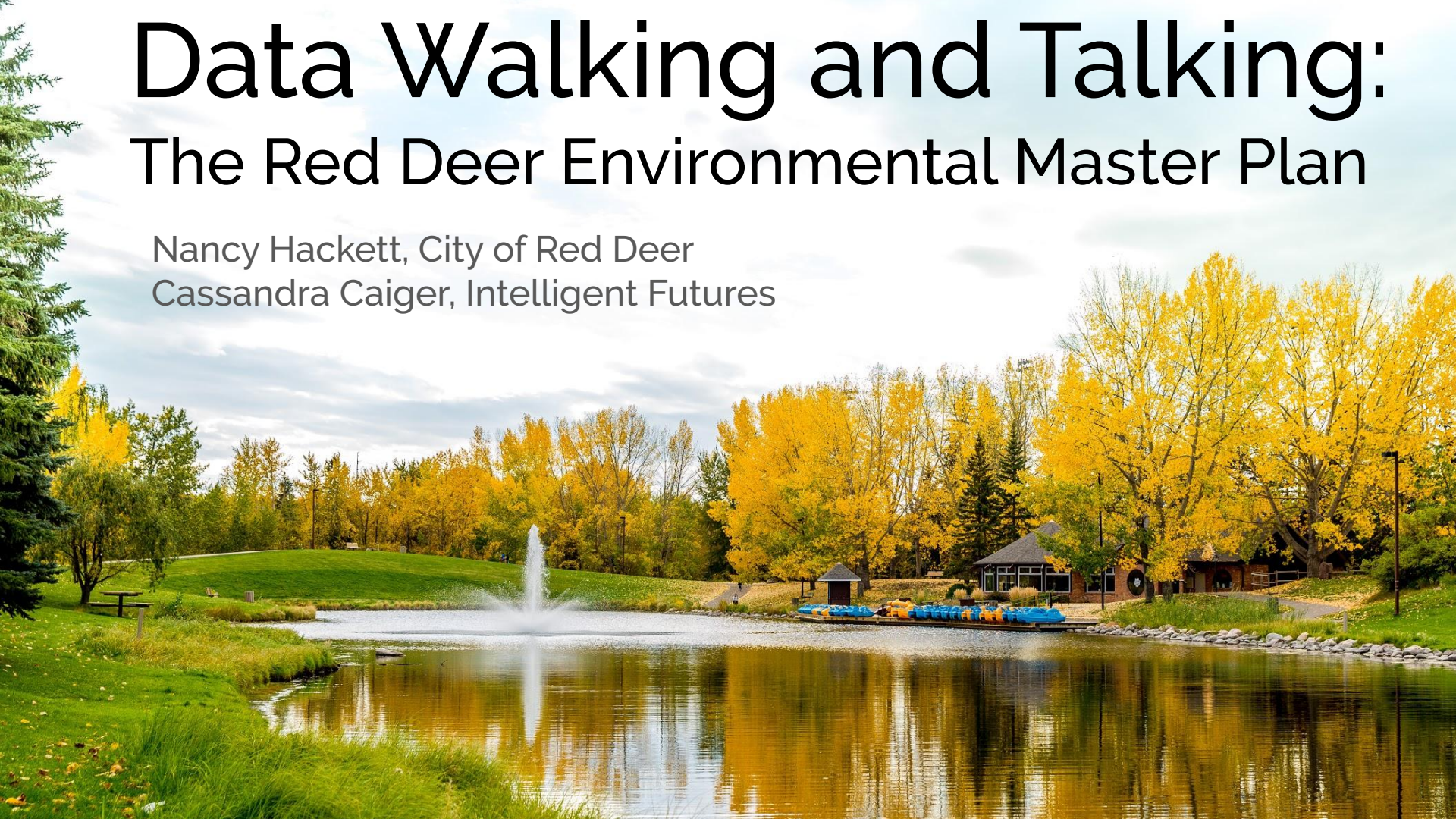


# Data Walking and Talking: The Red Deer Environmental Master Plan

Nancy Hackett, City of Red Deer  
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# Our agenda



- Introduce the Red Deer Environmental Master Plan (EMP)
- The role of data
- Practice a Data Walk
- Reflections / Questions & Answers

