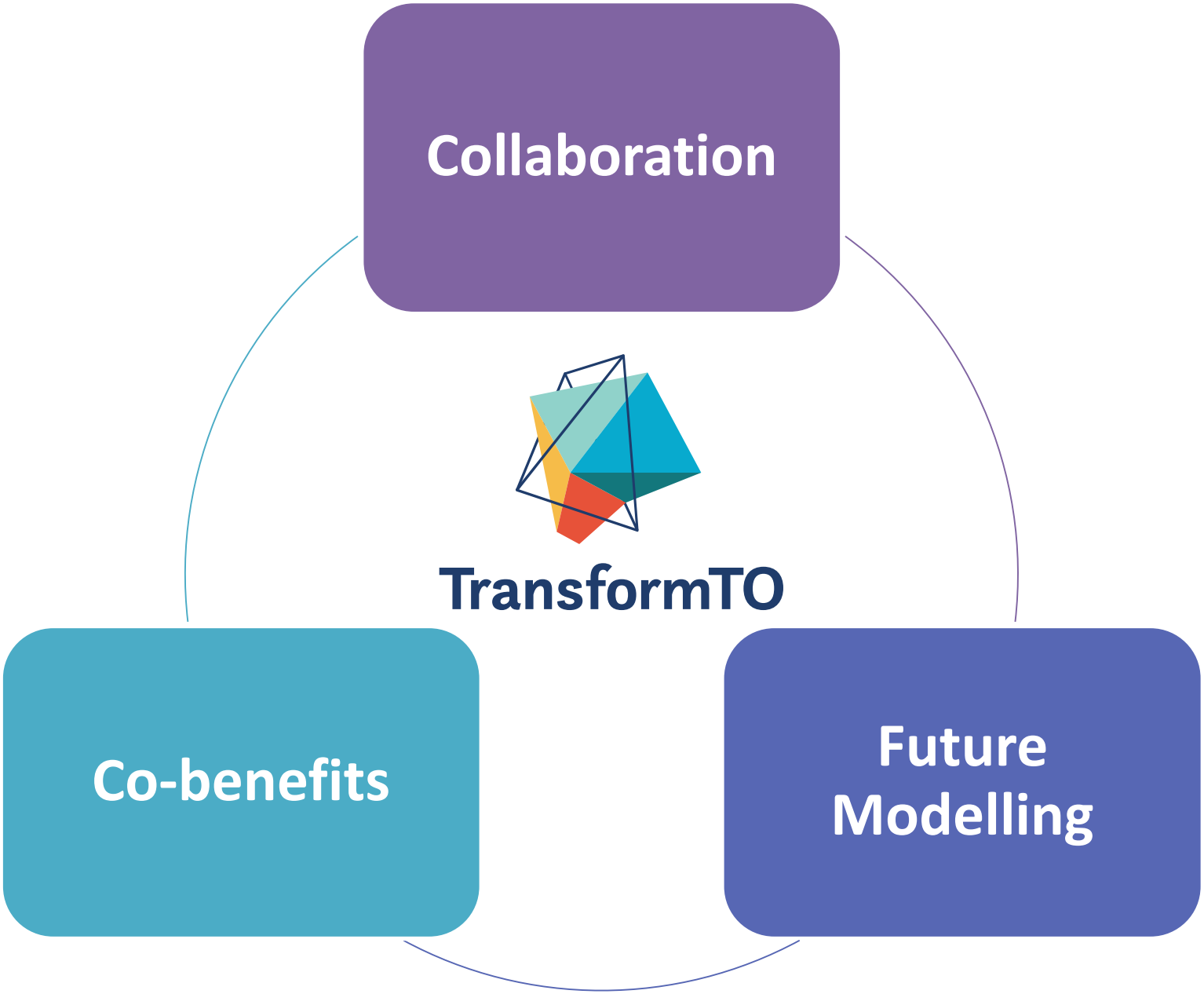
TransformTO

# TransformTO

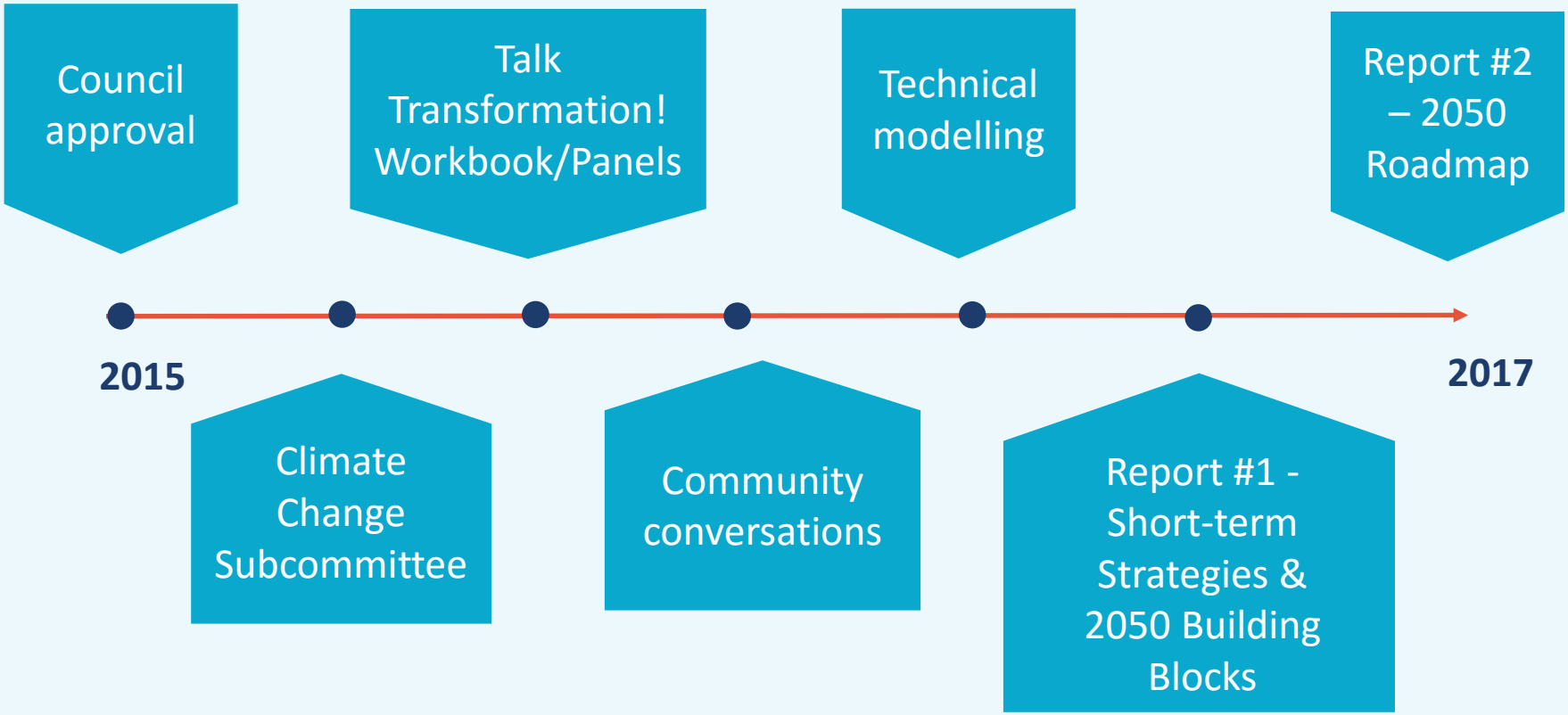
## Climate Action for a healthy, equitable, prosperous Toronto

