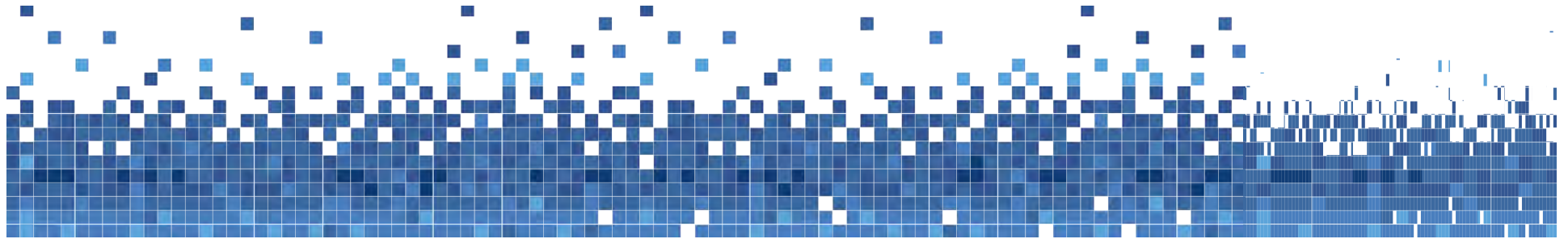




# Overview

- Asset Management
- Where do we start?
- Change Management
- Risk Management
- Asset Management Plans
- Future Focus





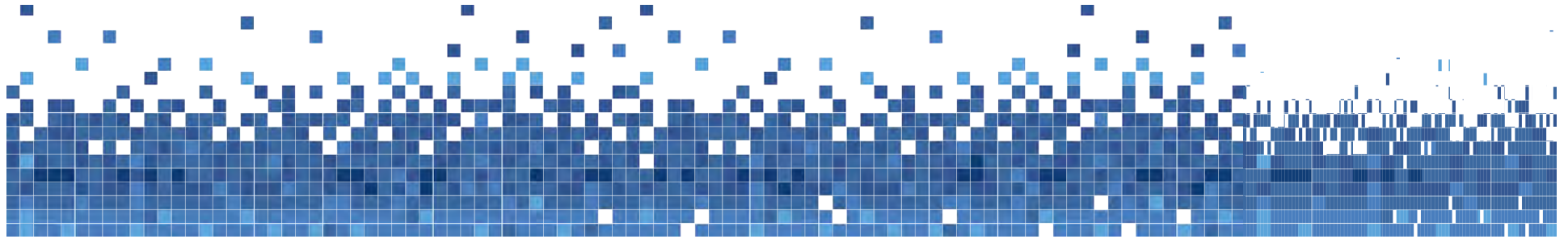
# The Asset Management Landscape

It is changing

But it is challenging to move from Theory to Practice

Key requirements:

- Understand the imperative
- Gain sponsorship
- Demonstrate successes
- Communicate
- Have clear direction



# The Imperative

## Because we have to

- Direction in Ontario
- Direction in Alberta
- Ministry of Infrastructure letter

