



# *Kirkland 10 Minute Neighborhood Analysis*

Multimodal Integration  
September 10, 2015



# About Kirkland

- 18.25 square miles
- 81,730 residents
- +/-35,000 jobs
- 2011 annexation:
  - 7 square miles
  - increased population by 60%



# About Kirkland

- Long history of planning
- Highly engaged citizenry
- 15 involved  
Neighborhoods



# Kirkland 2035 Comp Plan Update

## State & Local Direction

### Sources:

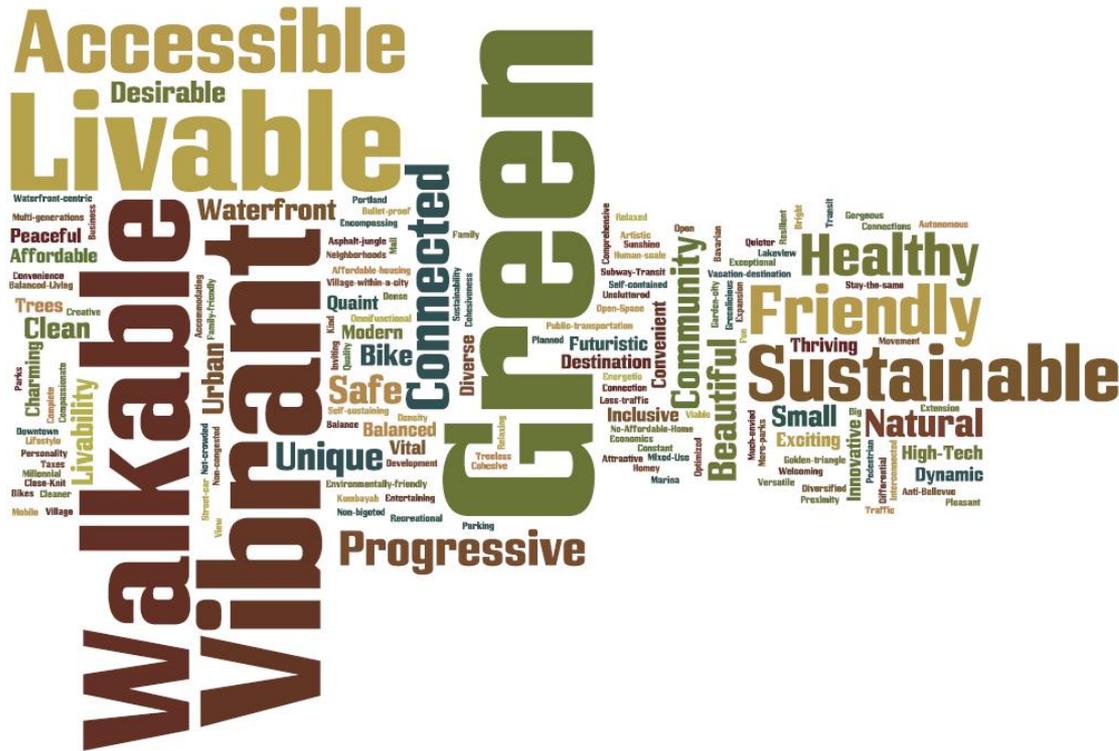
- Growth Management Act
- Puget Sound Regional Council
- Countywide Planning Policies
- Growing Transit Communities
- Local Plans & Regulations

### Guidance:

- Compact communities
- Increase health & physical activity
- Urban centers
- Accessible parks
- Greenhouse gas
- Social connectivity

# Kirkland 2035 Comp Plan Update

- Kickoff Visioning – describe Kirkland in 2035...

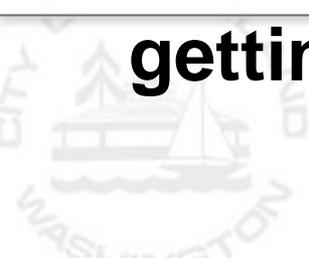
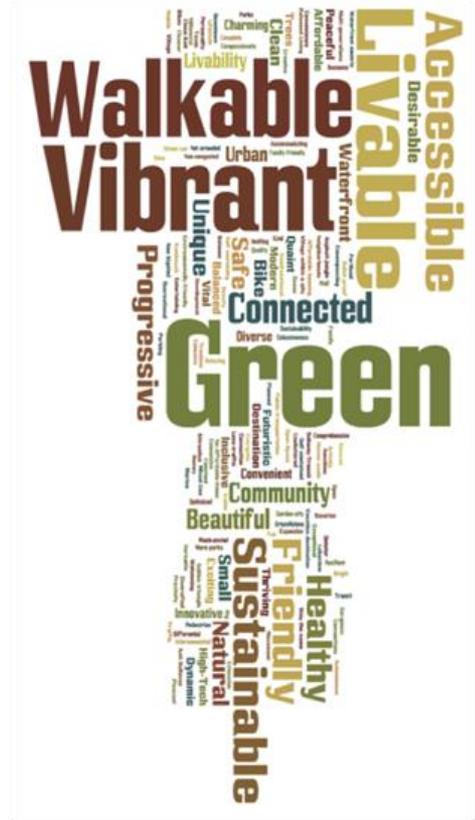


# Problem...

What does it mean to be:

- Walkable
- Livable
- Green
- Accessible
- Connected
- Healthy
- Sustainable...

...and how do we know if we are getting better or worse?



# Planner bag o' tricks...

- WWPD?