November 17, 2016

toronto.ca/transformto


Collaboration
TransformTO
Co-benefits
Future Modelling

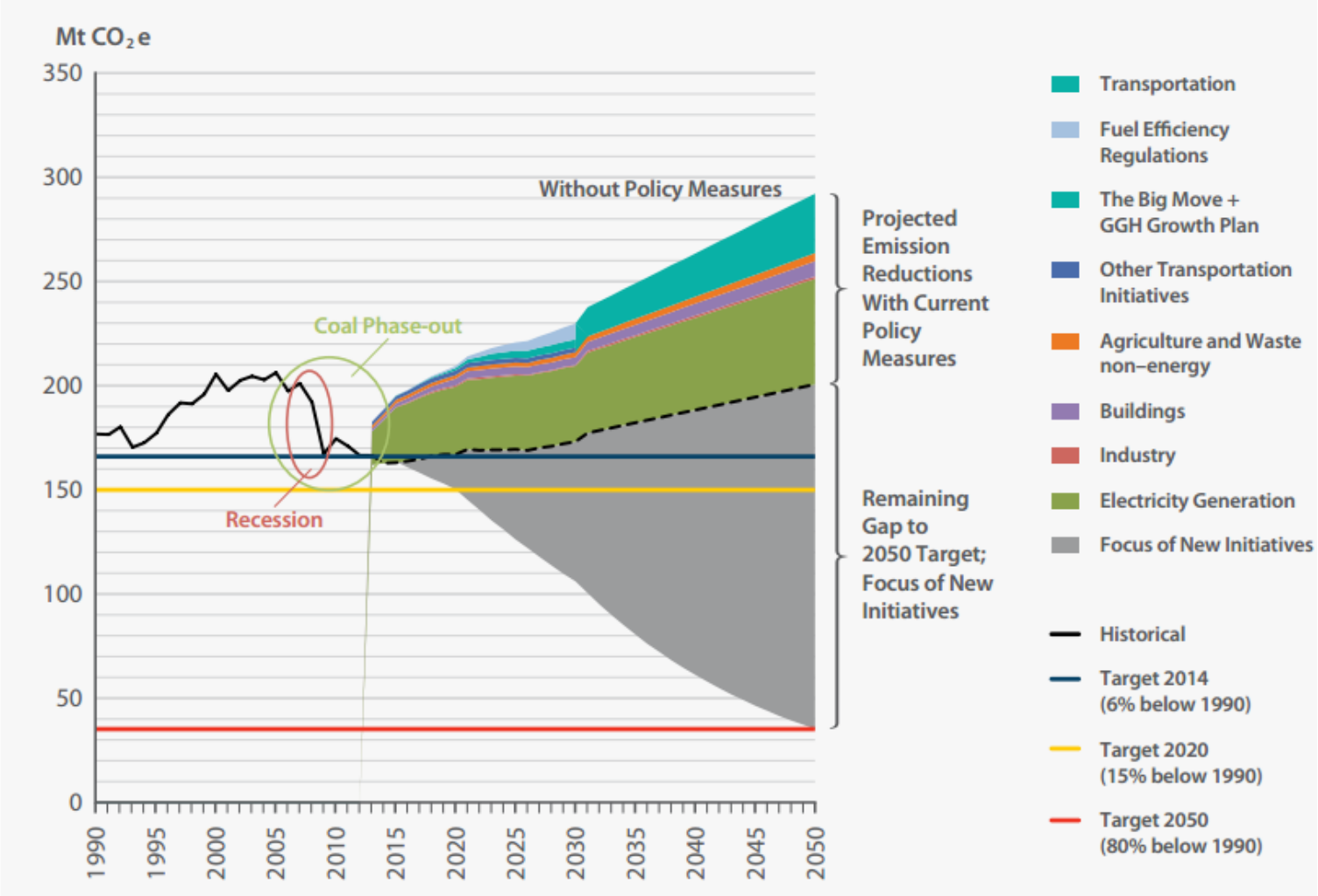
## TIMELINE


Council approval
Talk Transformation! Workbook/Panels
Technical modelling
Report #2 – 2050 Roadmap
2015
2017
Climate Change Subcommittee
Community conversations
Report #1 - Short-term Strategies & 2050 Building Blocks

