



Mobility  
Implementation  
Plan

City of Bellevue, WA  
Adopted April 18, 2022  
Resolution No. 10085

# Bellevue MIP: Performance Target Gaps, Project Concepts and Prioritization to Inform the TFP Update

FEHR & PEERS



Transportation

Chris Breiland  
Taylor Whitaker

Kevin McDonald

April 11, 2024

# Agenda

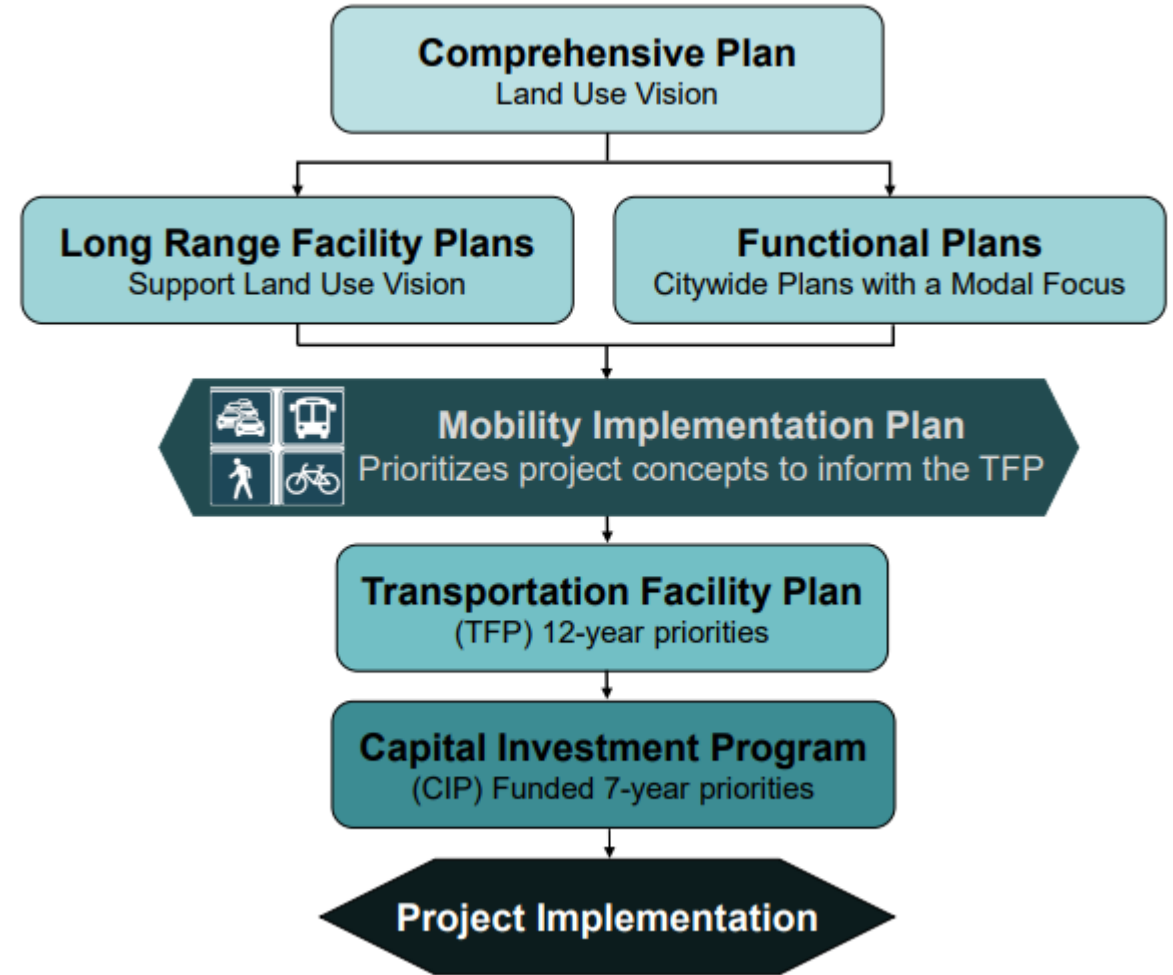
1. Review Mobility Implementation Plan
2. Four-Step Process to Prioritize Projects
3. Introduce Implementation Guide Scoring
4. Example Prioritization Application on V/C Performance for System Intersections
5. Next Steps



# Mobility Implementation Plan

- Identify and prioritize project concepts to address existing Performance Target gaps
- Inform each update of the Transportation Facilities Plan
- TFP Update starts with Transportation Commission September 2024.

Transportation Planning Process





# Mobility Implementation Plan

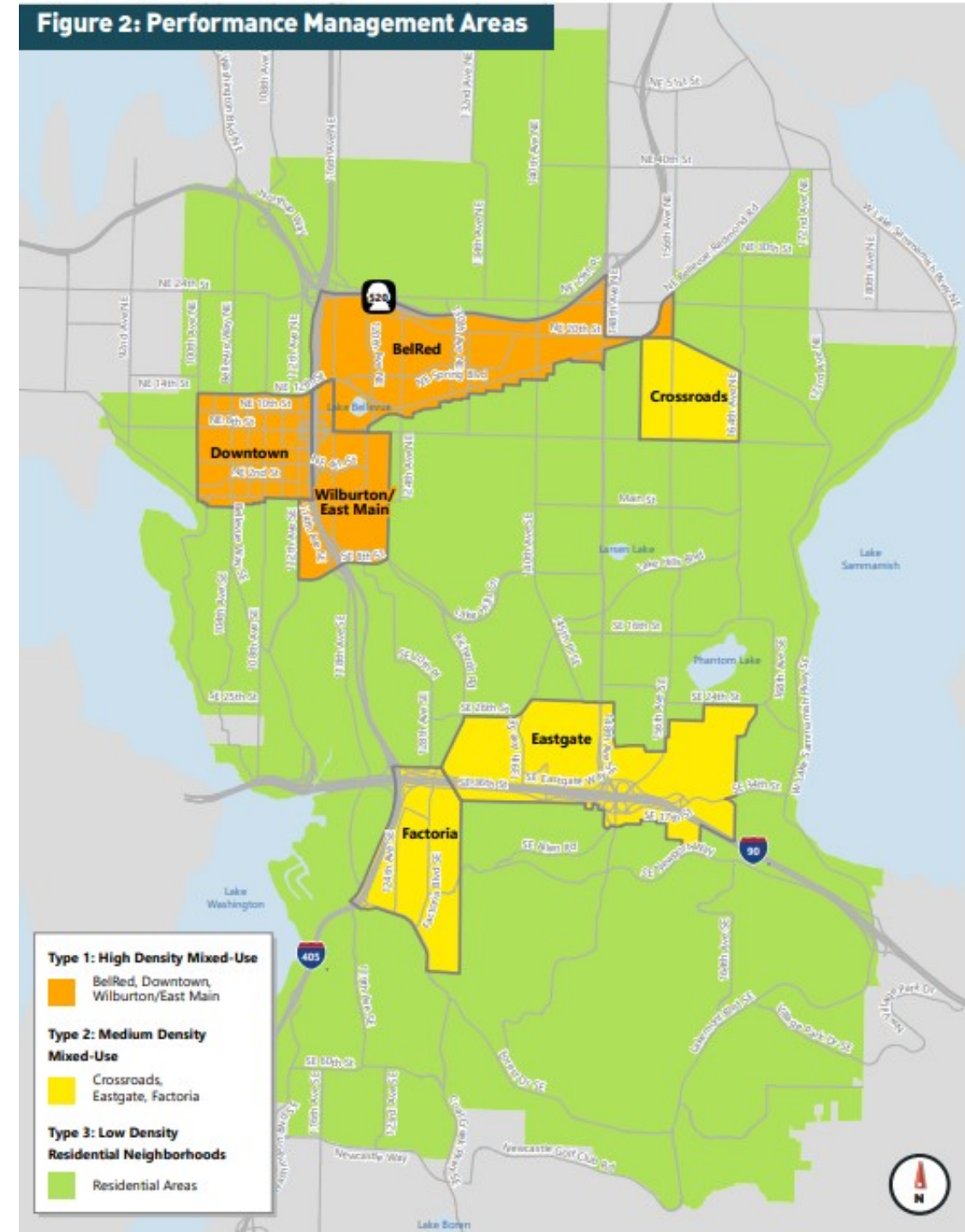
## MIP Defines:

- Performance Metrics
- Performance Targets
- Performance Management Areas

## MIP Developed:

Four Step Process to Deliver Prioritized Project Concepts that address existing Performance Target Gaps to the Update of the Transportation Facilities Plan.

Figure 2: Performance Management Areas



# Mobility Implementation Plan

## Four-step Process

### STEP 1:

IDENTIFY PERFORMANCE  
TARGET GAPS

### STEP 2:

SCREEN PERFORMANCE  
TARGET GAPS

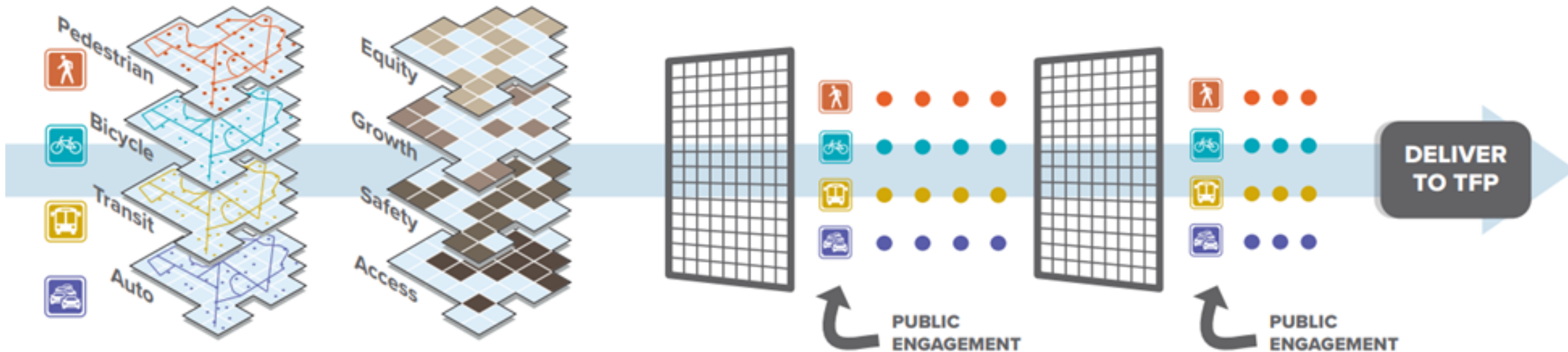
ALIGN WITH MIP GOALS

### STEP 3:

DEVELOP PROJECT  
CONCEPTS

### STEP 4:

PRIORITIZE PROJECT CONCEPTS  
TO INFORM THE TFP



# Step 1. Identify Performance Target Gaps

**Purpose:** Determine where the documented existing performance of the transportation network does not meet the adopted Performance Targets for each mode.

**Outcome:** Map and list of network performance gaps by mode (below).

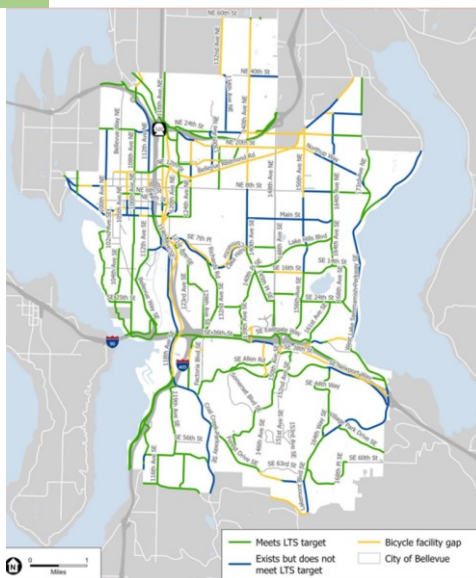
✓ Step 1 is already done in the Comprehensive Plan DEIS!



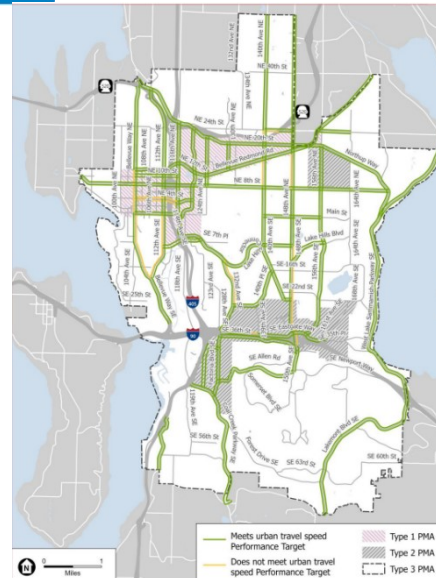
Pedestrian Network Gaps



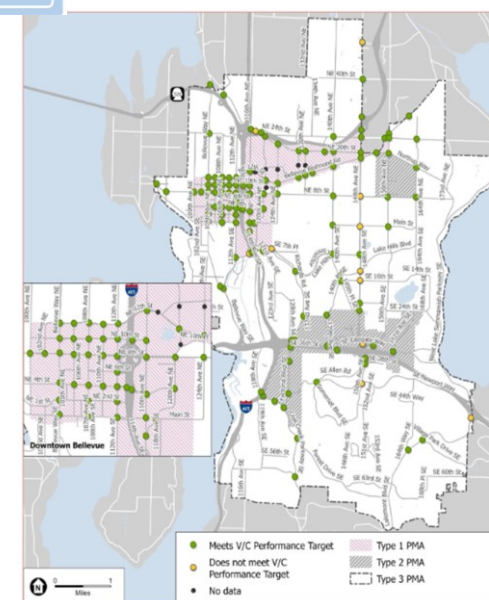
Bicycle Network Gaps



Vehicle Corridor Gaps



System Intersection Gaps





## Step 2. Screen Performance Target Gaps Relative to MIP Goals

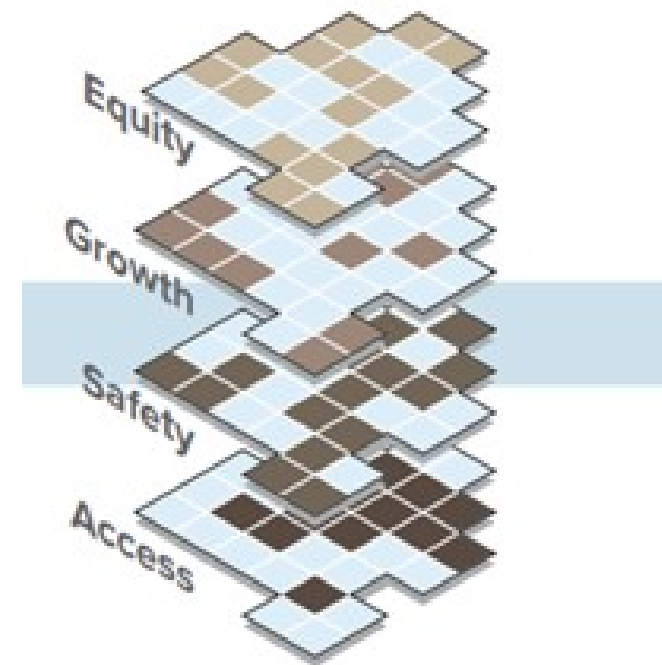
**Purpose:** Screen and score the existing Performance Target gaps for alignment with the four MIP goals. Determine whether to develop project concepts.

