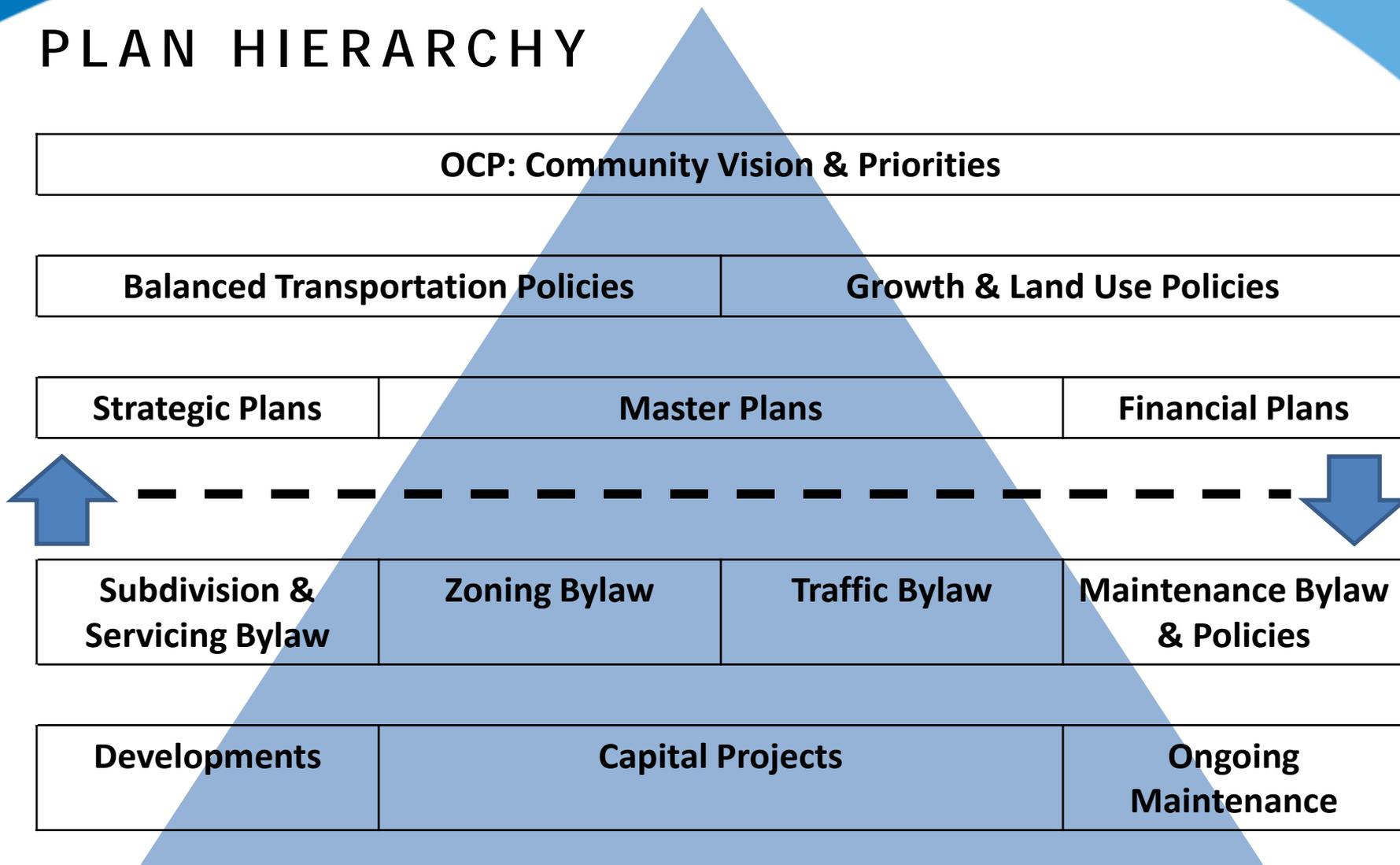


# KELOWNA ON THE MOVE PEDESTRIAN AND BICYCLE MASTER PLAN DRAFT

January 18, 2016



# PLAN HIERARCHY



## VISION

To establish walking and cycling as safe and convenient modes of travel for all ages, abilities and trip purposes, thereby reducing greenhouse gas emissions; and improving community health and well being.



## PRINCIPLES

- ▶ To increase walking and cycling as practical modes of travel; and
- ▶ To improve safety and convenience for pedestrians and cyclists.



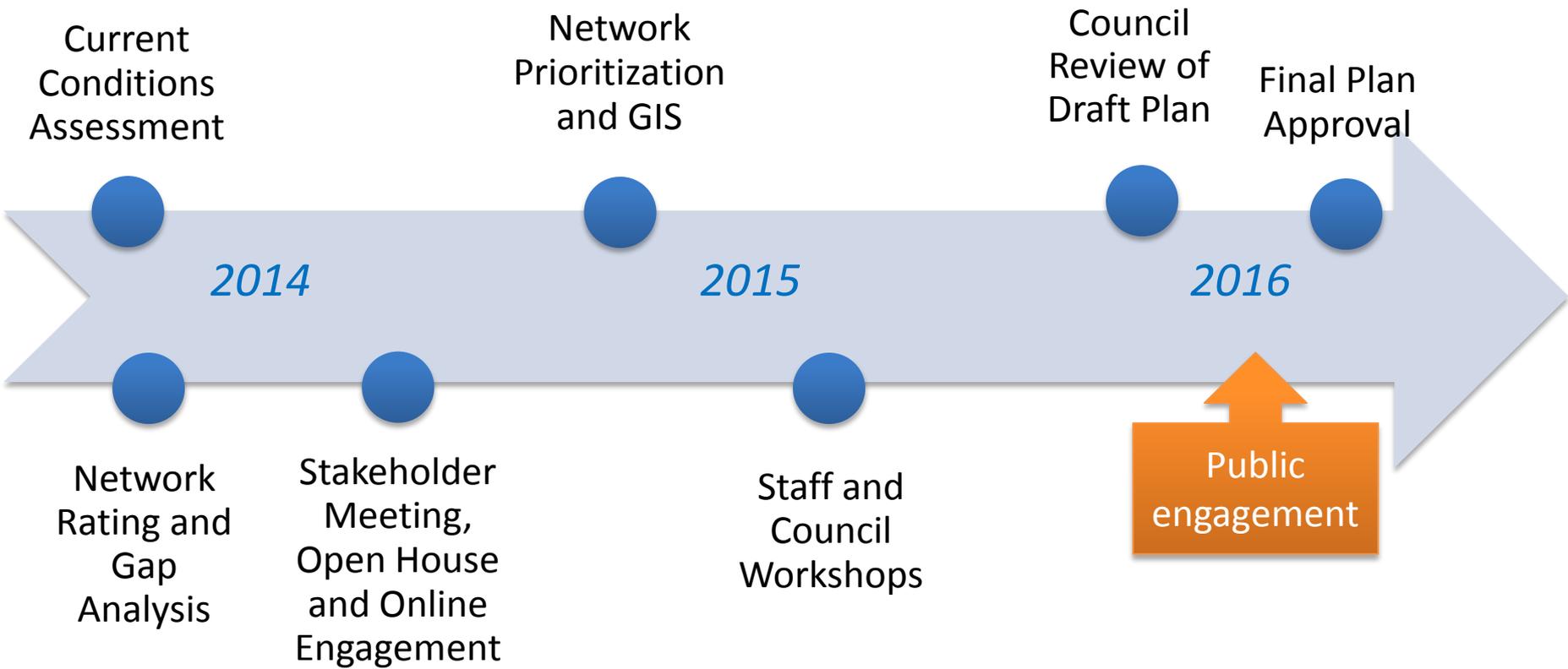
## OBJECTIVES

- ▶ Network Design
- ▶ Planning, Monitoring and Maintenance
- ▶ End-of-Trip and Transit Integration
- ▶ Education and Promotion
- ▶ Bylaws, Policies and Enforcement
- ▶ Funding.