# Community & Stakeholder Engagement

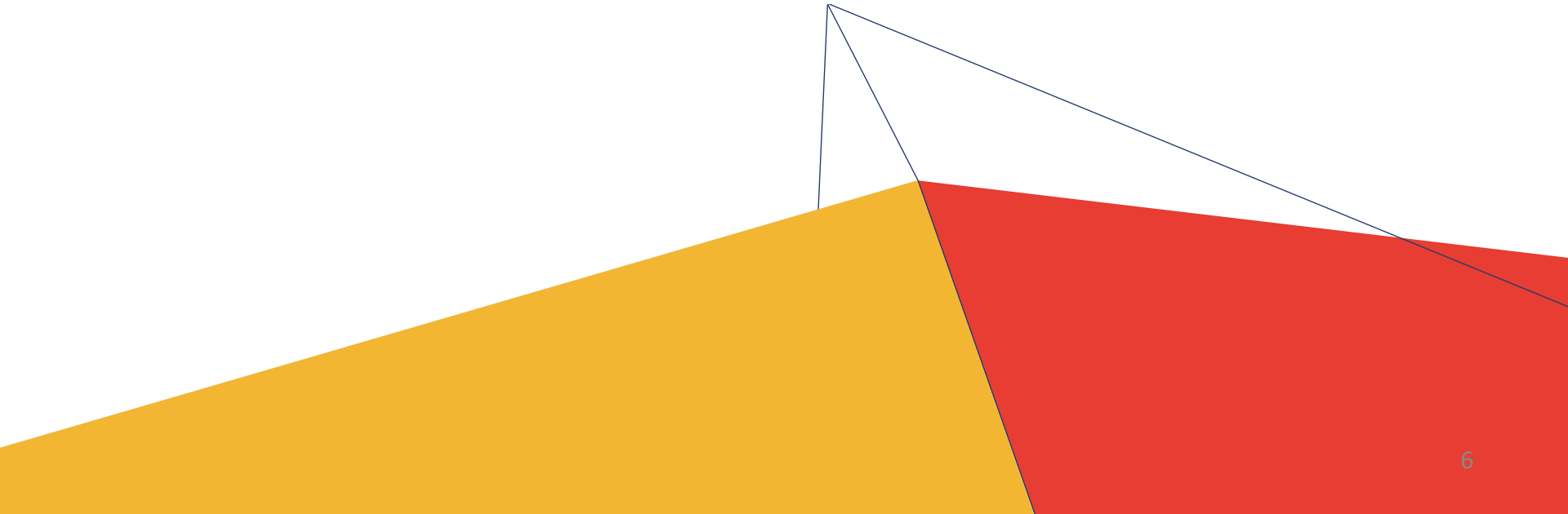

# GHG MODELLING & TEHCNICAL ANALYSIS

**FIGURE 1 Ontario's GHG emissions trajectory "wedges"[28]**

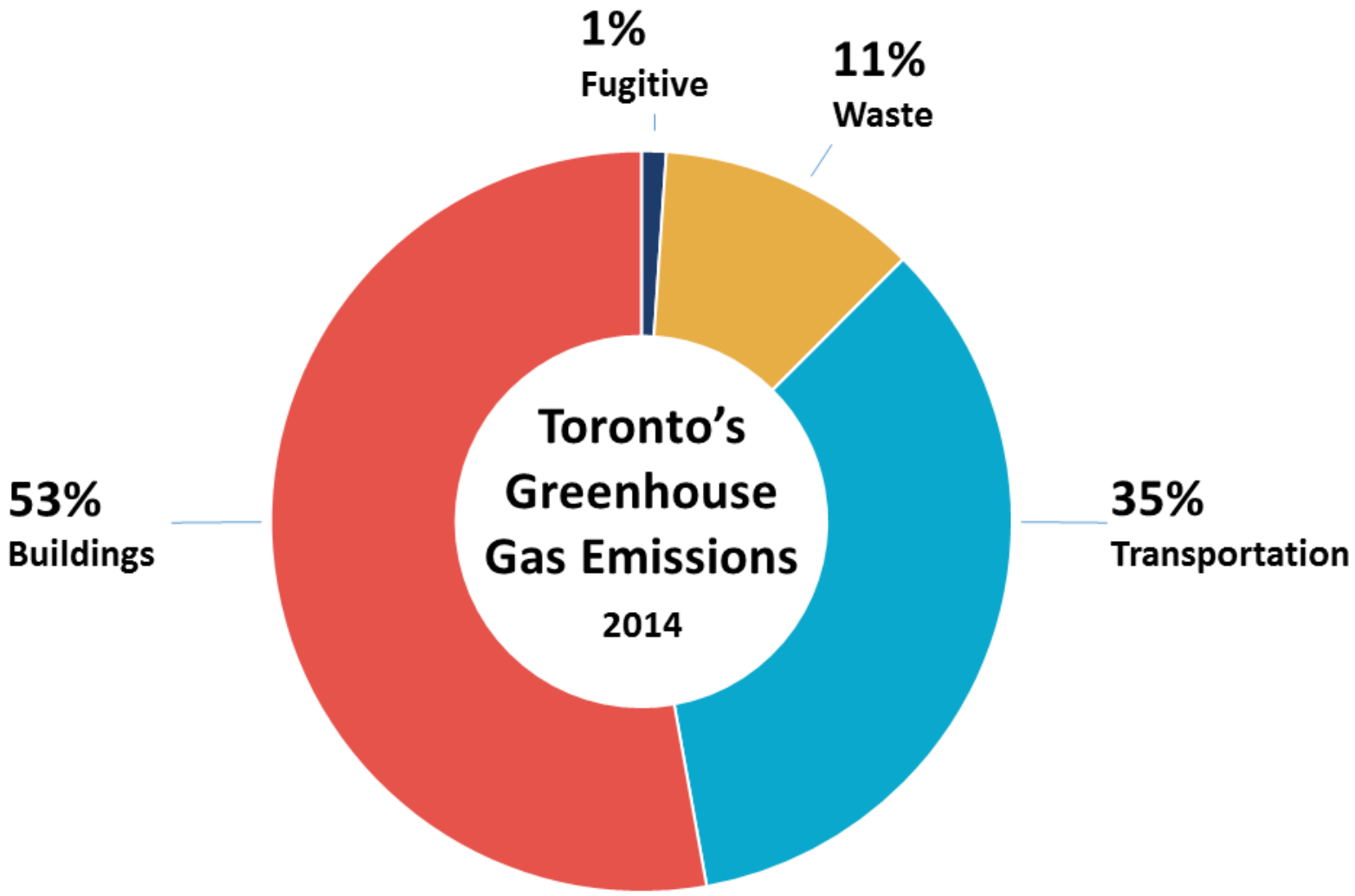


SECTION TWO

