

Location Allocation in Market Analysis: A Tool for Community-Based Economic Development

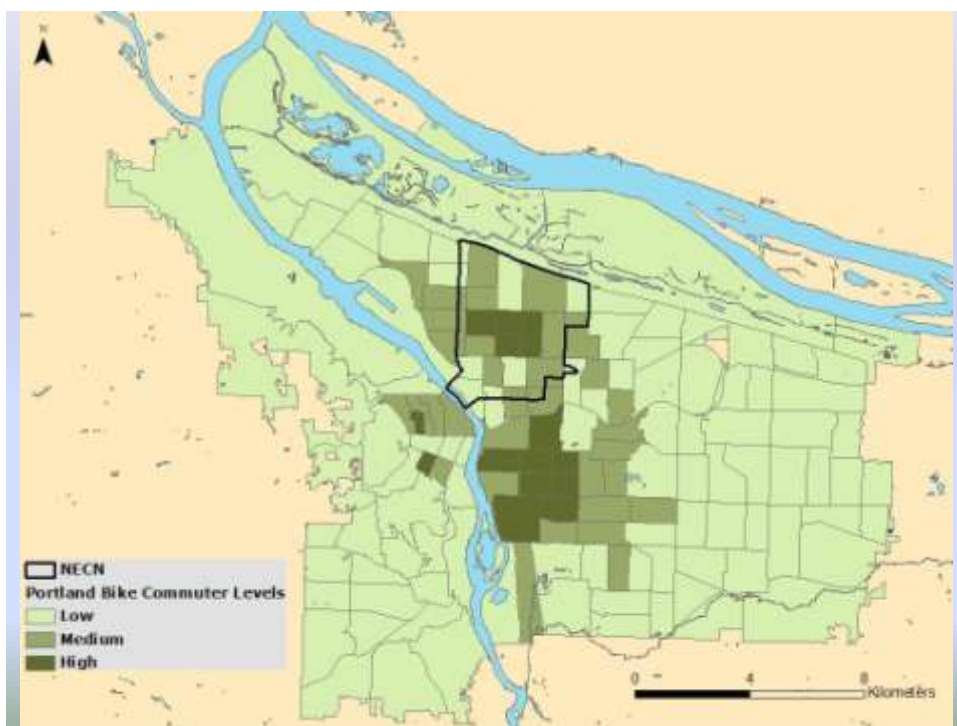
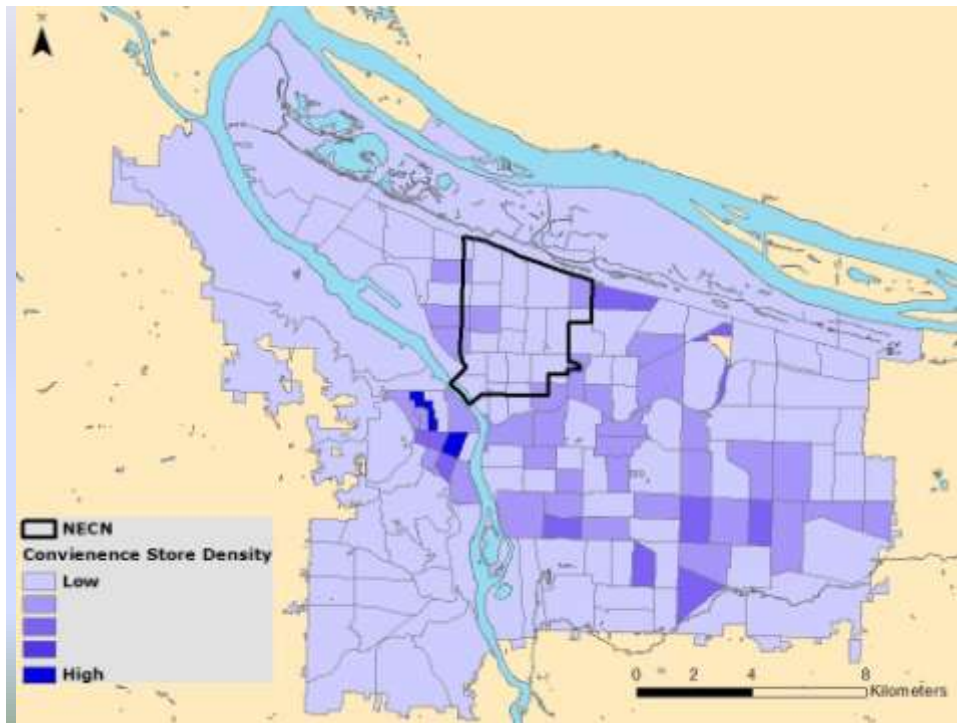