## Because of scarce resources

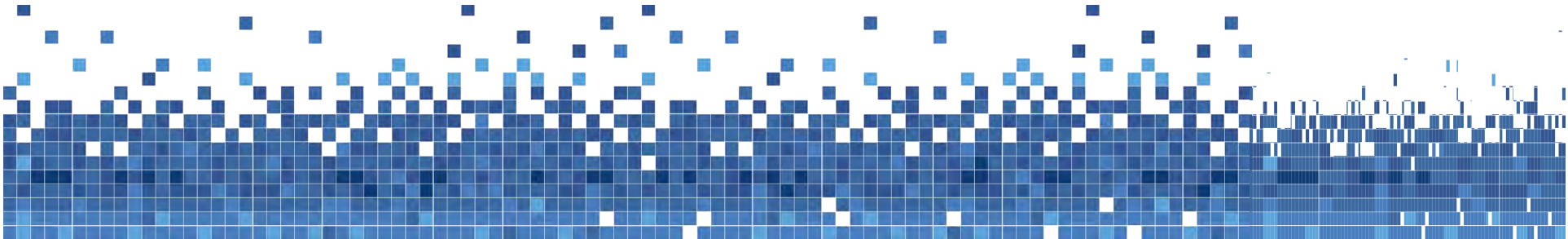
- Economic downturn

## Because of ageing infrastructure

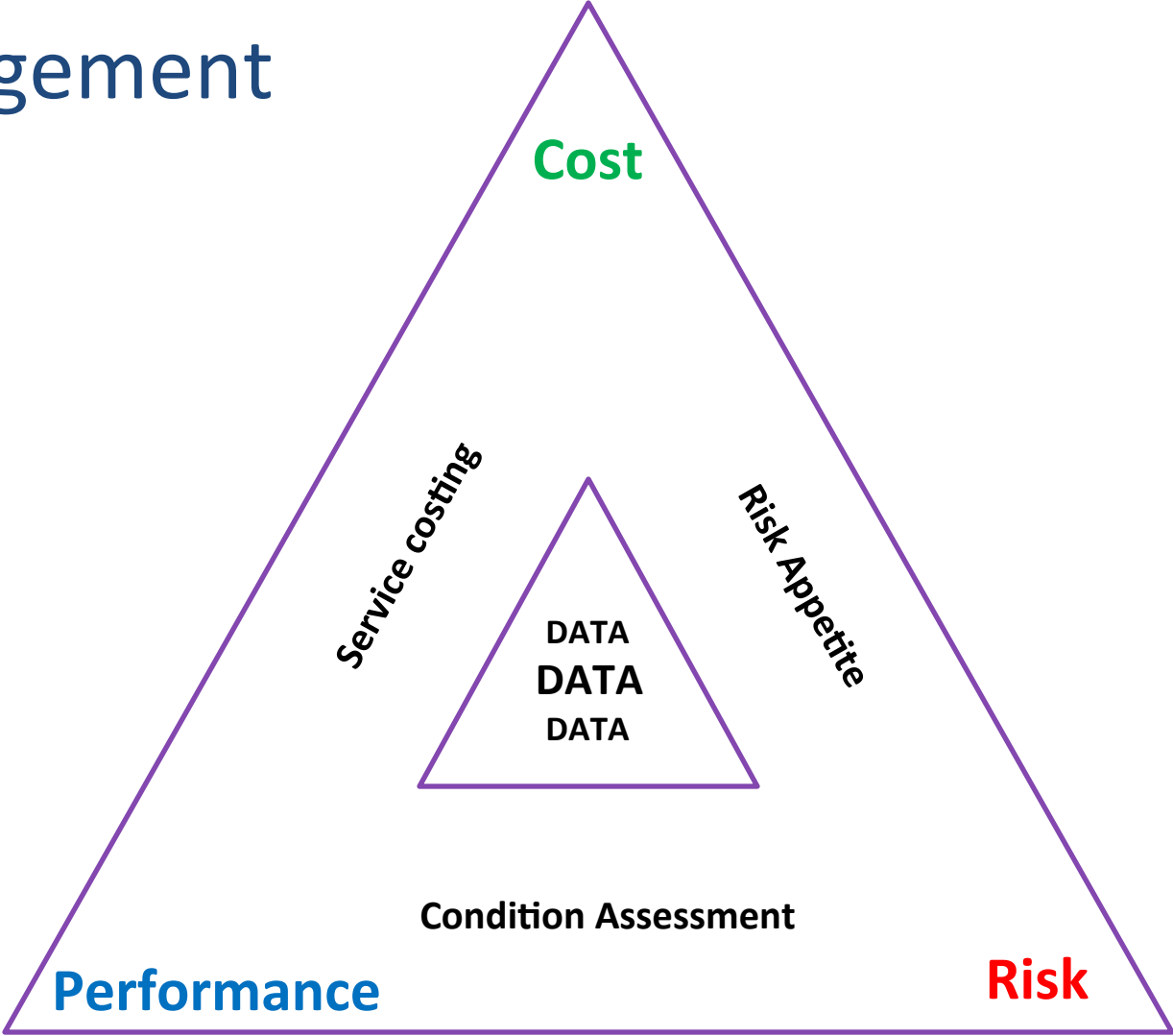