# TIMELINE AND MILESTONES

We are here

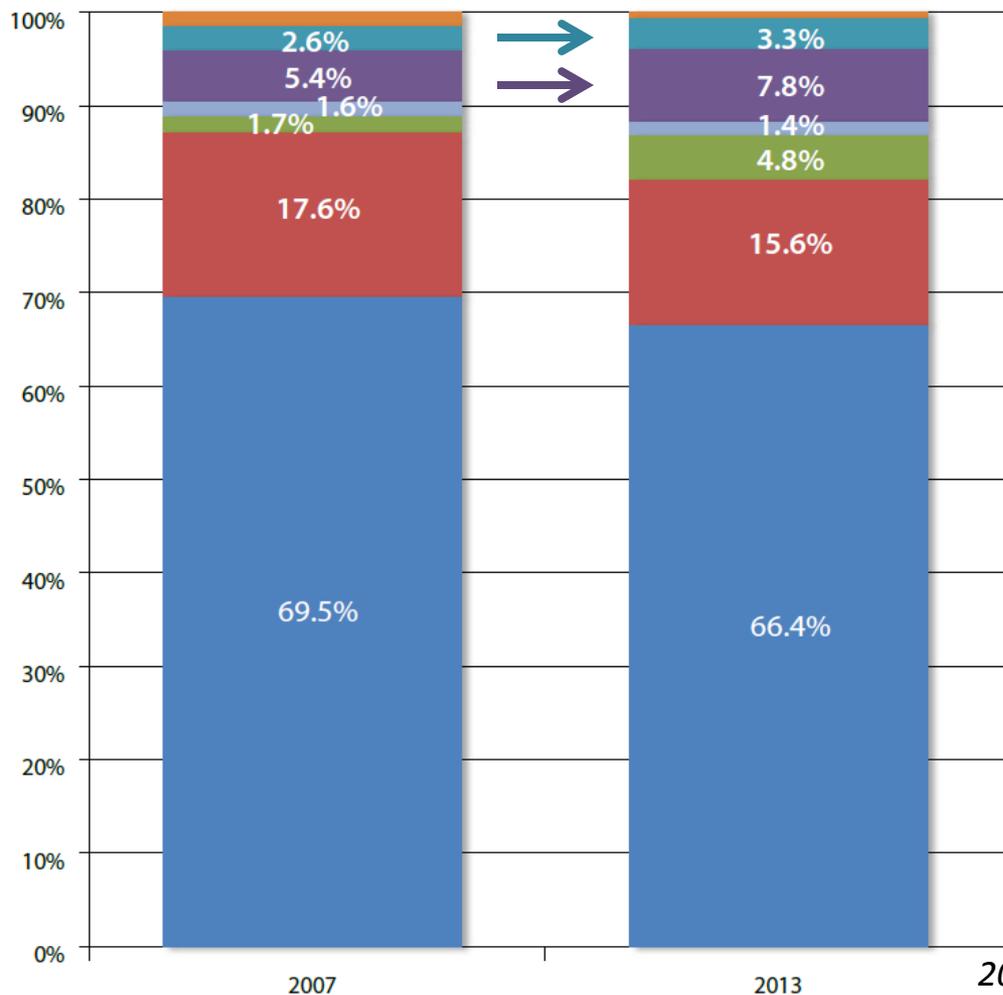


## EXISTING FACILITIES

- ▶ 400 km of sidewalks
- ▶ 300 km of Bike Lanes
- ▶ 40 km of Pathways
- ▶ 4.0 km of Cycle Tracks



