



Our Kelowna as We Take Action: **Community Climate Action Plan**

June 25, 2018



The case for climate action



Purpose

- ▶ Determine emissions and energy use for:
 - ▶ Transportation
 - ▶ Buildings
 - ▶ Waste
- ▶ Identify actions to **mitigate** emissions (actions that will reduce emissions)
- ▶ Establish short and long term GHG reduction targets



Process



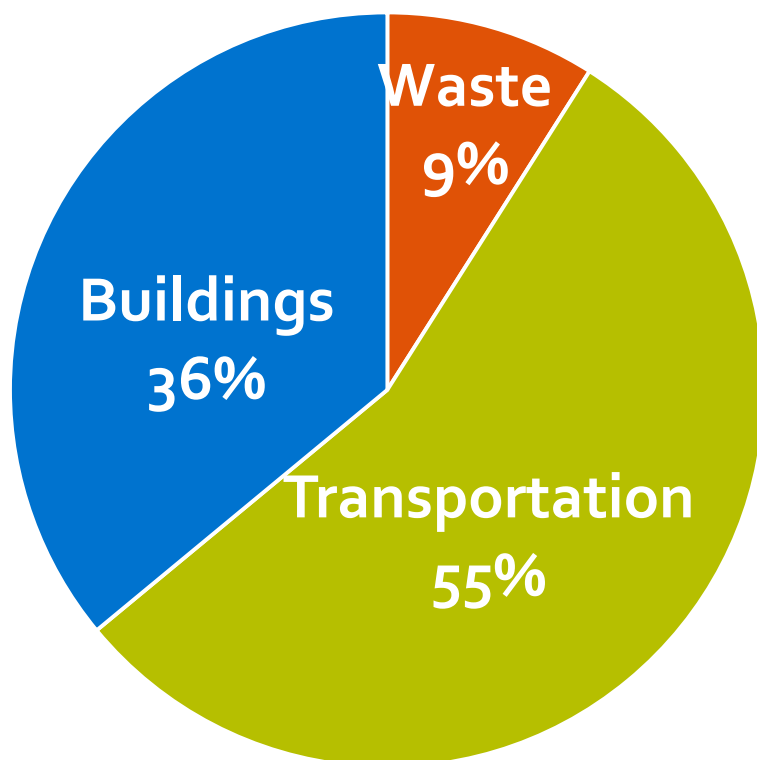
Engagement

- ▶ *Imagine Kelowna*
(2016 – 2018)
- ▶ *Imagine Kelowna On Point Discussions*
 - ▶ Climate Change (Nov, 2016)
 - ▶ Transportation (Dec, 2016)
- ▶ Stakeholder Discussion on Step Code
(Sep, 2017)
- ▶ Stakeholder Workshop
(Nov, 2017)
- ▶ Online Engagement
(Feb, 2018)



Where are we now?