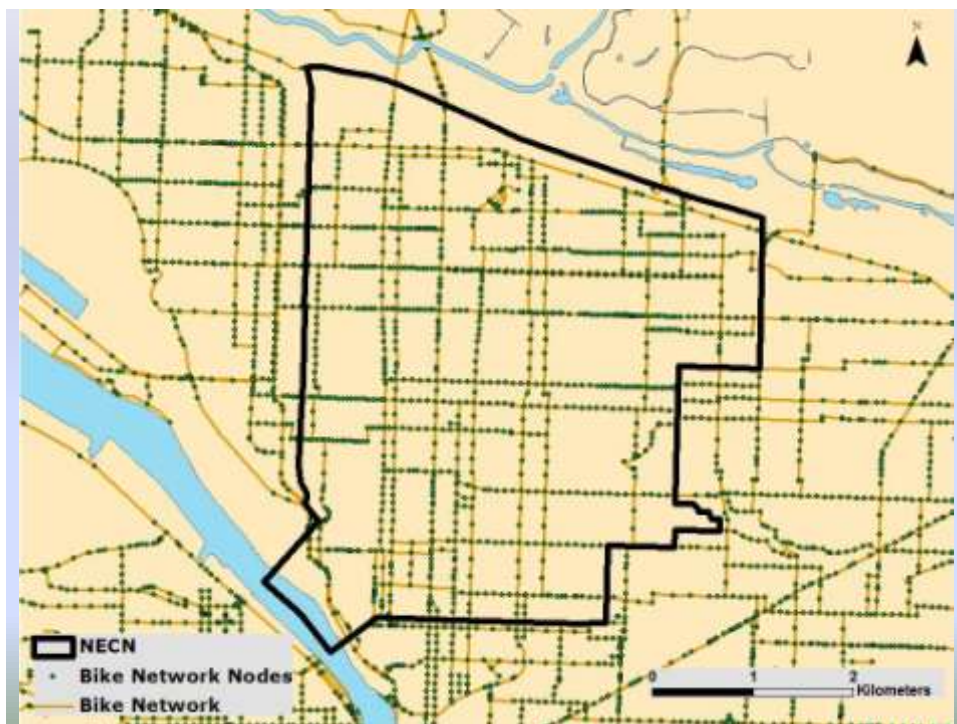
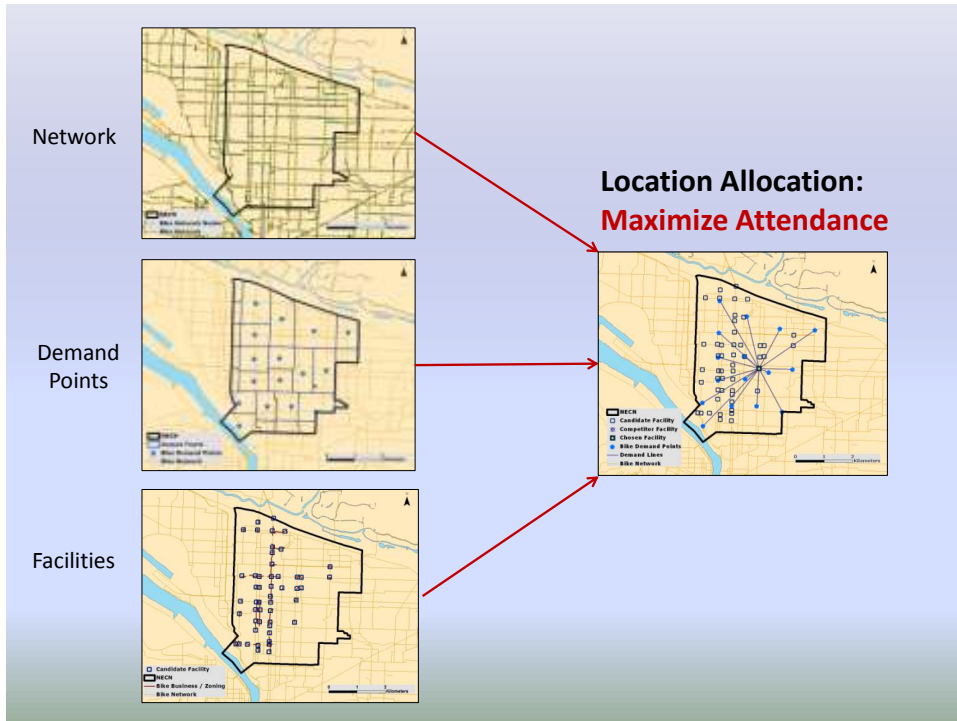
Ryan Dann and Alison Wicks
March 7, 2011
USP/GEOG 592, Winter 2011
Professor Duh

Project Sources:

- Regional Land Information System (RLIS)
- American Community Survey 2005-2009
- Plaid Pantry
- City of Portland Office of Neighborhood Involvement
- City of Portland GIS Data Catalog





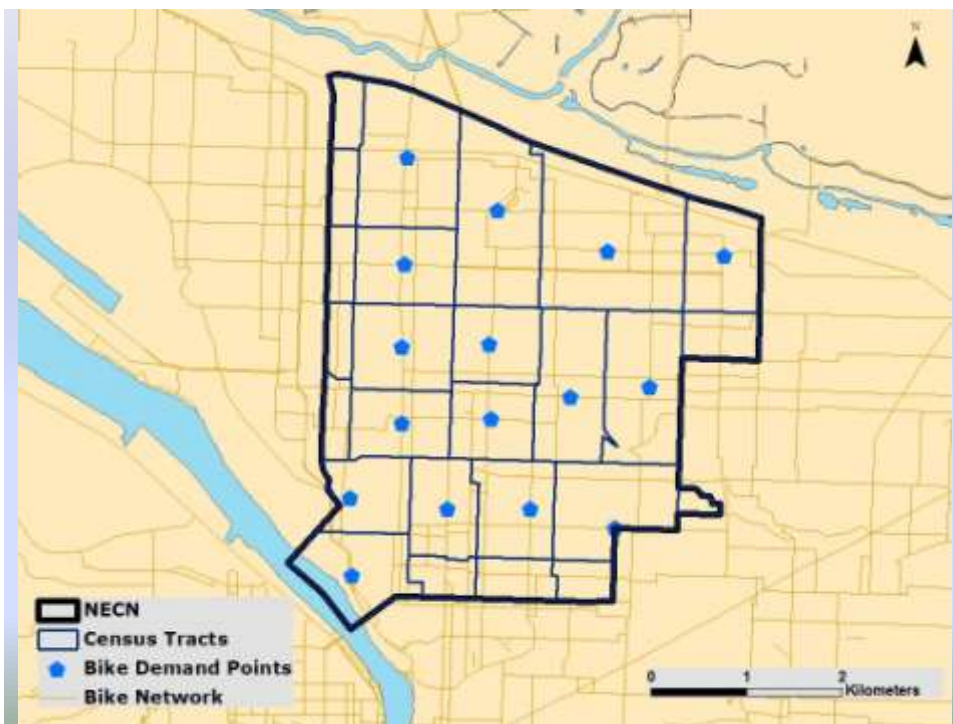


Hierarchy Ranges [?] [X]

