



Suprita Sharad Bhomkar

Program-

Software Engineer



Database Administrator

Salmon Recovery

UW Tacoma MSBA Team A4

With the WA Department of Natural Resources



Anderson Kim

Business
AnalystIntelligence



Kelley RobertsProject

Manager

Project Overview

Problem

Washington's salmon are in trouble. The salmon population is declining with local population endangered and threatened.

Situation

Washington's salmon are still declining after over \$1billion and 20 years of recovery effort. Funding to address this issue does not match the need.

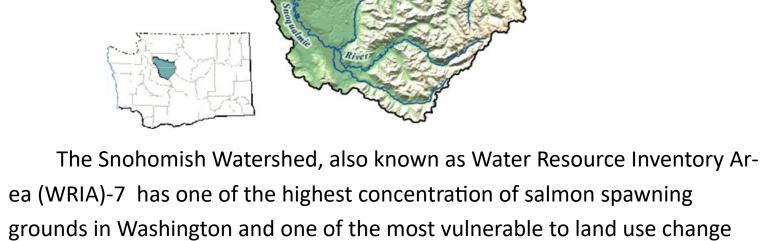
DNR is leading the state governor's salmon recovery effort. This is a coordinated effort conducted at many levels with counties, tribes, federal agencies and others contribute who contribute.

Scope

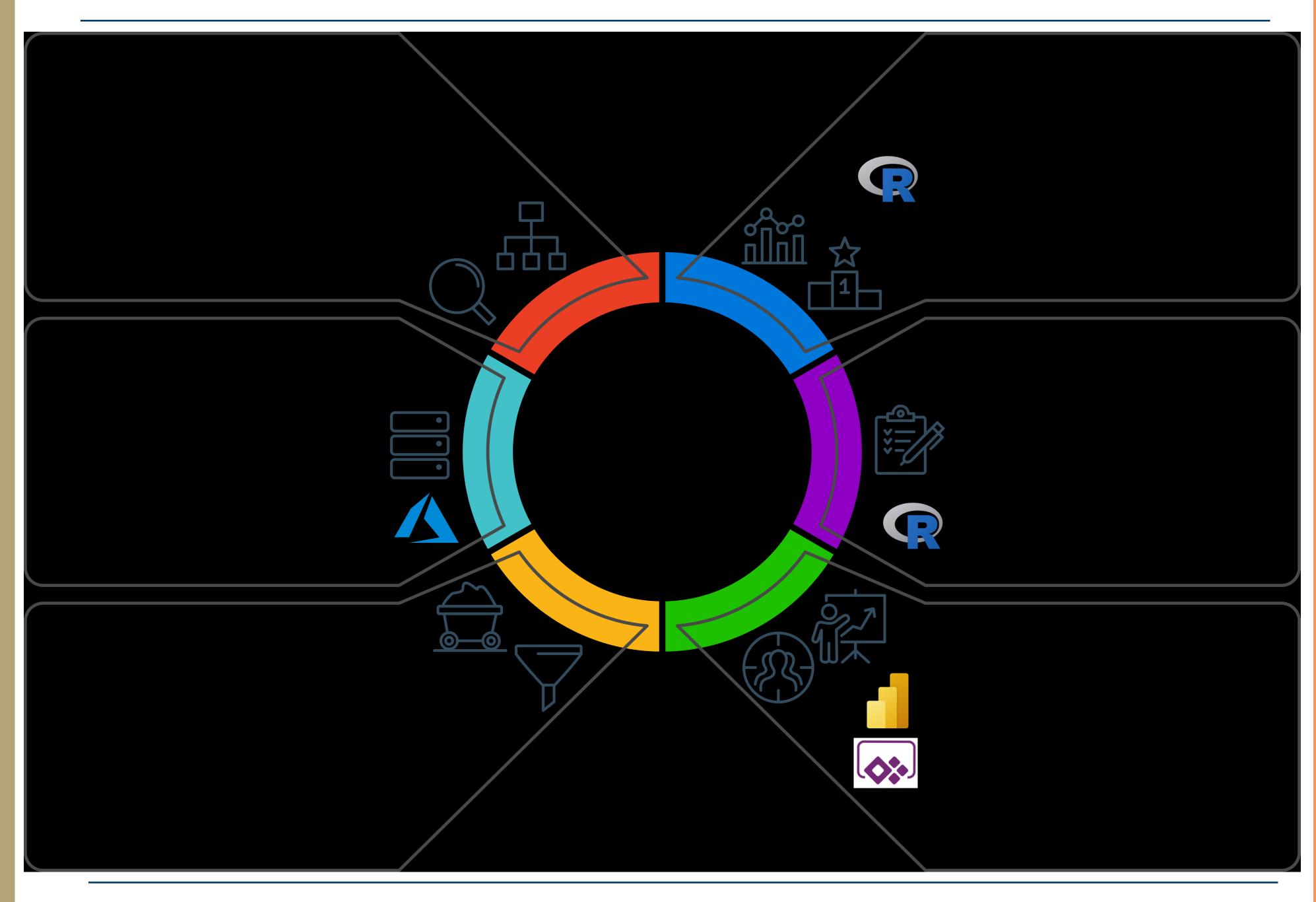
The consultant team seeks to identify Small Forest Landowner's (SFLO's) at risk for land use change or conversion in Water Resource Inventory Area (WRIA) 7.

