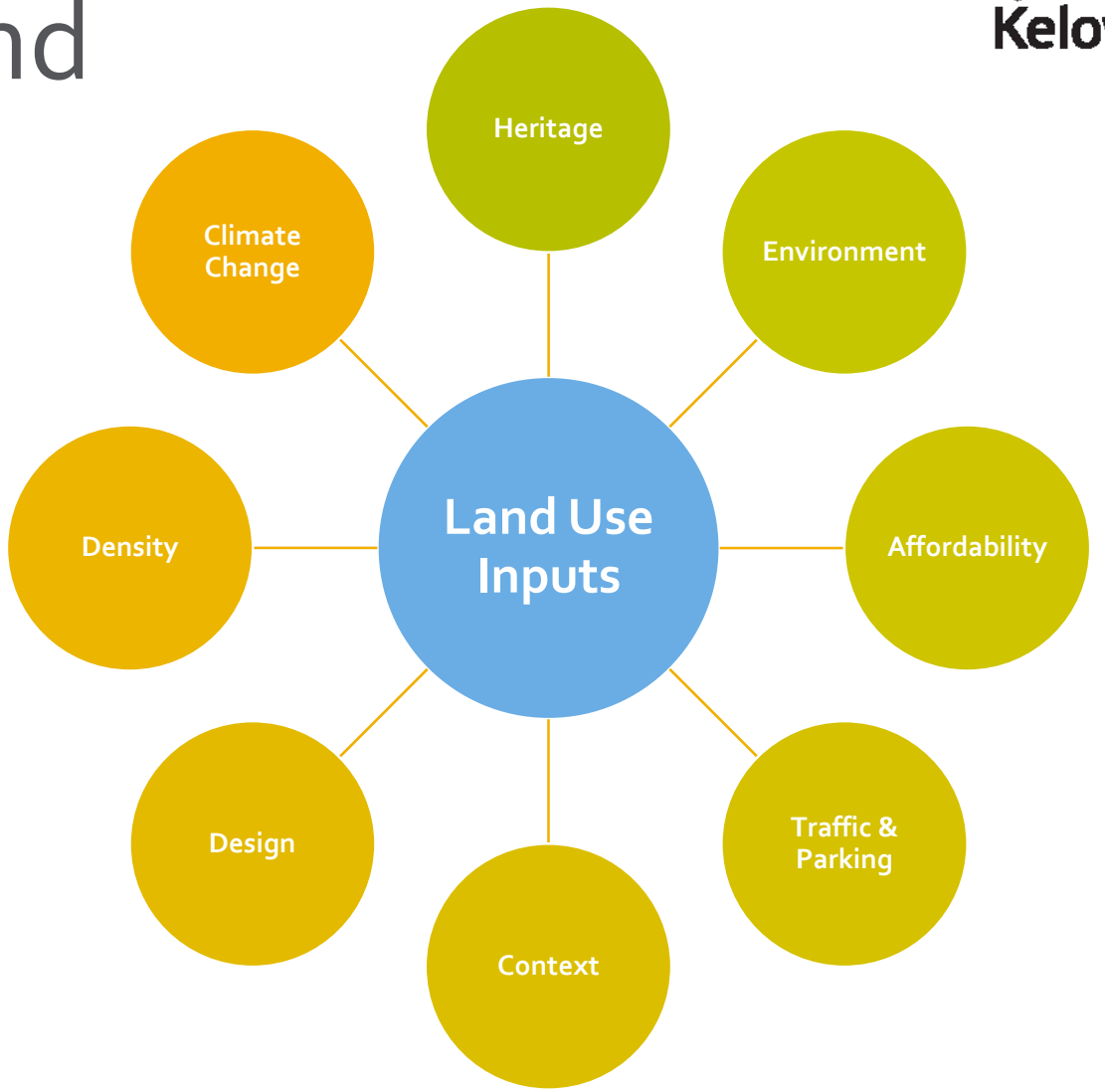
ModelCity Infrastructure

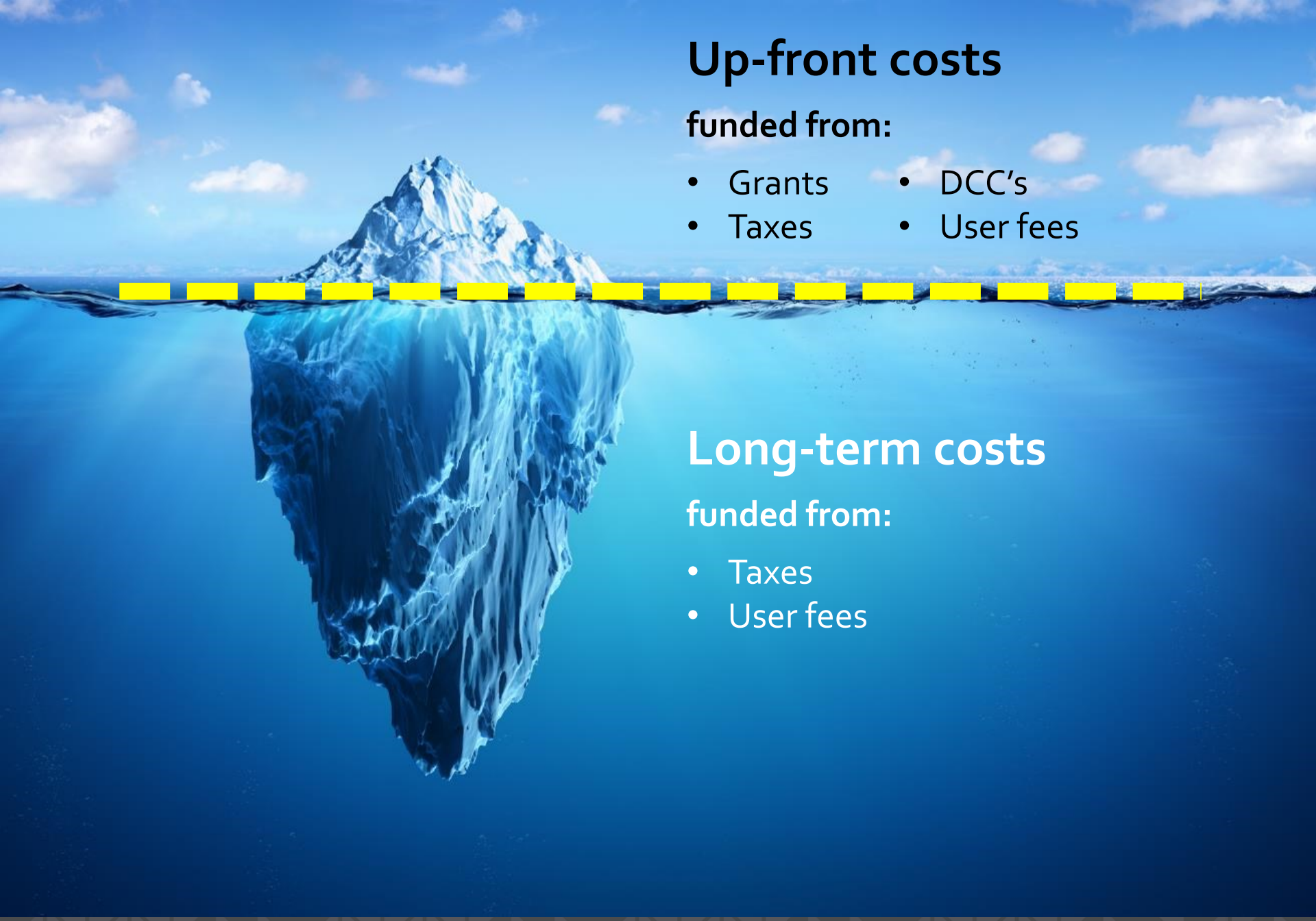
August, 2020

Purpose

- To introduce the ModelCity Infrastructure (MCI) tool
  - Collaborative effort across the City
  - Uses the ModelCity platform