# Our goals today



## **1. Context**

Learn about Red  
Deer & the EMP

# Our goals today



## **1. Context**

Learn about Red  
Deer & the EMP



## **2. New Method**

Learn Data Walks

# Our goals today



## 1. Context

Learn about Red  
Deer & the EMP



## 2. New Method

Learn Data Walks



## 3. Practice

Experience a  
Data Walk

# Our goals today



## 1. Context

Learn about Red Deer & the EMP



## 2. New Method

Learn Data Walks



## 3. Practice

Experience a Data Walk



## 4. Meet New People

Meet and learn from new people

# Our goals today



## 1. Context

Learn about Red Deer & the EMP



## 2. New Method

Learn Data Walks



## 3. Practice

Experience a Data Walk



## 4. Meet New People

Meet and learn from new people



## 5. Have fun!

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# The Red Deer Environmental Master Plan





# Environmental Master Plan Our Environment, Our Future

## **25 year vision for Red Deer's environmental future**

Red Deer actively enhances its rich natural environment and minimizes its ecological footprint through City leadership, community collaboration and active stewardship. Red Deer is a leading example of a resilient and sustainable community in which urban and natural systems are effectively integrated to the benefit of both.

# 7 Focus Areas



WATER



ECOLOGY



AIR



BUILT ENVIRONMENT



TRANSPORTATION



ENERGY



WASTE

# Structure of the EMP Today

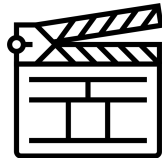
Goal



Targets



Actions



# Structure of the EMP Today



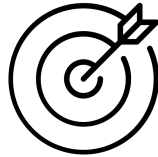
WATER

Goal

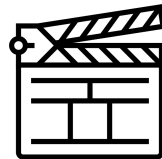


*To improve the quality of our water resources  
and increase water conservation*

Targets



Actions



# Structure of the EMP Today



## WATER

### Goal



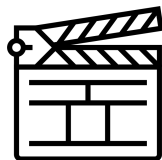
*To improve the quality of our water resources  
and increase water conservation*

### Targets



*By 2020 reduce by 15% from 2009 levels*

### Actions



# Structure of the EMP Today



## WATER

### Goal



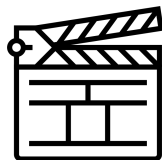
*To improve the quality of our water resources  
and increase water conservation*

### Targets



*By 2020 reduce by 15% from 2009 levels*

### Actions



*Replace water meters with Advanced Metering  
Infrastructure (AMI) technology in conjunction with  
replacement for electrical meters.*



# Reporting

## HITTING OUR TARGETS

### 19 METRICS

ARE BEING MEASURED TO DEFINE OUR  
PROGRESS IN MEETING THE EMP GOALS.



#### ON TARGET

- Potable water consumption
- Natural areas
- Man-made green areas
- Integrated pest management
- Length of trail kilometres per resident
- 'Footprint' of per capita land consumption
- Use of renewable energy

#### ON THE BOARD

- Fuel consumption per capita
- Modal split
- Community gardens
- Greenhouse gas emissions
- Building energy: average building intensity
- Waste diverted
- Amount of residential solid waste
- Overall per capita disposal rate

#### TAKING AIM

- Water quality of receiving bodies
- Urban forestry

These targets need more research in order to establish the measurement metrics to determine baselines and set targets.

#### NEAR MISSES

- Dwelling unit proximity to community amenities. This measures the share of households within 400 metres, comfortable walking distance to common amenities. Distance to transit stops and trails/parks or green space were achieved, however the measure fell short for proximity to commercial sites and schools.
- Air quality is measured by reporting on a group of compounds (ozone, sulphur dioxide, nitrogen dioxide, and carbon monoxide) in the air. Targets for all compounds have been met with the exception of fine particulate matter.



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# The EMP Refresh

# After 5 years, we wanted to...

- Maintain our vision
- Review how we're progressing towards our goals and targets and adjust as needed
- Refresh our actions for the next five years (and beyond)

↑ 13

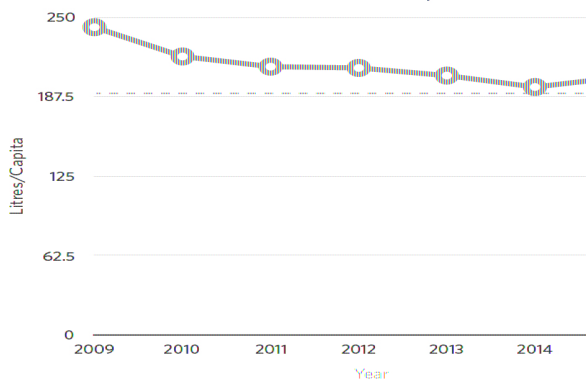
of 20 metrics were trending towards the targets