# WALKING & CYCLING MODE SHARE

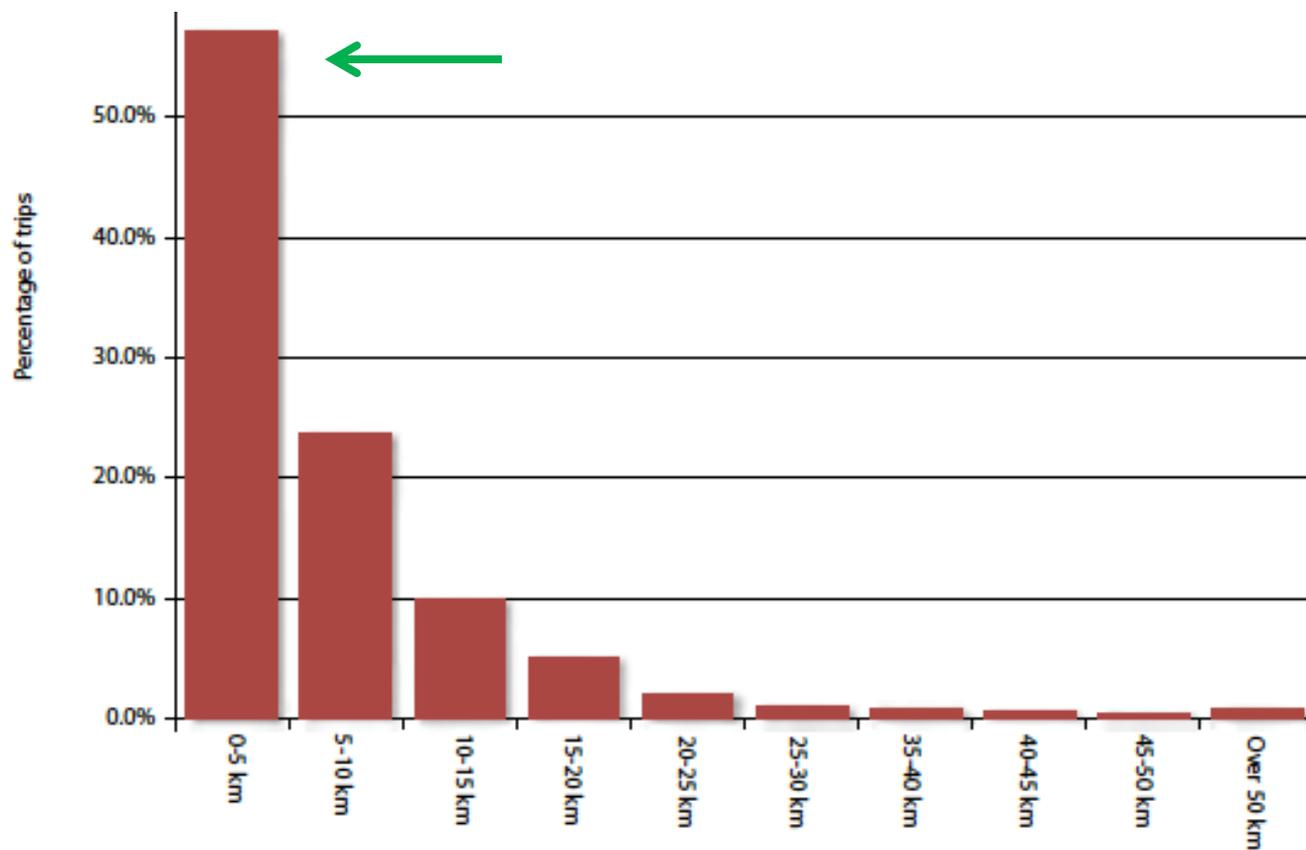


 Increases in  
 daily walking  
 and cycling  
 trips

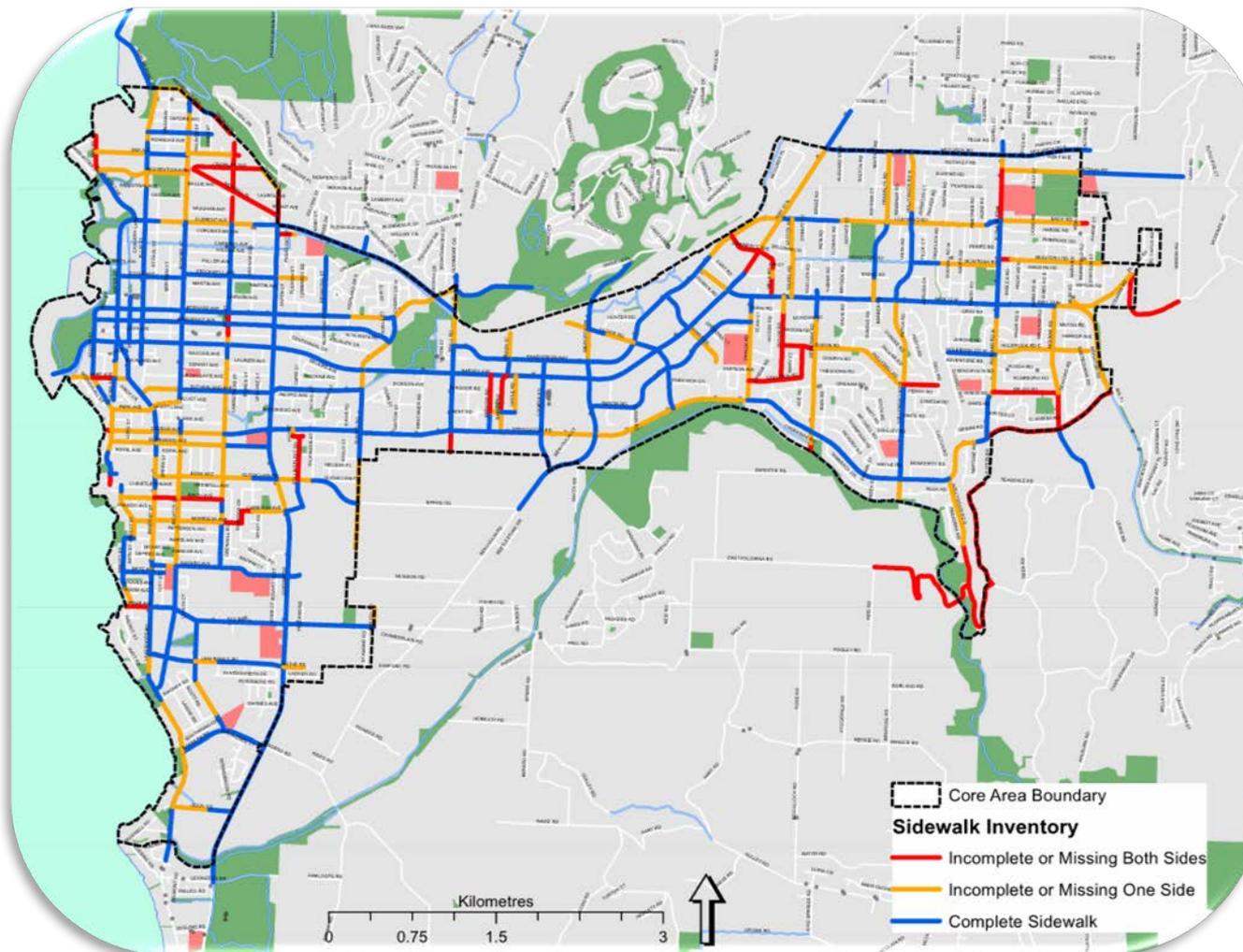
-  Other
-  Bike
-  Walk
-  School Bus
-  Transit Bus
-  Auto Passenger
-  Auto Driver

2007 and 2013 Regional Household Travel Survey

# POTENTIAL FOR GROWTH IN WALKING AND CYCLING



# PEDESTRIAN NETWORK GAPS



# BICYCLE NETWORK GAPS

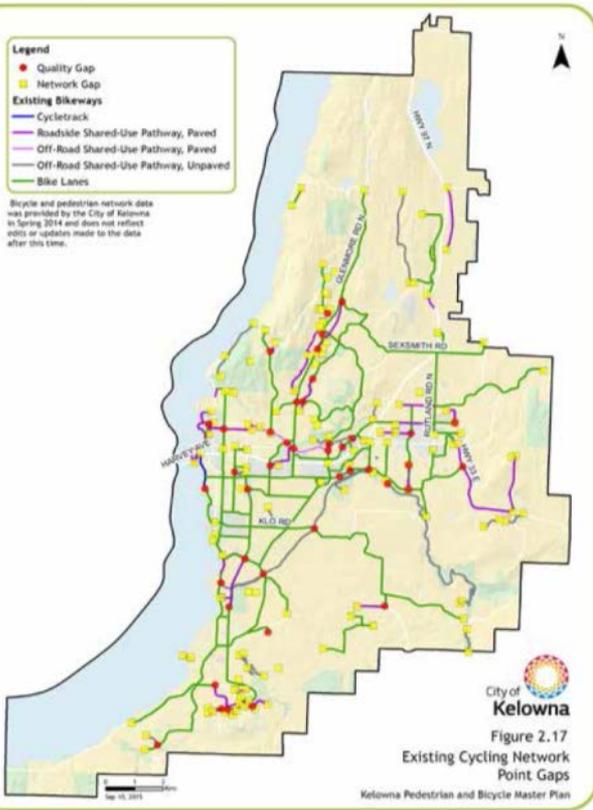
## SPOT GAPS

## AREA GAPS

## WEAK LINKS

- Legend**
- Quality Gap
  - Network Gap
- Existing Bikeways**
- Cycletrack
  - Roadside Shared-Use Pathway, Paved
  - Off-Road Shared-Use Pathway, Paved
  - Off-Road Shared-Use Pathway, Unpaved
  - Bike Lanes

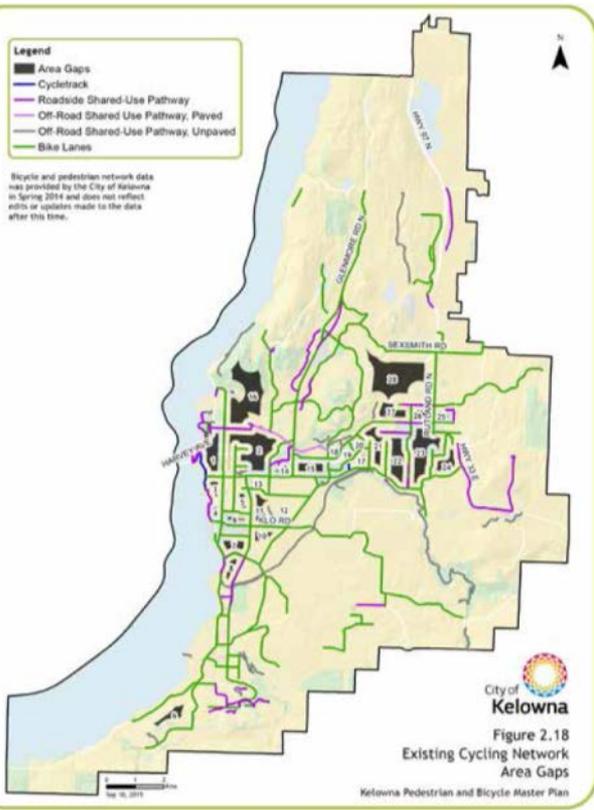
Bicycle and pedestrian network data was provided by the City of Kelowna in Spring 2014 and does not reflect edits or updates made to the data after this time.