- Future renewal requirements

## Because it is a good thing to do!

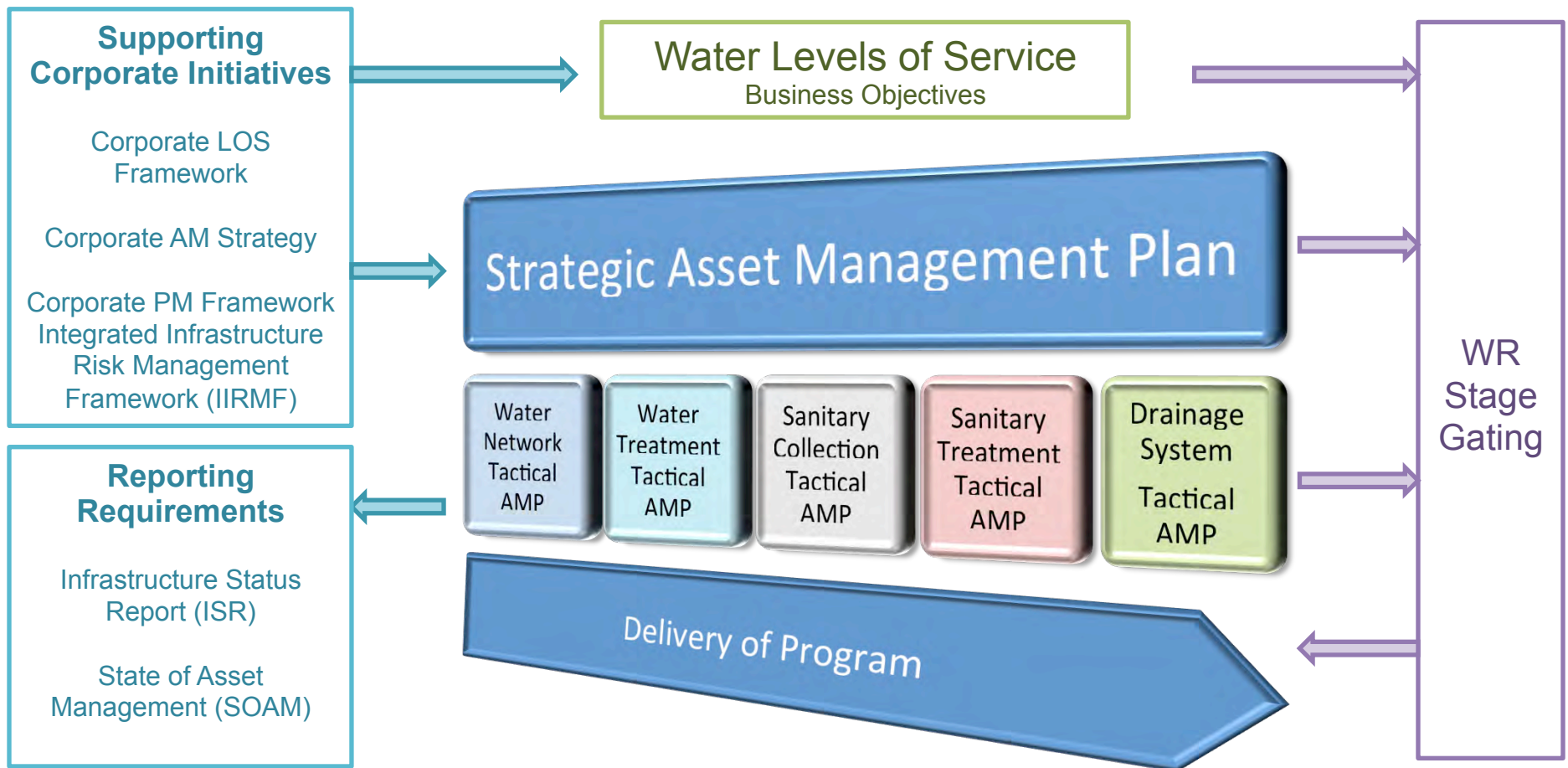
- You, me, all of us paying our taxes and bills!