**PORTLAND PLAN**

**20-Minute Neighborhoods Analysis:  
Background Report and  
Analysis Area Summaries**



**PORTLAND PLAN BACKGROUND REPORT  
JUNE 2012**



**Bureau of Planning and Sustainability**  
Innovation. Collaboration. Practical Solutions.

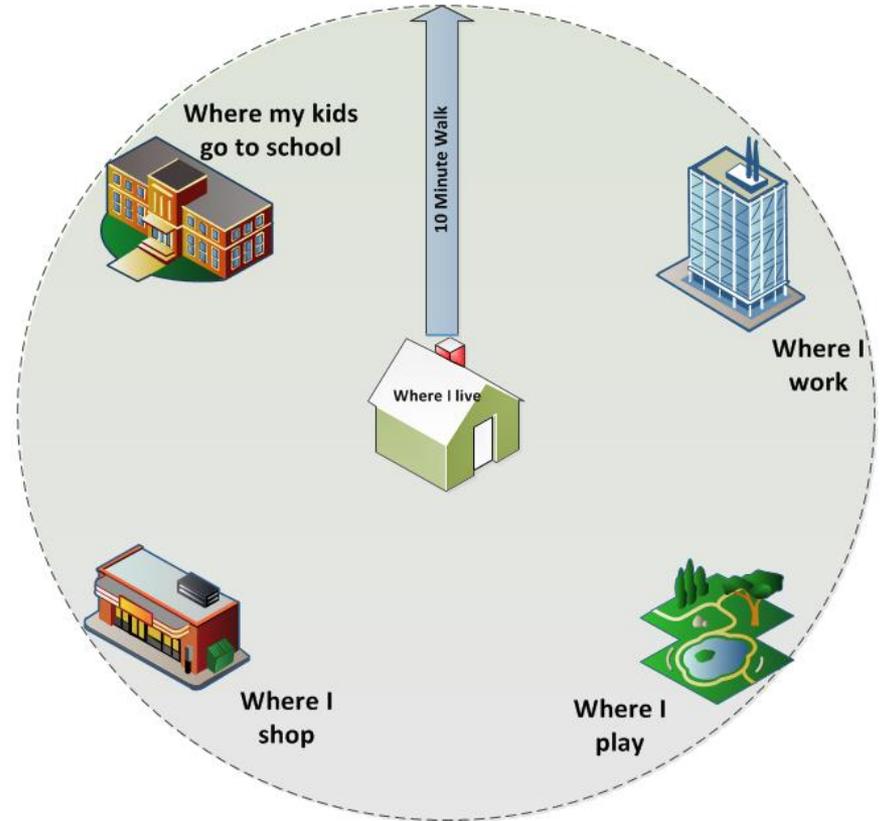


City of Portland, Oregon  
Sam Adams, Mayor • Susan Anderson, Director



# 10 minute neighborhood

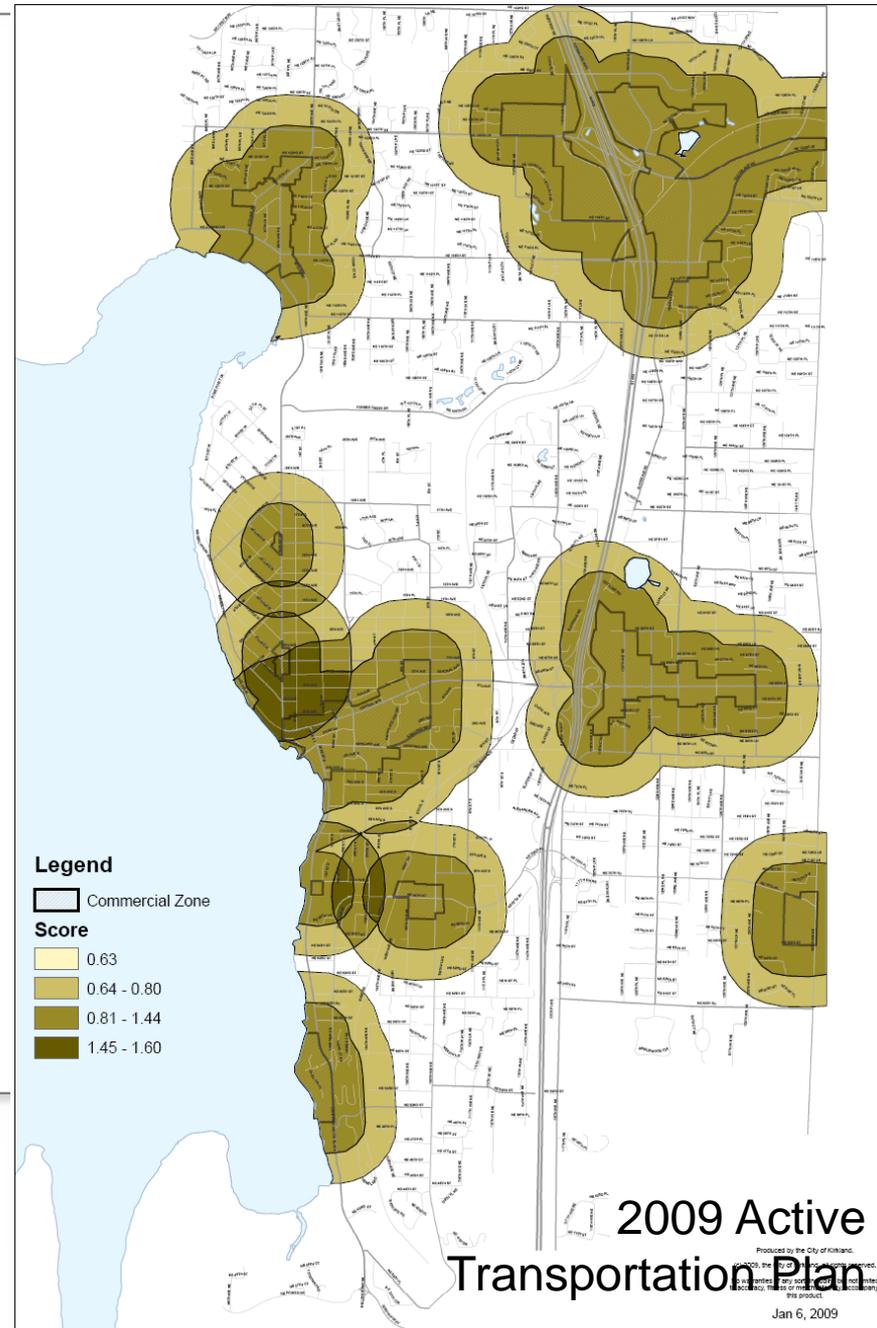
- Map the things that contribute to walkability
  - **Destinations** – need things to walk to
  - **Accessibility** – need to be able to get there
- 10 Minute =  $\frac{1}{2}$  mile walk



The 10 Minute Neighborhood Concept

# Old Methodology

- Old method – simply buffer by distance
- New method – GIS Network Analyst measures actual walk distance
- Starting point – copy Portland & others, then fine tune



# Kirkland Methodology

- Eight Inputs:
  - Grocery stores
  - Type 1 commercial (convenience stores, drug stores)
  - Type 2 commercial (restaurant, bakeries, coffee shops, etc.)
  - Parks
  - Schools
  - Transit
    - Frequent/all day
    - Other
  - Intersections
  - Sidewalks/pathways