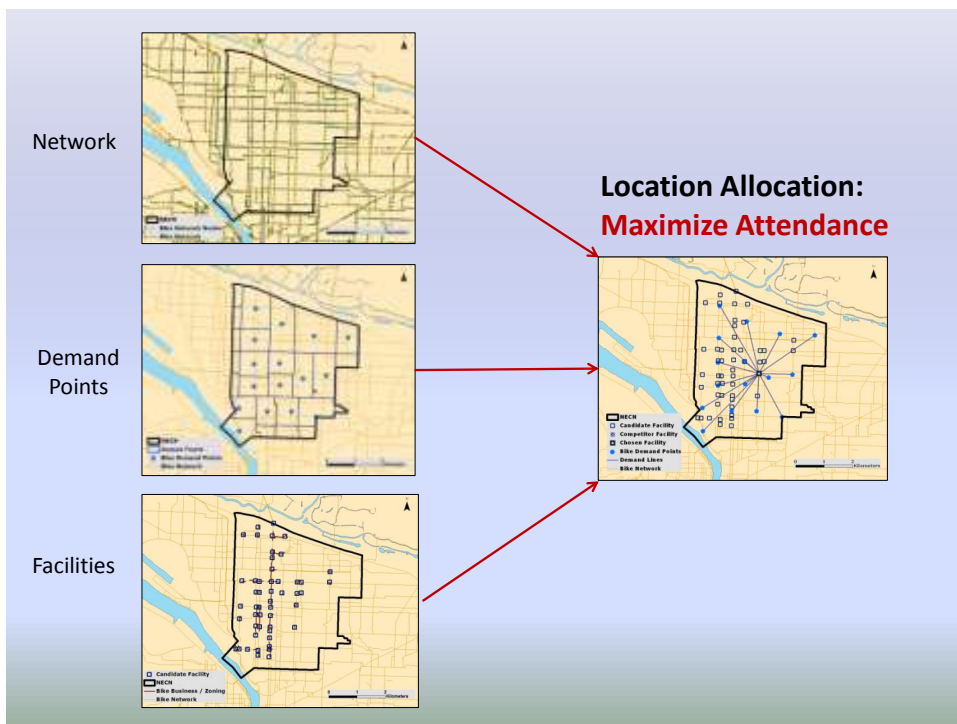
up to 2 - 2 and higher

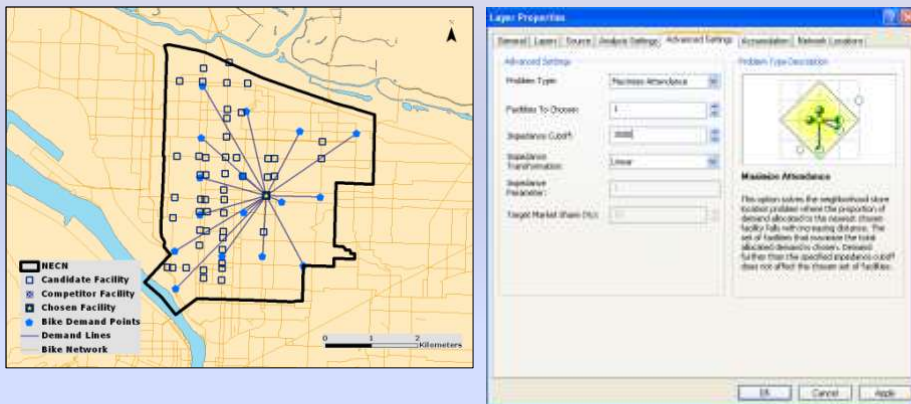
Primary Roads Secondary Roads Local Roads

1	2	3
Bike Boulevard/Lane	Planned Bike Lane	Caution Areas
Multi-use Paths	Planned Multi-use Paths	High Traffic Streets
Low Traffic Streets	Moderate Traffic Streets	