The recovery effort within WRIA 7 will serve as a model for the large-scale approach.



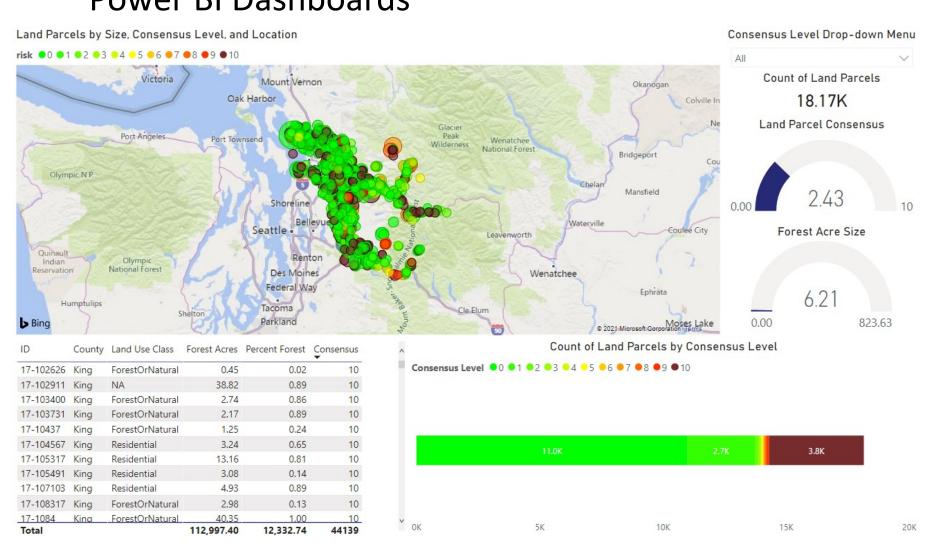


and encroachment on riparian zones. WRIA 7 is the pilot WRIA for DNR's

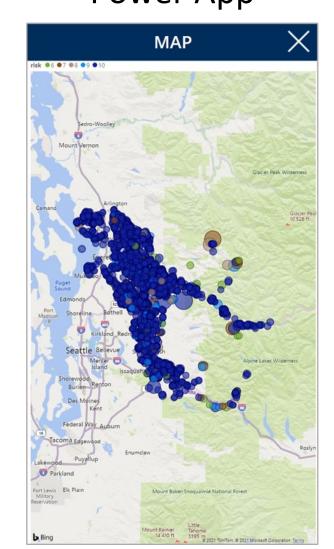


ResultsVisualization tools

Power BI Dashboards



Power App



Recommendations

Use visualization tools to help manage resource allocation

- Identify SFLO parcels at risk for land use change
- Use SFLO parcel data to deploy resource offerings
- Expand to analyze SFLO parcels in watersheds statewide
 Continue collaboration with UW School of Environmental
 and Forest Sciences
- Follow research scientists' methods to acquire new and updated data

Maintain model and dashboards

- Review the model fit
- Update and add new data

Leverage community resources

- Combine WA state tech. and salmon culture to innovate salmon recovery efforts
- Consider sponsoring local events like case competitions and hack-a-thons
- Follow-up with an UW Tacoma MSBA Applied Project next year

References

Area Map- Washington Department of Fish & Wildlife snohomish WRIA7 county map - Bing images Map Details (wa.gov)

Washington State Department of Natural Resources. (2017). At-a-Glance A Quick Look at the Department of Natural Resources. Washington State Department of Natural Resources.

Salmon Icons from Stateofsalmon.wa.gov

Sergey Rabotyagov, Ph.D., Luke Rogers, Jeffery Comnick, et. al. (2019).

sflos_ea_with_county_geos_newvars_mnlvars_snohomish.Rds, model_vars_new_snohomish.Rds,

LU_models_from_2019_cleaned_snohomish.R, [Snohomish County parcel data]. UW School of Environmental and Forest Sciences: Luke Rogers.