2 ↓

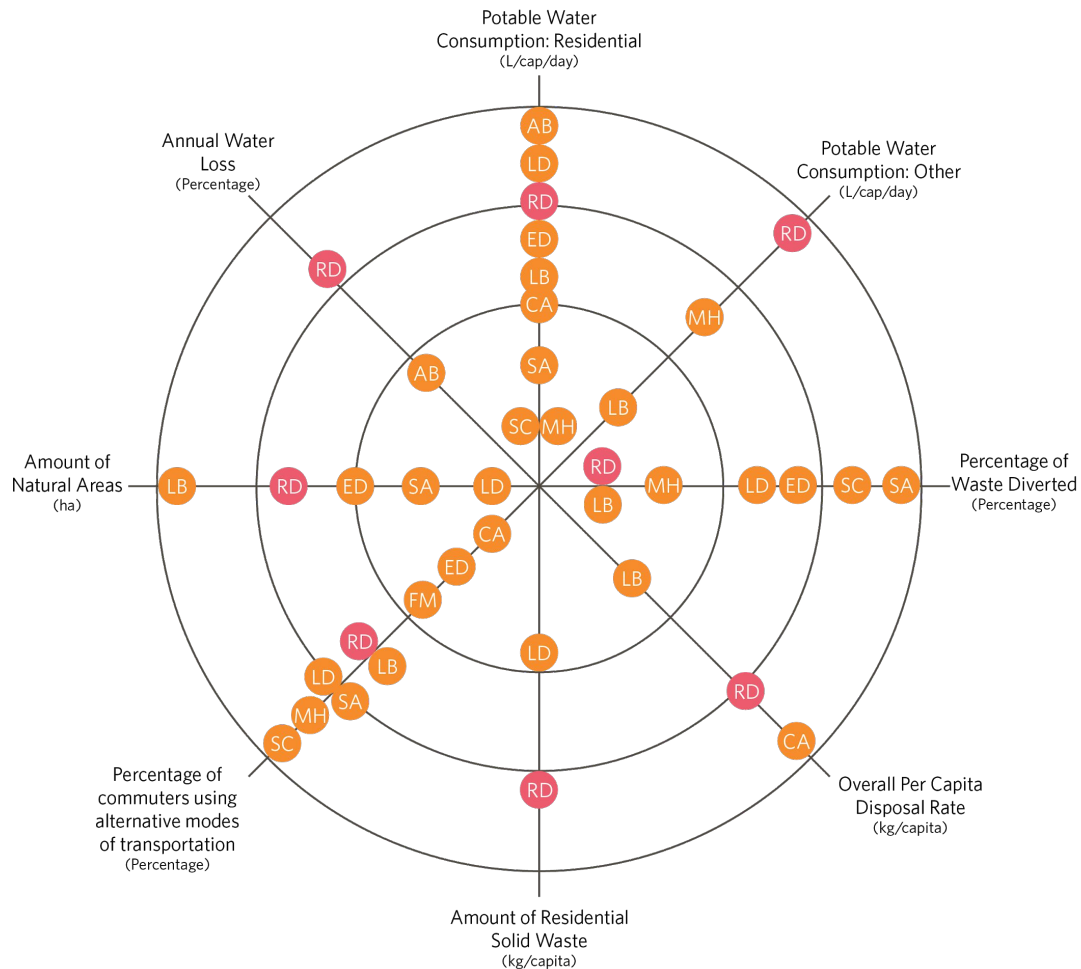
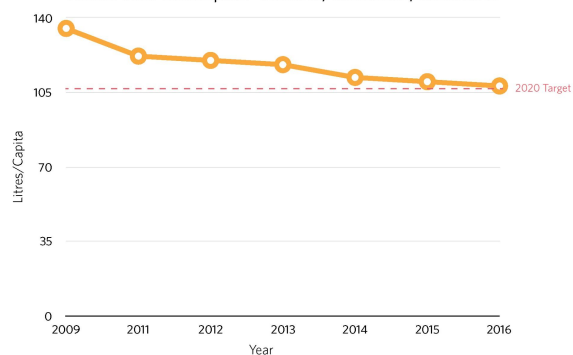
of 20 metrics were trending away from the targets

