



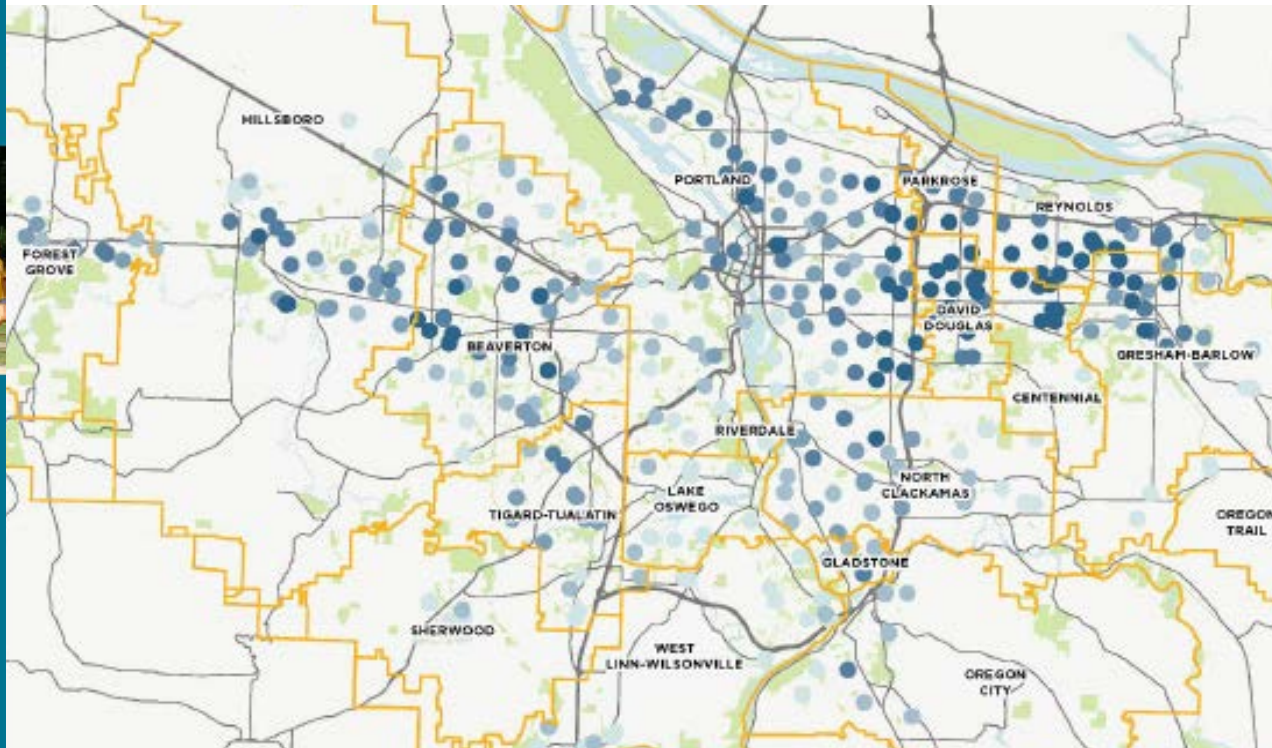
Metro



Regional School Walkshed Tool

Data update & new interactive map tool - February 2023

2016 Regional SRTS School Site Analysis



Oregon Metro

Regional Safe Routes to School Framework

October 2016



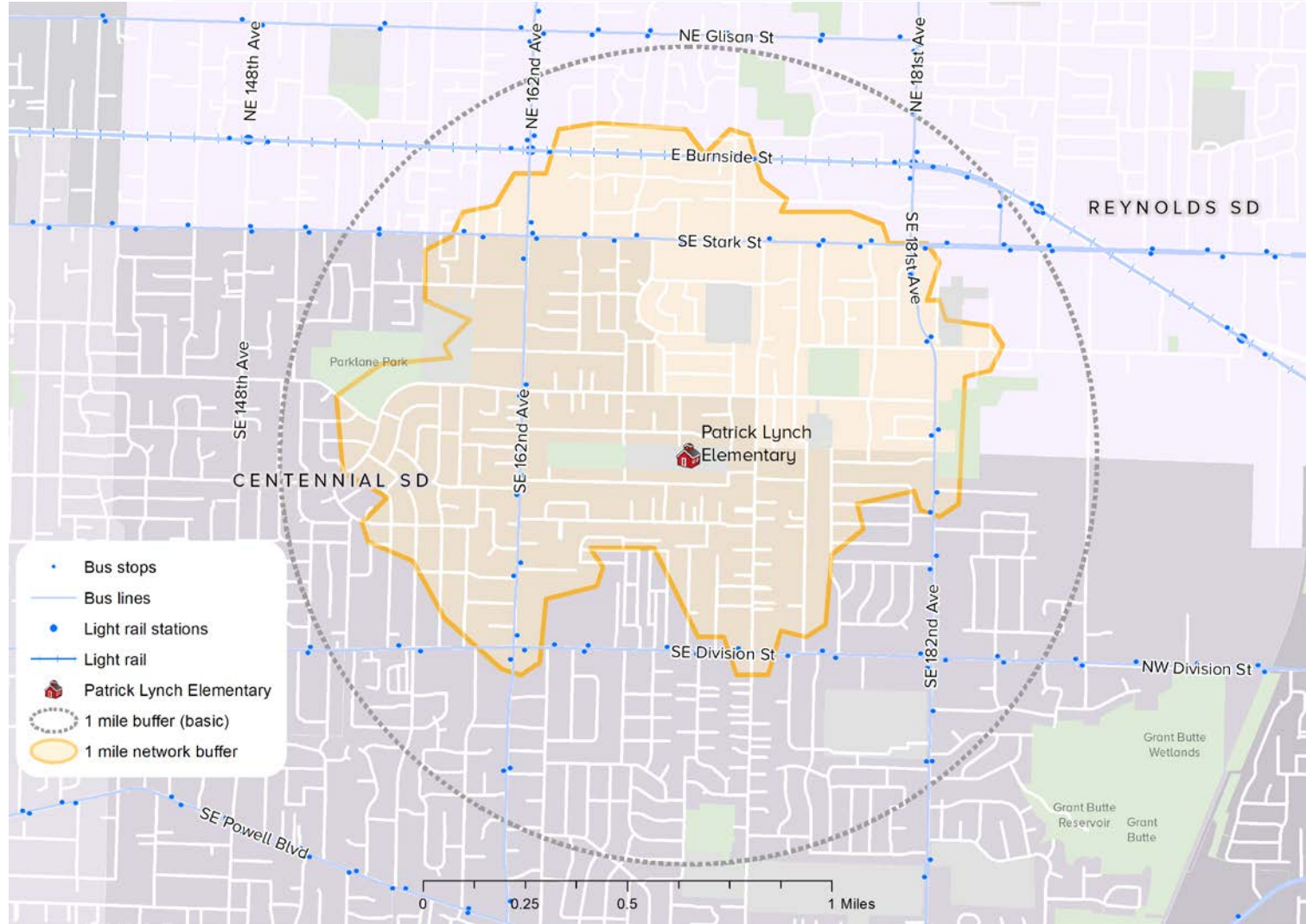
2023 Update: Purpose

- Provide partners with up-to-date school demographic data and traffic safety data to inform local Safe Routes to School programming
- Support partners in grant applications for both programmatic and infrastructure funding.
- Develop a walkshed model that can be applied locally and incorporate additional data analysis based on program or jurisdiction needs

