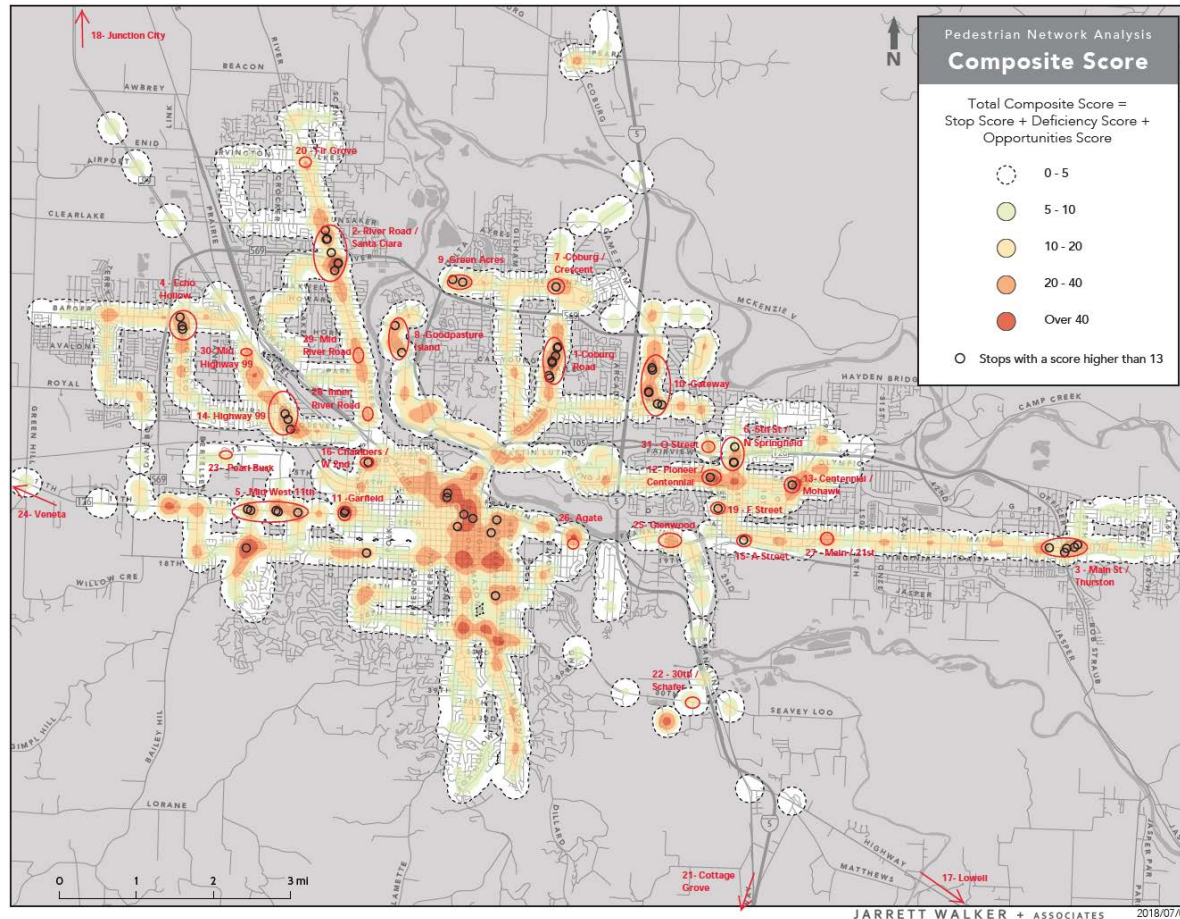
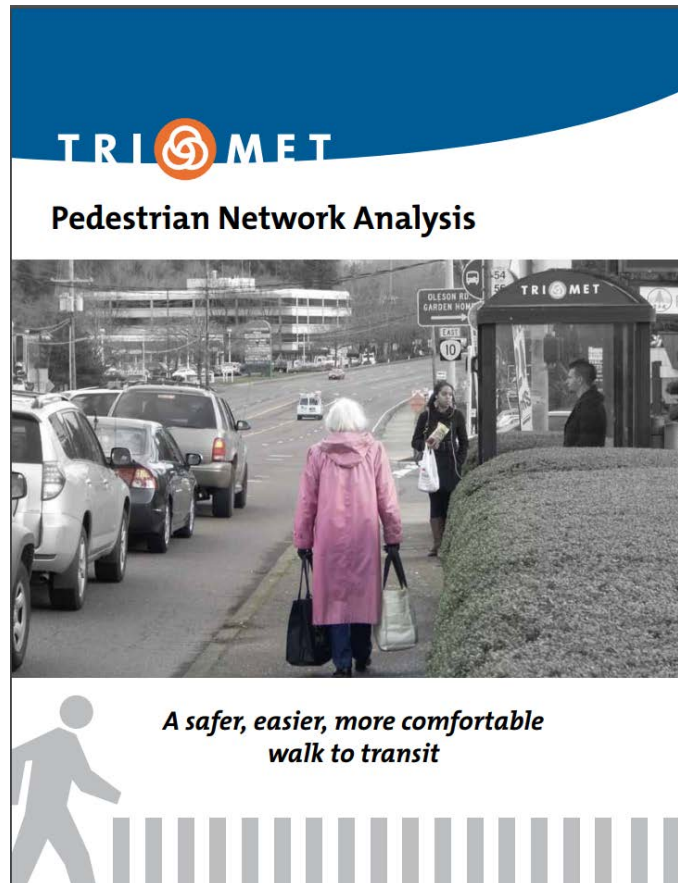