City of Kelowna  
 Figure 2.17  
 Existing Cycling Point Gaps  
 Kelowna Pedestrian and Bicycle Master Plan

- Legend**
- Area Gaps
  - Cycletrack
  - Roadside Shared-Use Pathway
  - Off-Road Shared-Use Pathway, Paved
  - Off-Road Shared-Use Pathway, Unpaved
  - Bike Lanes

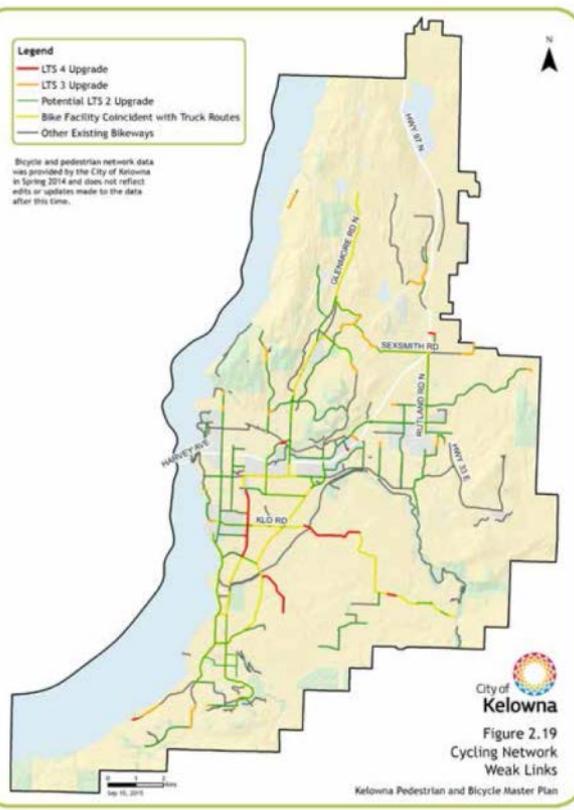
Bicycle and pedestrian network data was provided by the City of Kelowna in Spring 2014 and does not reflect edits or updates made to the data after this time.



City of Kelowna  
 Figure 2.18  
 Existing Cycling Area Gaps  
 Kelowna Pedestrian and Bicycle Master Plan

- Legend**
- LTS 4 Upgrade
  - LTS 3 Upgrade
  - Potential LTS 2 Upgrade
  - Bike Facility Coincident with Truck Routes
  - Other Existing Bikeways

Bicycle and pedestrian network data was provided by the City of Kelowna in Spring 2014 and does not reflect edits or updates made to the data after this time.

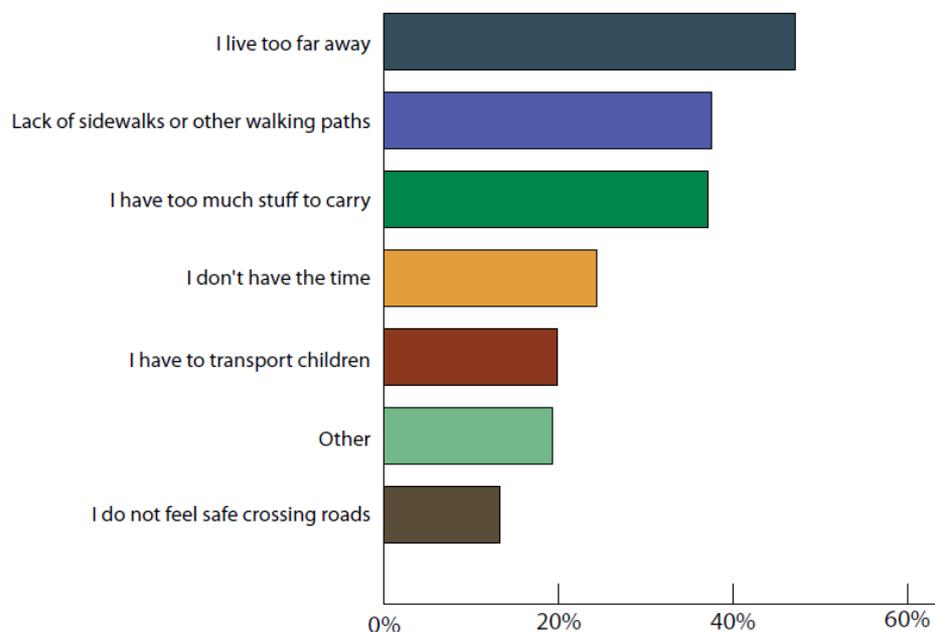


City of Kelowna  
 Figure 2.19  
 Cycling Network Weak Links  
 Kelowna Pedestrian and Bicycle Master Plan

# PUBLIC FEEDBACK ON KEY BARRIERS

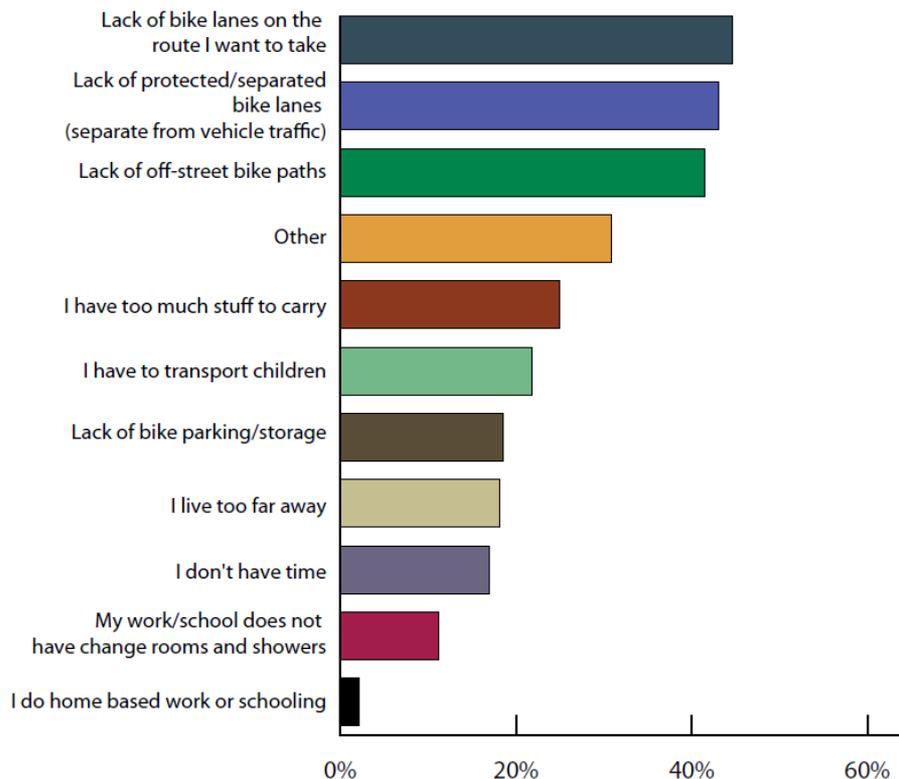
## WALKING

What are the reasons you DO NOT choose to walk more often when heading to work/school/errands, etc? Check all that apply.