2012 GHG Emissions

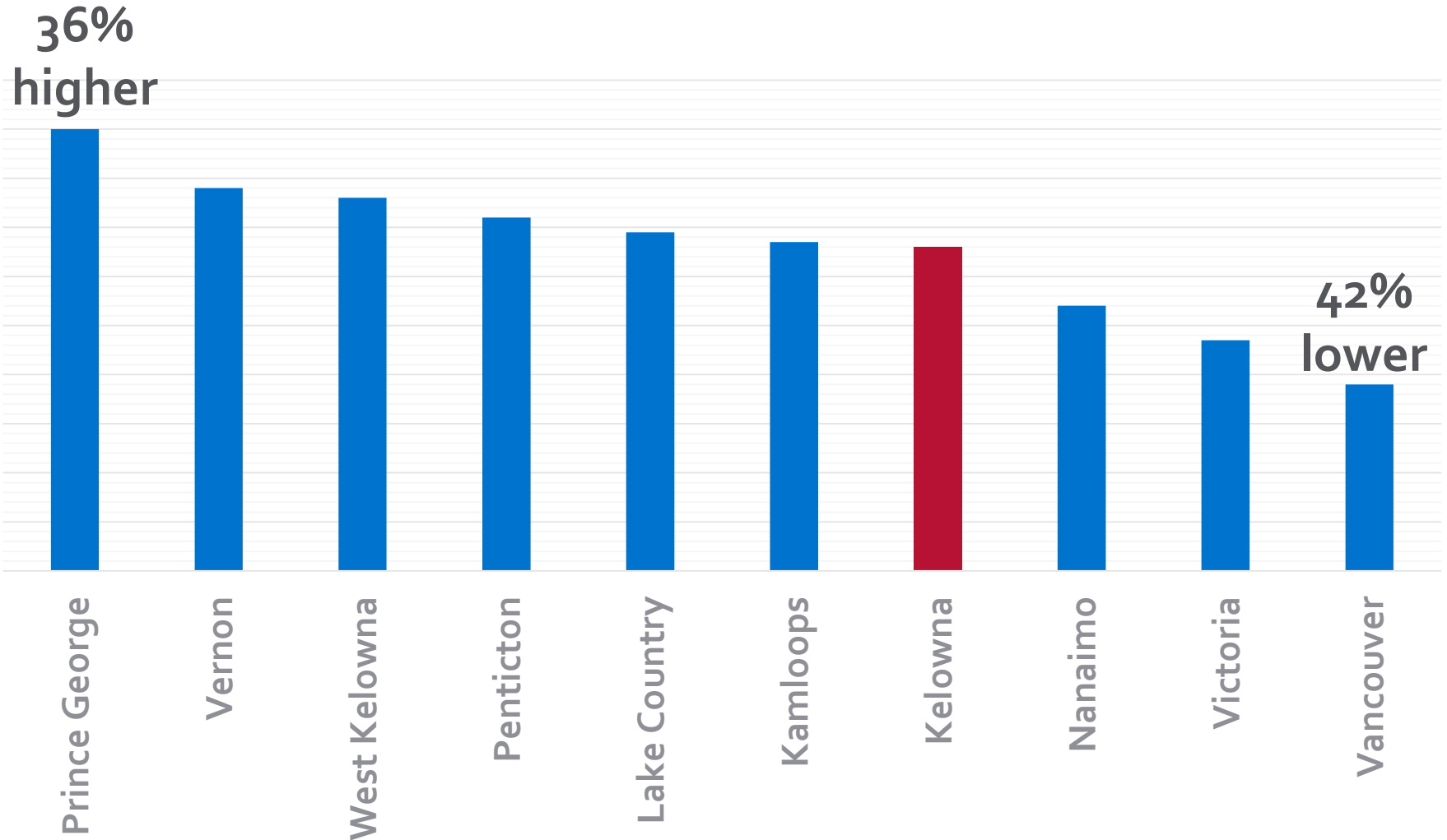


Community GHG Emissions

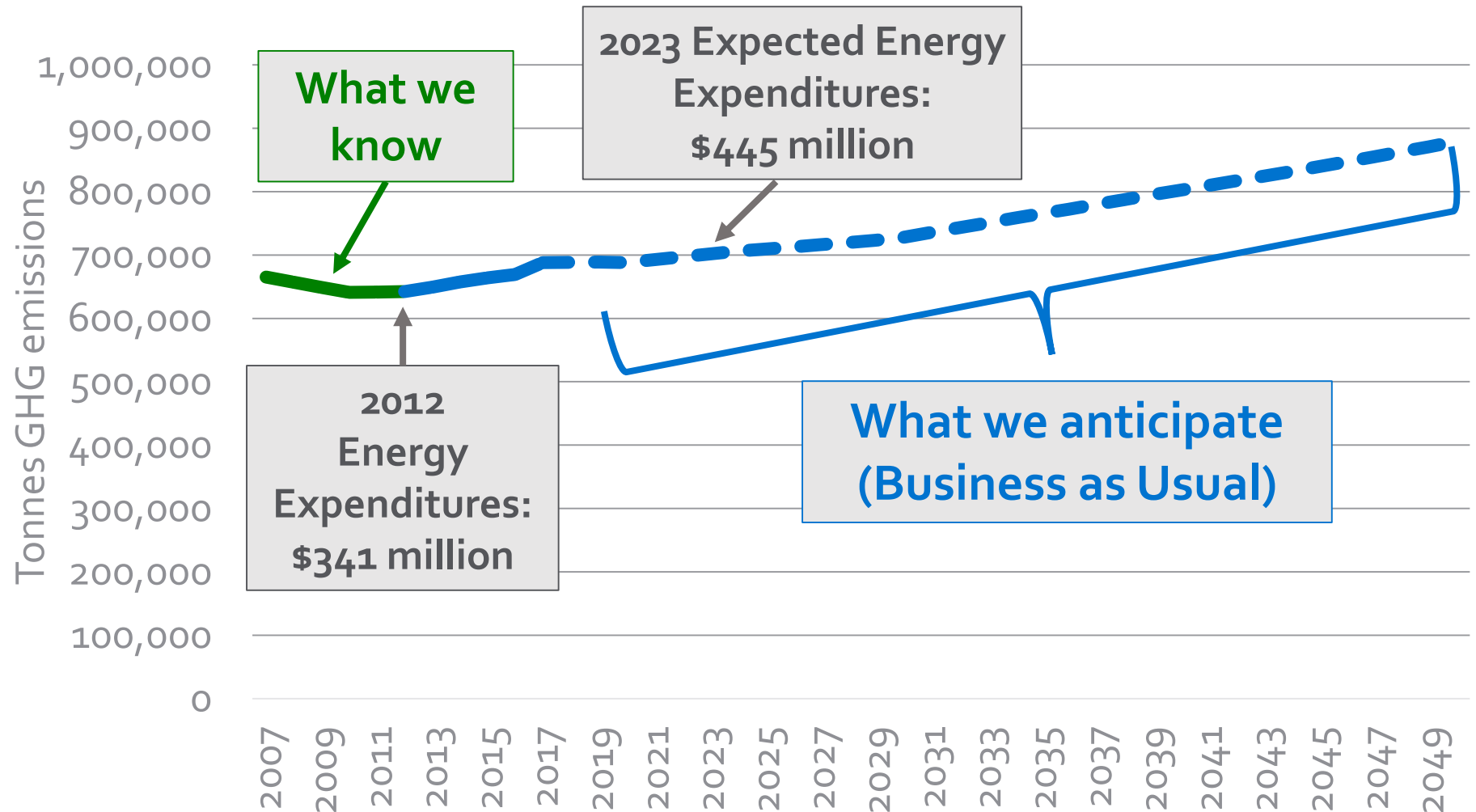
- ▶ 2007 = 665,234 tonnes
- ▶ 2012 = 642,262 tonnes

3.5% absolute reduction
(12% per capita reduction)

Comparisons across BC (2012)



Looking forward?



51 Actions

1. The Way We Get Around
2. The Energy We Use in Our Buildings
3. The Waste We Create
4. Encouraging Renewable Energy
5. Planning Our Community
6. Other



Benefits of Climate Action Plan

- ▶ Livable community
- ▶ Health benefits
- ▶ Protect land, water and air
- ▶ Reduce energy consumption
- ▶ Manage risks
- ▶ Leverage external sources of funding