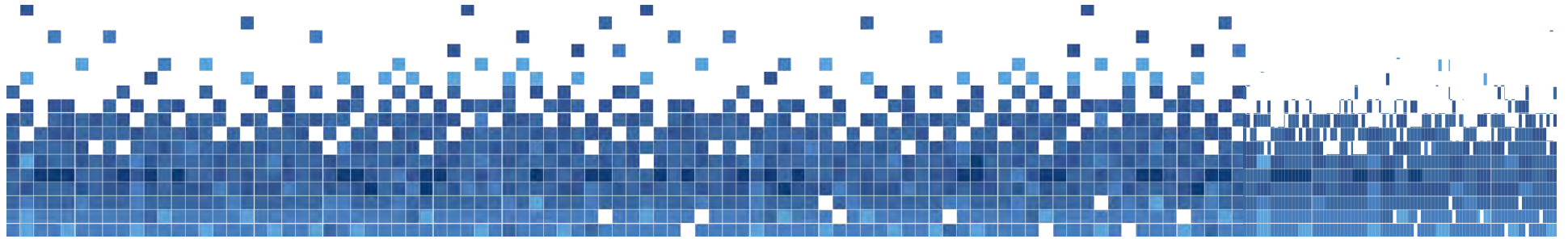


# Asset Management



# Water Resources AM Framework





## Where do we start?

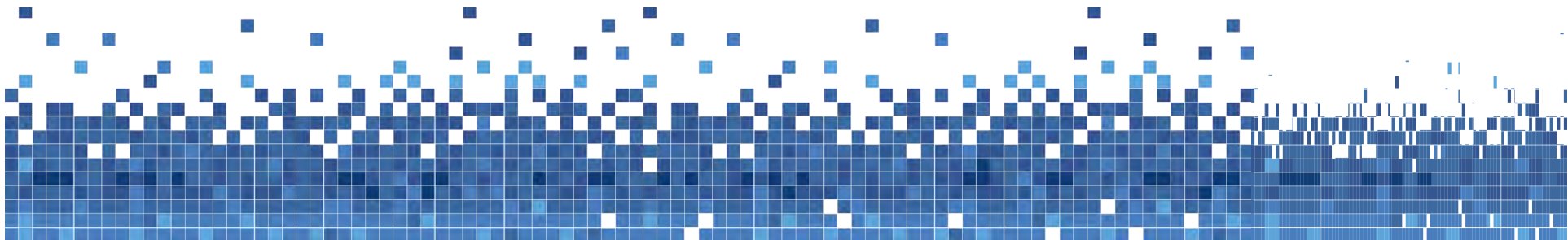
- Leverage existing Information
  - Condition Assessments
  - Infrastructure Performance History
  - Tangible Capital Assets information
  - Capital Programs
  - Growth Forecasts
  - Business Objectives
- Document ongoing initiatives that could inform or influence the AM process

# Our Assets

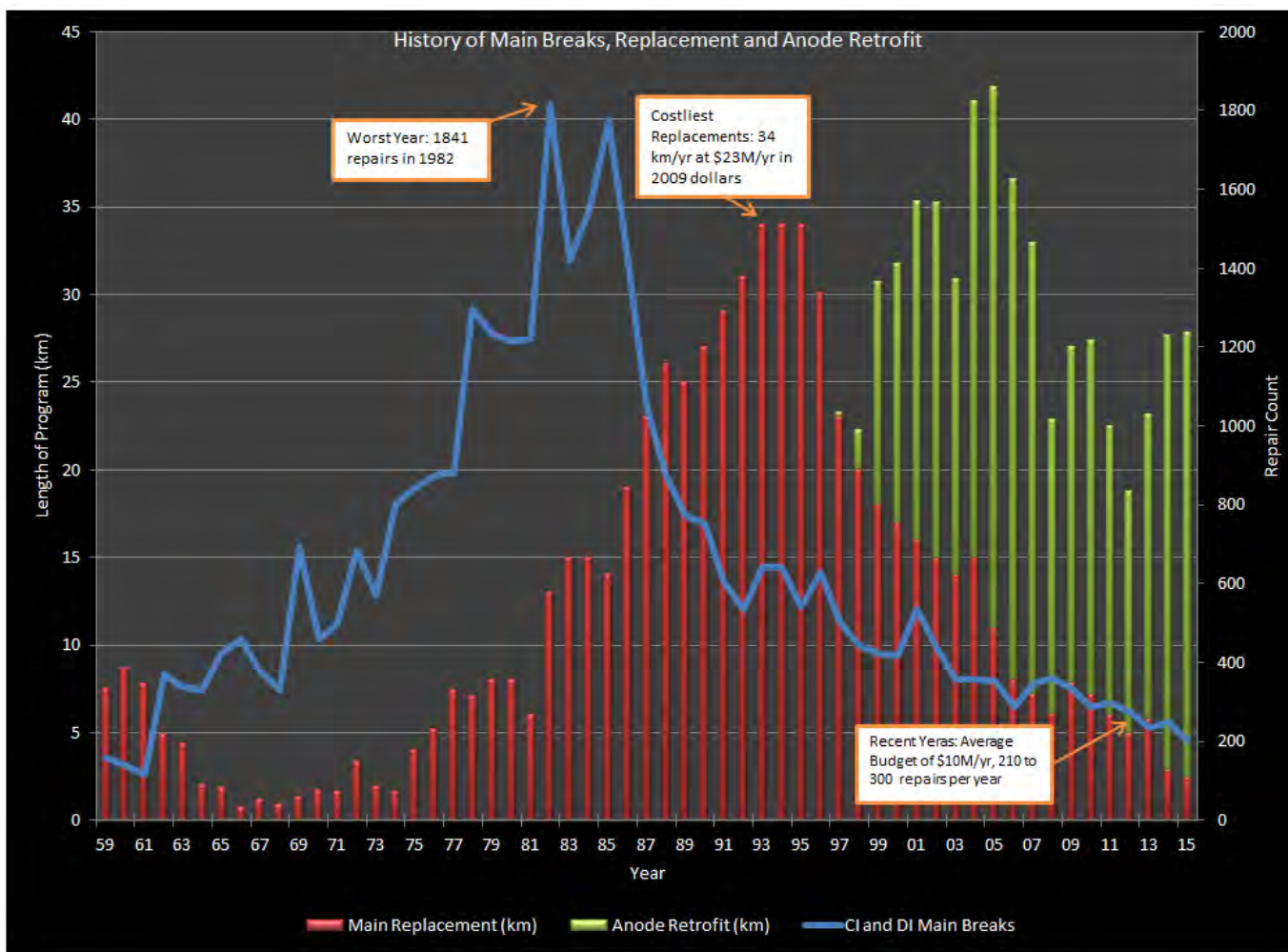
- \$40.2 billion of assets (current replacement value) – approx. 60% of the City of Calgary’s total asset portfolio replacement value
- Over 90% of our assets are rated “Good to Very Good” – Physical Condition. Higher for Demand and Functional Condition