## CYCLING

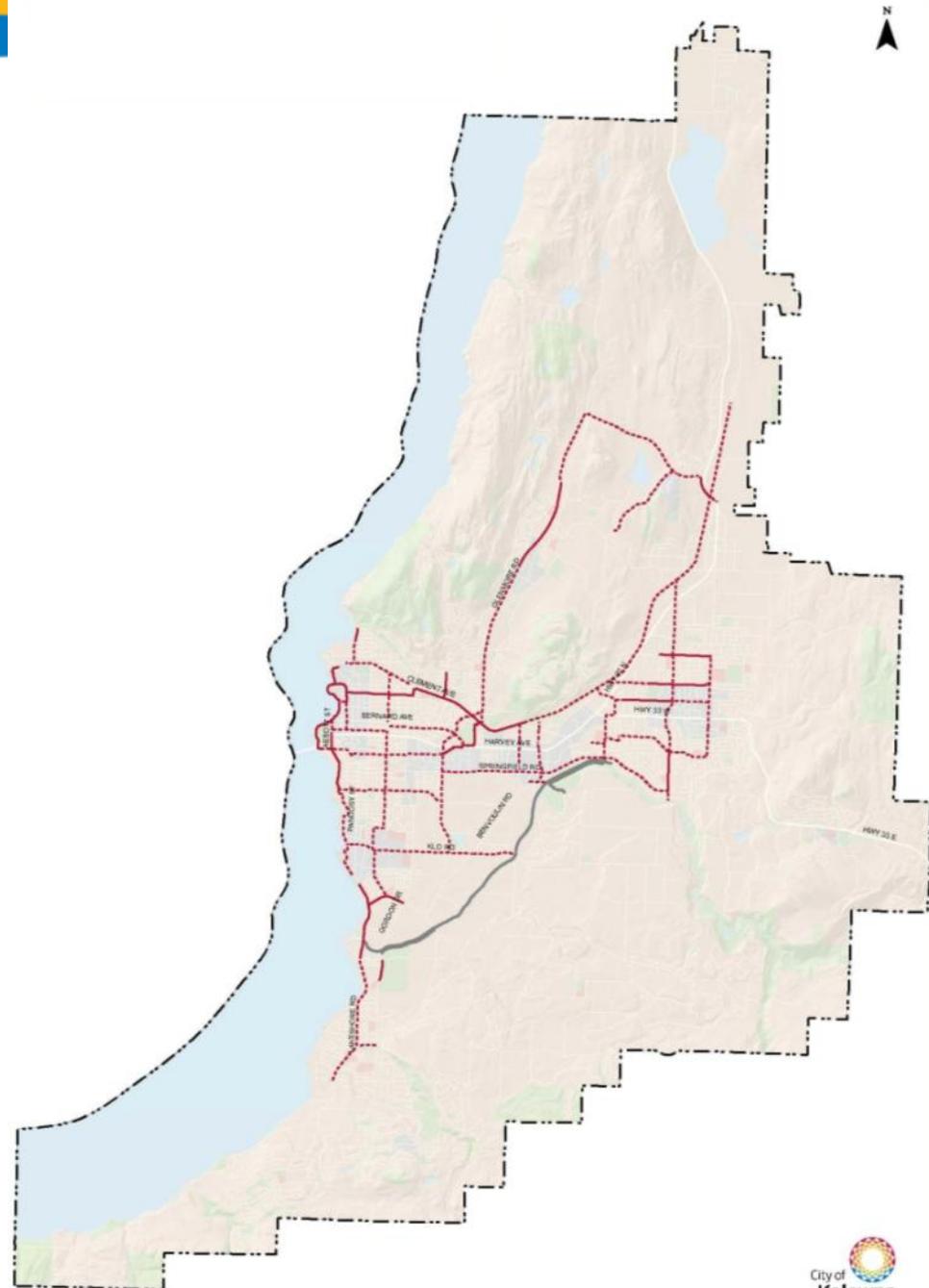
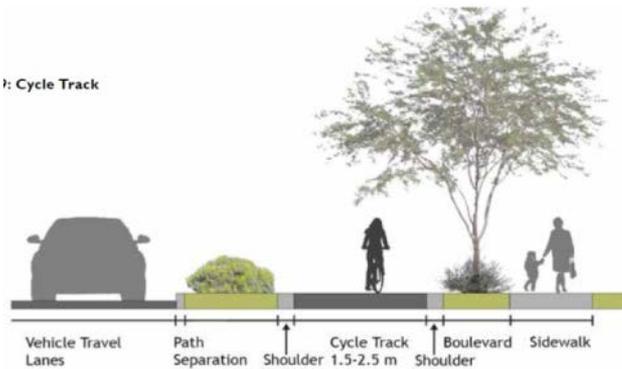
What are the reasons you DO NOT choose to cycle more often when heading to work/school/errands, etc? Check all that apply.