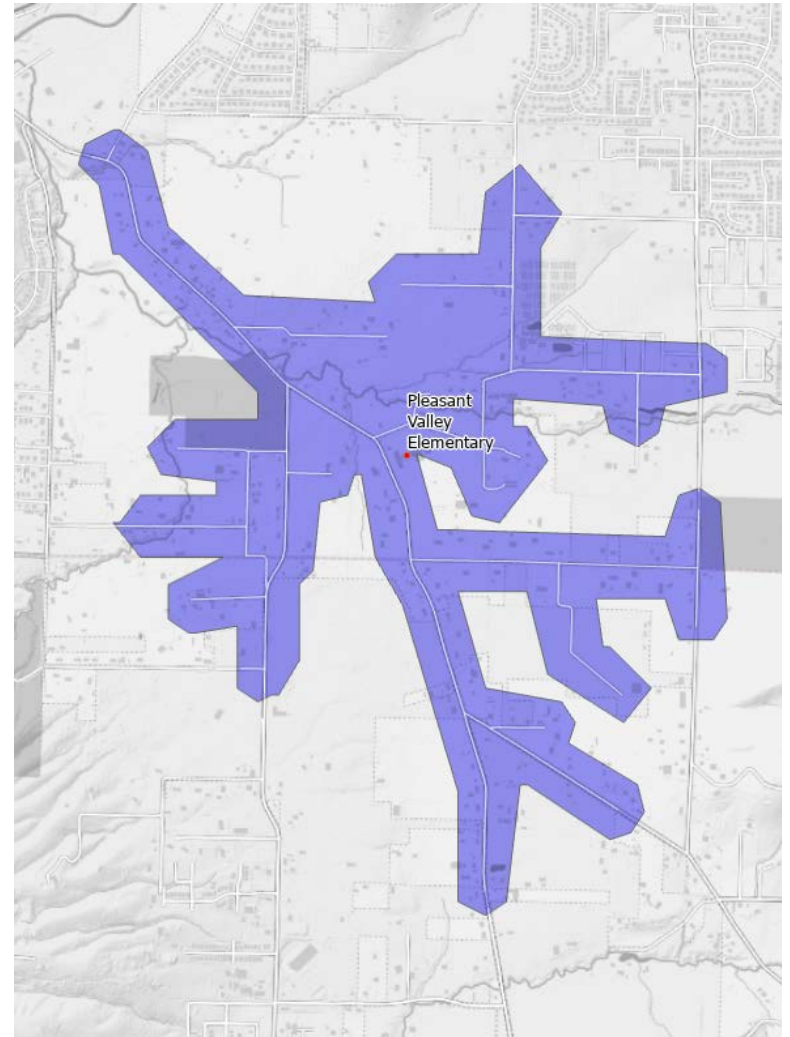
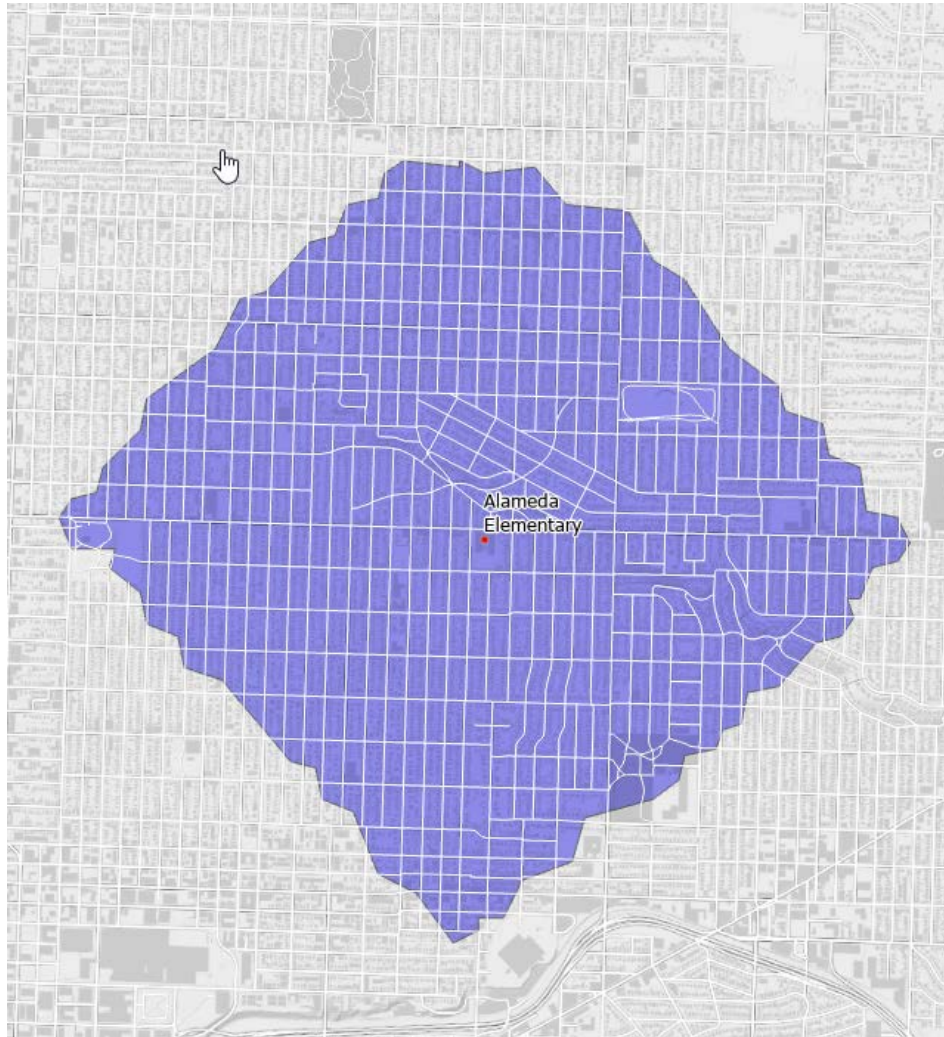
2023 School Walkshed Development