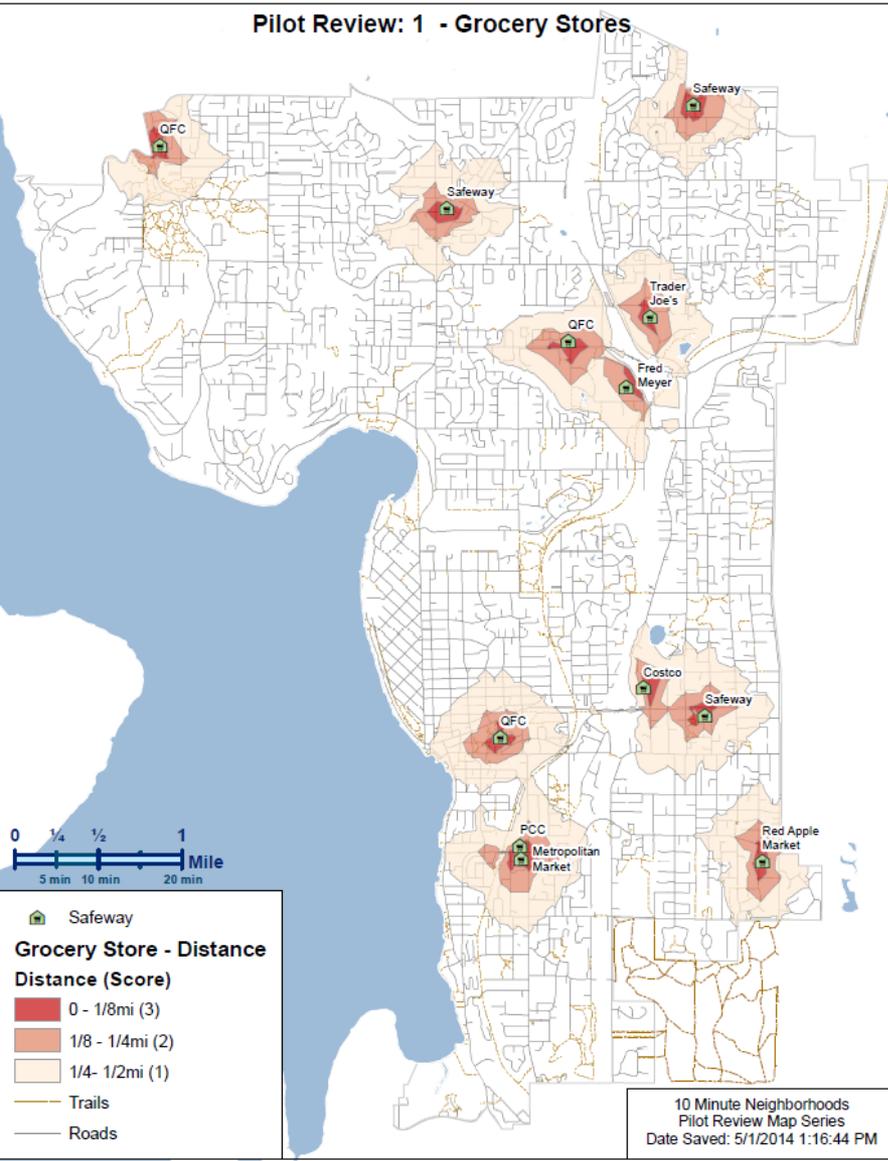


# Kirkland Methodology

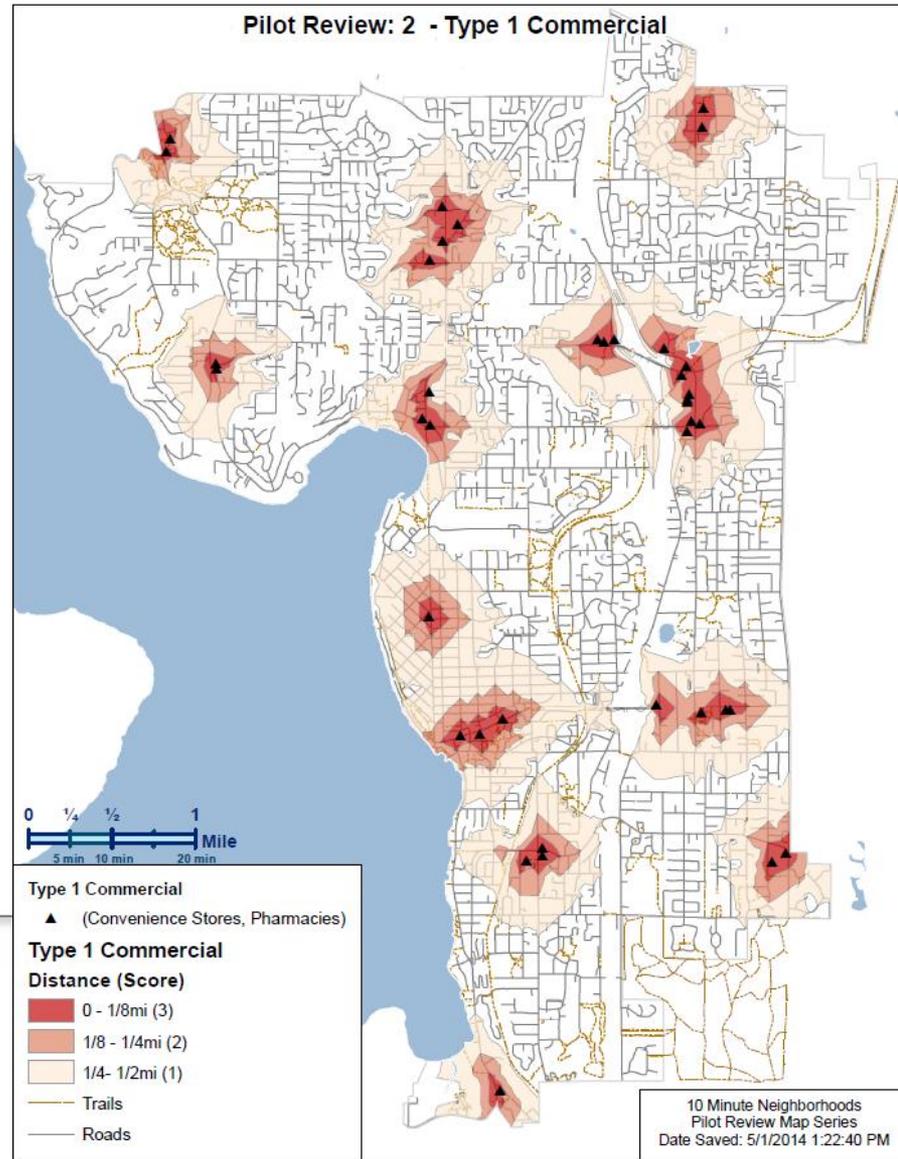
Input	Node/grid	Walk Distance/concentration values
Grocery	Point	1/8 mile=3, 1/4 mile=2, 1/2 mile=1
Type 1 Commercial	Point	1/8 mile=3, 1/4 mile=2, 1/2 mile=1
Type 2 Commercial	¼ mile grid	# occurrences per grid, generalize into 3 categories high=3, medium=2, low=1
Parks	Park entrances	1/8 mile=3, 1/4 mile=2, 1/2 mile=1
Schools	Parcel entrances	1/8 mile=3, 1/4 mile=2, 1/2 mile=1
Type 1 Transit (Routes 255, 245, 235)	Point (bus stops)	1/8 mile=3, 1/4 mile=2, 1/2 mile=1
Type 2 Transit (everything else)	Point (bus stops)	1/8 mile=1.5, ¼ mile=1, ½ mile=.5
Intersections (porosity/connectivity)	¼ mile grid	# occurrences per grid, generalize into 3 categories high=3, medium=2, low=1
Sidewalks	¼ mile grid	Ratio of sidewalk & trails to street length, generalize into 3 categories. high=3, medium=2, low=1