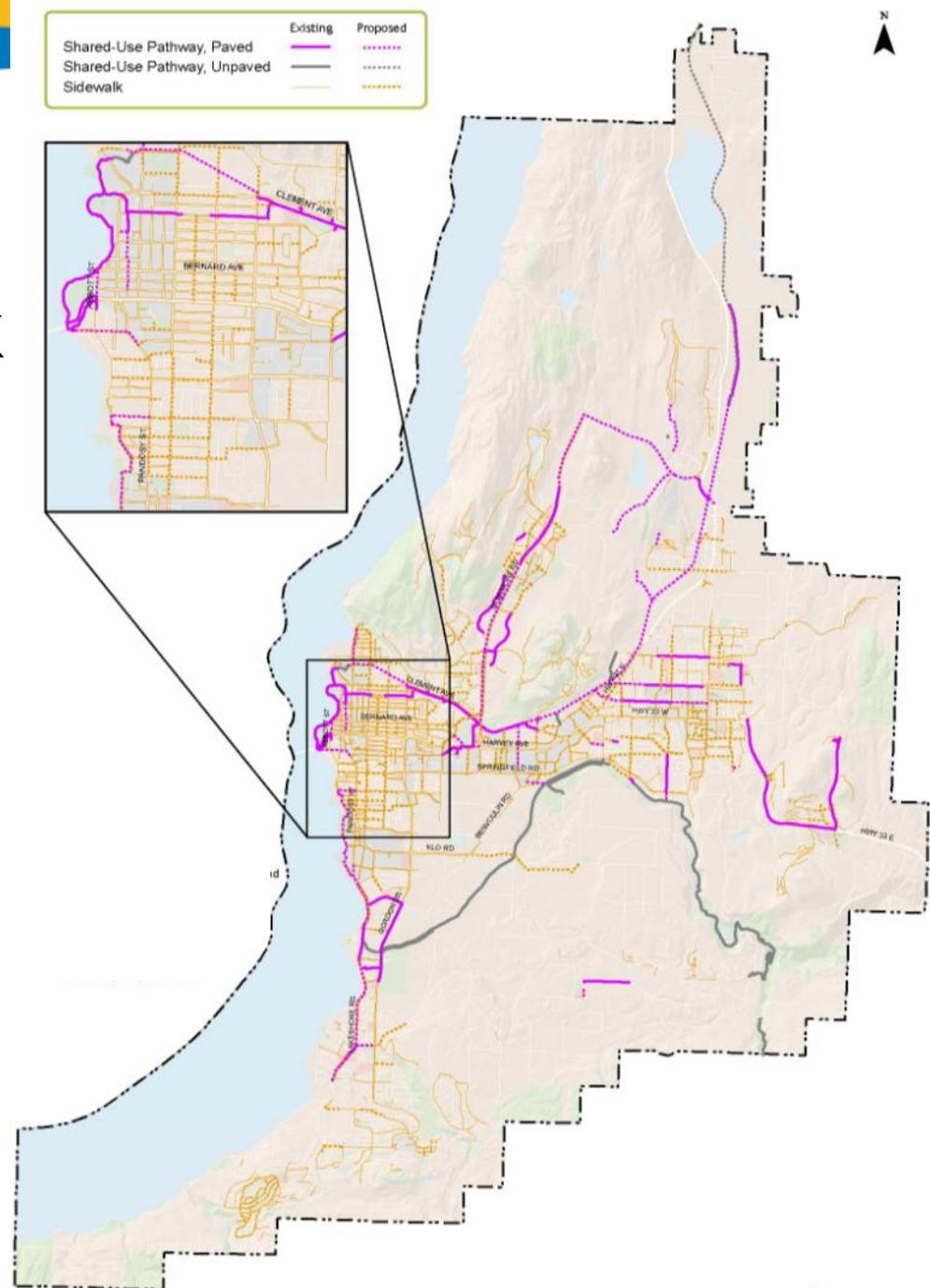
# PROPOSED PRIMARY NETWORK



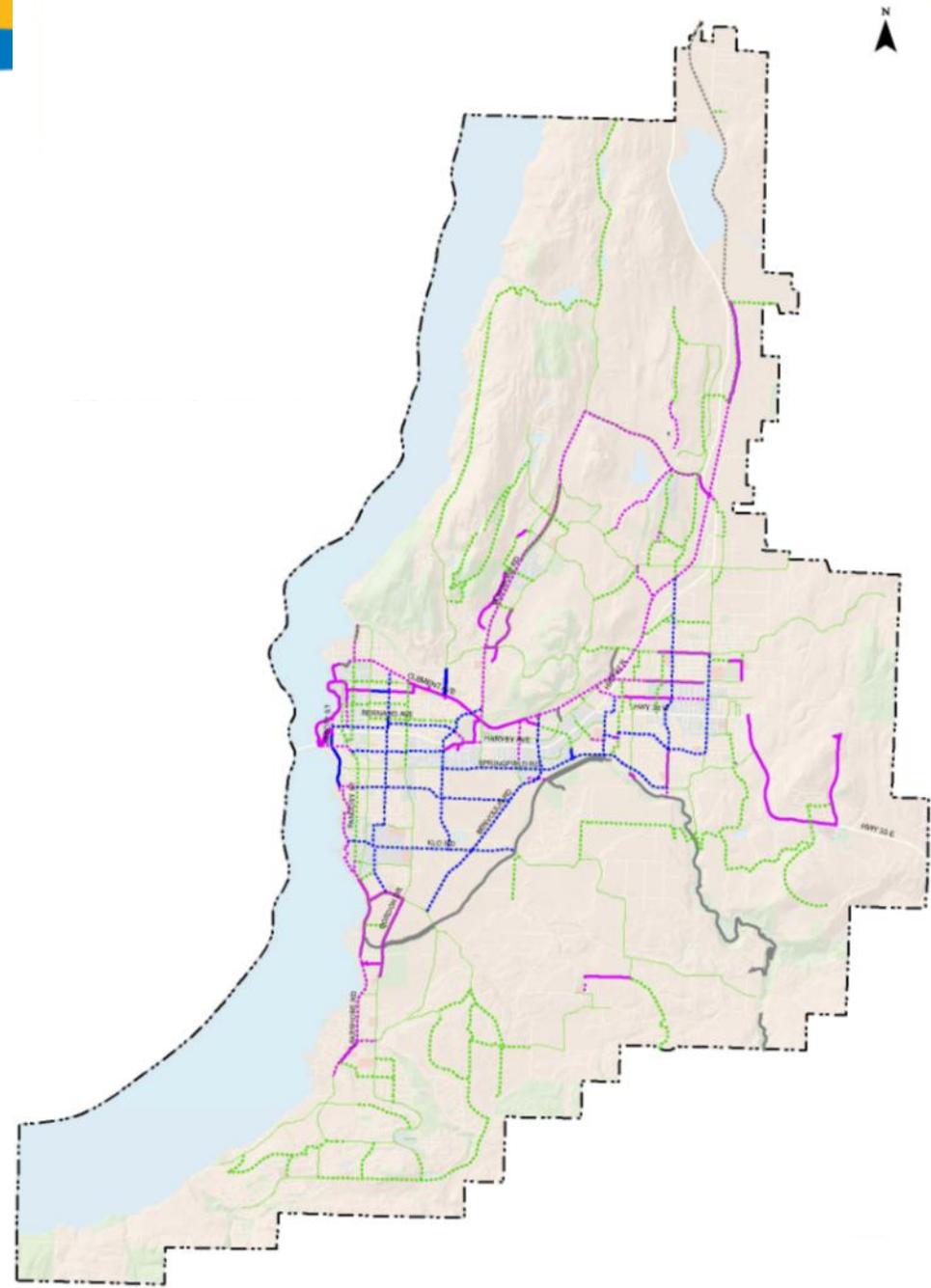
Figure 1: Cycle Track



# PEDESTRIAN NETWORK



# BICYCLE NETWORK



# PRIORITY PEDESTRIAN AND BICYCLE PROJECTS

Infrastructure Type	Existing (km)	Proposed Priority (km)*
Sidewalks	399.8	87.4
Cycle Tracks	4.2	40.6
Shared-Use Pathway	40.2	44.5
Bike Lanes	297	210

# 2030 INFRASTRUCTURE PLAN PROPOSED INVESTMENTS

Facility Types	2016	2017	2018	2019	2020
Sidewalks	\$417,620	\$500,000	\$500,000	\$500,000	\$500,000
Bike Lanes	\$340,000	\$300,000	\$300,000	\$300,000	\$300,000
Primary Active Transportation Corridors (DCC)	\$3,230,000	\$4,928,400	\$8,307,799	\$8,407,601	\$3,400,000
Total	\$3,987,620	\$5,728,400	\$9,107,799	\$9,207,601	\$4,200,000

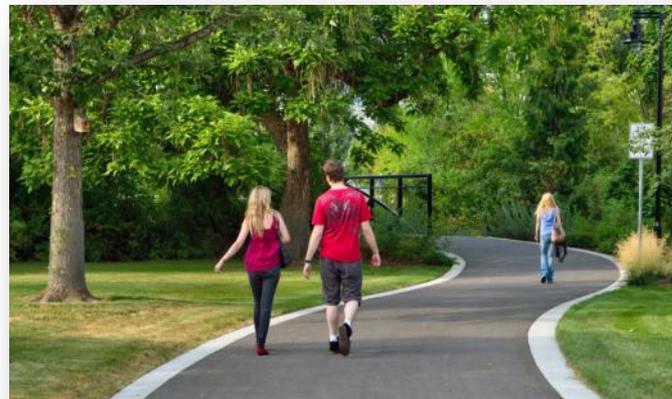
## ▶ Funding Required vs. Available

- ▶ Required for Priority Projects: \$267 million
- ▶ Proposed 2030 Infrastructure Plan: \$90 million

# PRIORITIZATION CRITERIA

## ▶ Utility Factors

- ▶ Geographic location, land use
- ▶ Gap Closure
- ▶ Primary Network
- ▶ Connects Schools/ Transit