LTD's Pedestrian Network Analysis (PNA) Pilot Project



Transit depends on safe and convenient pedestrian access



Transit *Tomorrow*

Your Transit. Your Vision. Your Future.

Lane Transit District

JARRETT WALKER + ASSOCIATES

What the ltd.pna package tool does

- Ingests data of where things are, calculates proximity of LTD bus stops to: (examples)

- High # Transit Ons/Offs
- Schools, Parks
- Grocery Stores
- Affordable Housing
- Social Services
- Senior Housing



Transit Demand

- Paratransit Activity
- Bus Ramp Deployments
- Stop Amenities



Opportunities

- Sidewalk data
- Crash data (pedestrian)
- Signals and Crossings
- Roadway Speed



Infrastructure
(Deficiencies)



Apply context, make judgements

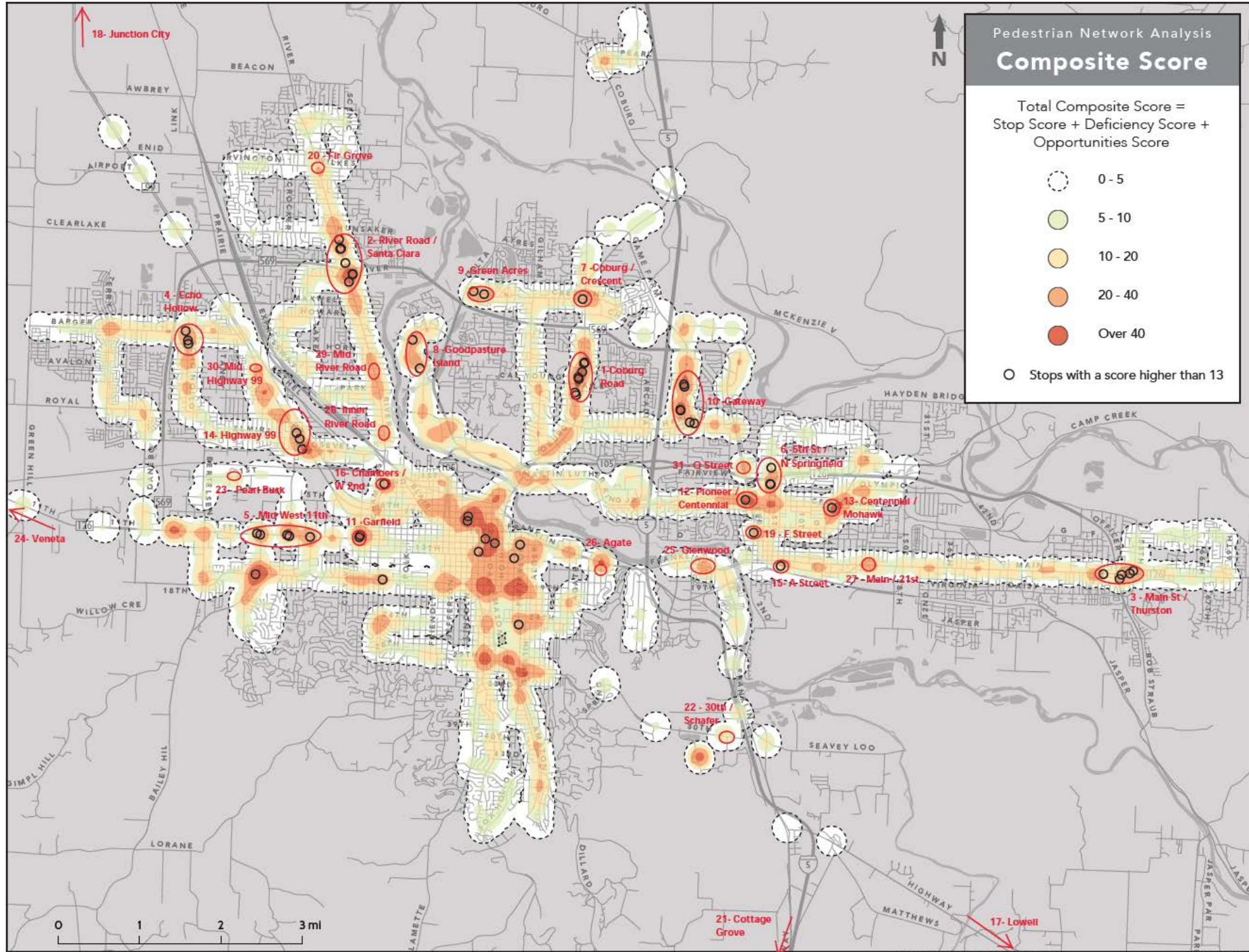
- 1) Sort Scores
- 2) Find “hot spots” and clusters
- 3) Compare to Equity Demographics
- 4) Create long list of Priority areas (30+ in pilot)
- 5) Share products, stop list, scores, with regional partner agencies, then engage in selection of short list (8+ in pilot) and methodology for fieldwork