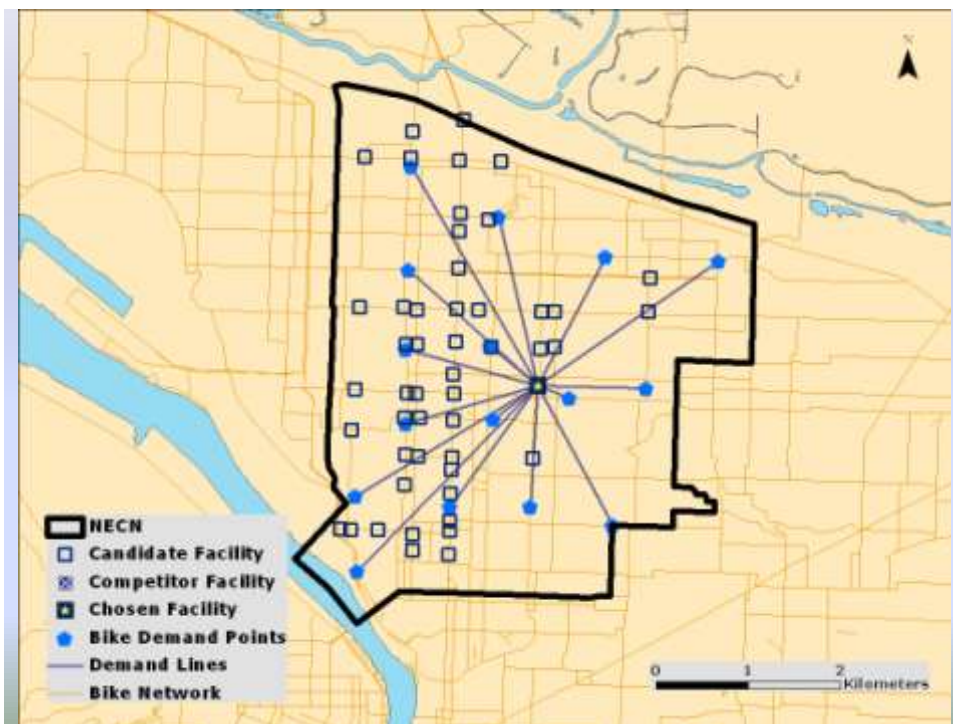


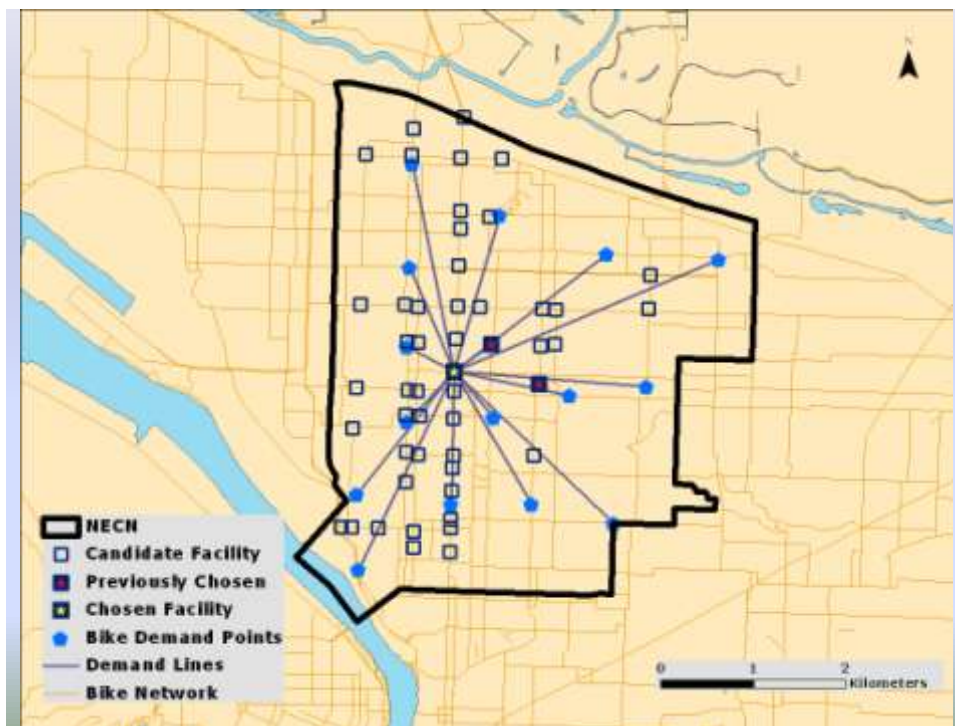
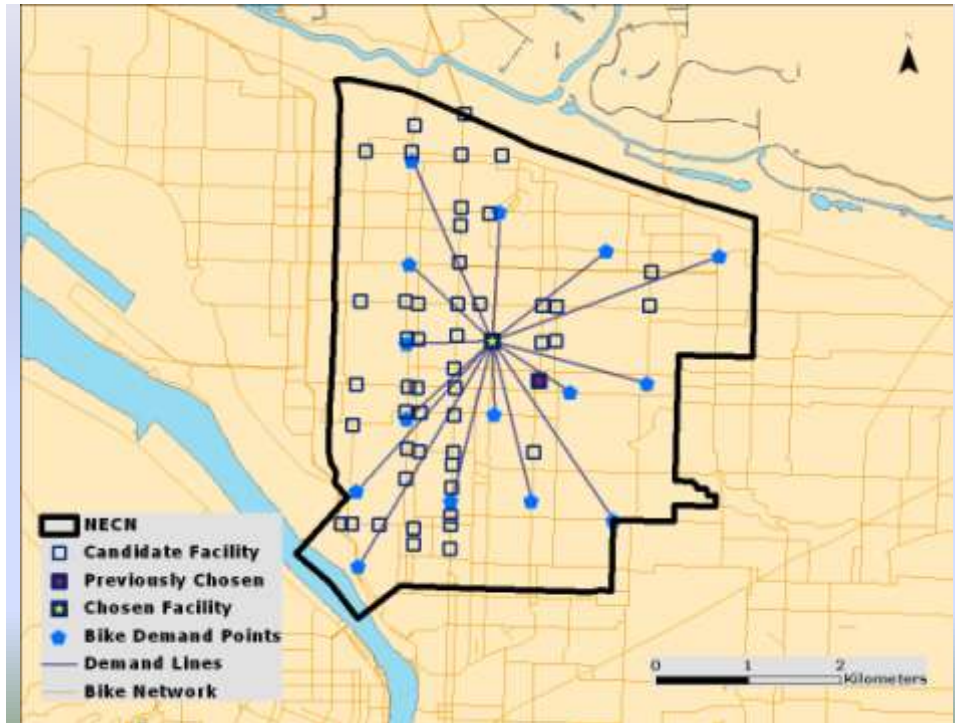