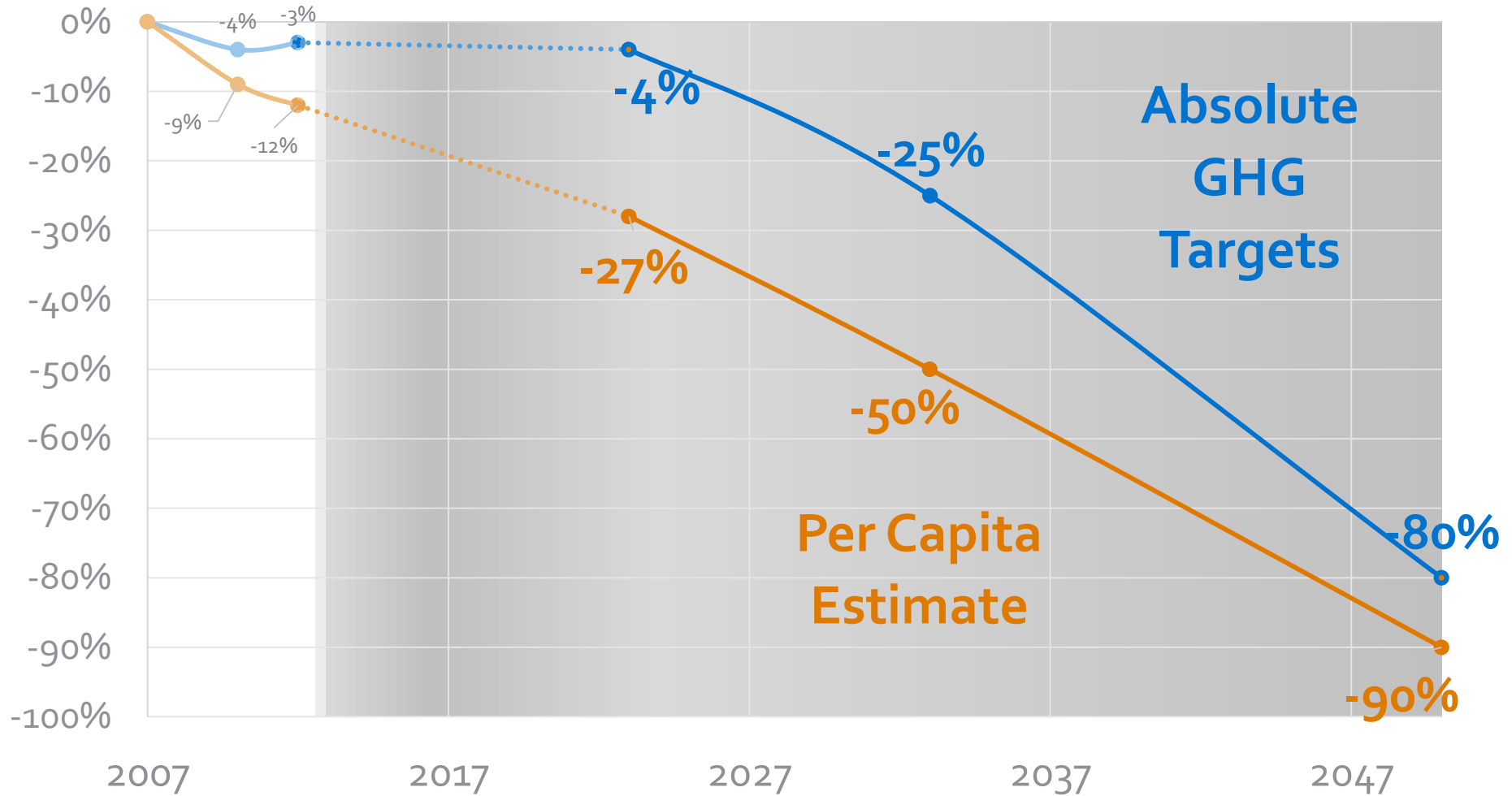
**\$34
million**

annual savings with Plan
compared to without Plan

Influences and Connections



Target



Target

Year	Absolute GHG Target	Target as a per capita estimate
	Below 2007 levels	
2023	4%	27%
2033	25%	50%
2050	80%	90%

The City of Kelowna will work towards these targets in partnership with: senior governments; local residents and businesses; NGOs; external agencies; and utility providers.

Target comparison

Community	2020 target	Other target	2050 target
<i>Kelowna Proposed</i>		<i>4% by 2023 (28% per capita) 25% by 2033 (50% per capita)</i>	<i>80%</i>
Regional District			80%
Penticton	5% (20% per capita)	10% by 2030 (35% per capita)	
New Westminster		15% by 2030	
Surrey	33%		80%
Abbotsford	20% per capita	45% per capita by 2040	
Dawson Creek	33%		85%
Kamloops	40%		
Victoria	33%		
Campbell River	25% (35% per capita)	35% by 2040 (55% per capita) 40% by 2060 (65% per capita)	40% by 2060 (65% per capita)

The City's Role

- ▶ Policies and programs for energy efficient residential and commercial buildings
- ▶ Prioritize growth in the urban core
- ▶ Alternative transportation investments
- ▶ Expansion of urban forest
- ▶ Demonstrate leadership in corporate initiatives



The Community's Role

- ▶ Behavior shift
 - ▶ Shift transportation habits
 - ▶ Conserve energy and utilize energy efficient technology
 - ▶ Embrace new technology
 - ▶ Support local
- ▶ Uptake of infrastructure and programs offered by the City and other senior government
- ▶ Business leadership
- ▶ Promote or educate on incentives or programs