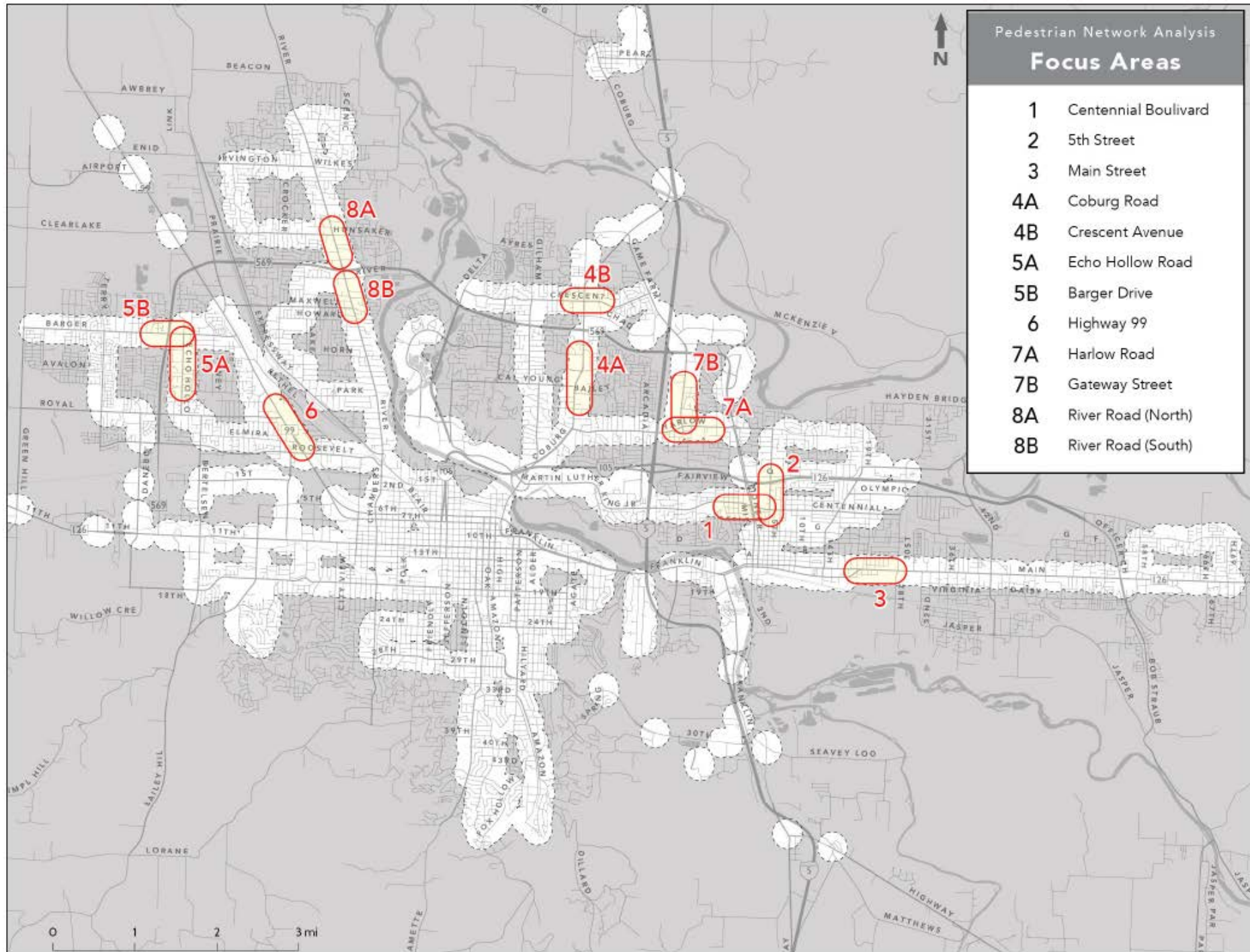


What the ltd.pna package tool does

- Sort Scores

				Infrastructure Deficiencies										A- Transit Stops										B- Opportunities					Transit Demand				Combined Scores	
Stop #	Area	Area Location	No Sidewalk	Major Arterial	High Speed	Paved Curb Site	No Signalized Crossing	Boardings/Alighting	High School	Full-Service Grocery	Pre-Elementary Middle School	Major Attraction	Multimodal Facility	Parks	Connecting Transit	Near Affordable Housing	Social Services	Senior Housing	Redevelopment Demand	Ramp Development	Bus Stop Amenities	Stop	Ch	Transit Demand	Infrastructure Deficiency Score	Full Combined Score								
00564	Coburg Road	Coburg Rd & Cal Young Rd, Eugene, OR	0	1	2	2	1	2	1	1	1	1	1	0	2	1	0	1	2	1	2	2	2	13	5	22								
00565	Coburg Road	Coburg Rd & Willamette Rd, Eugene, OR	0	1	2	2	1	2	1	1	1	1	1	0	0	1	0	1	2	2	0	2	2	13	5	19								
00562	Coburg Road	Coburg Rd & Bailey Lane, Eugene, OR	0	1	2	2	0	2	1	1	1	1	1	0	2	0	0	0	2	0	2	2	2	14	5	19								
00563	Coburg Road	Coburg Rd & Cal Young Rd, Eugene, OR	0	1	2	2	1	2	1	1	1	1	1	0	0	1	0	1	2	0	0	2	2	11	5	17								
00556	Coburg Road	Coburg Rd & Willamette Rd, Eugene, OR	0	1	2	2	1	2	1	1	1	1	1	0	0	0	0	0	2	1	0	0	2	3	5	15								
00561	Coburg Road	Coburg Rd & Bailey Ln, Eugene, OR	0	1	2	2	1	2	1	1	1	1	1	0	2	1	0	1	0	1	0	0	2	0	5	14								
00615	River Road/Santa Cl	2 River Rd & Santa Clara Ave, Eugene, OR	0	1	2	2	0	2	1	1	1	0	1	0	2	1	0	1	2	1	2	2	2	15	5	20								
00611	River Road/Santa Cl	2 River Rd & Santa Clara Ave, Eugene, OR	0	1	2	2	0	2	1	1	0	1	1	0	0	1	1	2	1	2	1	2	2	13	5	18								
00707	River Road/Santa Cl	2 River Road Station	2	0	0	2	1	2	1	0	0	1	1	0	2	0	0	1	2	1	2	2	2	13	5	18								
00747	River Road/Santa Cl	2 River Rd & Division Ave, Eugene, OR	0	1	2	2	1	2	1	0	0	1	1	0	0	0	0	1	2	1	2	2	2	13	5	17								
00705	River Road/Santa Cl	2 River Rd & Green Ln, Eugene, OR	0	1	2	2	1	2	1	1	0	1	1	0	0	0	0	0	1	2	0	2	2	13	5	16								