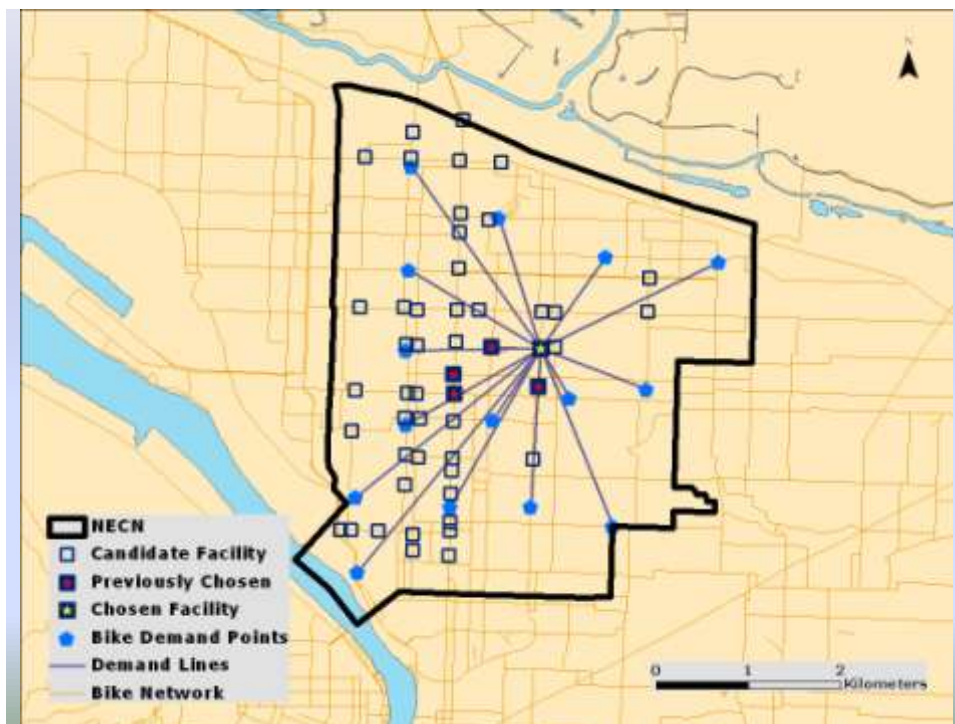
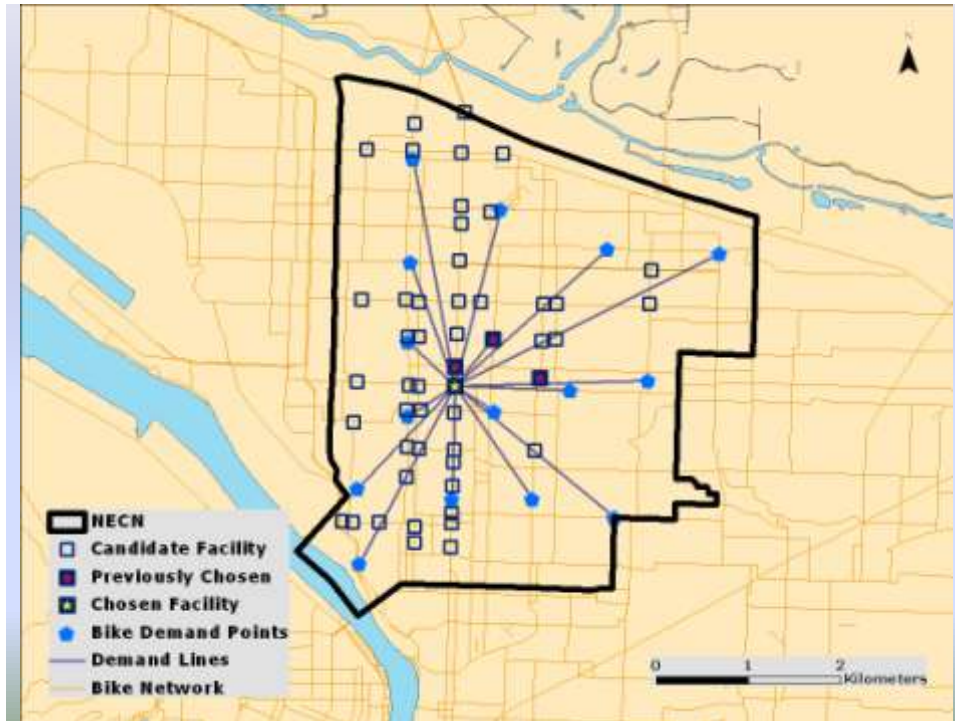