# Kirkland results

Pilot Review: 1 - Grocery Stores



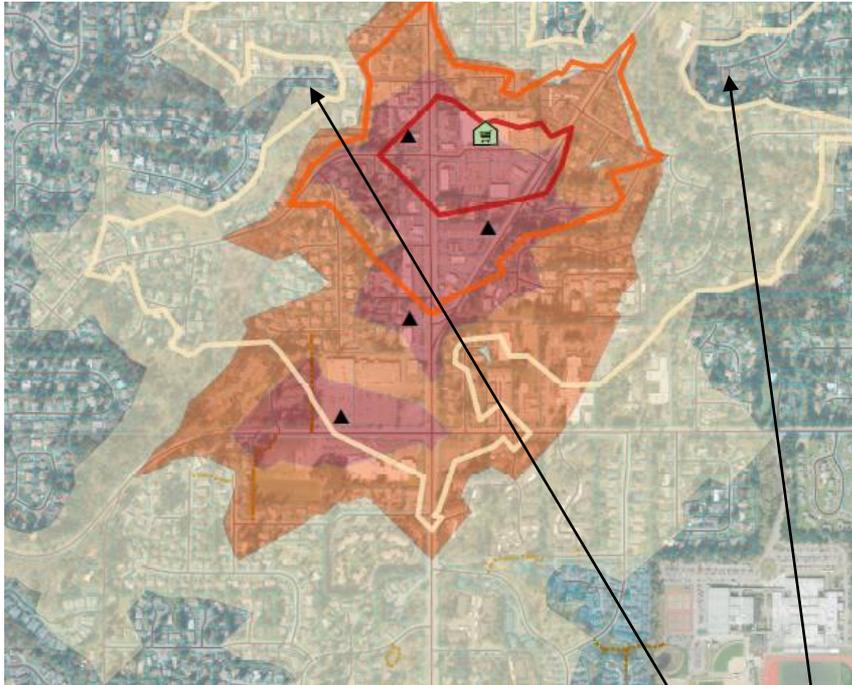
Pilot Review: 2 - Type 1 Commercial