Background


Heritage
Climate Change
Environment
Density
Land Use Inputs
Affordability
Design
Traffic & Parking
Context



Up-front costs

funded from:

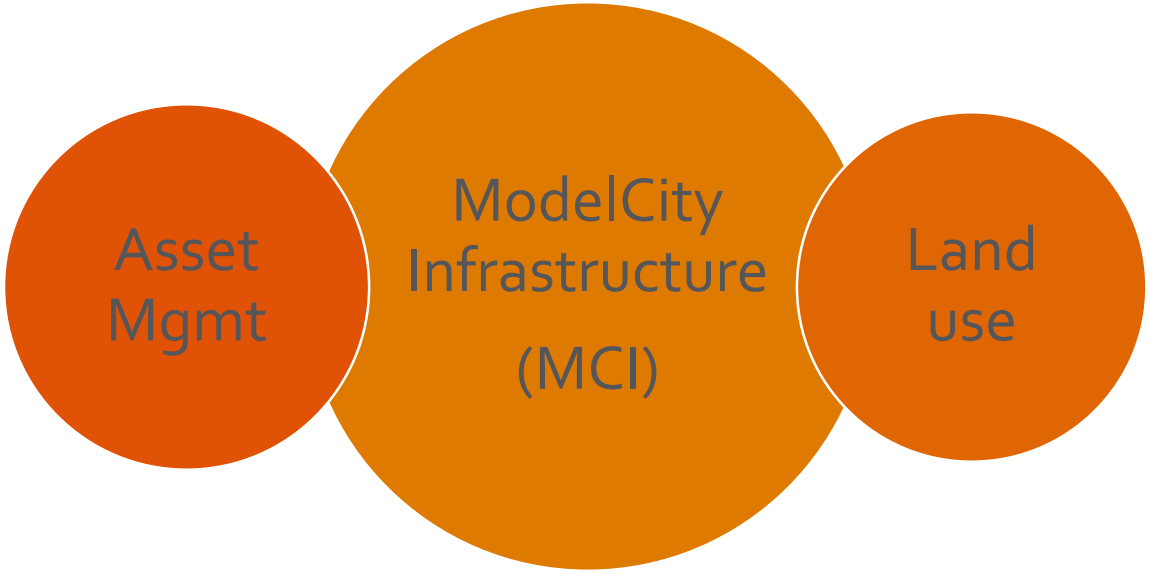
- Grants
- Taxes
- DCC's
- User fees

Long-term costs

funded from:

- Taxes
- User fees

Background



Background

- Why is this important?
  - Do different land uses have different long-term infrastructure impacts?
    - Infrastructure deficit
    - Financial sustainability