**Outcome:** Prioritized list of network performance target gaps for each mode.

- In this Step, we will not evaluate transit performance target gaps.

### STEP 2: SCREEN PERFORMANCE TARGET GAPS

ALIGN WITH MIP GOALS



# Step 2, Part 1

## Screen Performance Target Gaps

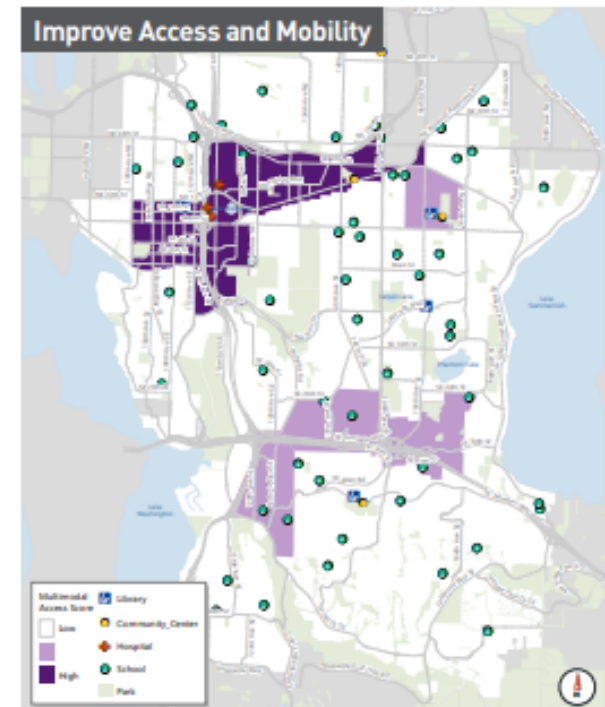
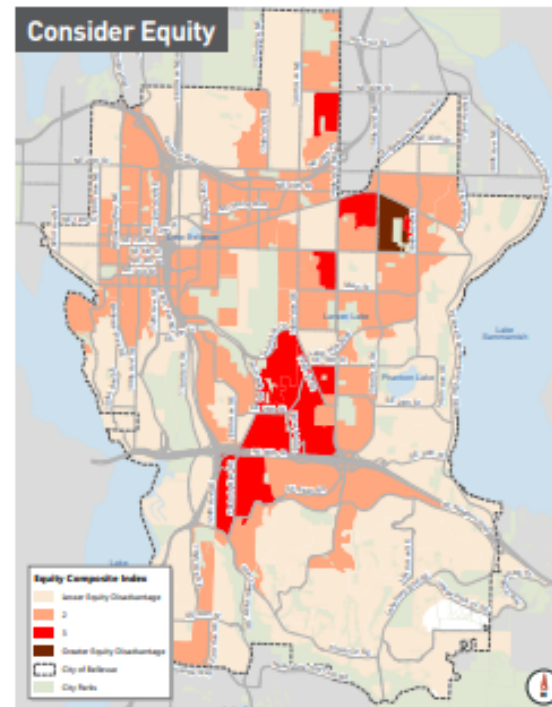
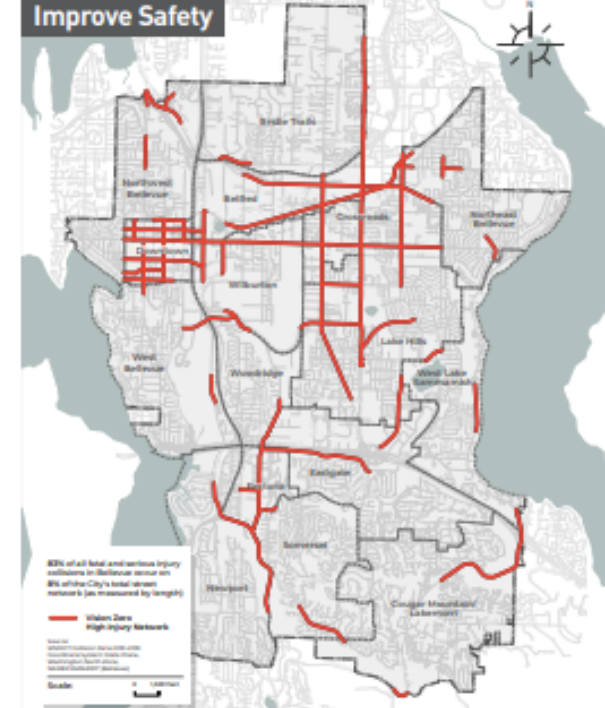
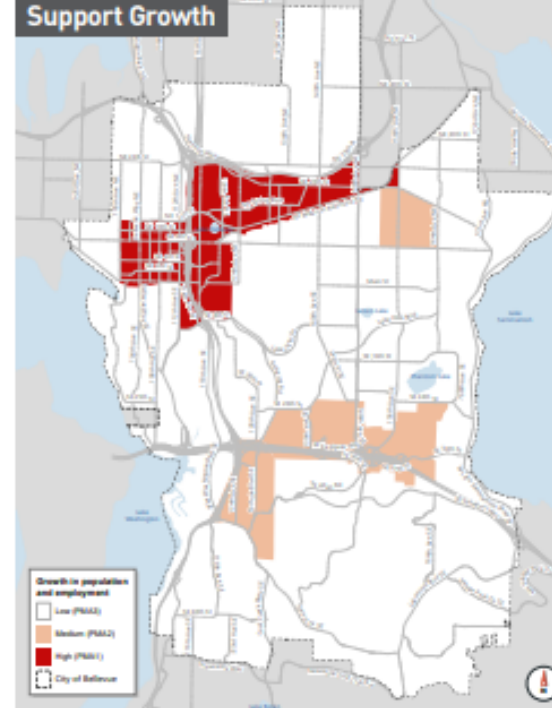
*Assess Network Performance Target Gaps against MIP Goals*