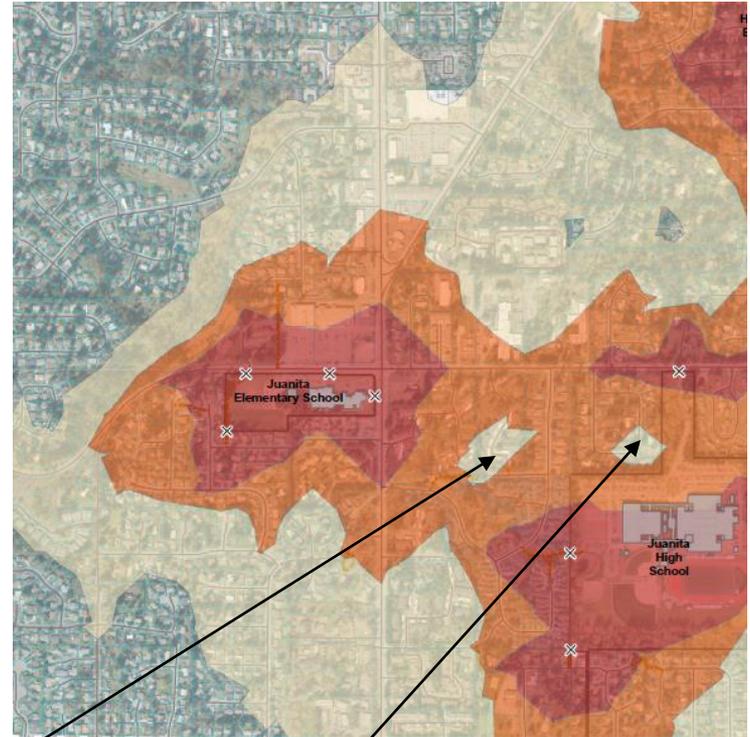


# Patterns

## Grocery Stores



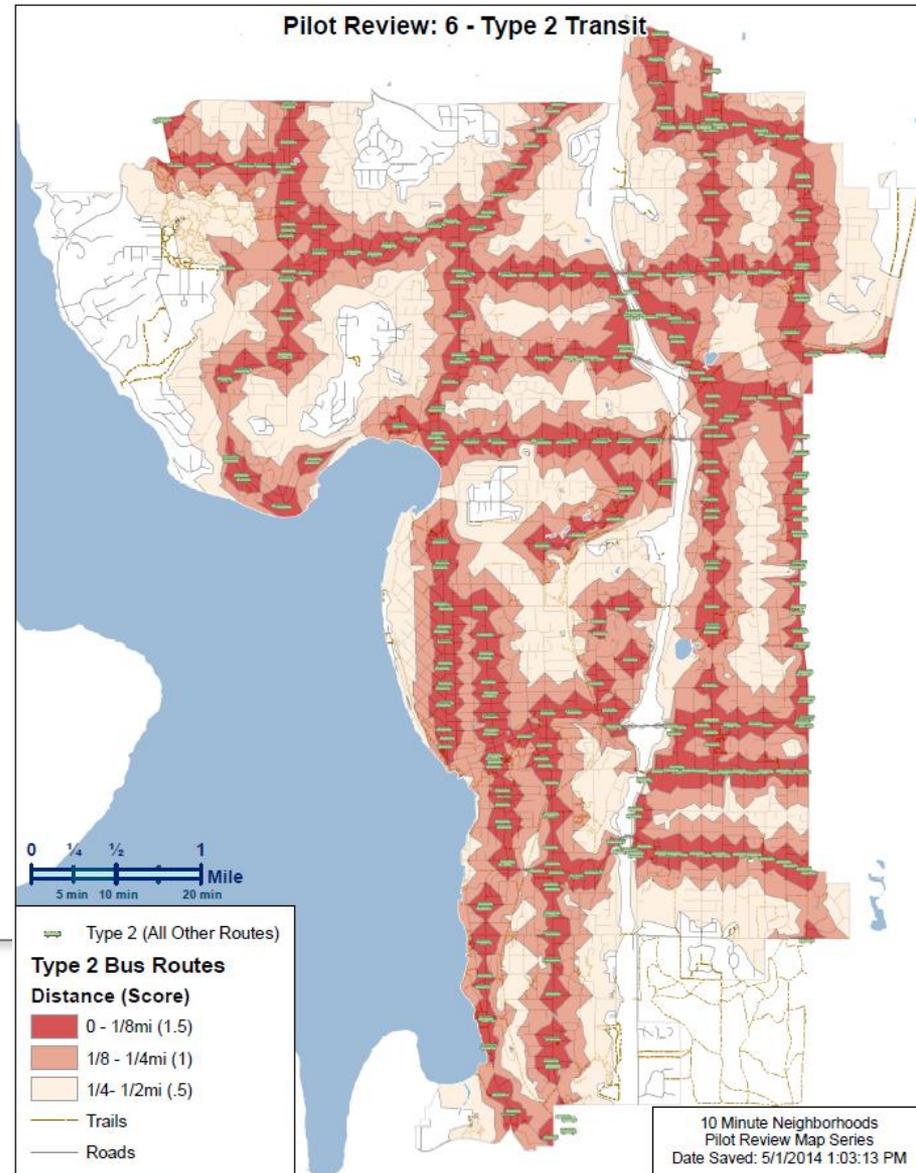
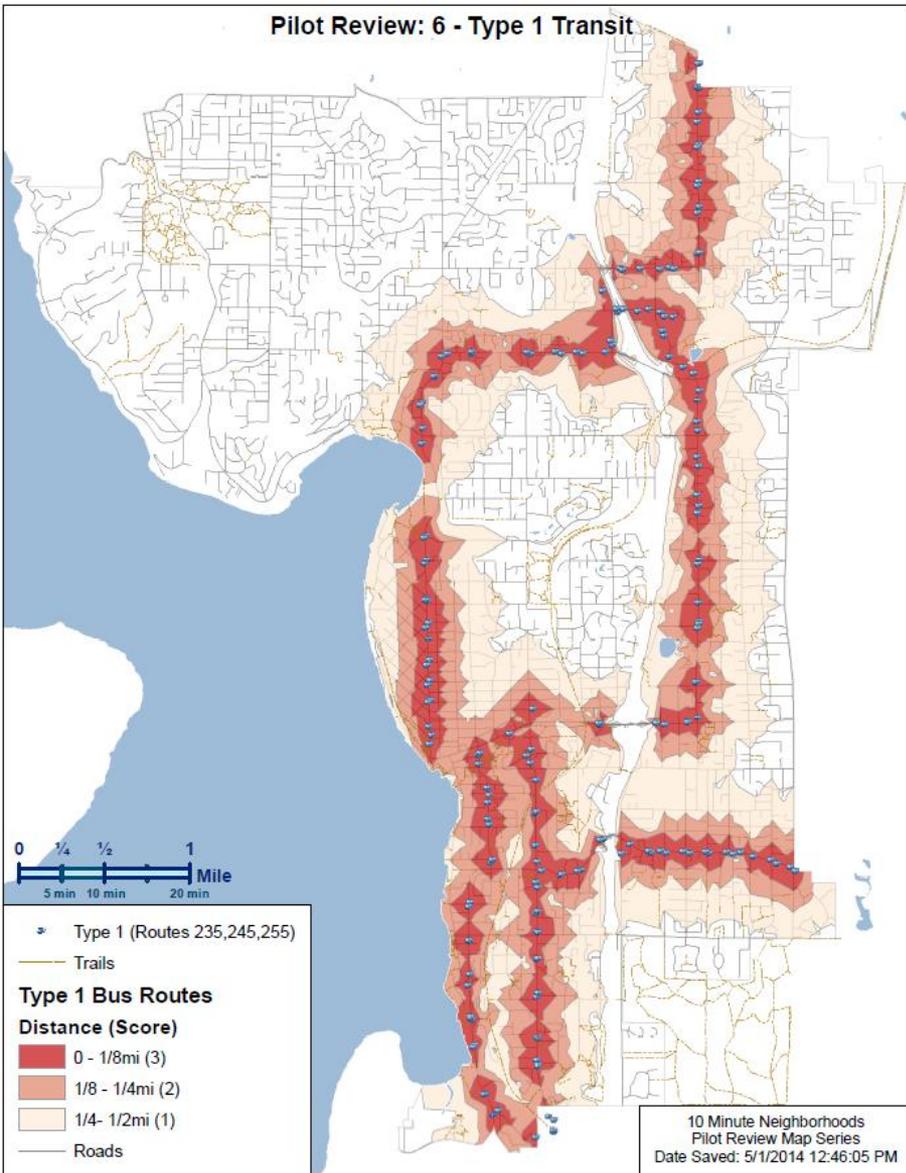
## Schools