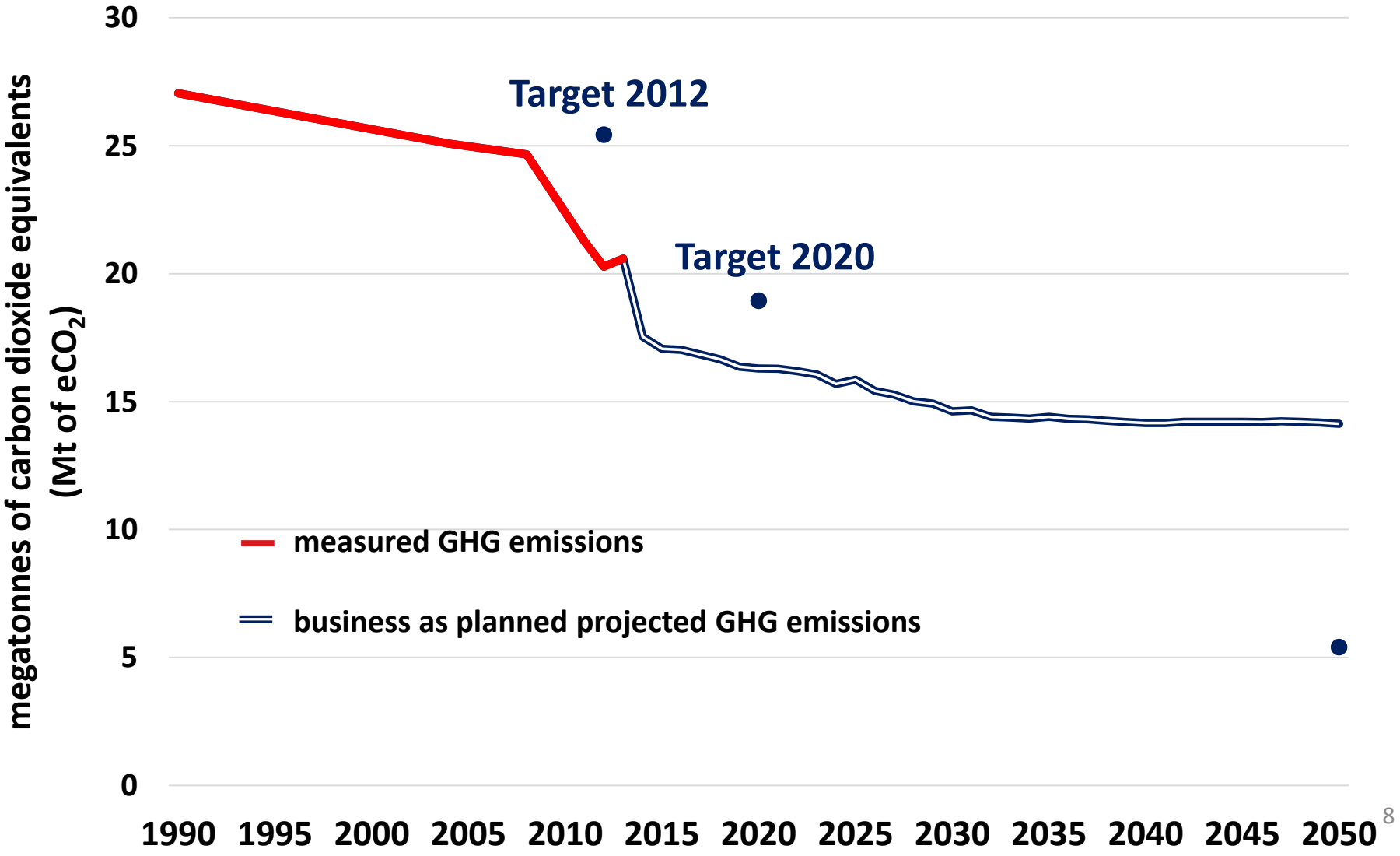
# TransformTO Findings



## TORONTO'S EMISSIONS SOURCES



# Measured and projected GHG emissions (Mt of $eCO_2$)



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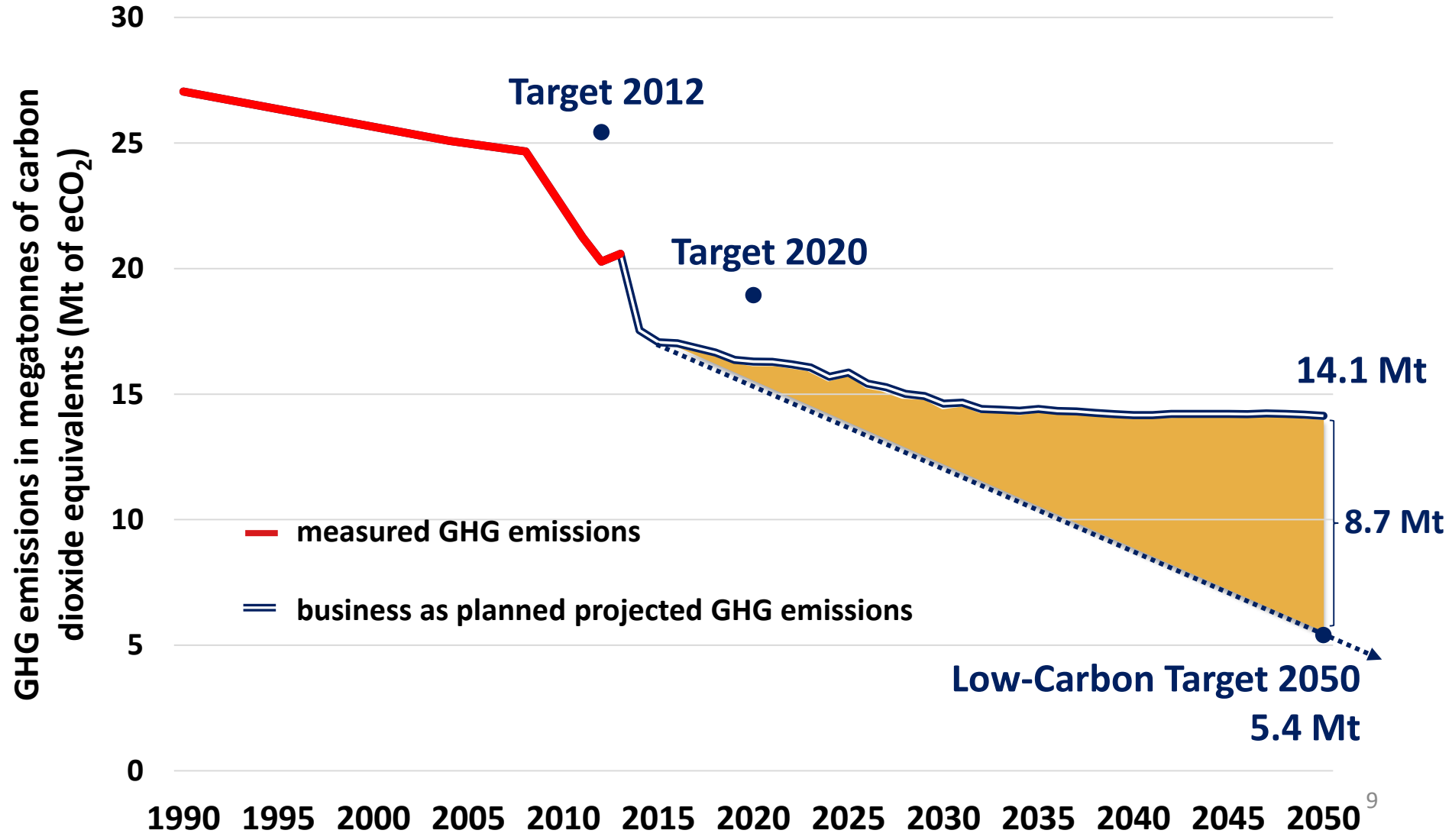