**Support Growth**

**Improve Safety**

**Consider Equity**

**Improve Access and Mobility**











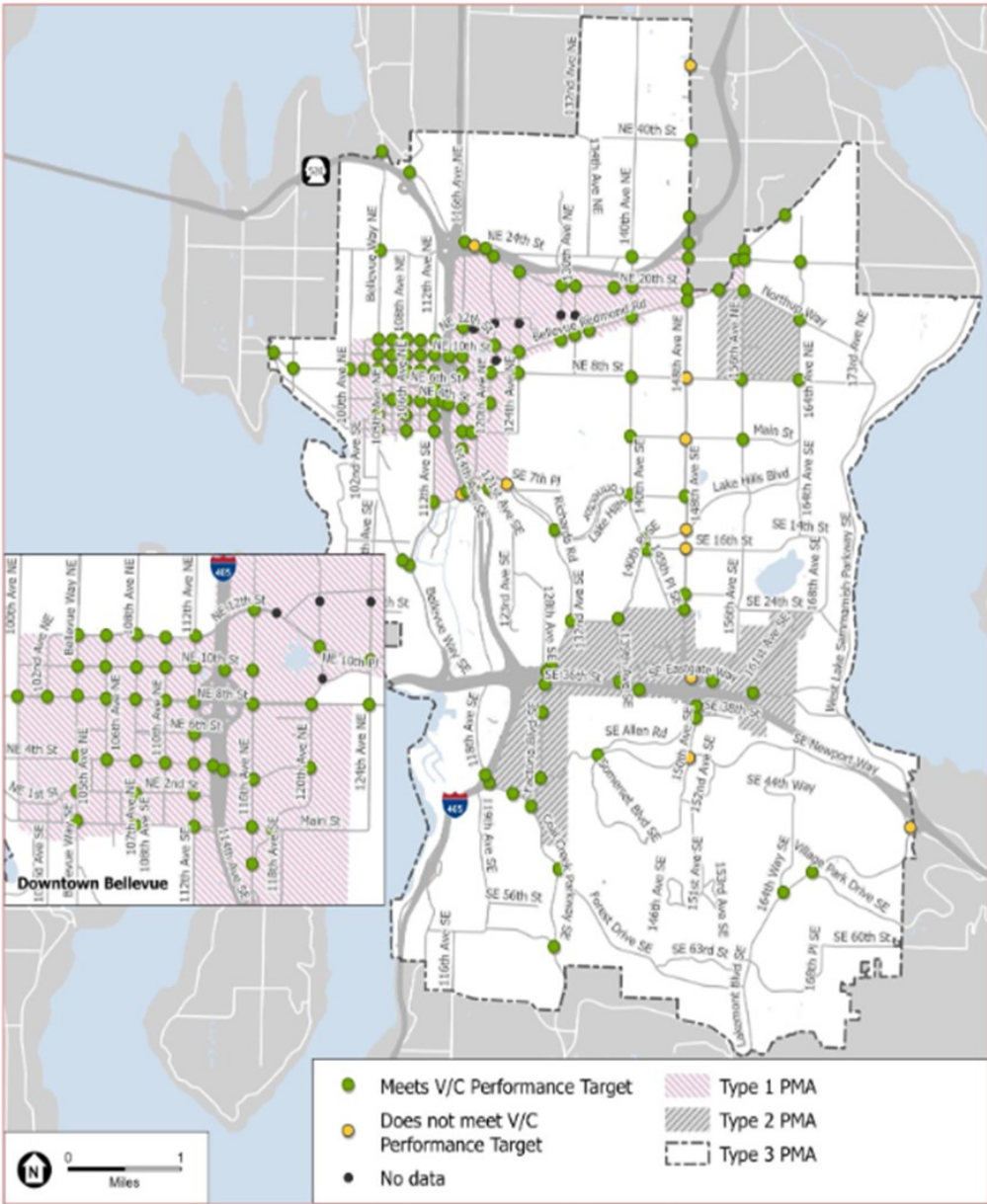
# Step 2, Part 2

## Screen Performance Target Gaps: Vehicle V/C at System Intersections



Table 4: Scoring MIP Goals for Vehicle Mode

MIP Goal Score: Vehicle Mode V/C Gaps and Corridor Travel Speed Gaps							
Growth Goal Score		Access/Mobility Goal Score		Equity Goal Score		Safety Goal Score	
PMA 1	1		-1		N/A	HIN	4
PMA 2	2		-2		N/A	Not-HIN	2
PMA 3	4	Vehicle mode Performance Target gaps in these areas are a lower a priority since Bellevue seeks to focus on expanding non-vehicle mode options in these areas.			N/A	Any vehicle mode Performance Target gap that, if addressed, will result in a wider road or higher speeds	0
				N/A			
Supplemental Score – Vehicle Mode							
V/C Performance Target Gap				Travel Speed Performance Target Gap			
< 10%		+ 1		< 10%		+ 1	
10%-20%		+ 2		10%-20%		+ 2	
20%-30%		+ 3		20%-30%		+ 3	
> 30%		+ 4		> 30%		+ 4	