- Cul-de-sacs
- Dead end streets
- No ped. connections

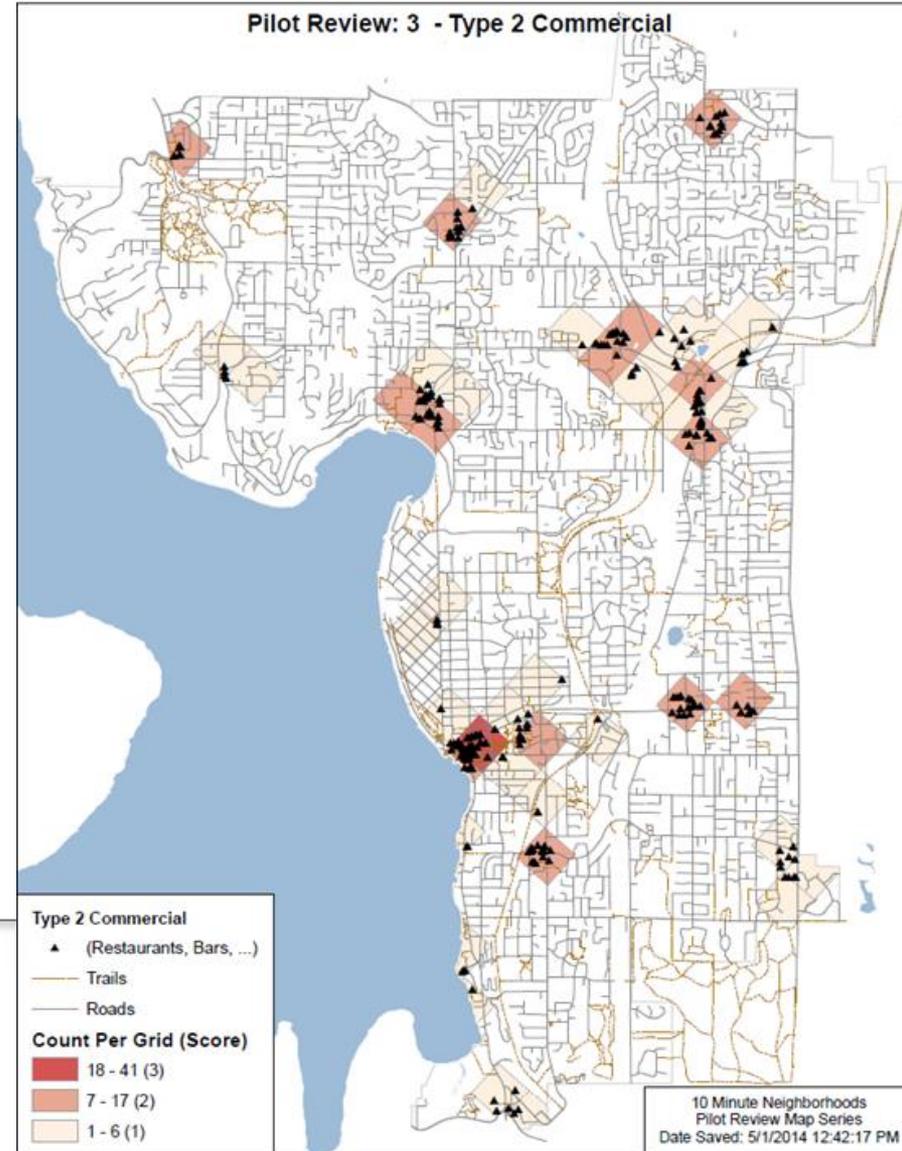