# TransformTO Community Engagement Findings

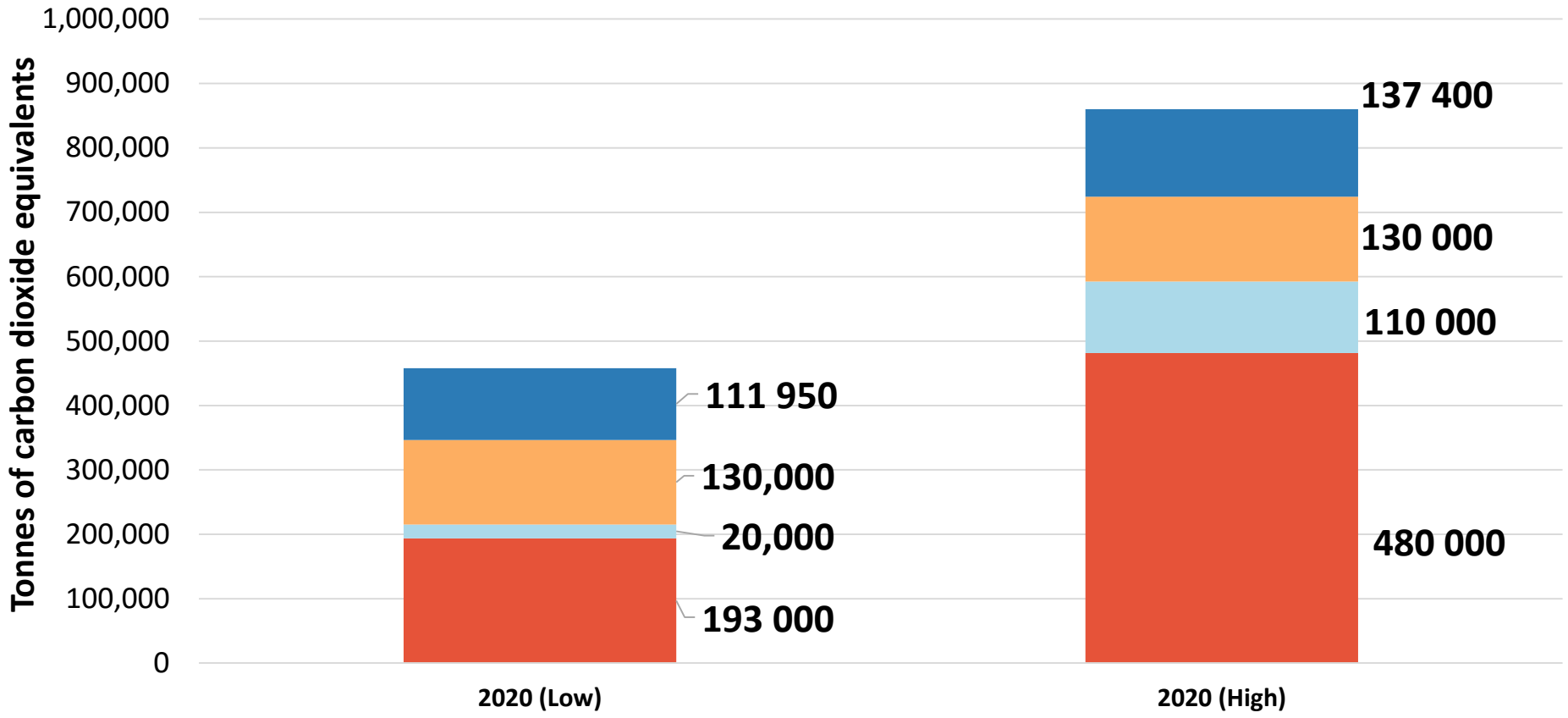
SECTION THREE

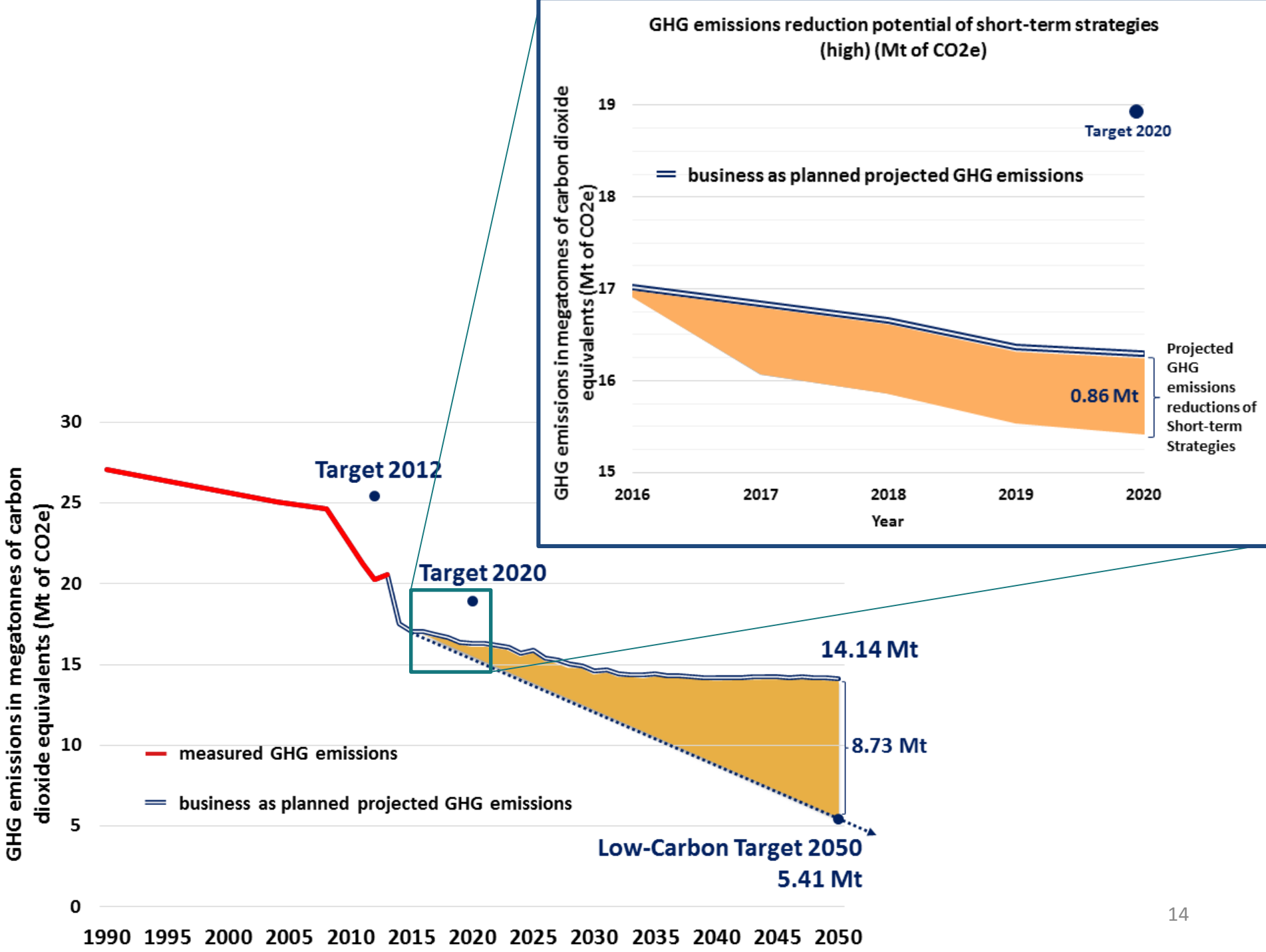
# TransformTO Short-term Strategies

# TransformTO Short-term Strategies

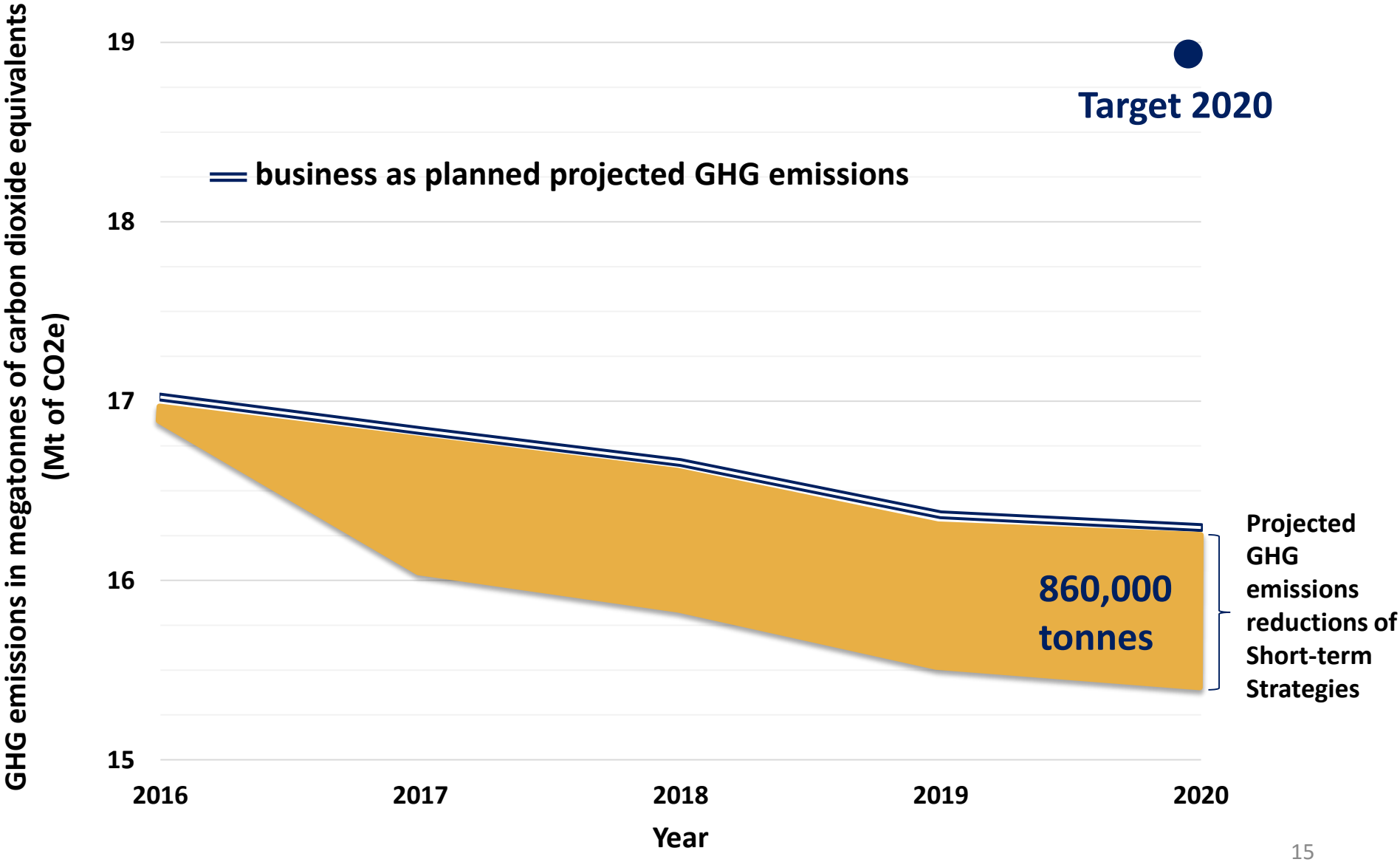
1. **Support energy efficiency in buildings**
2. **Raise the bar for new construction & community energy solutions**
3. **Advance sustainable transportation**
4. **Lead by example**
5. **Engage and collaborate with stakeholders**

# Cumulative GHG emissions reduction potential of short-term strategies (tonnes of CO2e)




GHG emissions reduction potential of short-term strategies (high) (Mt of CO2e)
GHG emissions in megatonnes of carbon dioxide equivalents (Mt of CO2e)
19
18
17
16
15
Target 2020
business as planned projected GHG emissions
0.86 Mt
Projected GHG emissions reductions of Short-term Strategies
2016
2017
2018
2019
2020
Year
GHG emissions in megatonnes of carbon dioxide equivalents (Mt of CO2e)
30
25
20
15
10
5
0
Target 2012
Target 2020
14.14 Mt
8.73 Mt
measured GHG emissions
business as planned projected GHG emissions
Low-Carbon Target 2050
5.41 Mt
1990
1995
2000
2005
2010
2015
2020
2025
2030
2035
2040
2045
2050