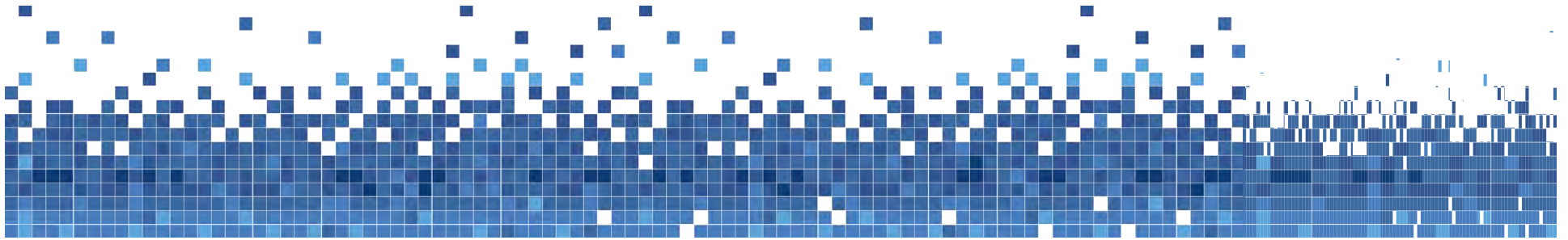






# Leveraging Successes





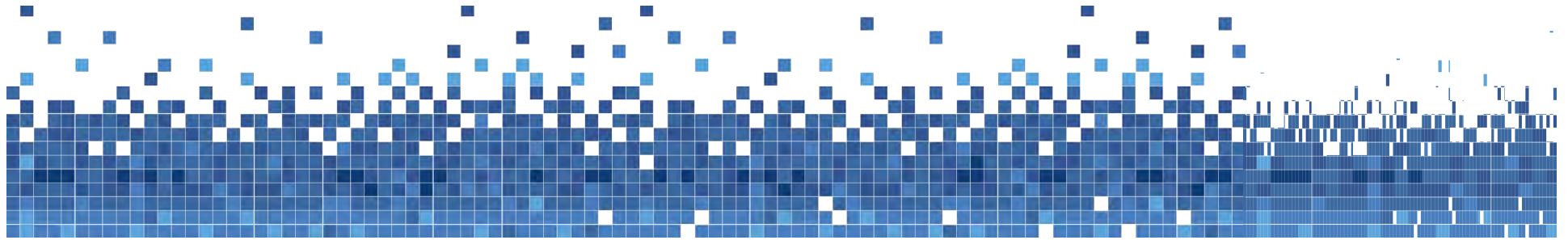
## Another example – Sanitary lining program