# Kirkland results

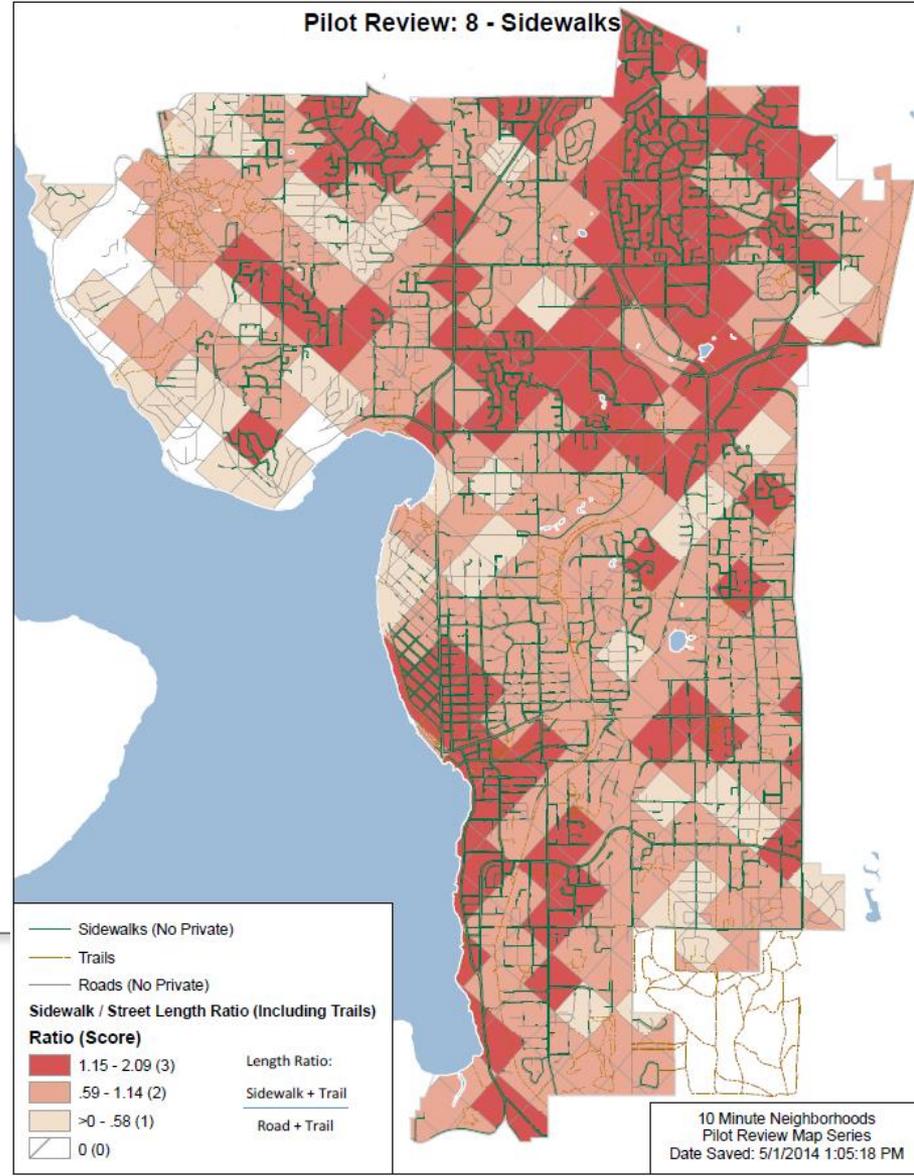
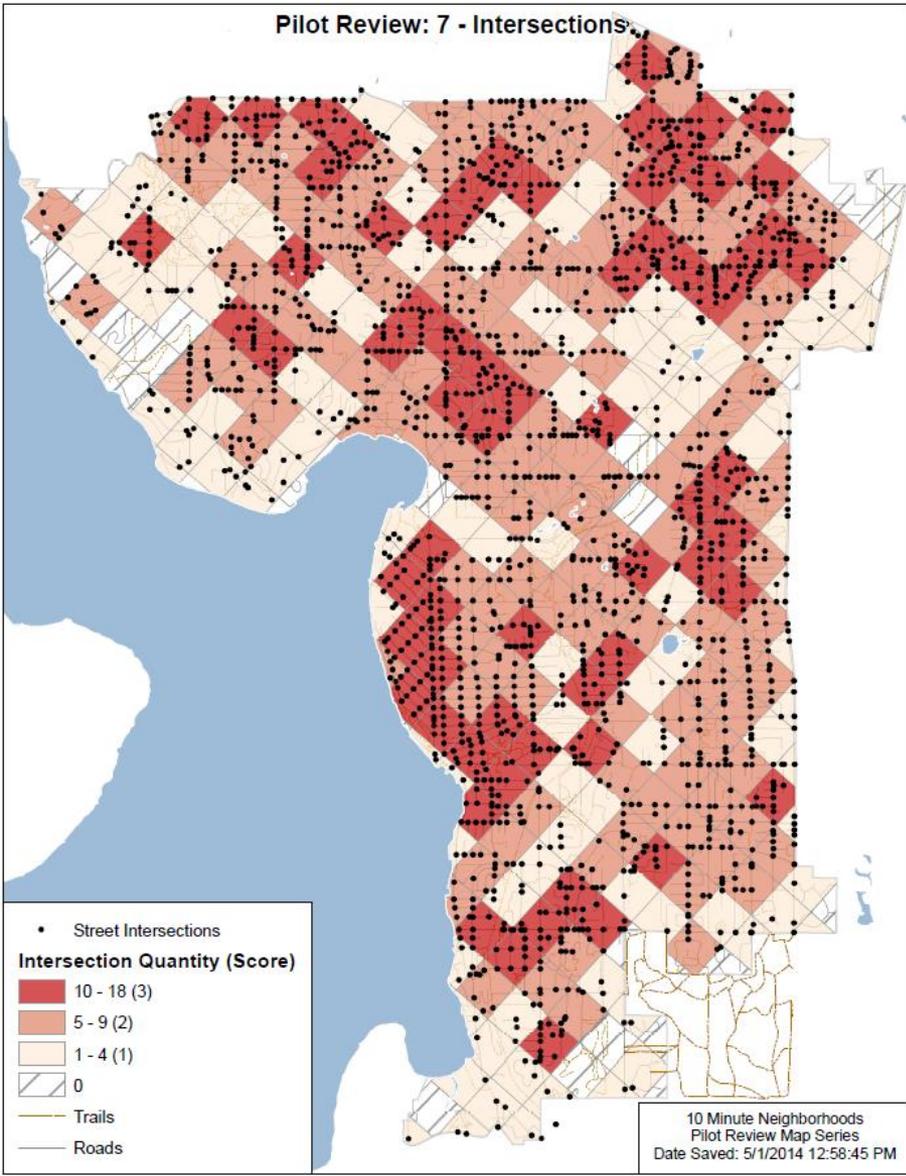