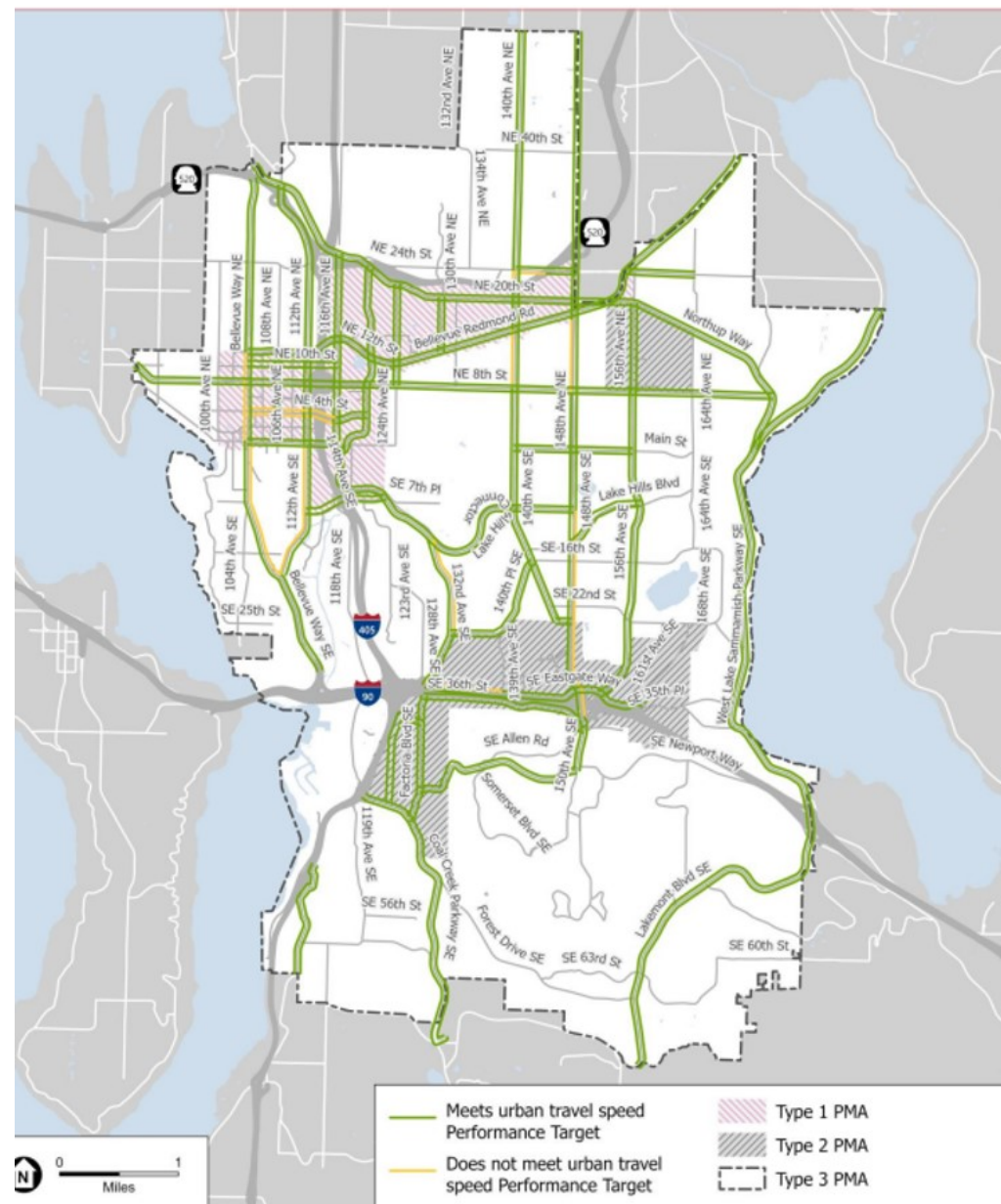
# Step 2, Part 2

## Screen Performance Target Gaps: Primary Vehicle Corridor Travel Speed



Table 4: Scoring MIP Goals for Vehicle Mode

MIP Goal Score: Vehicle Mode V/C Gaps and Corridor Travel Speed Gaps							
Growth Goal Score		Access/Mobility Goal Score		Equity Goal Score		Safety Goal Score	
PMA 1	1		-1		N/A	HIN	4
PMA 2	2		-2		N/A	Not-HIN	2
PMA 3	4	Vehicle mode Performance Target gaps in these areas are a lower a priority since Bellevue seeks to focus on expanding non-vehicle mode options in these areas.			N/A	Any vehicle mode Performance Target gap that, if addressed, will result in a wider road or higher speeds	0
					N/A		
Supplemental Score – Vehicle Mode							
V/C Performance Target Gap				Travel Speed Performance Target Gap			
< 10%		+ 1		< 10%		+ 1	
10%-20%		+ 2		10%-20%		+ 2	
20%-30%		+ 3		20%-30%		+ 3	
> 30%		+ 4		> 30%		+ 4	









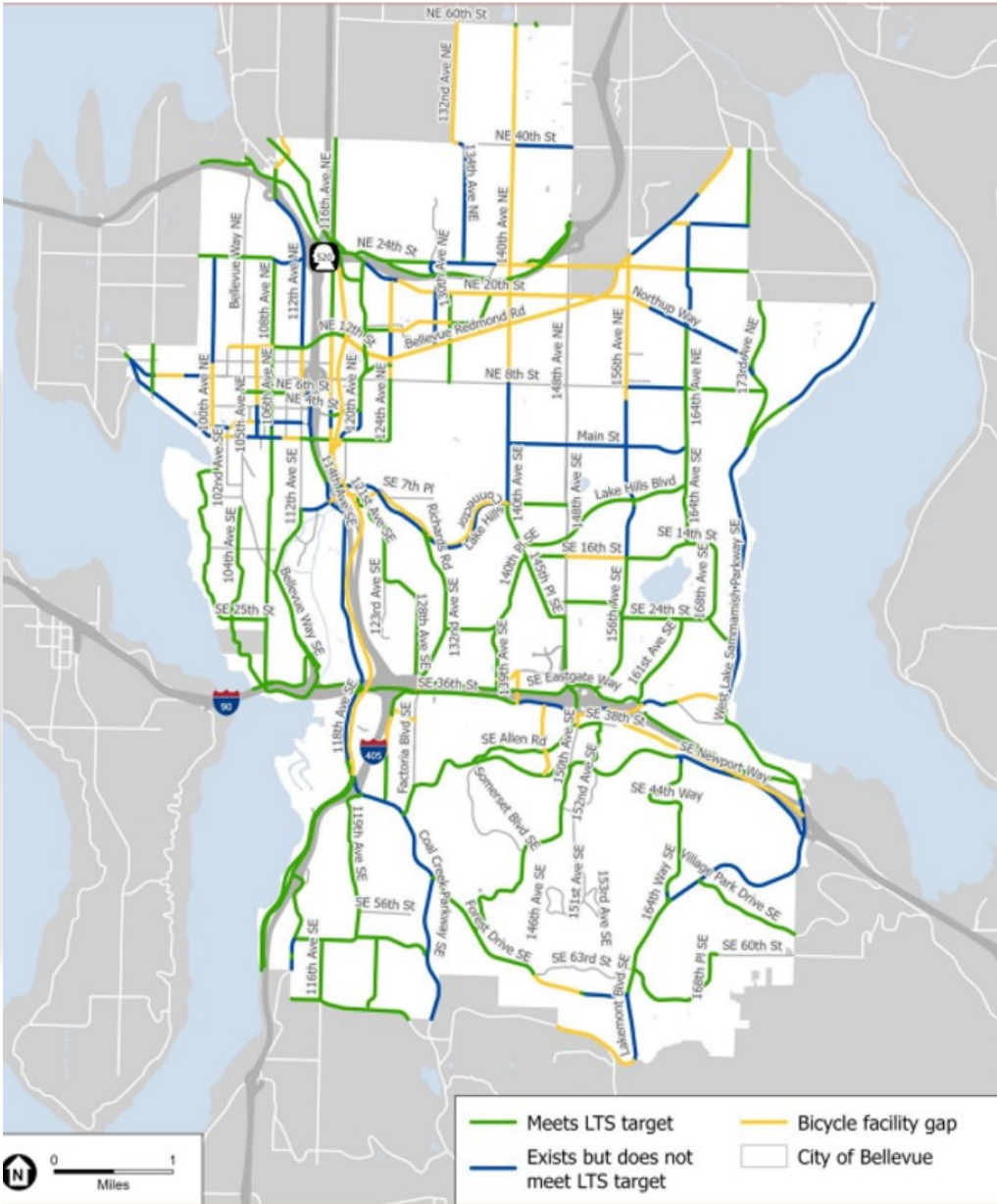
# Step 2, Part 2

Screen Performance Target Gaps:  
Bicycle Network LTS and Completeness



Table 3: Scoring MIP Goals for Bicycle Mode

MIP Goal Score: Bicycle Mode LTS Gaps on Bicycle Network							
Growth Goal Score		Access/Mobility Goal Score		Equity Goal Score		Safety Goal Score	
PMA 3	1		2		1	HIN	4
PMA 2	2		4		2	Not-HIN	2
PMA 1	4				3		
					4		
Supplemental Score – Bicycle Mode							
Physical Gap on a Bicycle Network Corridor		Network Corridor				+ 2	
		Priority Bicycle Corridor				+ 4	











# Step 2, Part 2

Screen Performance Target Gaps:  
Pedestrian Arterial Network Completeness



Table 2: Scoring for MIP Goals for Pedestrian Mode

MIP Goal Score: Pedestrian Mode Sidewalk Gaps and Crossing Spacing Gaps on Arterials					
Growth Goal Score		Access/Mobility Goal Score (see MIP Figure 30)		Equity Goal Score (see Appendix E)	
PMA 3	1		2		1
	2		4		2
PMA 1	4	For gaps in PMA 3: Proximity to pedestrian destinations on MIP Figure 30: school, park, library, community center, hospital, grocery store	+2		3
		For gaps in PMA 3: Proximity to FTN stop	+1		4
Supplemental Score – Pedestrian Mode					
Sidewalk missing both sides			+ 4		



# Step 3. Develop Project Concepts

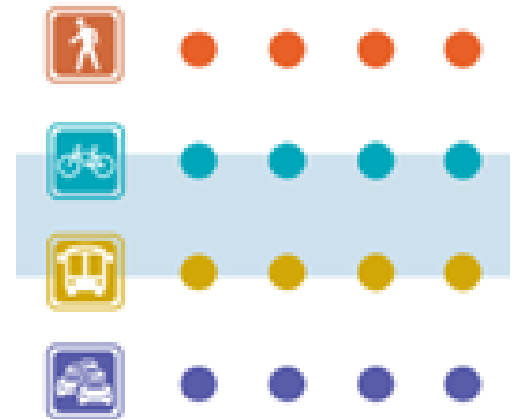
**Purpose:** *Develop project concepts to address existing Performance Target gaps.*

**Outcome:** *Vetted project concepts that address Performance Target gaps, achieve MIP goals, meet public needs, and are implementable.*

- It may be determined through this process that it is not feasible to implement a project concept that would address an existing Performance Target gap.