- Development of network dataset walksheds
- Updated data analysis
 - Input of new data & variables
 - Updated methodology
 - Radar chart development
- Creating an interactive map tool for partners to easily view individual school and district data

Introduction of walksheds



Refinement from Network Analysis approach



Updated methodology & new variables

	Variable	Description	Data Source
Equity	1.) Absenteeism (new)	Percent of students chronically absent (students missing 10% or more school days)	ODE – ODOT SRTS (2020-2021)
	2.) BIPOC students	Percent students of color	ODE – ODOT SRTS (2020-2021)
	3.) Disability (new)	Percent of students with a disability	ODE – ODOT SRTS (2020-2021)
	4.) English Learners (new)	Percent of students speaking English as a second language	ODE – ODOT SRTS (2020-2021)
	5.) Income	Percent of low-income students	ODE – ODOT SRTS (2020-2021)
Safety	6.) Barrier Streets	Miles of streets within school walkshed considered a barrier (>2 lanes OR > 35 mph, OR >2,500 peak PM traffic volume)	Metro (2015)
	7.) Crashes	Crashes within school walkshed calculated using Metro High Crash Corridor methodology: (All fatal and serious injuries within school walkshed x 10 + all bike/ped collisions x 3) (new methodology)	Metro/ODOT (2016-2020)
	8.) Missing Sidewalks	Percent of non-freeway streets with sidewalks (one or both sides) within school walkshed*	Metro (2022)

Methodology: Quintile Scores

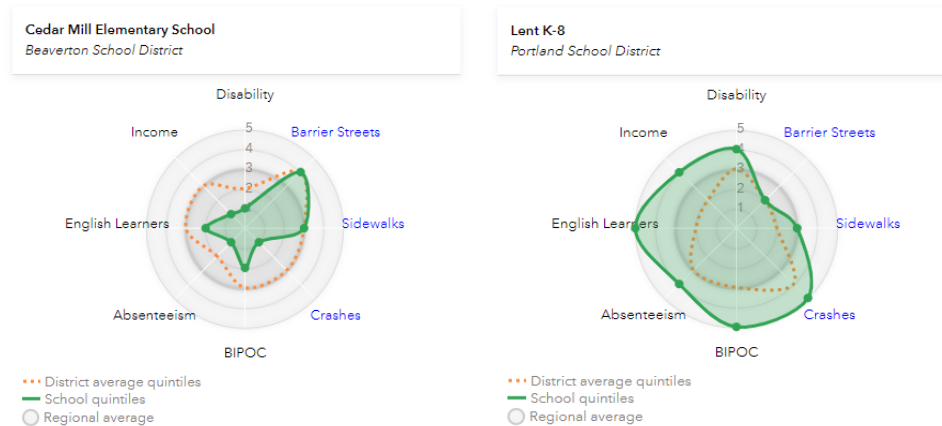
- Each school received a quintile score for each variable
 - A quintile places the data into 5 equal groups based on percentile, for example:

1	2	3	4	5
0% - 20%	20% - 40%	40% - 60%	60-80%	80%- 100%

- An 'overall score' was calculated for each school, which is a sum of each quintile for all 8 variables
- An average 'overall score' was calculated for each district to compare schools within their district

Visualizing Quintiles with Radar Charts

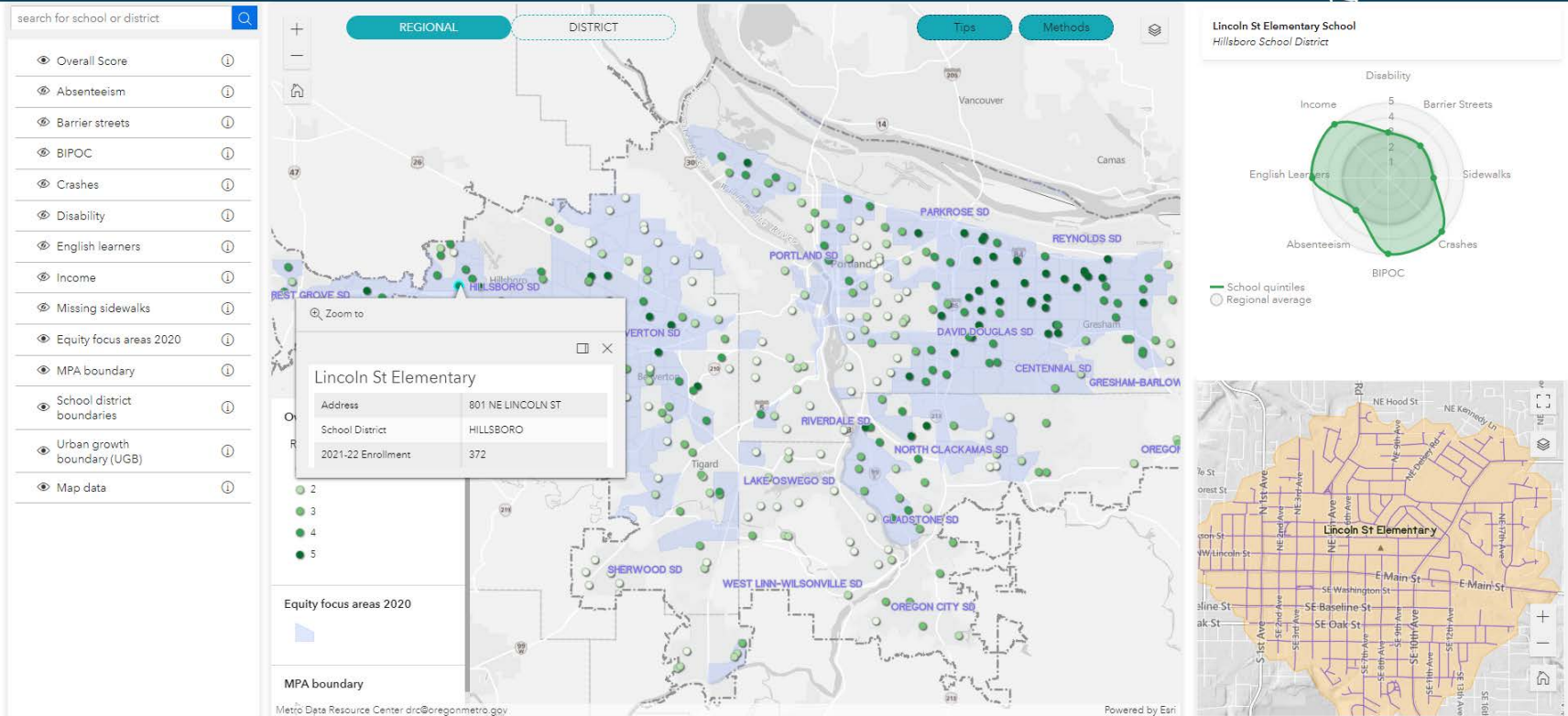
Radar/spider charts are good at showing outliers and commonality across a set of dimensions.



In the web application, they allow users to quickly interpret and compare quintile scores among schools and districts.

New interactive map

Regional Safe Routes to School Walkshed Analysis



<https://gis.oregonmetro.gov/schoolwalksheds/>

oregonmetro.gov