## ▶ Implementation Factors

- ▶ Project Readiness
- ▶ Cost/ Site Constraints
- ▶ Development Opportunity

# PROJECT PRIORITY RANKING

Priority Sidewalk Projects

S. No.	Road	From	To	Project Length, m	Priority
1	Banks Rd	Hwy 97	Baron Rd	168	High
2	Bernard Ave	Burtch Rd	Spall Rd	1,267	High
3	Bernard Ave	Lakeview St	Noble Ct	671	High
4	Cadder Ave	Richter St	Ethel St	401	High
5	Casorso Rd	Swordy Rd	Bechard Rd	362	High
6	Dilworth Dr	Leckie Pl	Enterprise Way	600	High
7	Dilworth Dr	N of Leckie Pl	Rails With Trails	44	High
8	Gordon Dr	Trench Pl	Clement Ave	322	High
9	Graham Rd	Stirling Rd	Springfield Rd	1,152	High
10	Guisachan Rd	Ethel St	Charolais Rd	546	High
11	High Rd	Lowland St	Kennedy St	211	High
12	High Rd	Tronson Ct	Glengarry St	168	High
13	Hollywood Rd S	S of Hwy 33	Hollydell Rd	573	High
14	Leckie Rd	Hunter Rd	Enterprise Way	284	High
15	Pandoso St	Birch Ave	Lane N of McKay Ave	1,524	High
16	Richter St	Elliot Ave	Raymer Ave	1,634	High
17	Richter St	Recreation Ave	Clement Ave	441	High
18	Rose Ave	Pandoso St	Ethel St	1,222	High
19	Rowcliffe Ave	Richter St	Marshall St	289	High
20	Rutland Rd S	Gray Rd	Venus Rd	1,498	High
21	Snowsell St	Union Rd	Crosby Rd	629	High
22	Spall Rd	Bernard Ave	N of Enterprise Way	504	High
23	Springfield Rd	Benvoulin Rd	Benvoulin Ct	188	High
24	Venus Rd	Rutland Rd S	Dougall Rd S	570	High
25	Agassiz Rd	Ambrosi Rd	Barlee Rd	102	Medium
26	Ambrosi Rd	Harvey Ave	Ambrosi Rd	180	Medium
27	Bach Rd	Rutland Rd N	E of Hemlock Rd	849	Medium
28	Banks Rd	Baron Rd	Terminus of Banks Rd	477	Medium
29	Belgo Rd	Rutland Rd S	Springfield Rd	921	Medium
30	Benvoulin Ct	Springfield Rd	S of Springfield Rd	67	Medium
31	Benvoulin Rd	Springfield Rd	Mayer Rd	307	Medium
32	Birch Ave	Abbott St	Ethel St	1,813	Medium
33	Burtch Rd	Harvey Ave	Sutherland Ave	349	Medium
34	Burtch Rd	Harvey Ave	Lawrence Ave	739	Medium
35	Cadder Ave	Abbott St	Pandoso St	392	Medium
36	Cameron Ave	Rhondda Cr	Gordon Dr	791	Medium
37	Cary Rd	Enterprise Way	Hwy 97 N	651	Medium
38	Cedar Ave	Abbott St	Pandoso St	180	Medium
39	Clifton Rd	Cara glen Way	Rio Dr	805	Medium
40	Clement Ave	St Paul St	Graham St	863	Medium
41	Commerce Ave	Enterprise Way	Hwy 97 N	299	Medium
42	Dehart Rd	Gordon Dr	Lakeshore Rd	756	Medium
43	Ellis St	Broadway Ave	Industrial Ave	1,321	Medium
44	Enterprise Ct	Spall Rd	Enterprise Way	193	Medium
45	Ethel St	Saucier Ave	Morrison Ave	1,898	Medium
46	Franklyn Rd	McCurdy Rd	Leathhead Rd	643	Medium

Priority Bike Lane Projects

S. No.	Project Name	From	To	Length, m	Ranking
1	Bernard Ave	Richmond St	Burtch Rd	592	High (1)
2	Glenmore Rd	Rails with Trails	High Rd/Summit Dr	1,631	High (2)
3	Ellis St	Broadway Ave	Buckland Ave	2,514	High (3)
4	Doyle Ave/Stockwell Ave	Water St	Gordon Dr	1,442	High (4)
5	Bernard Ave	Richter St	Richmond St	1,271	High (5)
6	Lanfranco Rd	Richter St	Lakeshore Rd	158	High (6)
7	Glenmore Rd	Scenic Rd	Dallas Rd	1,974	High (7)
8	Union Rd	Millard Pl	Valley Rd	813	High (8)
9	Clement Ave	Graham St	Ellis St	985	High (9)
10	Curtis Rd	Planned Pathway at Curtis Rd	Sexsmith Rd	253	High (10)
11	Academy Way	John Hindle Dr	Clydesdale Rd	1,244	Medium (1)
12	Banks Rd	Driveway NW of Hwy 97 N	Terminus of Banks Rd	503	Medium (2)
13	Cooper Rd	Orchard Park Mall Entrance	Springfield Rd	193	Medium (3)
14	Gerstmar Rd	Springfield Rd	Creekside Rd	103	Medium (4)
15	Pandoso St/Buckland Ave	Lake Ave	Ellis St	258	Medium (5)
16	Raymer Rd	Gordon Dr	Vamey Ct	1,195	Medium (6)
17	Swordy Rd	Lakeshore Rd	Casorso Rd	358	Medium (7)
18	Glenmore Rd N	McKinley Rd	City Limit	4,328	Medium (8)
19	Pandoso St	Sutherland Ave	KLO Rd	1,982	Medium (9)
20	Pandoso St/Water St	Queensway	Buckland Ave	630	Medium (10)
21	Acland Rd/Hererod Rd/Bulman Rd	300 m north of Hererod Rd	Edwards Rd	919	Low
22	Airport Way	Hollywood Rd N	Rails with Trails	597	Low
23	Arab Rd	Clydesdale Rd	Sexsmith Rd	894	Low
24	Ballou Rd/Kane Rd	Yates Rd	Valley Rd	640	Low
25	Bedford Rd	Stewart Rd E	Saucier Rd	1,453	Low
26	Belgo Rd/Garner Rd/Kloppenbug Rd	Teasdale Rd	Loeseth Rd	3,047	Low
27	Belgo Rd/Molnar Rd/Belgo Rd/Holbrook Rd E	Mallach Rd	Teasdale Rd	2,818	Low
28	Biggar Rd	Moubray Rd	Snowsell St	99	Low
29	Cambro Rd	Sexsmith Rd	Rails with Trails	265	Low
30	Clifton Rd N	McKinley Rd	Magic Dr	4,994	Low
31	Clydesdale Rd	Proposed Pathway	Hollywood Rd N	698	Low
32	Cook Rd	Gordon Dr	Lakeshore Rd	536	Low
33	Country Club Dr	Quail Ridge Blvd	Terminus of Country Club Dr	1,445	Low
34	Craig Rd	McCurdy Rd E	Hartman Rd	191	Low
35	Crawford Rd	Stewart Rd W	Parkridge Dr	239	Low
36	Crawford Rd	Parkridge Dr	South of DeHart Rd	1,597	Low
37	Dease Rd	McCurdy Rd	Leathhead Rd	739	Low
38	DeHart Rd	Crawford Rd	Casorso Rd	883	Low
39	E Kelowna Rd	KLO Rd	Dunster Rd	1,023	Low
40	E Kelowna Rd	Dunster Rd	Mission Creek Greenway	2,824	Low
41	E Kelowna Rd/Hollywood Rd S/Teasdale Rd	Mission Creek Greenway	Belgo Rd	1,287	Low
42	Fenwick Rd/Finns Rd	Rails with Trails	Findlay Rd	859	Low
43	Fitzpatrick Rd	Finns Rd	Rutland Rd N	1,043	Low