# Kirkland results

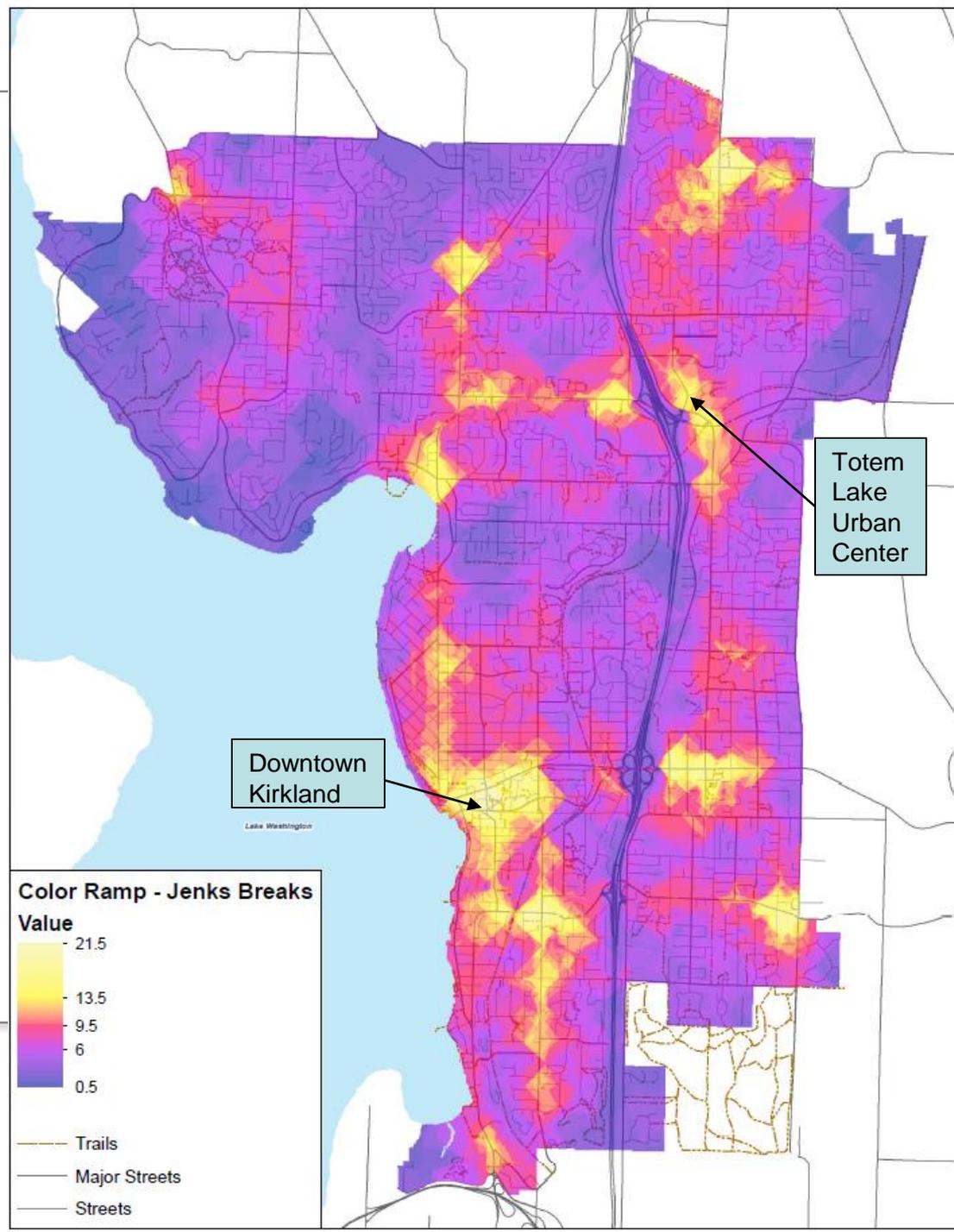
- Concentrations of features



# Kirkland results

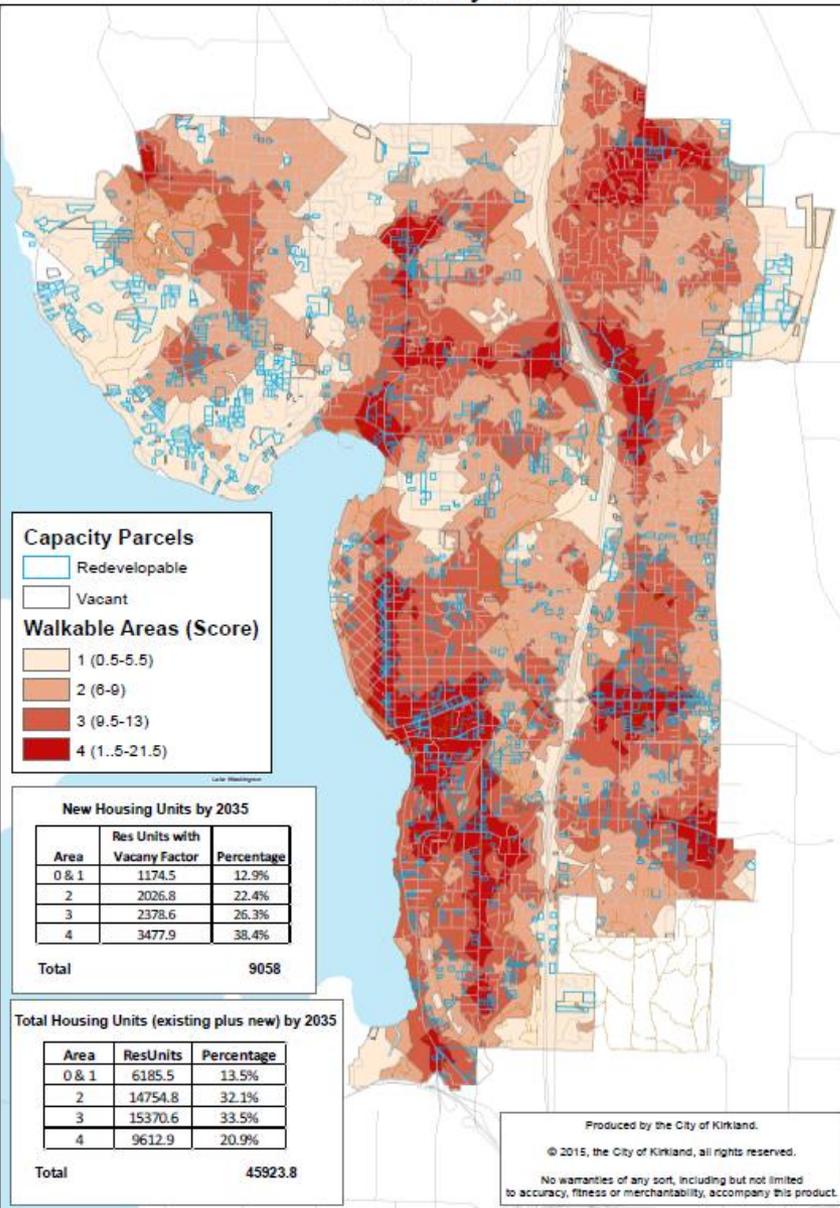


# Composite Scores

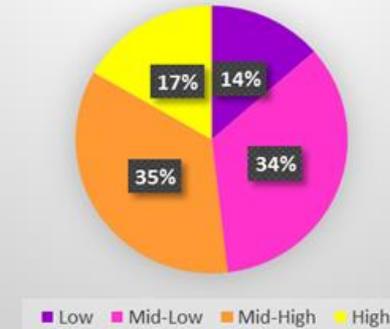


# CITY OF KIRKLAND

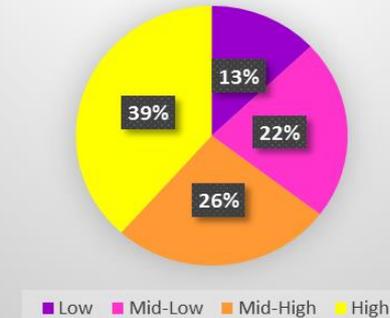
## 2035 Housing Units by 10 Minute Neighborhood Walkability Score\*



## Existing Housing Units by Walkable Score



## New 2035 Housing Units by Walkable Score



## Conclusions:

- New growth trending in right direction
- Total units better, still mid-tier
- Actuals should beat model

# Utility

- Advantages of growth here vs. there
  - What % of population lives in a 10 minute neighborhood now?
  - What % in 2035?
- Prioritize ped./bike infrastructure investment to get the greatest ROI
- Prioritize park land acquisition
- Create new connections to serve the same function as a new facility
- Justify ped. connection requirements



## For more info:

### **Visit:**

[www.kirklandwa.gov](http://www.kirklandwa.gov)

Search “10 minute neighborhood”

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