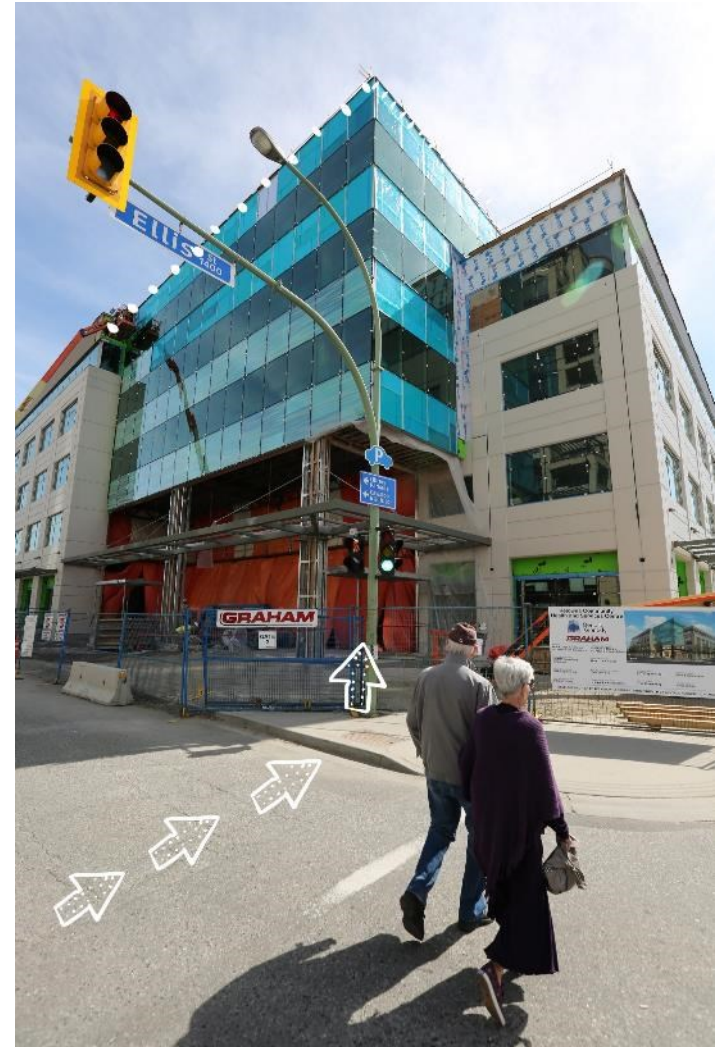
The Individual Role

*Example of how to reducing emissions
27% per capita (1.2 tonnes)*

▶ Reduce natural gas by 5%	0.20 tonnes
▶ Reduce vehicle km travelled by 5% (bike, walk, transit)	0.26 tonnes
▶ Reduce idling 3 minutes per day	0.08 tonnes
▶ Adopt fuel efficient driving techniques	0.26 tonnes
▶ Improve vehicle fuel efficiency 1 liters/100 km	0.50 tonnes
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TOTAL	1.30 tonnes

Next steps

- ▶ Implementation of actions
 - ▶ In progress or ongoing
 - ▶ 0-2 years
 - ▶ 3-5 years
- ▶ Monitoring and evaluation
- ▶ Revisit the plan every 5 years



We've proven Kelowna can do this



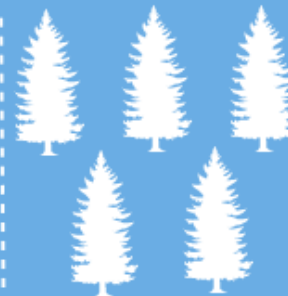
Average household natural gas use declined 8% between 2011 & 2015



Average household electricity use declined 10% between 2011 & 2015



20% of sensitive ecosystem land is permanently protected



3,000 trees planted have been planted on private property through Neighbourwoods since 2010.

3.5% decrease in GHG emissions between 2007 & 2012



In 2017, 40% of new residential units were built in the Urban Core.



In 2016, 14% of residents walked, cycled or took transit to work.



In the Central Okanagan, there are over five million transit trips annually!

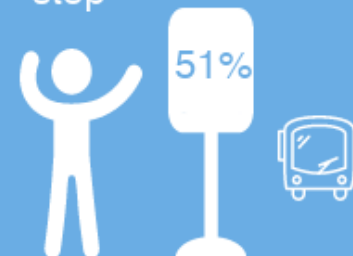
Providing transportation options

280 kilometres of bike lanes



412 kilometres of sidewalks

51% of residents live within 400 metres of a transit stop



Funding provided
in part by:



QUESTIONS?



City of Kelowna