

DESIRABILITY VS. ASSET MANAGEMENT

Prioritizing Pedestrian and Cycling Infrastructure

by

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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?

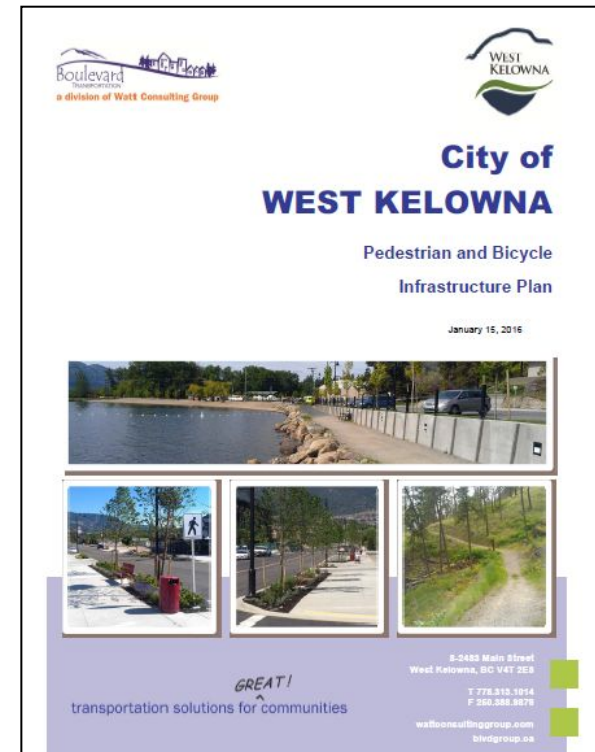
- Examples of Objectives:
 - Use of Asset Management to Reduce Capital Costs
 - Greenhouse Gas Reduction Targets
 - Qualify for Infrastructure Grant Money
 - Improve Safety of Vulnerable Road Users
 - Reduce Traffic Congestion to Address Air Pollution
 - Promote Economic Growth

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

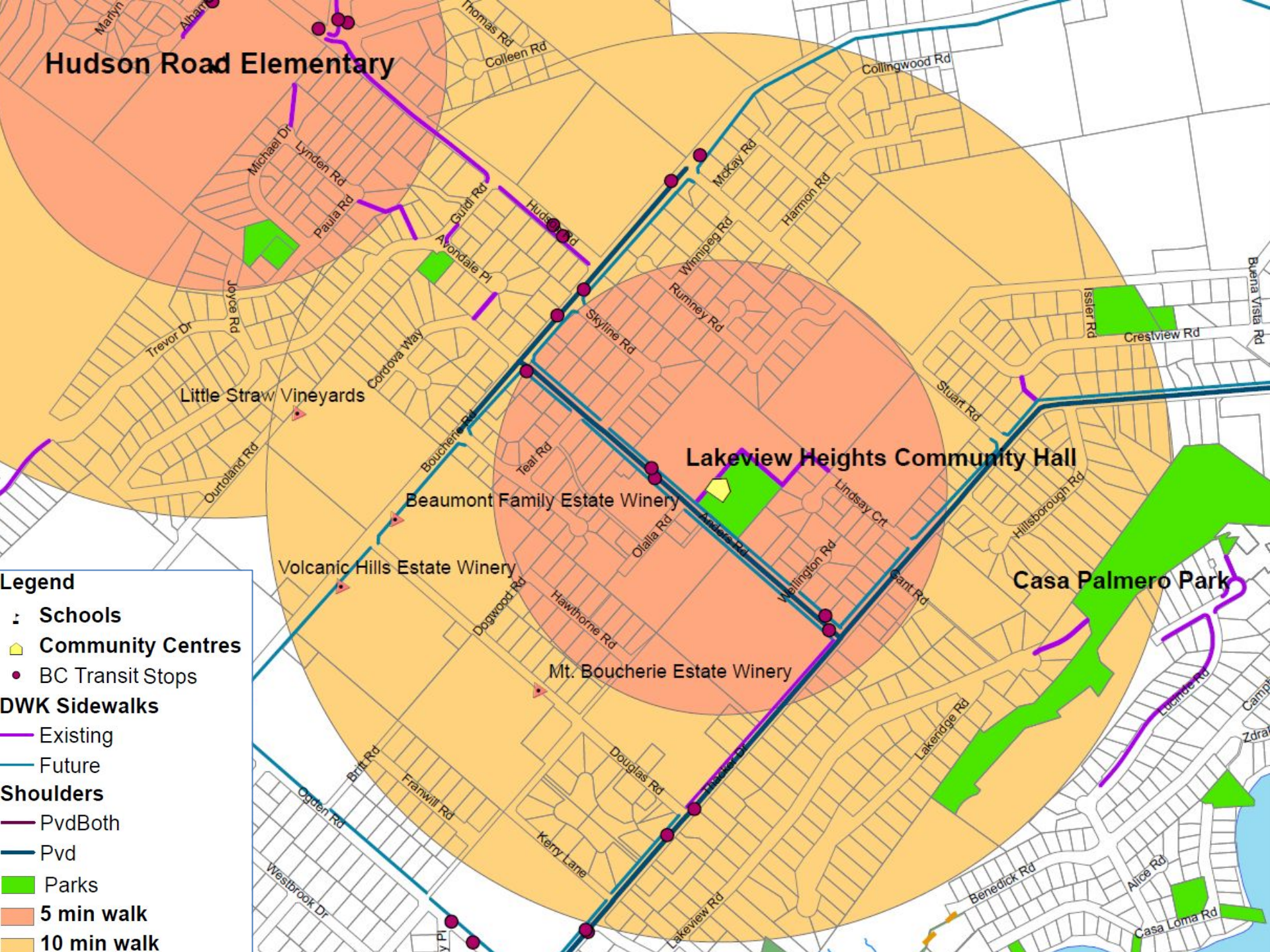
- Anticipates Latent Demand for Facilities due to Proximity to Major Trip Generators