Methodology

Costs + **Revenue** / **N'hood** = **MCI**

- Roads
- Sanitary
- Water
- Storm
- Parks

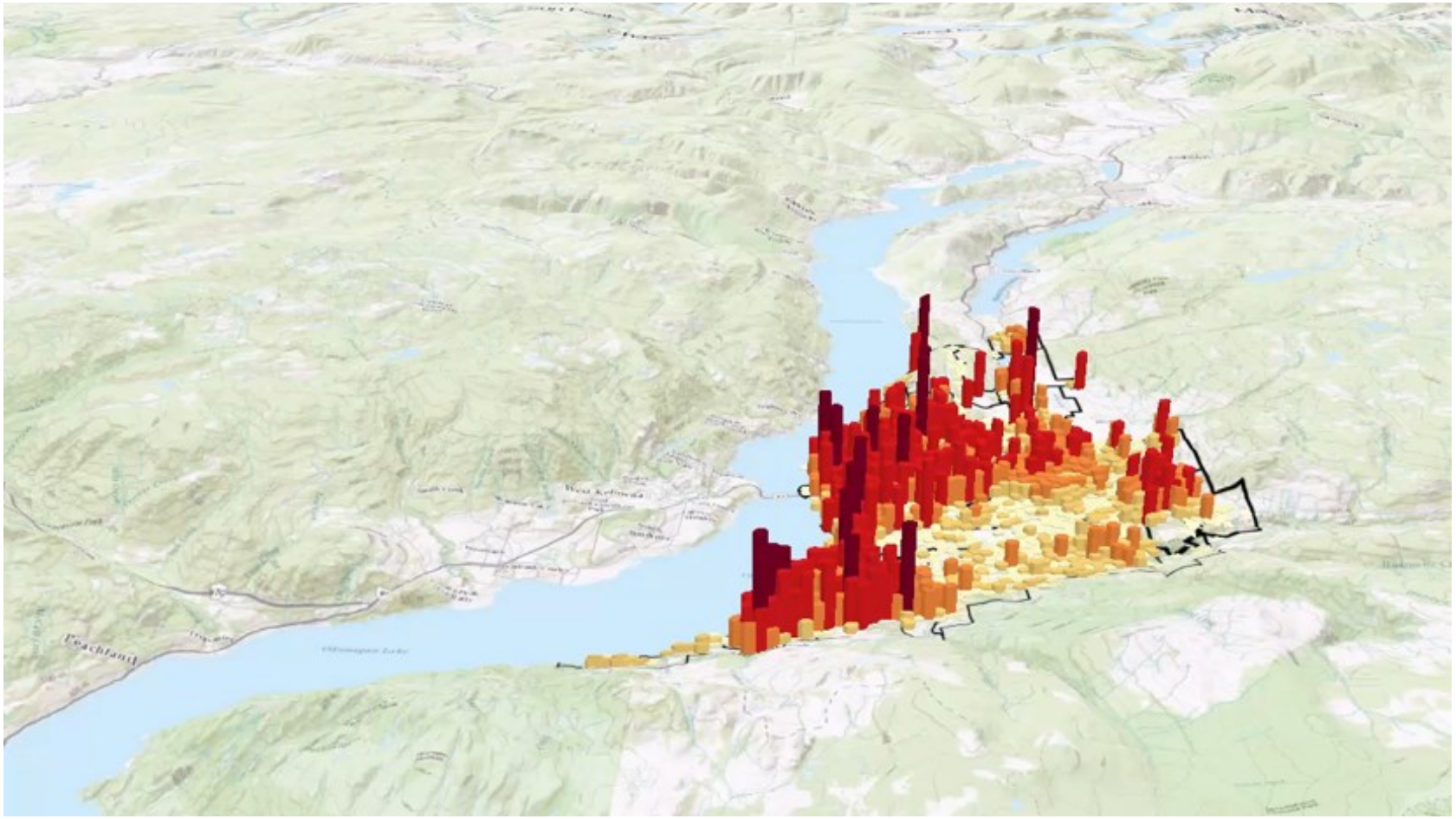
- Property taxes
- Utility fees
- Infrastructure Levy