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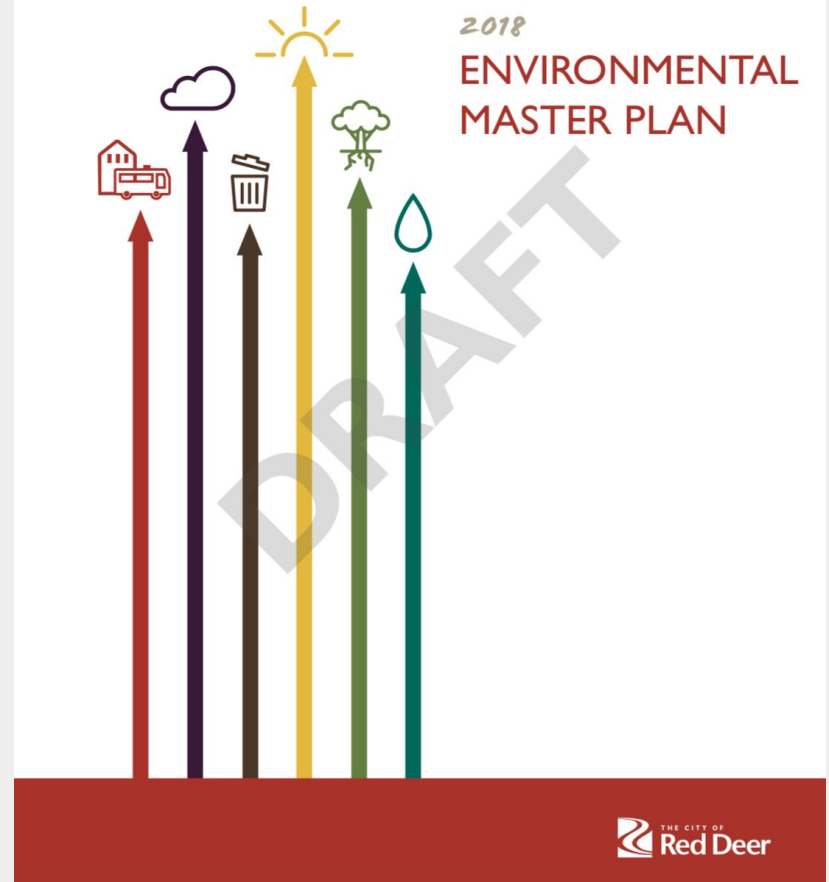
Potable Water Consumption - Residential



Potable water consumption - Industrial/Commercial/Institutional



Stay tuned...



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# Data Walks

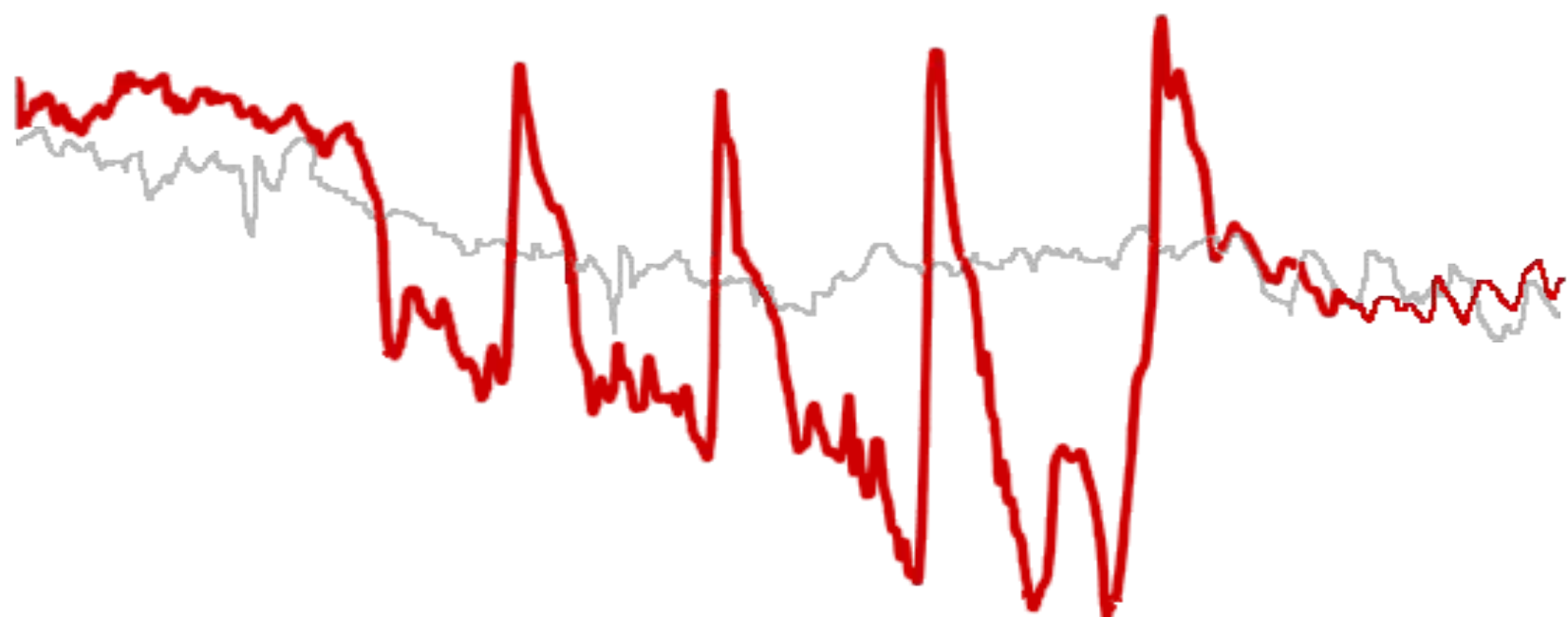
A Data Walk is a tool that allows a conversation to start with facts. This provides an opportunity for learning amongst participants and also helps gain insight into the reasons and stories behind the numbers.

