CENTRAL PUGET SOUND REGION OPEN SPACE ASSESSMENT TOOL

Developing A Multi-Criteria Ecosystem Services
Based Decision-Support Tool

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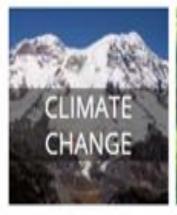


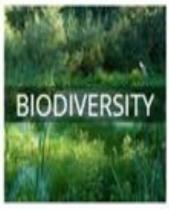




Prioritizing Investment in Open Space Protection at a Regional Scale

Regions Biggest Challenges











Interconnected System

Open Space is more than just parkland and forests. It's the systems that supports a treasured way of life in the Puget Sound Region.







WATER



WORK



PLAY



ENERGY



MATERIALS



CULTURAL



AESTHETIC



FOOD



SHELTER



HEALTH



TRANSPORT



WASTE



DISASTER MITIGATION



EDUCATION

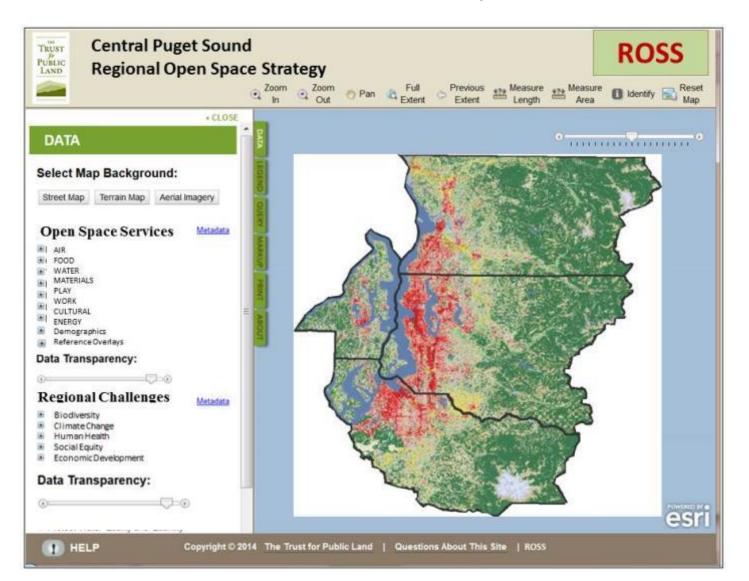


COMMUNITY

Snapshot of TPL Prototype Portal



Snapshot of TPL Prototype Portal



Metrics + Functionality

METRICS:

- Open Space Services Metrics: Rule of Thumb
- Regional Challenges Metrics: Weighted Criteria

FUNCTIONALITY:

- Rank lands by highest/lowest performance
- Report cards by County, WRIA + specific geographies using multiple indicators
- Query multiple metrics + baseline conditions using multiple indicators

Narrative 1: Water + FEMA Flood Hazard

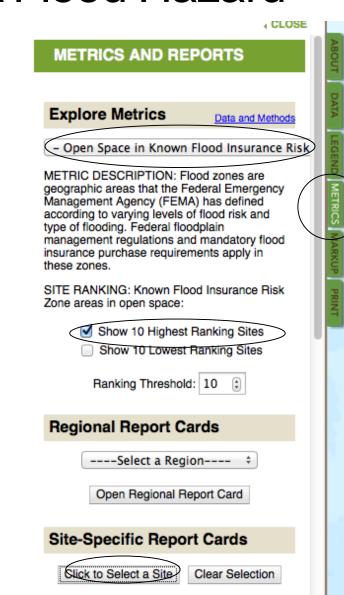
Highlight Open Space Service Water Metric:

Flood Hazard Zones

Explore Metrics:

- Under Metrics Tab
- Choose a Metric: select Open Space in known Flood Insurance Risk Zone.
- Show highest/lowest ranking sites
- Select specific site to report on