Assigning Costs

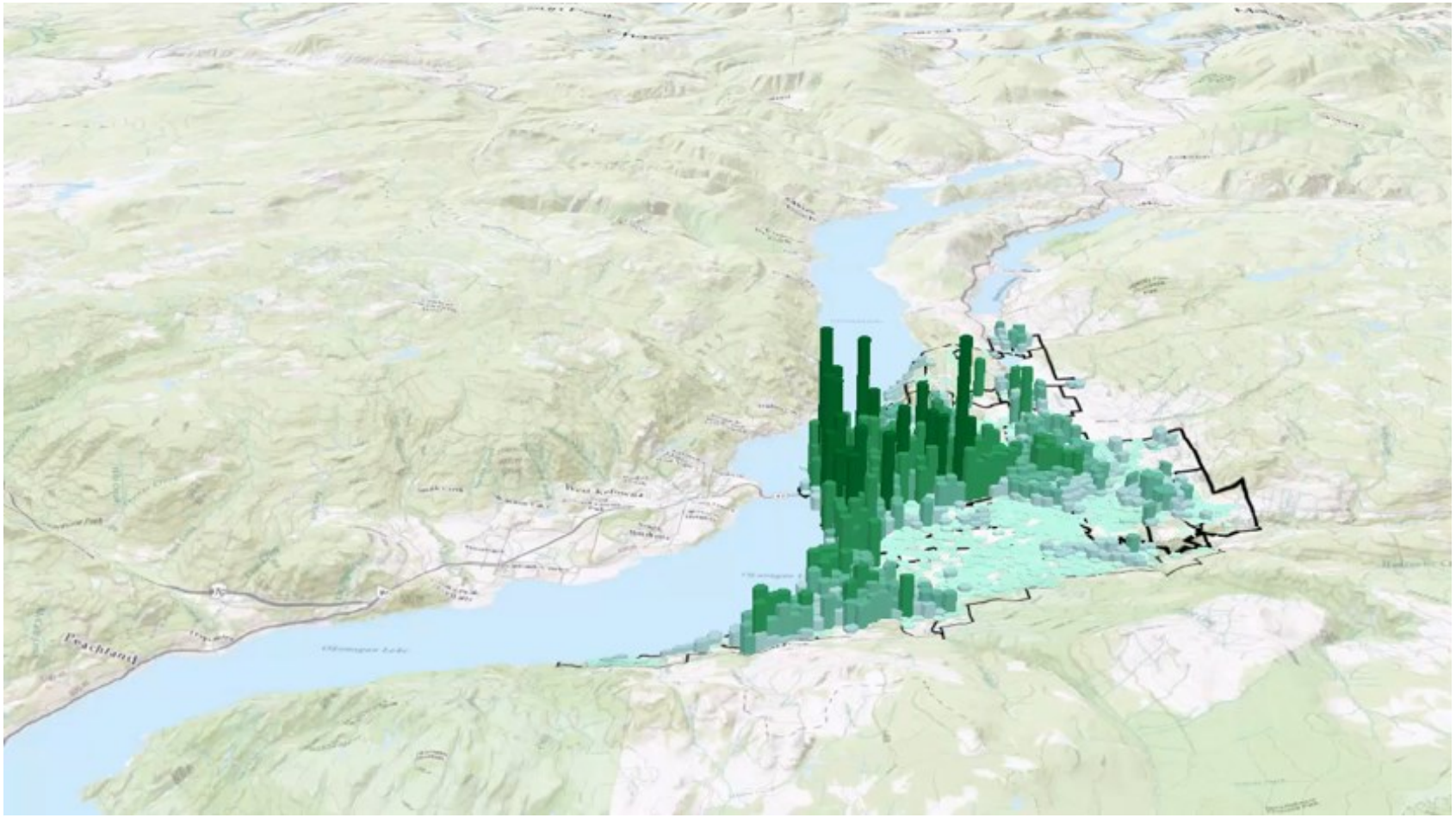
1. Neighbourhood specific Infrastructure
2. Neighbourhood shared Infrastructure
3. City Shared Infrastructure