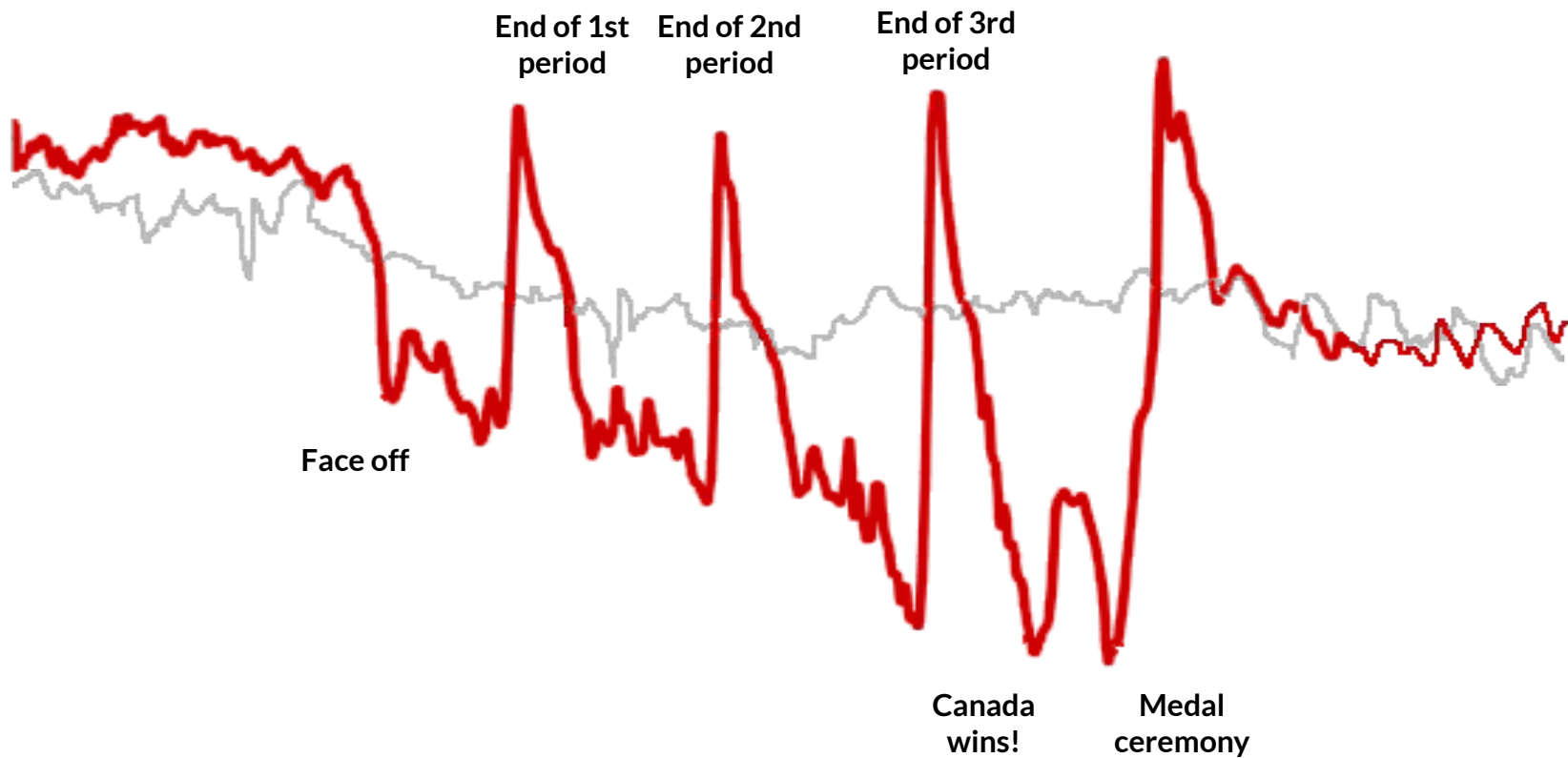


There are stories beneath the numbers.







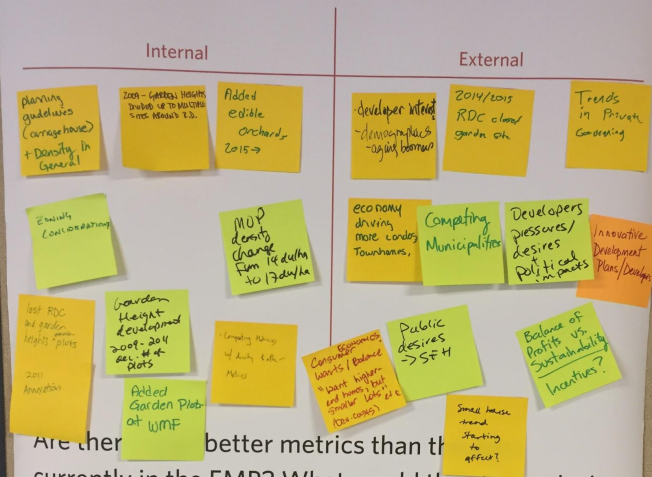




## Data Walks for the Red Deer EMP

## BUILT ENVIRONMENT

What is contributing to this trend?

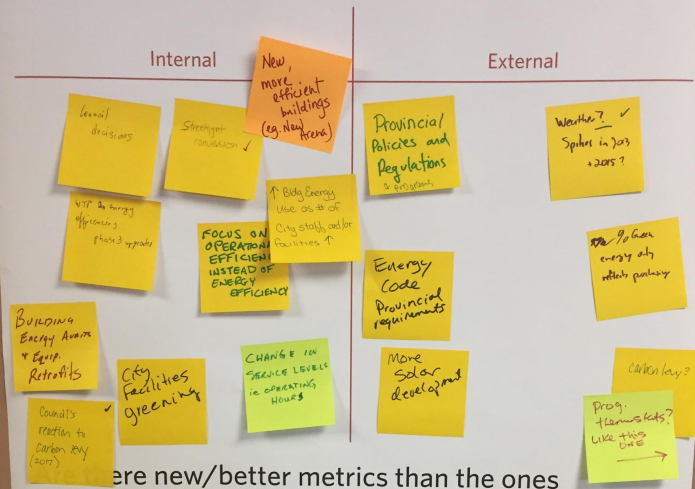


Are there better metrics than the ones currently in the EMP? What would they be, and why would they be better?

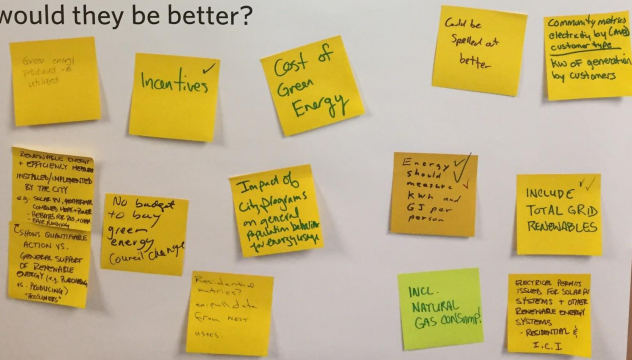


# ENERGY

## What is contributing to this trend?



Are there new/better metrics than the ones currently in the EMP? What would they be, and why would they be better?



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**Time for you to do a data walk!**

# For the next 15 minutes...

1. Find a partner to do your data walk with
2. Grab a question sheet
3. Walk around the posters and explore the data and related questions, providing your feedback

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# Thoughts on your data walk



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# Closing thoughts & questions



**Thank you!**

# Thank you!

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Cassandra Caiger: [cassandra@intelligentfutures.ca](mailto:cassandra@intelligentfutures.ca)

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