## STEP 3: DEVELOP PROJECT CONCEPTS

---

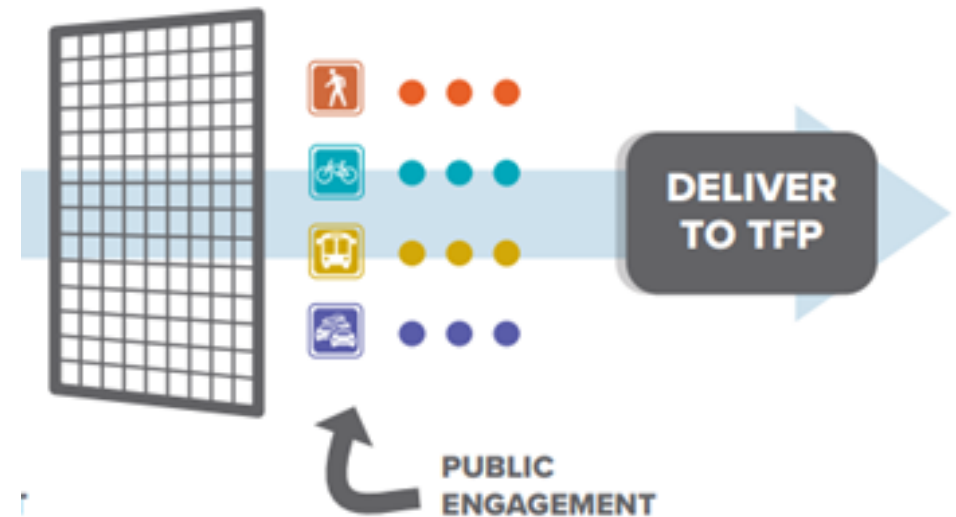


# Step 4. Screen Project Concepts for Delivery to the Transportation Facilities Plan (TFP)

**Purpose:** *Inform the TFP update by providing list of prioritized project concepts for each mode*

**Outcome:** *Prioritized list of project concepts for each mode.*

## STEP 4: PRIORITIZE PROJECT CONCEPTS TO INFORM THE TFP





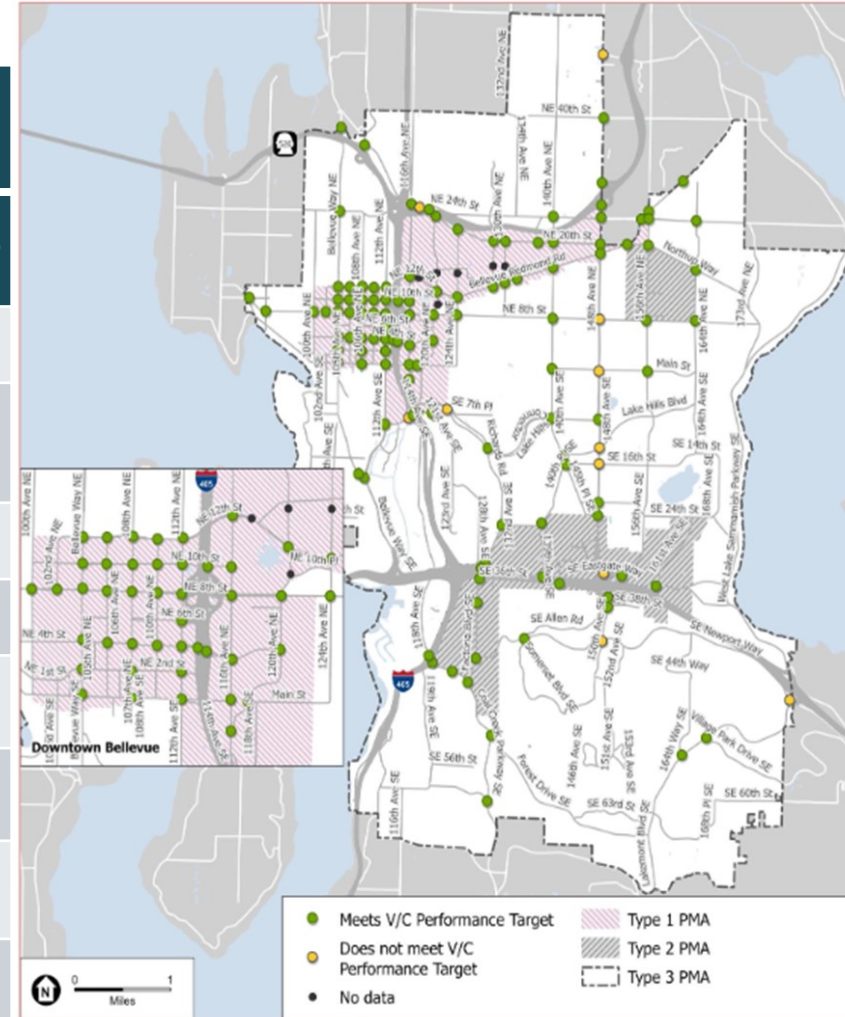
The map displays the city of Bellevue, Washington, with various streets and landmarks. A legend at the bottom indicates the following:

- Meets V/C Performance Target
- Does not meet V/C Performance Target
- No data
- Type 1 PMA
- Type 2 PMA
- Type 3 PMA