00675	River Road/Santa Cl	2 River Rd & Green Ln, Eugene, OR	0	1	2	2	1	0	1	1	0	1	0	0	0	1	0	1	2	0	2	2	2	9	5	15								
00706	River Road/Santa Cl	2 River Rd & River Ave, Eugene, OR	2	0	0	2	1	2	0	0	0	1	1	0	0	0	0	0	1	0	2	2	2	10	5	15								
00653	River Road/Santa Cl	2 River Rd & Irving Rd, Eugene, OR	0	1	2	2	1	0	0	0	1	0	1	0	0	2	0	0	0	0	0	2	2	6	5	12								
00073	Main St/Thurston	2 Main St & 38th St, Springfield, OR	0	1	2	2	1	2	1	1	0	1	1	0	2	0	0	0	2	1	2	2	2	13	5	19								
00170	Main St/Thurston	Thurston Station	0	1	2	2	0	2	1	1	0	1	1	0	0	1	0	0	2	1	2	2	2	12	5	17								
00177	Main St/Thurston	Thurston Station	0	0	2	2	1	2	1	1	0	0	1	1	0	0	1	0	1	2	1	2	2	12	5	17								
00020	Main St/Thurston	2 Main St & 54th St, Springfield, OR	0	0	2	2	0	2	1	1	0	0	1	1	0	0	0	1	0	1	0	1	2	11	4	15								
00021	Main St/Thurston	2 Main St & 54th St, Springfield, OR	0	0	2	2	1	0	1	0	0	0	1	1	0	0	0	0	0	1	0	1	2	9	4	13								
00227	Main St/Thurston	2 Main St & 58th St, Springfield, OR	0	1	2	2	1	0	0	0	0	1	1	0	0	0	0	0	2	1	0	2	2	7	4	13								
00006	Main St/Thurston	2 Main St & 58th St, Springfield, OR	0	1	2	2	1	0	0	0	0	1	1	0	0	0	1	0	0	0	2	2	2	6	4	11								
00779	Echo Hollow	2 Echo Hollow Rd & Bergen Dr, Eugene, OR	0	0	2	2	0	2	1	0	1	1	1	0	0	1	1	0	2	0	2	2	2	12	4	16								
00770	Echo Hollow	2 Echo Hollow Rd & Green Ln, Eugene, OR	0	0	2	2	0	2	1	1	1	1	1	0	0	0	1	1	0	2	0	2	2	12	4	16								
00752	Echo Hollow	2 Echo Hollow Rd & Bergen Dr, Eugene, OR	0	0	2	2	0	2	1	1	1	1	1	0	0	1	0	0	0	0	1	2	2	11	4	15								
00564	Mid Urban Tn	5 Santana Station	0	1	2	2	0	2	0	0	0	0	1	1	1	0	0	1	0	0	2	1	2	11	4	15								
00561	Mid Urban Tn	5 Oak Parish Station	0	1	2	2	0	2	0	0	0	1	1	1	2	0	0	0	0	1	2	1	2	11	5	16								
00563	Mid Urban Tn	5 Santana Station	0	1	2	2	0	2	0	0	0	0	1	1	0	0	0	0	2	1	2	2	2	11	4	15								
00555	Mid Urban Tn	5 Bailey Hill Station	2	1	2	2	1	2	1	0	0	0	0	0	1	0	0	1	0	0	0	2	2	7	4	14								