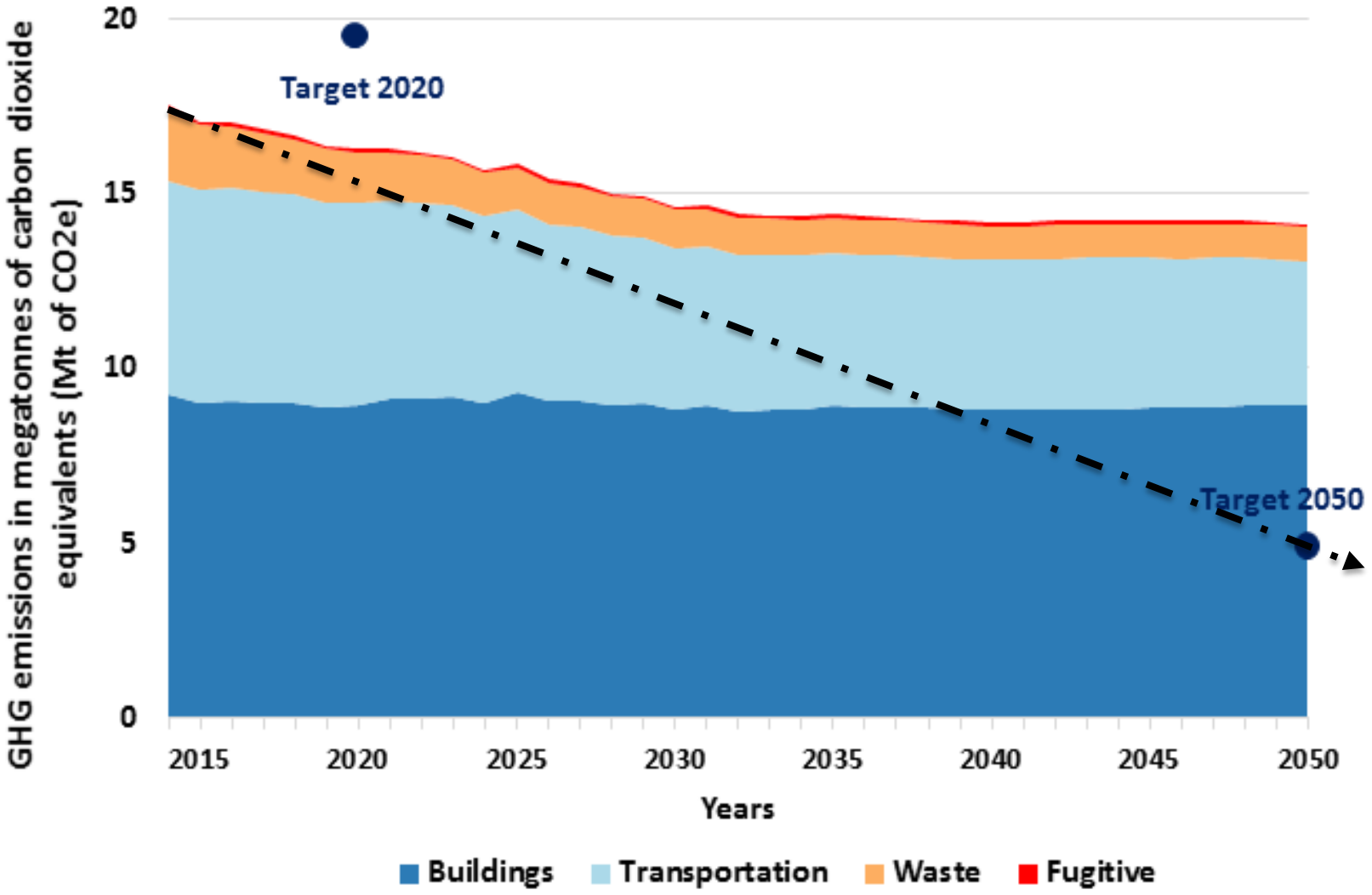
# GHG emissions reduction potential of short-term strategies (high) (Mt of CO2e)