The map also includes a scale bar (0 to 1 mile) and a north arrow. The inset map for 'Downtown Bellevue' shows a detailed view of the central area, including streets like 100th Ave NE, 102nd Ave NE, 104th Ave NE, 106th Ave NE, 108th Ave NE, 110th Ave NE, 112th Ave NE, 114th Ave NE, 116th Ave NE, 118th Ave NE, 120th Ave NE, 122nd Ave NE, 124th Ave NE, 126th Ave NE, 128th Ave NE, 130th Ave NE, 132nd Ave NE, 134th Ave NE, 136th Ave NE, 138th Ave NE, 140th Ave NE, 142nd Ave NE, 144th Ave NE, 146th Ave NE, 148th Ave NE, 150th Ave NE, 152nd Ave NE, 154th Ave NE, 156th Ave NE, 158th Ave NE, 160th Ave NE, 162nd Ave NE, 164th Ave NE, 166th Ave NE, 168th Ave NE, 170th Ave NE, 172nd Ave NE, 174th Ave NE, 176th Ave NE, 178th Ave NE, 180th Ave NE, 182nd Ave NE, 184th Ave NE, 186th Ave NE, 188th Ave NE, 190th Ave NE, 192nd Ave NE, 194th Ave NE, 196th Ave NE, 198th Ave NE, 200th Ave NE, 202nd Ave NE, 204th Ave NE, 206th Ave NE, 208th Ave NE, 210th Ave NE, 212nd Ave NE, 214th Ave NE, 216th Ave NE, 218th Ave NE, 220th Ave NE, 222nd Ave NE, 224th Ave NE, 226th Ave NE, 228th Ave NE, 230th Ave NE, 232nd Ave NE, 234th Ave NE, 236th Ave NE, 238th Ave NE, 240th Ave NE, 242nd Ave NE, 244th Ave NE, 246th Ave NE, 248th Ave NE, 250th Ave NE, 252nd Ave NE, 254th Ave NE, 256th Ave NE, 258th Ave NE, 260th Ave NE, 262nd Ave NE, 264th Ave NE, 266th Ave NE, 268th Ave NE, 270th Ave NE, 272nd Ave NE, 274th Ave NE, 276th Ave NE, 278th Ave NE, 280th Ave NE, 282nd Ave NE, 284th Ave NE, 286th Ave NE, 288th Ave NE, 290th Ave NE, 292nd Ave NE, 294th Ave NE, 296th Ave NE, 298th Ave NE, 300th Ave NE, 302nd Ave NE, 304th Ave NE, 306th Ave NE, 308th Ave NE, 310th Ave NE, 312nd Ave NE, 314th Ave NE, 316th Ave NE, 318th Ave NE, 320th Ave NE, 322nd Ave NE, 324th Ave NE, 326th Ave NE, 328th Ave NE, 330th Ave NE, 332nd Ave NE, 334th Ave NE, 336th Ave NE, 338th Ave NE, 340th Ave NE, 342nd Ave NE, 344th Ave NE, 346th Ave NE, 348th Ave NE, 350th Ave NE, 352nd Ave NE, 354th Ave NE, 356th Ave NE, 358th Ave NE, 360th Ave NE, 362nd Ave NE, 364th Ave NE, 366th Ave NE, 368th Ave NE, 370th Ave NE, 372nd Ave NE, 374th Ave NE, 376th Ave NE, 378th Ave NE, 380th Ave NE, 382nd Ave NE, 384th Ave NE, 386th Ave NE, 388th Ave NE, 390th Ave NE, 392nd Ave NE, 394th Ave NE, 396th Ave NE, 398th Ave NE, 400th Ave NE, 402nd Ave NE, 404th Ave NE, 406th Ave NE, 408th Ave NE, 410th Ave NE, 412nd Ave NE, 414th Ave NE, 416th Ave NE, 418th Ave NE, 420th Ave NE, 422nd Ave NE, 424th Ave NE, 426th Ave NE, 428th Ave NE, 430th Ave NE, 432nd Ave NE, 434th Ave NE, 436th Ave NE, 438th Ave NE, 440th Ave NE, 442nd Ave NE, 444th Ave NE, 446th Ave NE, 448th Ave NE, 450th Ave NE, 452nd Ave NE, 454th Ave NE, 456th Ave NE, 458th Ave NE, 460th Ave NE, 462nd Ave NE, 464th Ave NE, 466th Ave NE, 468th Ave NE, 470th Ave NE, 472nd Ave NE, 474th Ave NE, 476th Ave NE, 478th Ave NE, 480th Ave NE, 482nd Ave NE, 484th Ave NE, 486th Ave NE, 488th Ave NE, 490th Ave NE, 492nd Ave NE, 494th Ave NE, 496th Ave NE, 498th Ave NE, 500th Ave NE, 502nd Ave NE, 504th Ave NE, 506th Ave NE, 508th Ave NE, 510th Ave NE, 512nd Ave NE, 514th Ave NE, 516th Ave NE, 518th Ave NE, 520th Ave NE, 522nd Ave NE, 524th Ave NE, 526th Ave NE, 528th Ave NE, 530th Ave NE, 532nd Ave NE, 534th Ave NE, 536th Ave NE, 538th Ave NE, 540th Ave NE, 542nd Ave NE, 544th Ave NE, 546th Ave NE, 548th Ave NE, 550th Ave NE, 552nd Ave NE, 554th Ave NE, 556th Ave NE, 558th Ave NE, 560th Ave NE, 562nd Ave NE, 564th Ave NE, 566th Ave NE, 568th Ave NE, 570th Ave NE, 572nd Ave NE, 574th Ave NE, 576th Ave NE, 578th Ave NE, 580th Ave NE, 582nd Ave NE, 584th Ave NE, 586th Ave NE, 588th Ave NE, 590th Ave NE, 592nd Ave NE, 594th Ave NE, 596th Ave NE, 598th Ave NE, 600th Ave NE, 602nd Ave NE, 604th Ave NE, 606th Ave NE, 608th Ave NE, 610th Ave NE, 612nd Ave NE, 614th Ave NE, 616th Ave NE, 618th Ave NE, 620th Ave NE, 622nd Ave NE, 624th Ave NE, 626th Ave NE, 628th Ave NE, 630th Ave NE, 632nd Ave NE, 634th Ave NE, 636th Ave NE, 638th Ave NE, 640th Ave NE, 642nd Ave NE, 644th Ave NE, 646th Ave NE, 648th Ave NE, 650th Ave NE, 652nd Ave NE, 654th Ave NE, 656th Ave NE, 658th Ave NE, 660th Ave NE, 662nd Ave NE, 664th Ave NE, 666th Ave NE, 668th Ave NE, 670th Ave NE, 672nd Ave NE, 674th Ave NE, 676th Ave NE, 678th Ave NE, 680th Ave NE, 682nd Ave NE, 684th Ave NE, 686th Ave NE, 688th Ave NE, 690th Ave NE, 692nd Ave NE, 694th Ave NE, 696th Ave NE, 698th Ave NE, 700th Ave NE, 702nd Ave NE, 704th Ave NE, 706th Ave NE, 708th Ave NE, 710th Ave NE, 712nd Ave NE, 714th Ave NE, 716th Ave NE, 718th Ave NE, 720th Ave NE, 722nd Ave NE, 724th Ave NE, 726th Ave NE, 728th Ave NE, 730th Ave NE, 732nd Ave NE, 734th Ave NE, 736th Ave NE, 738th Ave NE, 740th Ave NE, 742nd Ave NE, 744th Ave NE, 746th Ave NE, 748th Ave NE, 750th Ave NE, 752nd Ave NE, 754th Ave NE, 756th Ave NE, 758th Ave NE, 760th Ave NE, 762nd Ave NE, 764th Ave NE, 766th Ave NE, 768th Ave NE, 770th Ave NE, 772nd Ave NE, 774th Ave NE, 776th Ave NE, 778th Ave NE, 780th Ave NE, 782nd Ave NE, 784th Ave NE, 786th Ave NE, 788th Ave NE, 790th Ave NE, 792nd Ave NE, 794th Ave NE, 796th Ave NE, 798th Ave NE, 800th Ave NE, 802nd Ave NE, 804th Ave NE, 806th Ave NE, 808th Ave NE, 810th Ave NE, 812nd Ave NE, 814th Ave NE, 816th Ave NE, 818th Ave NE, 820th Ave NE, 822nd Ave NE, 824th Ave NE, 826th Ave NE, 828th Ave NE, 830th Ave NE, 832nd Ave NE, 834th Ave NE, 836th Ave NE, 838th Ave NE, 840th Ave NE, 842nd Ave NE, 844th Ave NE, 846th Ave NE, 848th Ave NE, 850th Ave NE, 852nd Ave NE, 854th Ave NE, 856th Ave NE, 858th Ave NE, 860th Ave NE, 862nd Ave NE, 864th Ave NE, 866th Ave NE, 868th Ave NE, 870th Ave NE, 872nd Ave NE, 874th Ave NE, 876th Ave NE, 878th Ave NE, 880th Ave NE, 882nd Ave NE, 884th Ave NE, 886th Ave NE, 888th Ave NE, 890th Ave NE, 892nd Ave NE, 894th Ave NE, 896th Ave NE, 898th Ave NE, 900th Ave NE, 902nd Ave NE, 904th Ave NE, 906th Ave NE, 908th Ave NE, 910th Ave NE, 912nd Ave NE, 914th Ave NE, 916th Ave NE, 918th Ave NE, 920th Ave NE, 922nd Ave NE, 924th Ave NE, 926th Ave NE, 928th Ave NE, 930th Ave NE, 932nd Ave NE, 934th Ave NE, 936th Ave NE, 938th Ave NE, 940th Ave NE, 942nd Ave NE, 944th Ave NE, 946th Ave NE, 948th Ave NE, 950th Ave NE, 952nd Ave NE, 954th Ave NE, 956th Ave NE, 958th Ave NE, 960th Ave NE, 962nd Ave NE, 964th Ave NE, 966th Ave NE, 968th Ave NE, 970th Ave NE, 972nd Ave NE, 974th Ave NE, 976th Ave NE, 978th Ave NE, 980th Ave NE, 982nd Ave NE, 984th Ave NE, 986th Ave NE, 988th Ave NE, 990th Ave NE, 992nd Ave NE, 994th Ave NE, 996th Ave NE, 998th Ave NE, 1000th Ave NE, 1002nd Ave NE, 1004th Ave NE, 1006th Ave NE, 1008th Ave NE, 1010th Ave NE, 1012nd Ave NE, 1014th Ave NE, 1016th Ave NE, 1018th Ave NE, 1020th Ave NE, 1022nd Ave NE, 1024th Ave NE, 1026th Ave NE, 1028th Ave NE, 1030th Ave NE, 1032nd Ave NE, 103

