DESIRABILITY vs. ASSET MANAGEMENT
Prioritizing Pedestrian and Cycling Infrastructure

by
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CITE Kelowna June 6, 2016
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Outline

• Introduction and Background
• Determine Projects
• How to Prioritize Projects?
• Evaluation
• Case Study
• Conclusions
INTRODUCTION & BACKGROUND

• Providing Pedestrian & Bicycle Infrastructure
  – Personal Health
  – Urban Mobility
  – Economic Growth
  – Safety Perceptions
  – Traffic Flow
  – Air Quality
  – Transit Ridership
**Introduction & Background**

- Barriers to Active Transportation
  - Discontinuous, Substandard, or Lacking
  - Perceived and Actual Safety
  - Funding for Infrastructure
Determine Projects

- Conduct an Inventory and Assessment
- Determine Gaps
- Develop Network
- Create Cost Estimates
How to Prioritize Projects?

• Examples of Objectives:
  – Use of Asset Management to Reduce Capital Costs
  – Greenhouse Gas Reduction Targets
  – Qualify for Infrastructure Grant Money
  – Improve Safety of Vulnerable Road Users
  – Reduce Traffic Congestion to Address Air Pollution
  – Promote Economic Growth
Evaluation

• Are we Meeting the Objectives?
• Develop Performance Indicators:
  – Reduce Vehicle Trips → Traffic Count Data
  – Improve Personal Health → Health Authority
  – Increase Active Travel to School → School Board
  – Increase Recreation → Trail and Pathway Counts
  – Increase Transit Ridership → Transit Authority
CASE STUDY

• West Kelowna Pedestrian and Bicycle Infrastructure Plan
  – Desirability vs. Asset Management
Desirability

- Anticipates Latent Demand for Facilities due to Proximity to Major Trip Generators
**Desirability**

- Weightings for Project Segment Proximity to Trip Generators

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<thead>
<tr>
<th>TRIP GENERATOR</th>
<th>5-MINUTE WALK</th>
<th>10-MINUTE WALK</th>
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<tbody>
<tr>
<td>Transit Exchange</td>
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<td>6</td>
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<td>Elementary School</td>
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<td>Community Centres</td>
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<td>Major Parks &amp; Heritage Sites</td>
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**Network Link Weights**

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# Desirability

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Asset Management

- Prioritizes Projects Based on Existing Capital Utility Work where the Roadway will be Removed and Replaced
Outcomes

• Asset Management Approach: $400,000/yr
• Existing Spending: $150,000/yr
• Council Reprioritized to School Zones
  – $600,000/yr for first 5 years
  – $250,000/yr for next 5 years
Conclusions

• Asset Management
  – Sustainable Scheme for Capital Projects
  – Reduce Costs of Pedestrian & Bike Infrastructure

• Desirability
  – Prioritize Based on Higher Benefit / Utility

• Combination: Holistic & Pragmatic

• Success: Adopted Plan & Increased Funding
Questions?

Thank you