DESIRABILITY

- Weightings for Project Segment Proximity to Trip Generators

TRIP GENERATOR	5-MINUTE WALK	10-MINUTE WALK
Transit Exchange	10	6
Elementary School	9	6
Middle/Secondary School	8	5
Community Centres	7	4
Neighbourhood Commercial	7	5
Major Parks & Heritage Sites	7	4
Network Link Weights		
Connects Links		5
Extend Link		2
Major Bus Stop on Link		4
Winery or Farm Route on Link		2



Hudson Road Elementary

Little Straw Vineyards

Lakeview Heights Community Hall

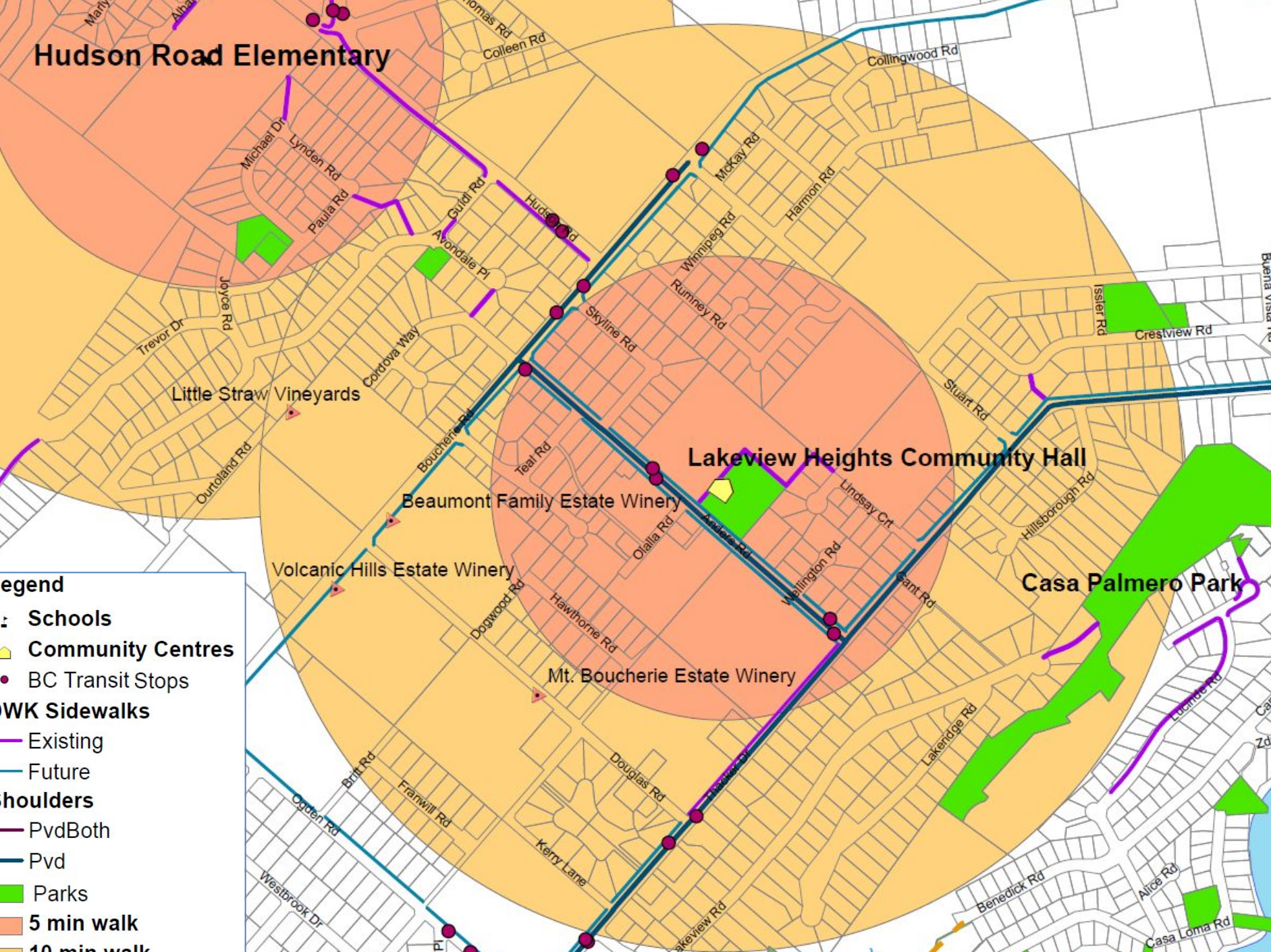
Casa Palmero Park

Beaumont Family Estate Winery

Volcanic Hills Estate Winery

Mt. Boucherie Estate Winery

- Legend**
- ⚡ Schools
 - 🏠 Community Centres
 - BC Transit Stops
 - DWK Sidewalks**
 - Existing
 - Future
 - Shoulders**
 - PvdBoth
 - Pvd
 - 🌳 Parks
 - 🟠 5 min walk
 - 🟡 10 min walk



DESIRABILITY

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ASSET MANAGEMENT

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



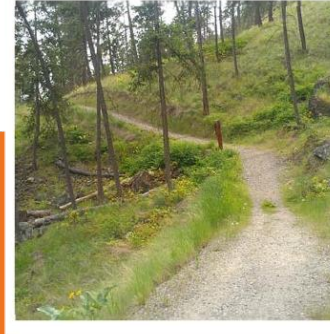
OUTCOMES

- 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?



you