# System Intersection V/C Performance Target Gaps

EXISTING SYSTEM INTERSECTION V/C PERFORMANCE TARGET GAP Source: CPPU DEIS			
N/S Street	E/W Street	Performance Management Area and Performance Target	Existing 2019 Base Year
148th Ave NE	NE 8th St	PMA 3: V/C = 0.85	0.99
148th Ave	Main St	PMA 3 V/C = 0.85	0.95
148th Ave SE	Lk Hills Blvd	PMA 3 V/C = 0.85	0.97
148th Ave SE	SE 16th St	PMA 3 V/C = 0.85	0.88
Lakemont Blvd SE	SE Newport Wy	PMA 3 V/C = 0.85	0.86
150th Ave SE	SE Eastgate Wy	PMA 2 V/C = 0.90	1.01
Lk Hills Connector	SE 7th PI	PMA 1 V/C = 1.00	1.03
118th Ave SE	SE 8th St	PMA 1 V/C = 1.00	1.02
115th PI NE	Northup Wy	PMA 3 V/C = 0.85	0.95



SOURCE: City of Bellevue 2023

FIGURE 11-20 Existing System Intersection Performance

# System Intersection Project Concepts in the TFP






EXISTING INTERSECTION V/C GAP			Existing TFP Project Description
N/S Street	E/W Street	Source	<i>* Need to vet internally before providing final recommendation</i>
148th Ave NE	NE 8th St	TFP	Widen all four approaches to provide a second left turn pocket serving each direction.
148th Ave	Main St	TFP	Add a new traffic signal and a southbound left turn lane accessing the south driveway and a left turn lane accessing southbound 148th Avenue SE from the driveway.
148th Ave SE	Lk Hills Blvd	TFP	Add a second westbound left turn pocket to increase the queuing space for this movement and to allow the eastbound and westbound through movements to run concurrently, reducing the overall intersection delay.
148th Ave SE	SE 16th St	TBD*	Widen the east curb line of 148 <sup>th</sup> Ave SE 300ft of SE 16 <sup>th</sup> St to Lake Hills Blvd.
Lakemont Blvd SE	SE Newport Wy	TFP	Un-split the southbound and northbound traffic signal phasing by changing the center lane on the southbound approach to a dedicated left turn lane instead of a shared left/through lane, subject to further analysis.
150th Ave SE	SE Eastgate Wy	TFP	Add a second northbound left turn lane with a short westbound receiving lane and a third southbound through lane starting north of Eastgate Way and extending across the I-90 overpass. The southbound left turn lane will also be extended.
Lk Hills Connector	SE 7th Pl	TFP	Add a second northbound left turn pocket to increase the queuing space for this movement and will convert the existing dedicated eastbound left turn lane to a westbound through lane to receive traffic from the new northbound left turn pocket.
118th Ave SE	SE 8th St	TFP	Widen the intersection to add a second southbound left turn lane and dedicated space for bicycles in the northbound and southbound directions.
115th Pl NE	Northup Wy	TBD*	Widen southbound approach to add a dedicate right turn lane.



# System Intersection V/C Project Scoring

EXISTING SYSTEM INTERSECTION V/C PPERFORMANC TARGET GAP		MIP PRIORITIZATION SCORE				
N/S Street	E/W Street	Growth Goal Score	Access/ Mobility Goal Score	Safety Goal Score	Supplemental Score	Composite Score
148th Ave NE	NE 8th St	4	0	0	2	6
148th Ave	Main St	4	0	4	2	10
148th Ave SE	Lk Hills Blvd	4	0	0	2	6
148th Ave SE	SE 16th St	4	0	0	1	5
Lakemont Blvd SE	SE Newport Wy	4	0	4	1	9
150th Ave SE	SE Eastgate Wy	2	-1	0	2	3
Lk Hills Connector	SE 7th Pl	1	-2	4	1	4
118th Ave SE	SE 8th St	1	-2	4	1	4
115th Pl NE	Northup Wy	4	0	0	2	6

# System Intersection Project Tiering

EXISTING SYSTEM INTERSECTION GAP		MIP PRIORITIZATION SCORE					
N/S Street	E/W Street	Growth Goal Score	Access/ Mobility Goal Score	Safety Goal Score	Supplemental Score	Composite Score	Tier
148th Ave NE	NE 8th St	4	0	0	2	6	Mid
148th Ave	Main St	4	0	4	2	10 	High
148th Ave SE	Lk Hills Blvd	4	0	0	2	6	Mid
148th Ave SE	SE 16th St	4	0	0	1	5	Mid
Lakemont Blvd SE	SE Newport Wy	4	0	4	1	9 	High
150th Ave SE	SE Eastgate Wy	2	-1	0	2	3 	Low
Lk Hills Connector	SE 7th Pl	1	-2	4	1	4 	Low
118th Ave SE	SE 8th St	1	-2	4	1	4 	Low
115th Pl NE	Northup Wy	4	0	0	2	6	Mid