Result: Metrics Report Card



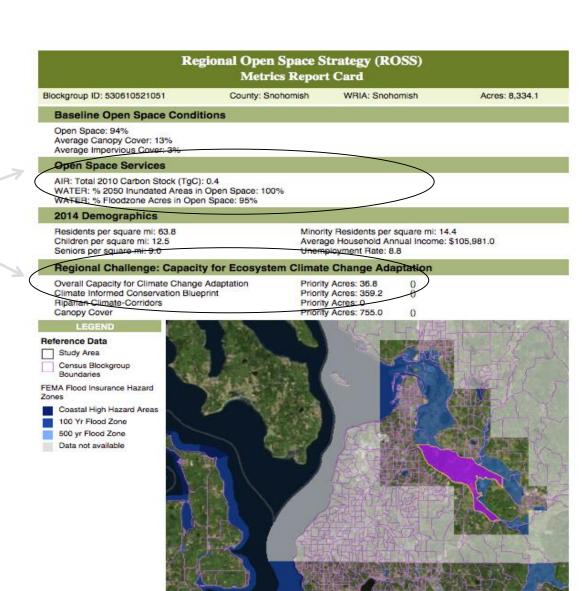
Report Card

Highlights site architecture:

- Baseline Opens
 Space Conditions
- Open Space Services
- **Demographics**
- Regional

Challenge: Climate Change Adaptation

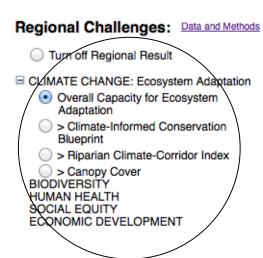
Illuminates: the results indicate location where open space could be effective in mitigating flood hazard AND risk to existing infrastructure

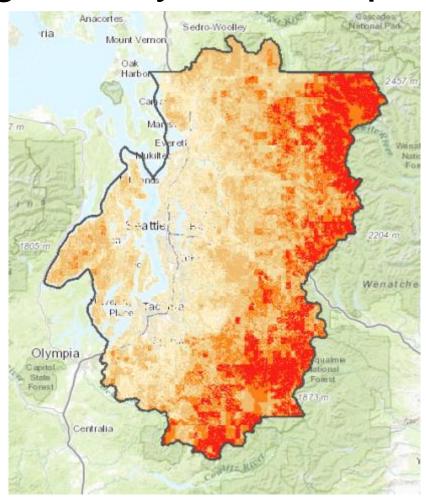


Narrative 2:

Climate Change Ecosystem Adaptation

Highlights Regional Challenge approach

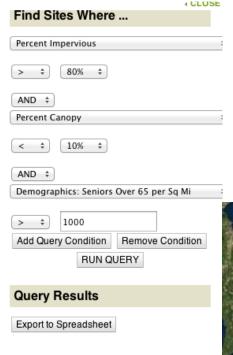




Query:

- High impervious surface
- Low canopy cover
- Percent of sensitive population (seniors)

Result: Visualization and listing of all properties meeting specified criteria





Zooming in

Report card on specific vulnerable area

Potential Action: Use data to show vulnerability in the face of climate change factors.

Regional Open Space Strategy (ROSS) Metrics Report Card

Blockgroup ID: 530610407001 County: Snohomish WRIA: Snohomish Acres: 68.6

Baseline Open Space Conditions

Open Space: 9% Average Canopy Cover: 0% Average Impervious Cover: 86%

Open Space Services

AIR: Total 2010 Carbon Stock (TgC): 0.0 WATER: % 2050 Inundated Areas in Open Space: 0% WATER: % Floodzone Acres in Open Space: 0%

2014 Demographics

Residents per square ml: 16,641.9 Minority Residents per square ml: 4,831.1
Children per square ml: 373.1 Average Household Annual Income: \$27,363.0
Seniors per square ml: 1,053.9 Unemployment Rate: 6.9

Regional Challenge: Capacity for Ecosystem Climate Change Adaptation

Overall Capacity for Climate Change Adaptation Priority Acres: 0
Climate Informed Conservation Blueprint Priority Acres: 0

LEGENE

Reference Data

Study Area

Census Blockgroup Boundaries

FEMA Flood Insurance Hazard Zones

Coastal High Hazard Areas 100 Yr Flood Zone 500 yr Flood Zone

Data not available



This report was created on March 31, 2015 using the Regional Open Space Strategy (ROSS) site.

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A COLLECTIVE VISION



Credits

- Bullitt Foundation
- Russell Family Foundation
- US Forest Service
- Boeing Corporation
- University of Washington Green Futures
 Lab
- Trust for Public Land
- Puget Sound Regional Council