00552	Mid Urban Tn	5 Bailey Hill Station	0	1	2	2	0	2	1	0	0	0	0	0	1	2	0	1	0	0	1	2	2	9	4	14								
00027	Sh. Soft Springfield	6 Sh. Soft St & Springfield, OR	0	0	2	2	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	2	2	9	4	14								
00024	Sh. Soft Springfield	6 Sh. Soft St & Main Ln, Springfield, OR	0	0	2	2	1	0	0	0	1	1	1	0	0	1	1	0	0	2	0	2	2	9	5	14								
00016	Sh. Soft Springfield	6 Sh. Soft St & Main Ln, Springfield, OR	0	0	2	2	1	0	0	0	1	1	1	0	0	0	1	0	0	2	0	2	2	9	5	14								
00009	Coburg/Clatsop	7 Coburg Rd & Centerville Ave, Eugene, OR	0	1	2	2	0	2	0	0	0	0	1	0	0	2	1	0	0	2	0	2	2	10	5	16								
00027	Goodpasture Island	7 Goodpasture Island Road & Knappa Rd, Eugene, OR	0	0	2	2	0	2	1	0	0	0	0	0	0	2	1	0	0	1	2	2	2	12	4	16								
00421	Goodpasture Island	7 Goodpasture Island Road & Knappa Rd, Eugene, OR	0	0	2	2	1	0	1	0	0	0	0	0	0	2	0	0	1	2	1	2	2	10	5	15								
00558	Goodpasture Island	7 Goodpasture Island Road & Knappa Rd, Eugene, OR	0	0	2	2	0	2	0	0	0	0	0	0	0	1	0	1	2	1	2	1	2	10	4	14								
00011	Green Acres	8 Green Acres Rd & Oak Rd, Eugene, OR	0	0	2	2	1	2	0	0	0	0	1	0	0	0	1	0	2	1	2	2	2	11	5	16								
00575	Green Acres	8 Green Acres Rd & Applewood Ln, Eugene, OR	0	0	2	2	1	2	0	0	1	0	1	0	0	2	0	1	0	2	1	2	2	12	5	17								
00048	Gateway Station	9 Gateway Station	0	0	2	2	1	2	0	0	0	1	1	0	2	0	0	0	1	0	1	2	2	11	5	16								
00529	Gateway Station	9 Gateway Station	0	0	2	2	0	2	0	0	0	1	1	0	0	0	0	0	0	0	1	2	2	10	5	15								
00522	Gateway Station	9 Portal Way Station	0	0	2	2	0	2	0	1	0	1	1	0	0	0	1	0	0	0	1	2	2	11	4	15								
00525	Gateway Station	9 Portal Way Station	0	0	2	2	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	2	2	10	4	14								
00530	Gateway Station	9 Gateway Station	0	0	2	2	0	2	0	0	0	1	1	0	0	0	0	0	0	0	0	2	2	10	4	14								
00529	Gateway Station	9 Gateway Station	0	0	2	2	0	2	0	0	0	1	1	0	0	0	0	0	0	0	1	2	2	10	4	14								