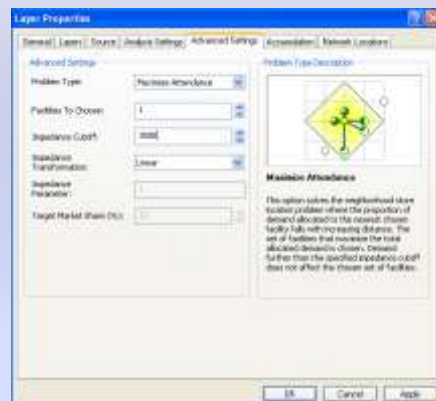
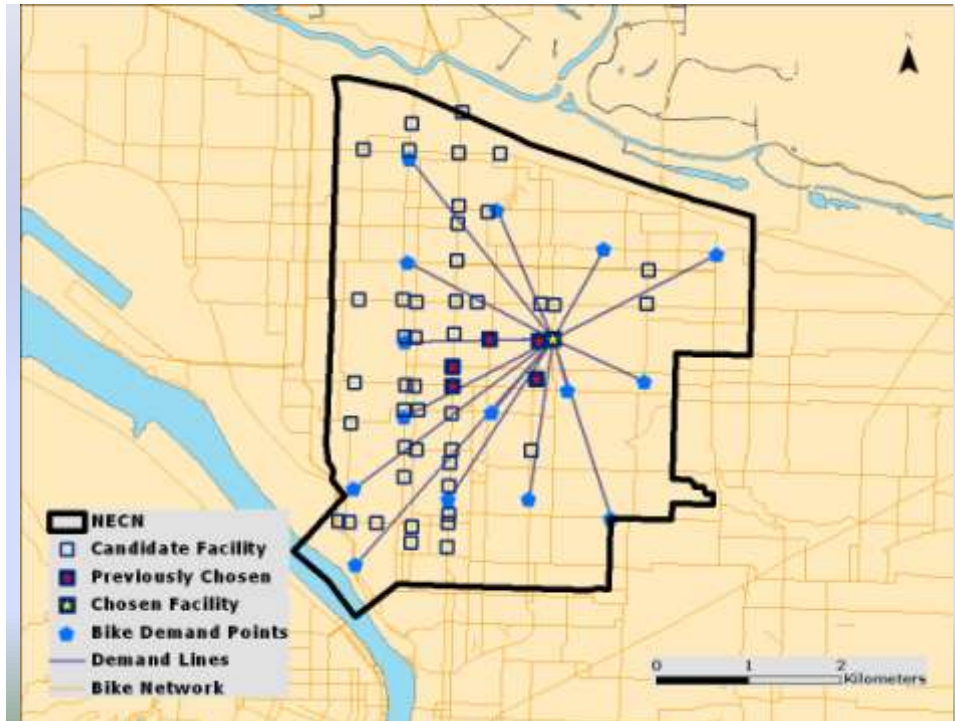


Location Allocation: **Maximize Attendance**
 Facilities: 1 (at time)
 Impedance: 3,500m

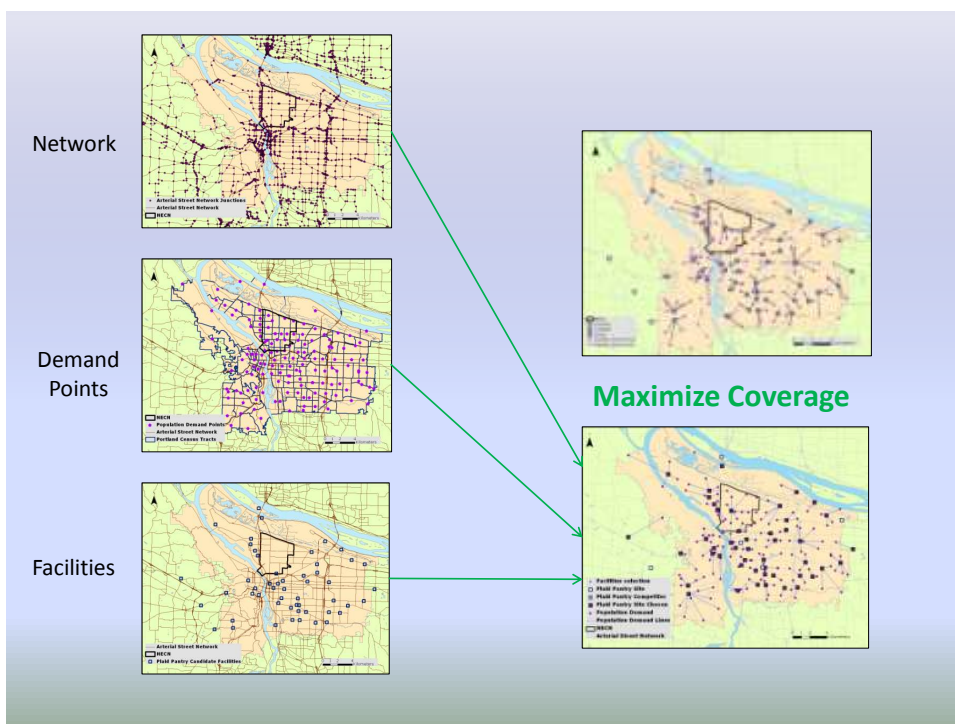
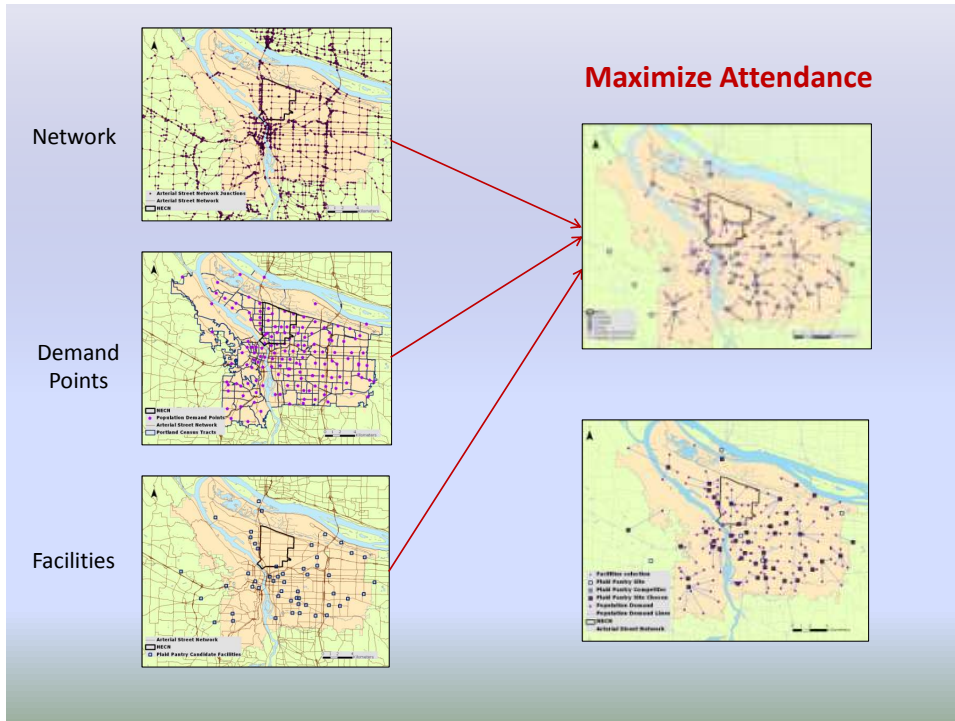