Rehabilitation – 30 km/year



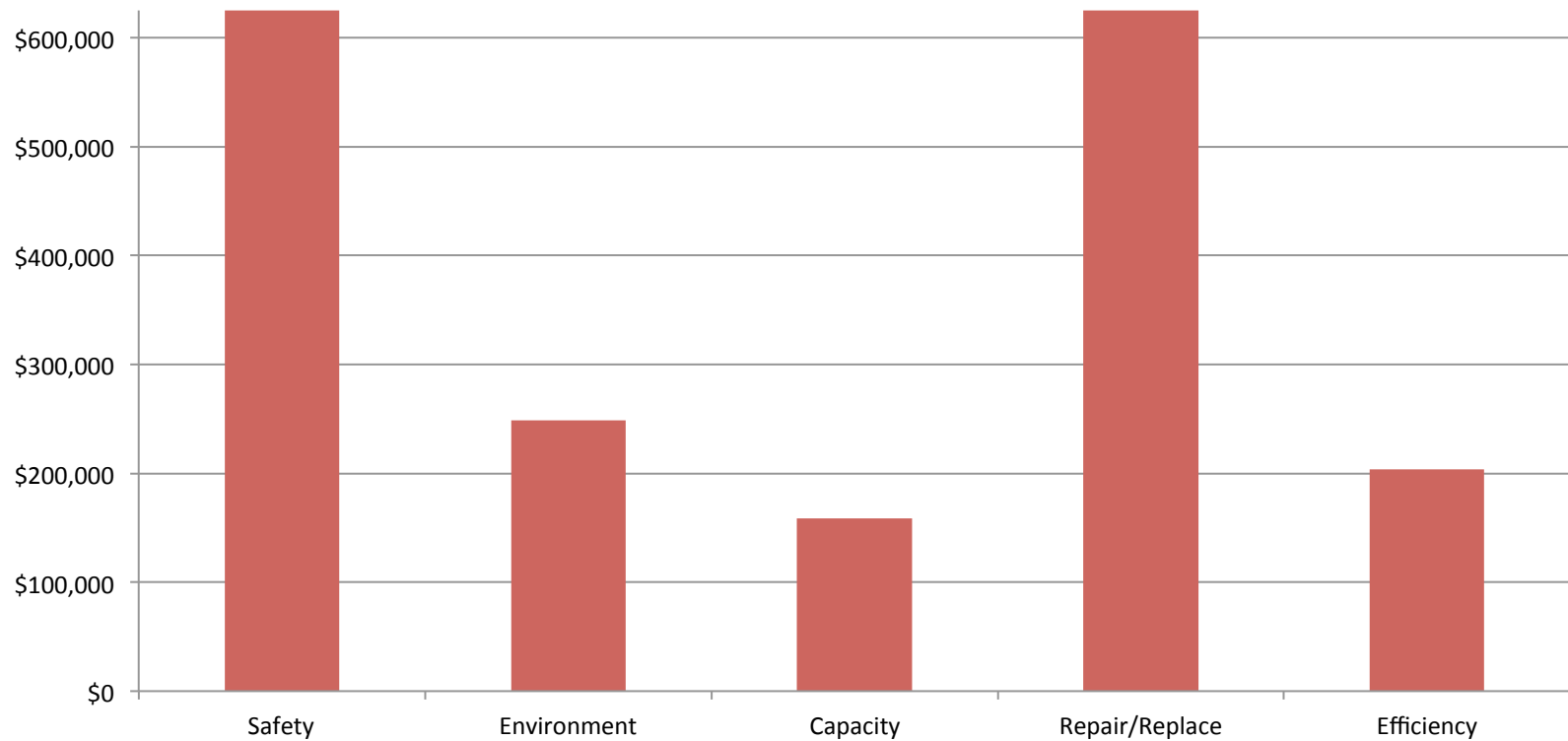
Replacement – 1km/year

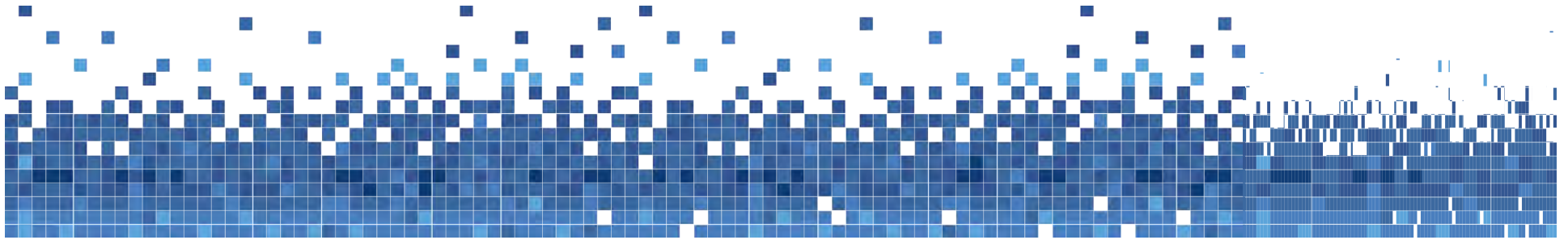


# Risk Management

- Risk and criticality assessments

**Criteria Score Summary**





# Risk Management

- Monitoring the condition of aging infrastructure



# Risk Management – Condition Assessments



**Feeder mains**  
Concrete pipe inspections



**Distribution Water mains**  
Metallic main inspections



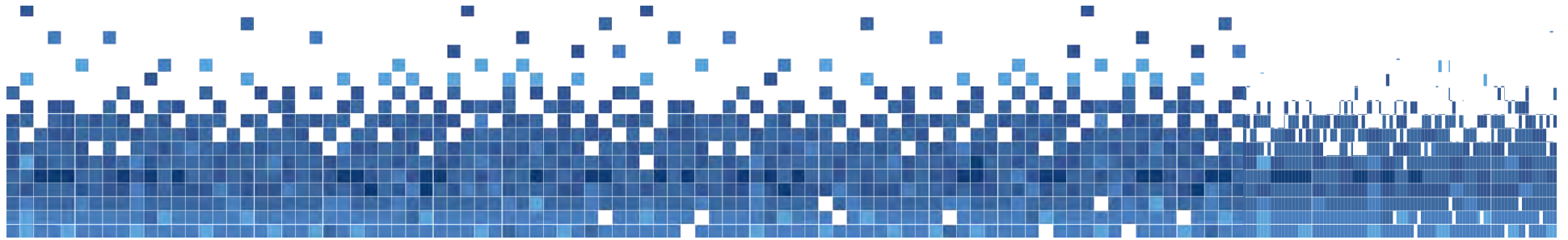
# Risk Management – Infrastructure Investment