00531	Gateway Station	9 Gateway Station	0	0	2	2	0	2	0	0	1	1	0	0	0	0	0	0	0	0	1	2	2	10	4	14								
00532	Gateway Station	9 Gateway Station	0	0	2	2	0	2	0	0	1	1	0	0	0	0	0	0	0	0	1	2	2	10	4	14								
00540	Gateway Station	9 Gateway Station	0	1	0	2	0	2	0	0	0	0	0	0	0	2	1	1	0	2	1	2	2	10	4	14								
00547	Gateway Station	9 Gateway Station	0	1	0	2	0	2	0	0	0	0	0	0	0	2	1	1	0	2	1	2	2	10	4	14								
00561	Gateway Station	9 Gateway Station	0	1	0	2	1	2	0	0	0	1	0	0	0	2	1	1	0	2	1	0	2	10	4	14								
00576	Gateway Station	9 Gateway Station	0	0	2	2	1	2	1	0	1	0	0	0	0	0	0	0	0	0	1	2	2	10	4	14								
00580	Gateway Station	9 Gateway Station	0	0	2	2	1	2	1	0	0	1	0	0	0	0	0	0	0	1	2	2	2	10	5	15								
00581	Gateway Station	9 Gateway Station	0	0	2	2	1	2	1	0	0	1	0	0	0	0	0	0	0	0	1	2	2	10	4	14								
00582	Gateway Station	9 Gateway Station	0	0	2	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	10	4	14								
00583	Gateway Station	9 Gateway Station	0	1	2	2	1	2	0	0	0	0	0	0	0	0	0	1	1	0	0	2	2	7	4	13								
00584	Gateway Station	9 Gateway Station	0	0	1	2	1	2	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	7	4	13								
00585	Gateway Station	9 Gateway Station	0	0	1	2	1	2	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	7	4	13								
00586	Gateway Station	9 Gateway Station	0	0	1	2	1	2	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	7	4	13								
00587	Gateway Station	9 Gateway Station	0	0	1	2	1	2	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	7	4	13								
00588	Gateway Station	9 Gateway Station	0	0	1	2	1	2	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	7	4	13								
00589	Gateway Station	9 Gateway Station	0	0	1	2	1	2	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	7	4	13								
00590	Gateway Station	9 Gateway Station	0	0	1	2	1	2	0	0	0	0	0	0	0	0	1	1	0	0	0	2	2	7	4	13								
00591	Gateway	9 Gateway Station	0	0	1	2	1	2	0	0																								