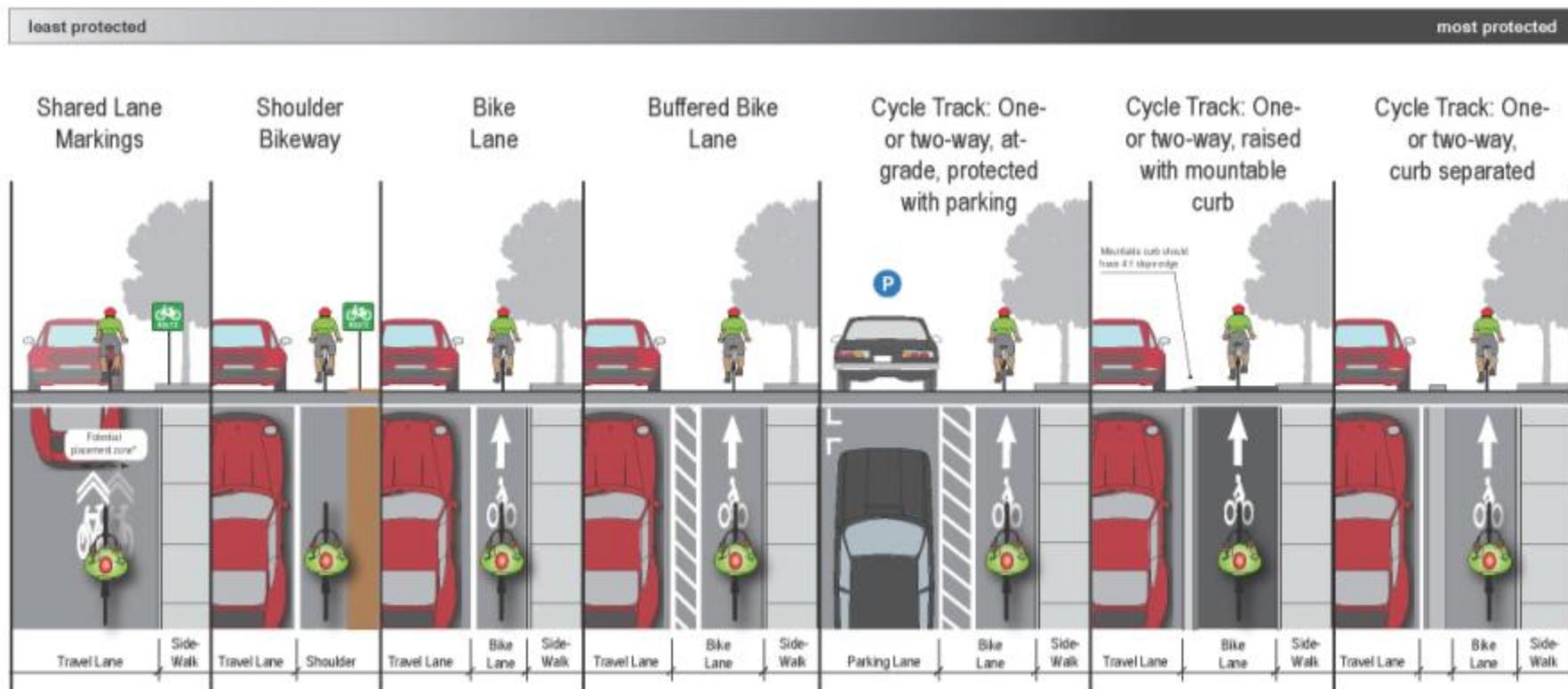
## SUGGESTED BYLAW UPDATES

- ▶ Zoning Bylaw
- ▶ Payment In Lieu of Parking
- ▶ Building Bylaw
- ▶ Official Community Plan
- ▶ Traffic Bylaw
- ▶ Subdivision, Development and Servicing Bylaw



# FACILITY DESIGN

Facilities that are appropriate for the circumstances...



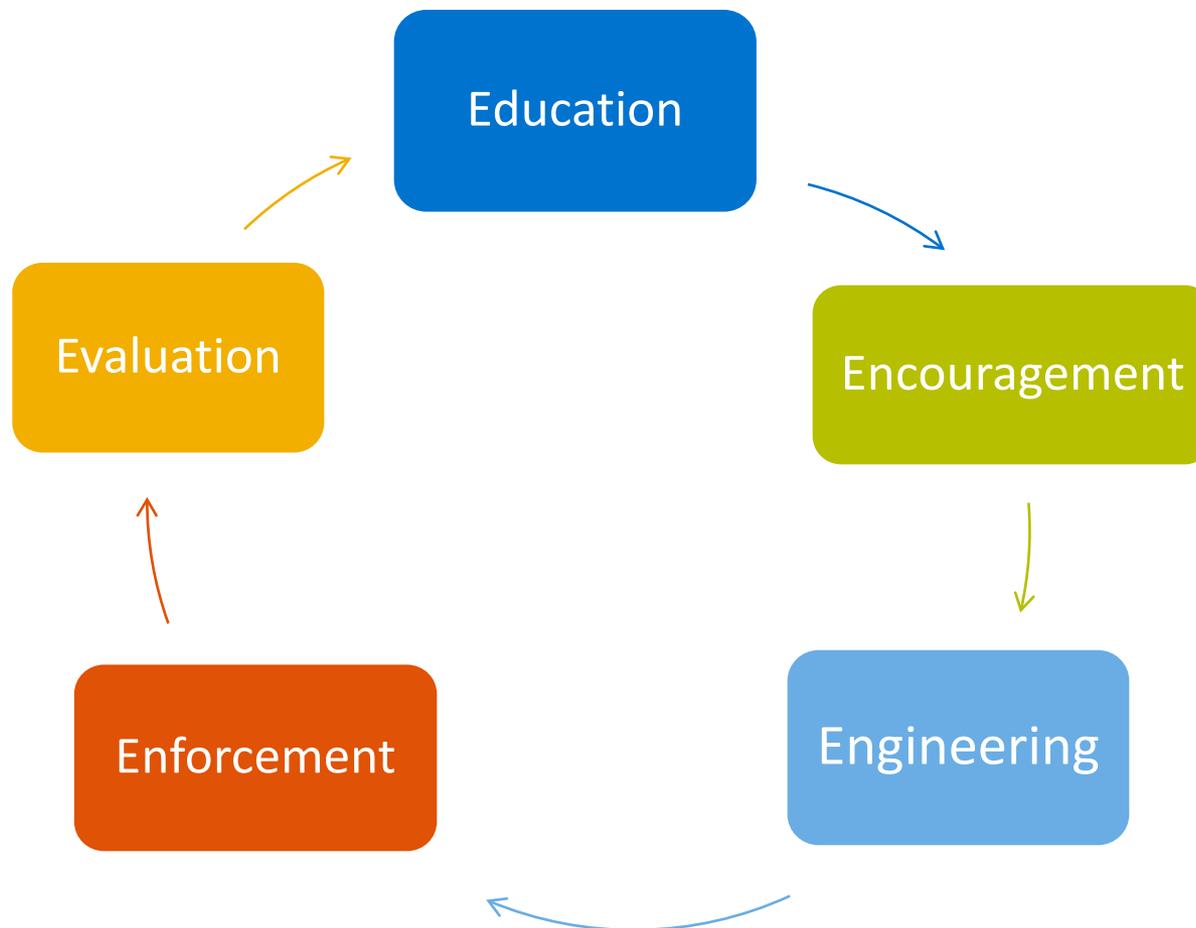
# FACILITY MAINTENANCE

Maintenance of  
sidewalks and  
bicycle  
facilities

All seasons  
approach to  
maintenance  
for Primary  
Network

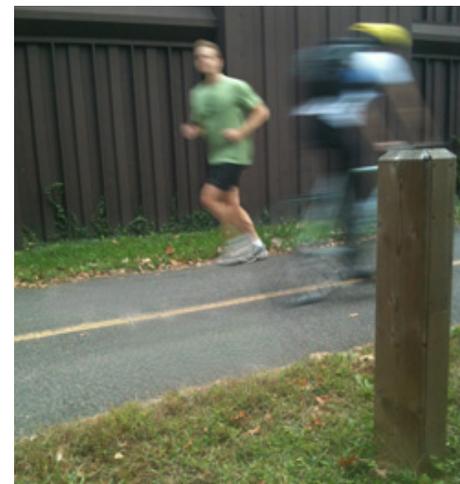


# PROGRAMS FOCUS ON 5E'S



# MONITORING & EVALUATION

## Permanent Pedestrian & Bicycle Count Systems



## NEXT STEPS

- ▶ Public Engagement (Jan-Feb)
- ▶ Finalize Plan (February)
- ▶ Master Plan Council Adoption (March 2016)





City of  
**Kelowna**

**QUESTIONS?**