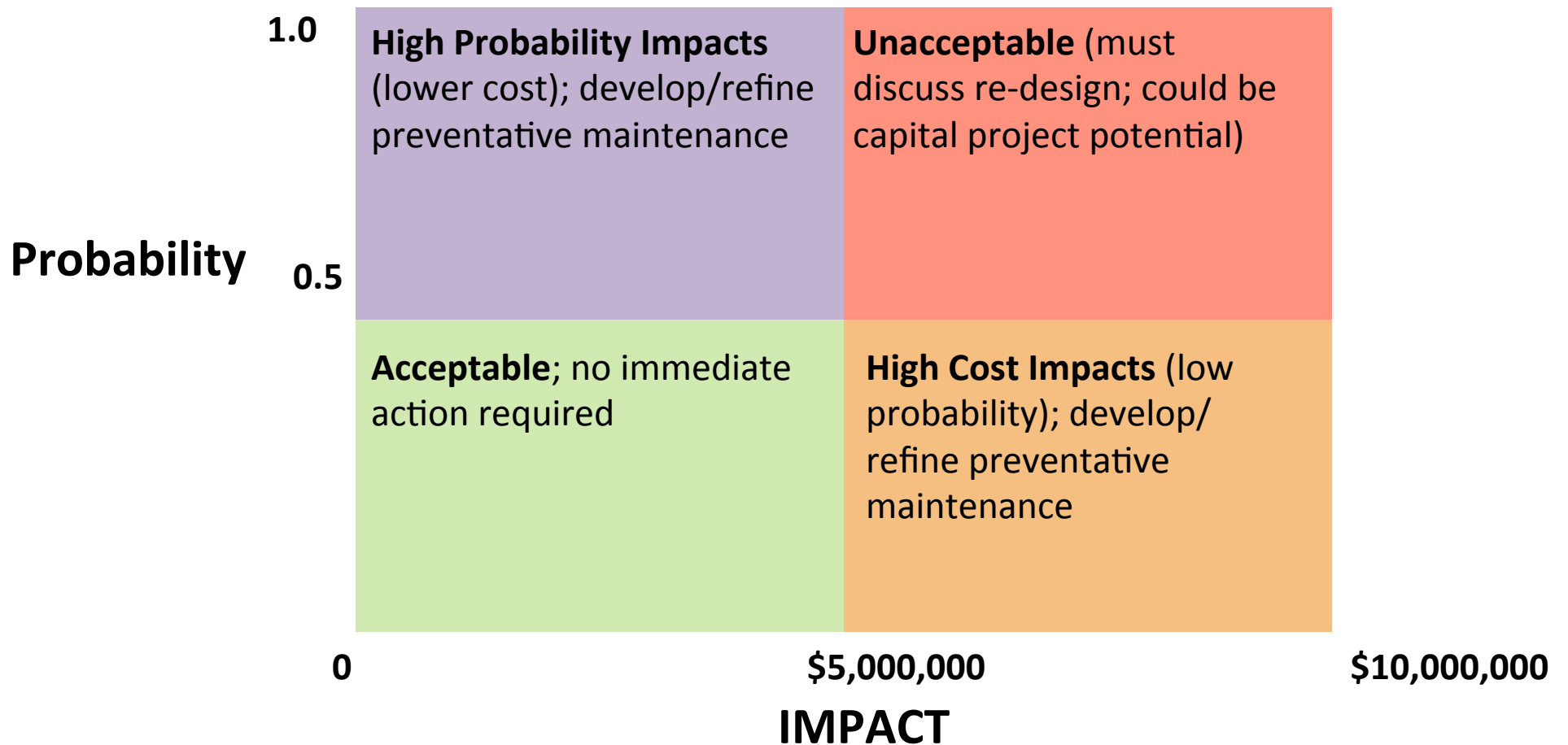
**Bonnybrook WWTP expansion**

**Glenmore WTP upgrades**





# Risk Management – Criticality



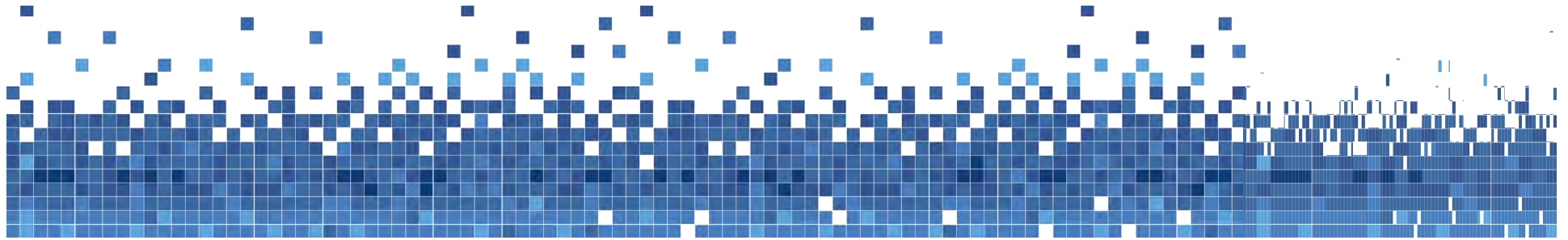


# Asset Management Plan

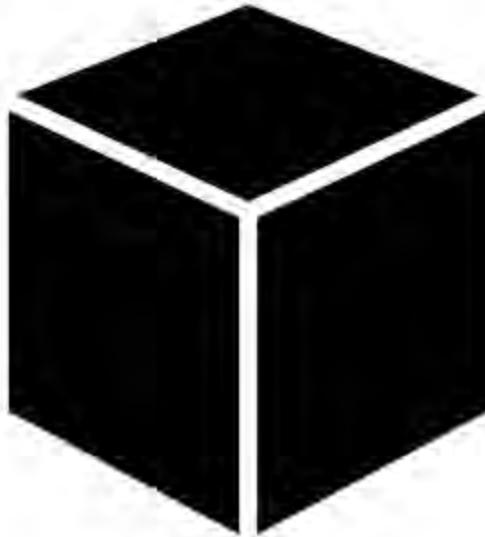


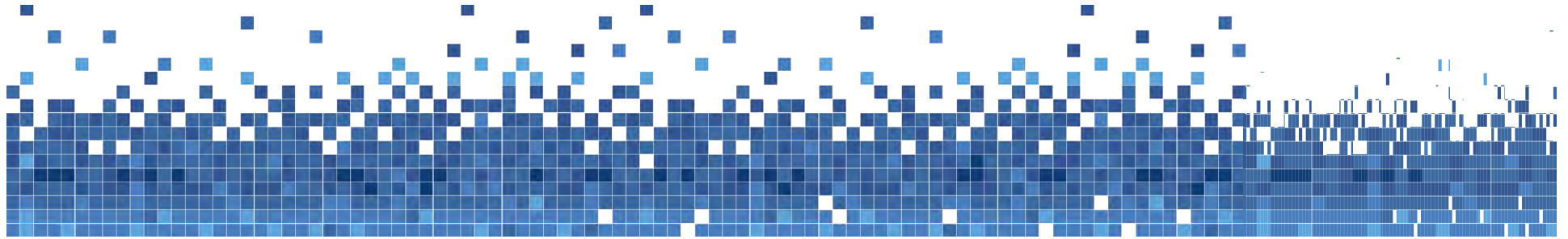
- Provides a means of communicating
  - Internally
  - Externally
- It's a plan and is only a snapshot!





An AMP is not a black box





## Future Focus

- Level of Service review and strategy
- Support continuous improvement in asset management practice.
- Manage the impact of growth through demand management and infrastructure investment.
- Manage the impact of changes in Regulatory requirements
- Hone in on lifecycle practices to develop cost-effective management strategies.
- Energy Management