Results

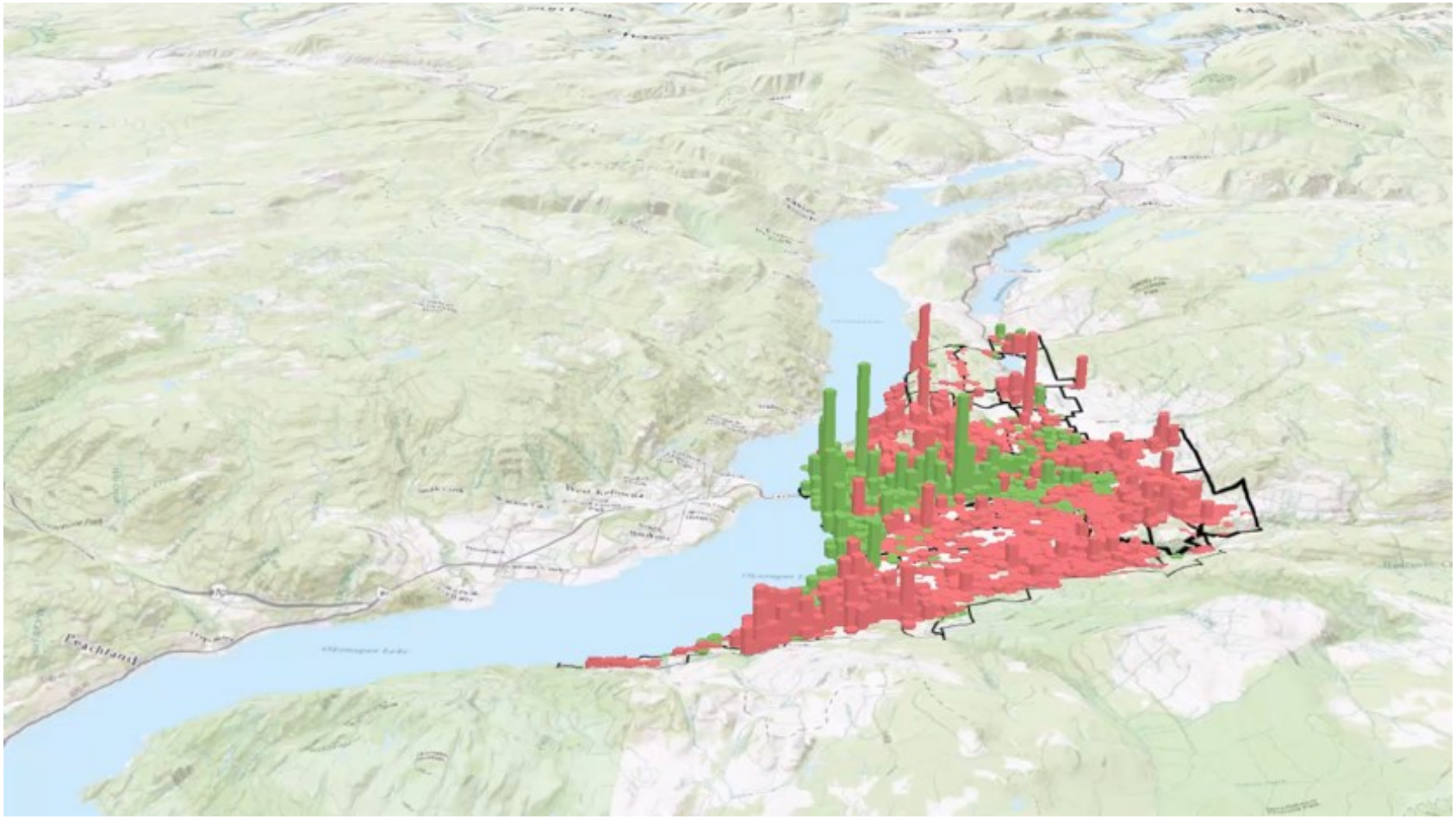
Results



Results

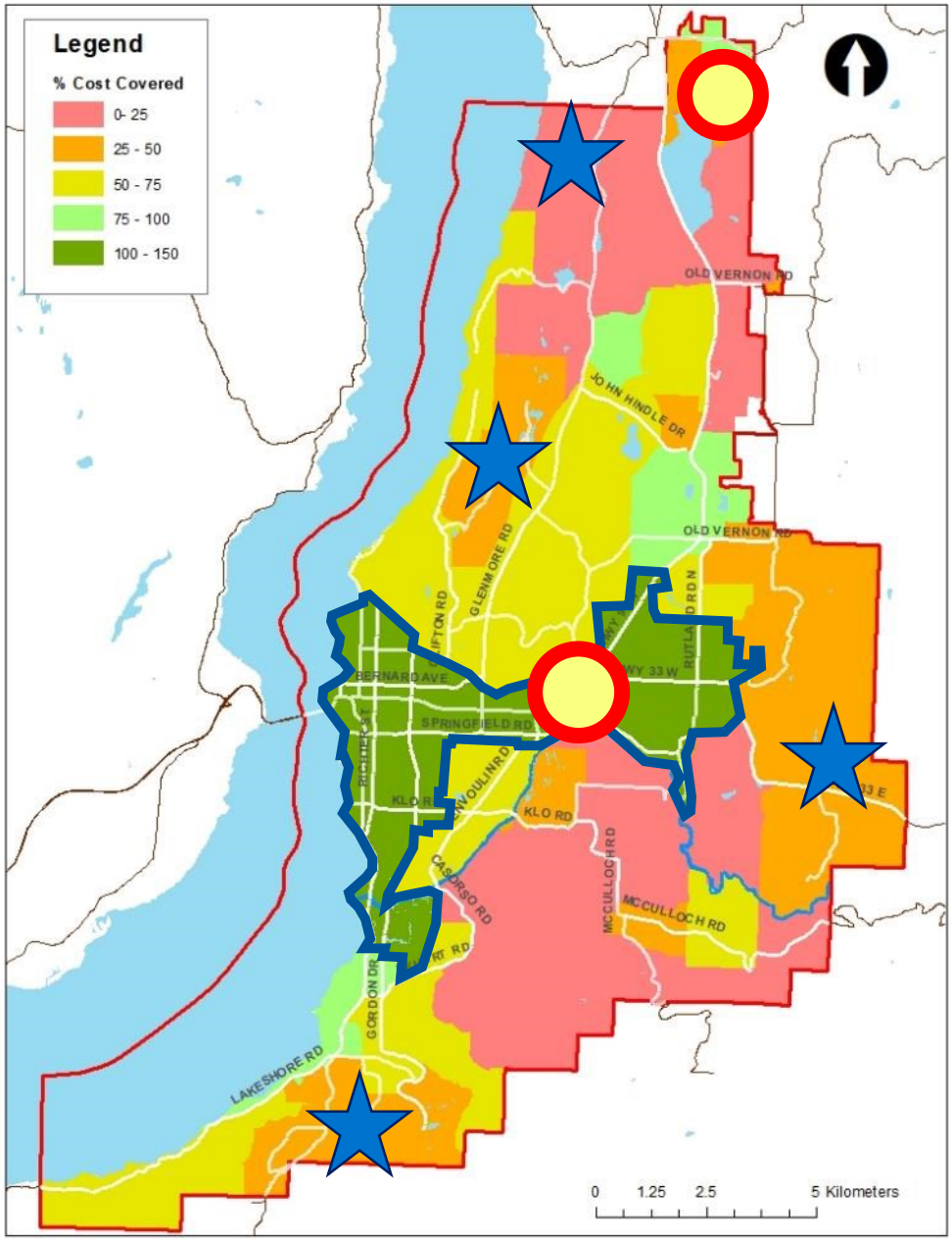


Results



Results

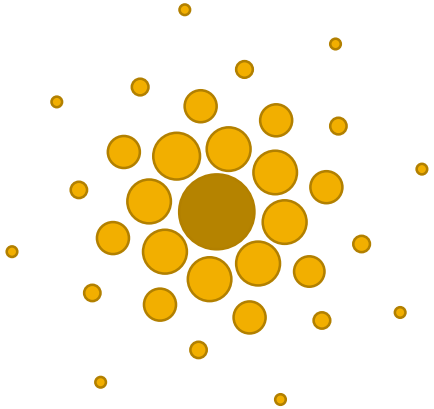
- Core vs. Suburbs
- Hillsides
- Commercial & Industrial



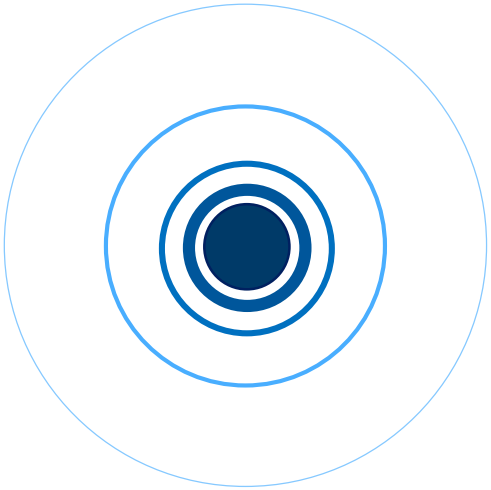
Results

- Looking at 3 key factors:

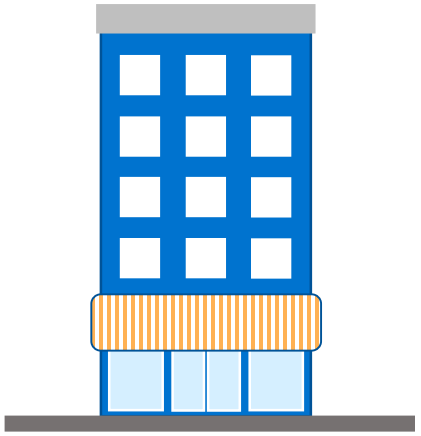
Density



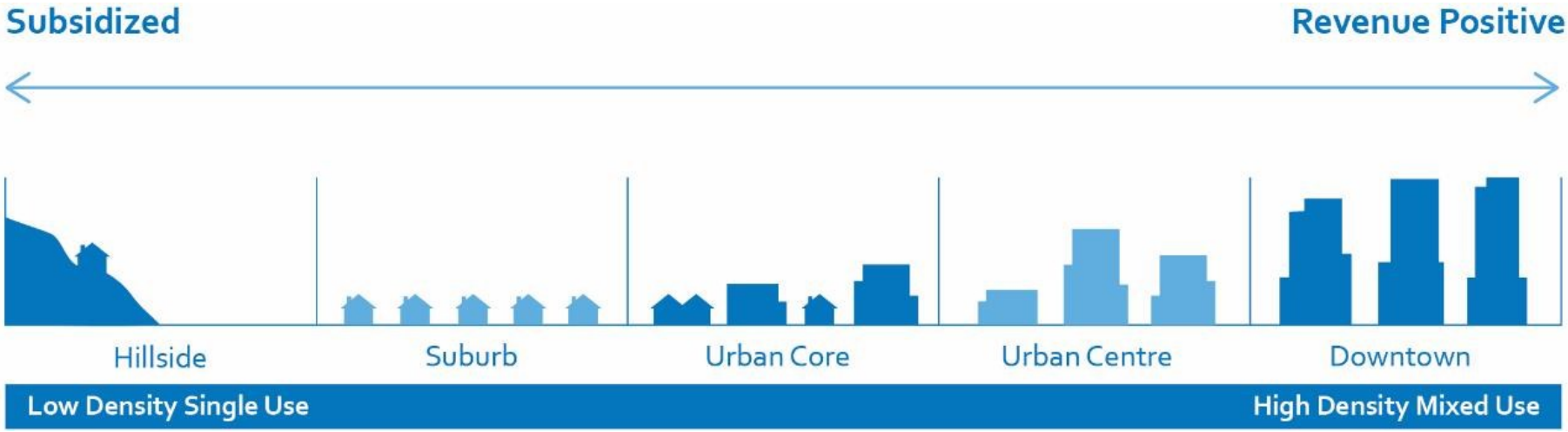
Proximity



Diversity



Results


Subsidized
Revenue Positive
Hillside
Suburb
Urban Core
Urban Centre
Downtown
Low Density Single Use
High Density Mixed Use

Next Steps

- So what should we do with this info?
  - Make better land use decisions
  - Car analogy
  - Link between AM and LUP
  - Identify the issues up front, before we inherit the problem in perpetuity

Next Steps

- Consistent with Imagine Kelowna, 2040 OCP
- Apply the tool to major development applications
- This is adds one tool to the toolbox
  - A good infrastructure decision does not necessarily mean a good land use decision

Questions?

For more information, visit **kelowna.ca**.