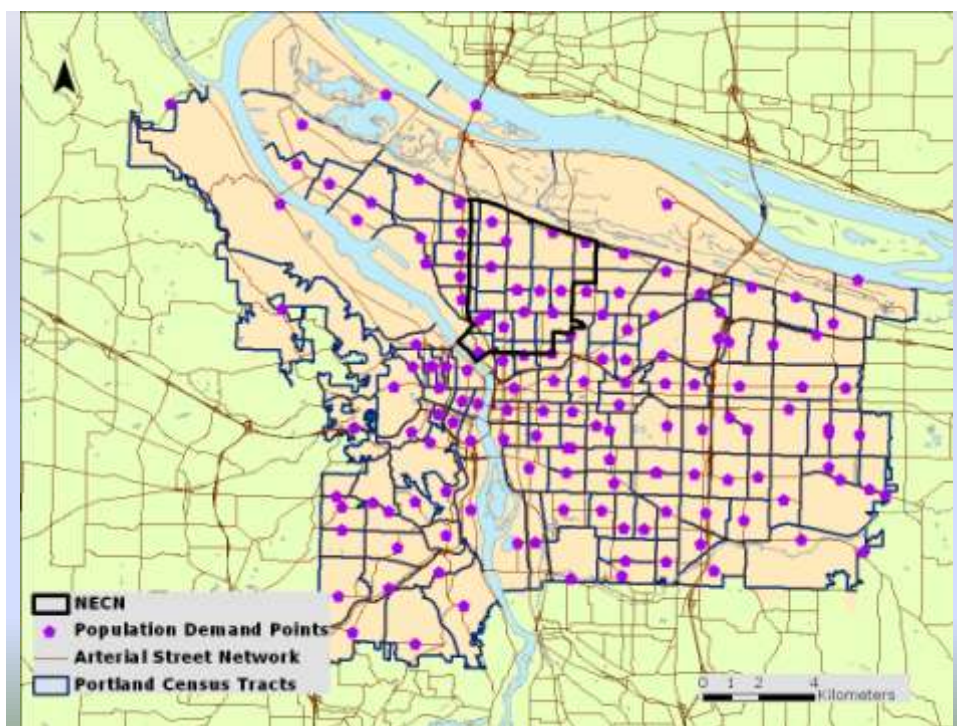
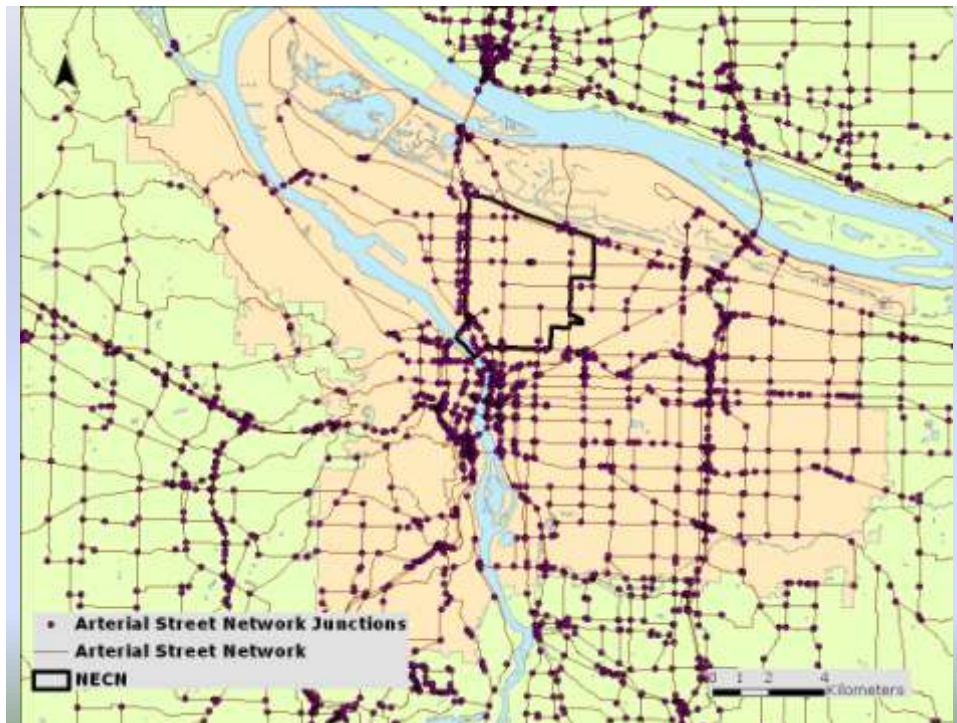