Fieldwork & Report



Focus Area: Division

Intersections: 1 to 2

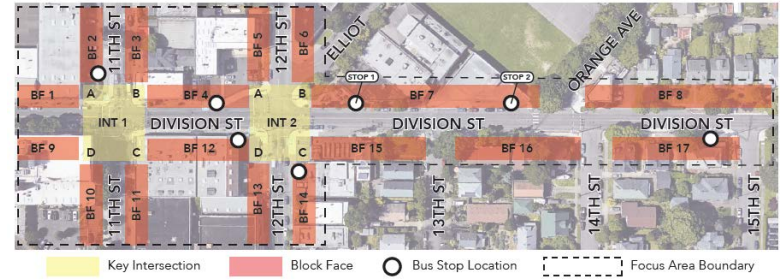
Block Faces: 1 to 17

Surveyors: _____

Date: _____

Start Time: _____

End Time: _____



Notes:

B.F.4: Tree roots causing upheaval on sidewalk

PEDESTRIAN NETWORK ANALYSIS

Report on Field Observations and Recommendations

Lane Transit District

JARRETT WALKER + ASSOCIATES

January 2019

Next Steps

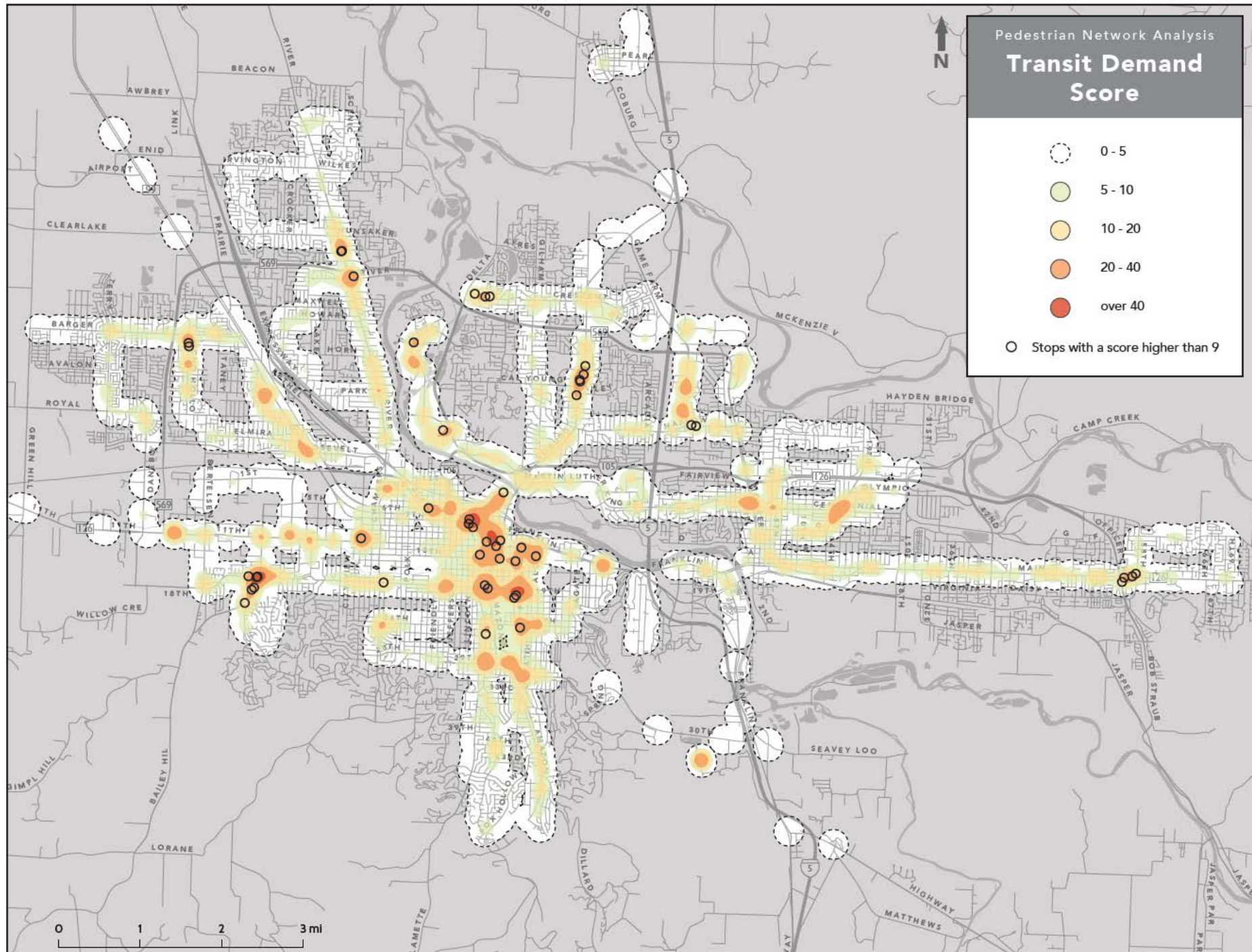
- Capture value of work to date
 - FTN Passenger Boardings Improvements
 - improve lrd.pna methods
- Assess/expand scope
 - review literature
 - balance stop spacing/prioritize improvements?
 - develop guidelines?
 - pursue funding/create program
- Collaboration is key
 - establish ground rules



Questions? Advice on next steps?

Full Methods, Fieldwork Report:
<https://www.ltd.org/transit-tomorrow-document-library/>





Pedestrian Network Analysis

Transit Demand Score

0 - 5

5 - 10

10 - 20

20 - 40

over 40

○ Stops with a score higher than 9