SECTION THREE

# TransformTO 2050 Roadmap Building Blocks

# GHG Emissions Projection by Sector



# Potential for Transformation

## BUILDINGS AND ENERGY

**Building Energy Efficiency**

- Aggressive Retrofits of existing buildings
- TGS Update

**Community Energy**

- Net-Zero Community Energy Plans (CEP)
- Low-Carbon Thermal Networks

## TRANS-PORTATION

**Transit Supportive Development**

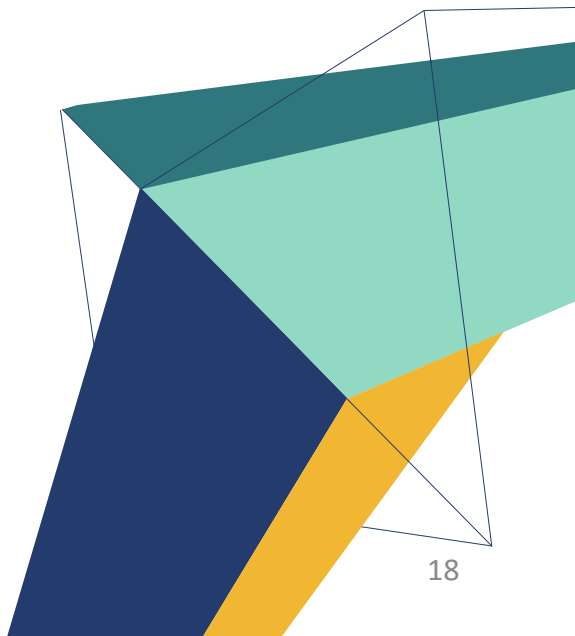
**Transit Network Plan Update**

**Active Transportation**

**Fuel Switching – Electric Vehicles (EVs)**

## WASTE

**Long-Term Waste Strategy**



# Example Emission Reduction Scenario

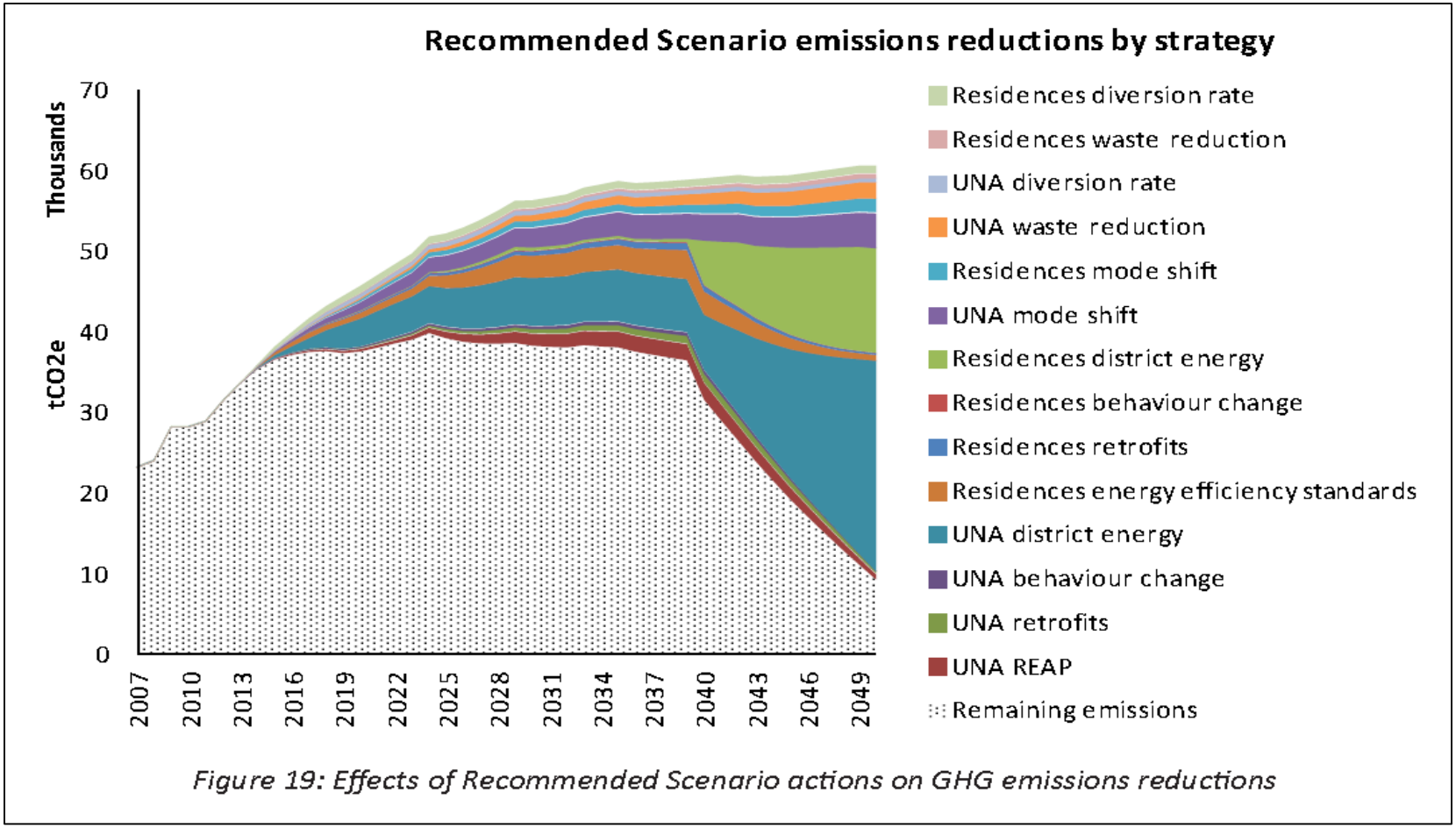



*Figure 19: Effects of Recommended Scenario actions on GHG emissions reductions*

* Sample scenario from UBC campus

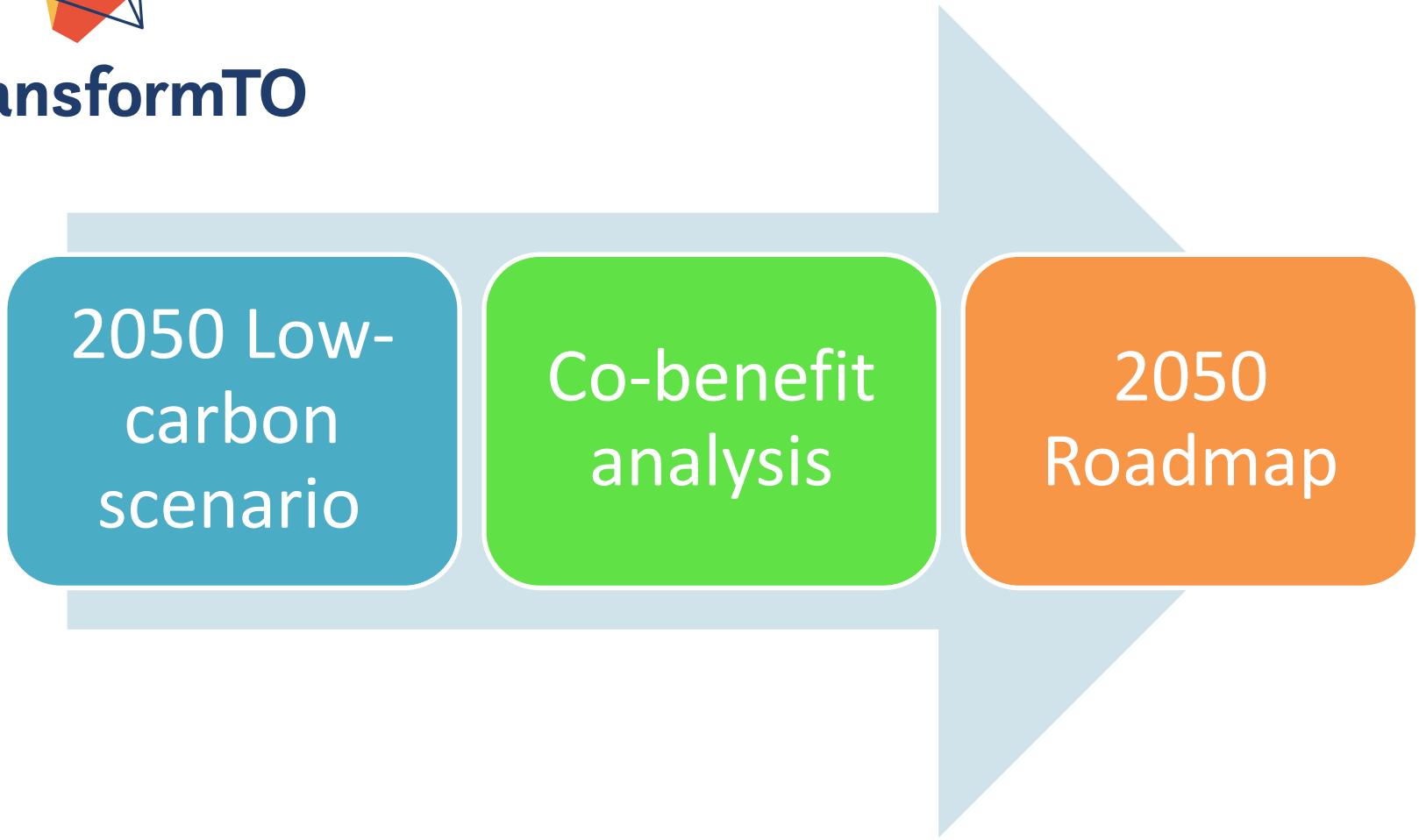
# Climate Action

Local Economy

Social Equity

Public Health

TransformTO



**“… the decisions made by mayors within the next five years will determine whether or not the world is set on a high or low carbon pathway.”**

—ARUP, 2015

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