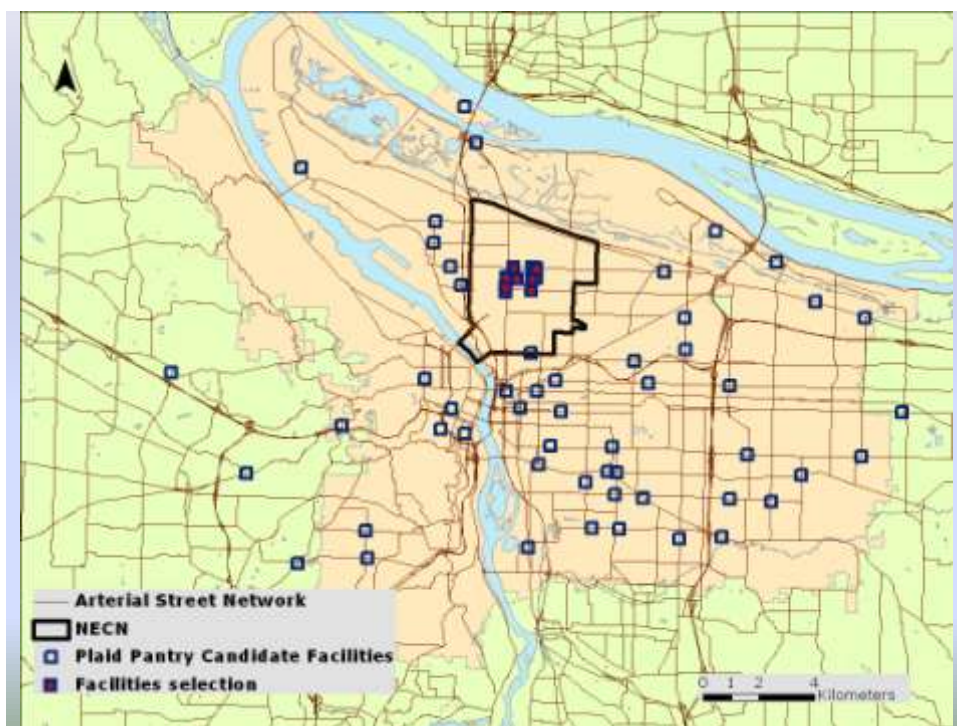
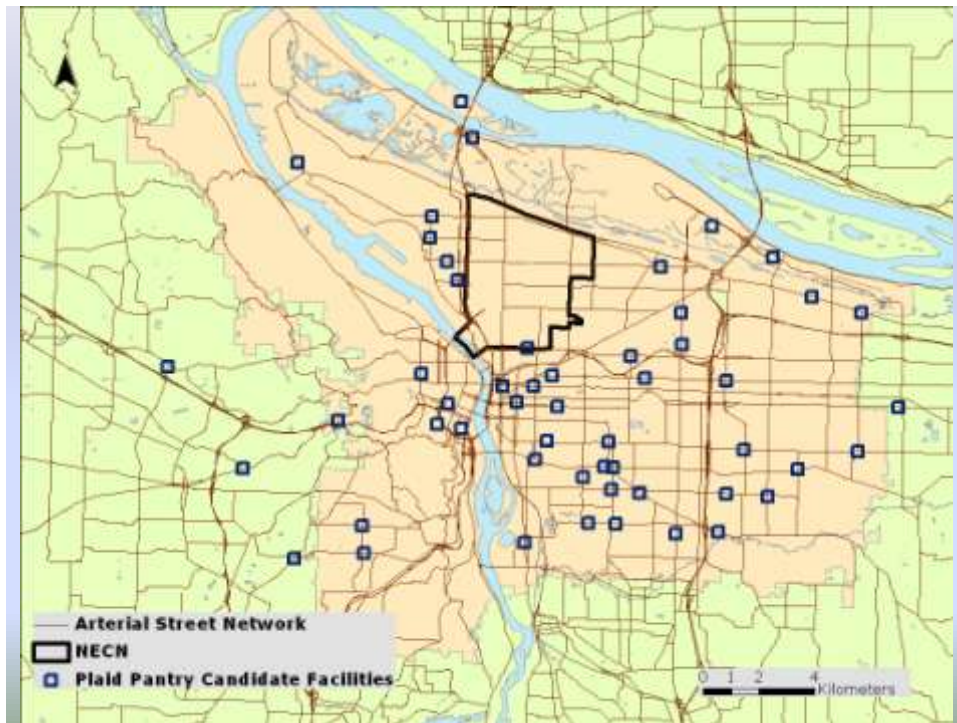




Location Allocation: **Maximize Attendance**
 Facilities: 1 (at time)
 Impedance: 3,500m









Location Allocation: **Maximize Attendance**
 Facilities: 54
 Impedance: 3,500m

Rank	Existing and Potential Plaid Pantry Sites	Allocated Demand (population)
		Location Allocation: Maximize Attendance, Impedance 3500 Meters
1	10255 NE Glisan	16,384
2	NECN Site	15,794
3	2270 NW Glisan	13,951
4	16226 SE Division	13,441
5	7210 SE Milwaukie	12,184
6	5007 SE Division	10,609
7	14090 NE Sandy	9,648
8	6630 SE Glisan	9,521
9	4504 SE 122nd	9,315
10	5412 SE Woodstock	9,032



Location Allocation: **Maximize Coverage**
 Facilities: 54
 Impedance: 100,000m

Rank	Existing and Potential Plaid Pantry Sites	Allocated Demand (population)
		Location Allocation: Maximize Coverage, Impedance 100,000 Meters
1	4404 SW Multnomah	38,742
2	NECN Site	37,208
3	10255 NE Glisan	36,089
4	16226 SE Division	32,625
5	14090 NE Sandy	21,506
6	9101 N Lombard	19,895
7	7144 NE Killingsworth	19,411
8	2730 N Lombard	19,369
9	2270 NW Glisan	19,342
10	13521 SE Powell Blvd.	18,894

