USING B-IBI TO IDENTIFY PUGET SOUND WATERSHEDS FOR RESTORATION AND PROTECTION

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King County

Department of Natural Resources and Parks Water and Land Resources Division Salish Sea Ecosystem Conference

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B-IBI: PSP Vital Sign Indicator



Ecosystem Recovery Targets

Freshwater Quality B-IBI Targets by 2020: PROTECTION - All stream drainage areas retain "excellent" RESTORATION - 30 basins improve from "fair" to "good"





State of the Sound

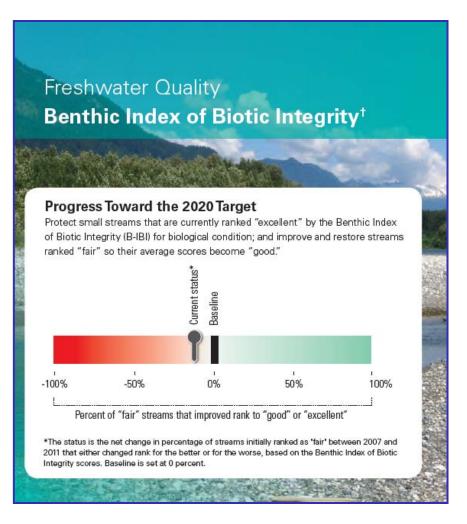
PugetSoundPartnership

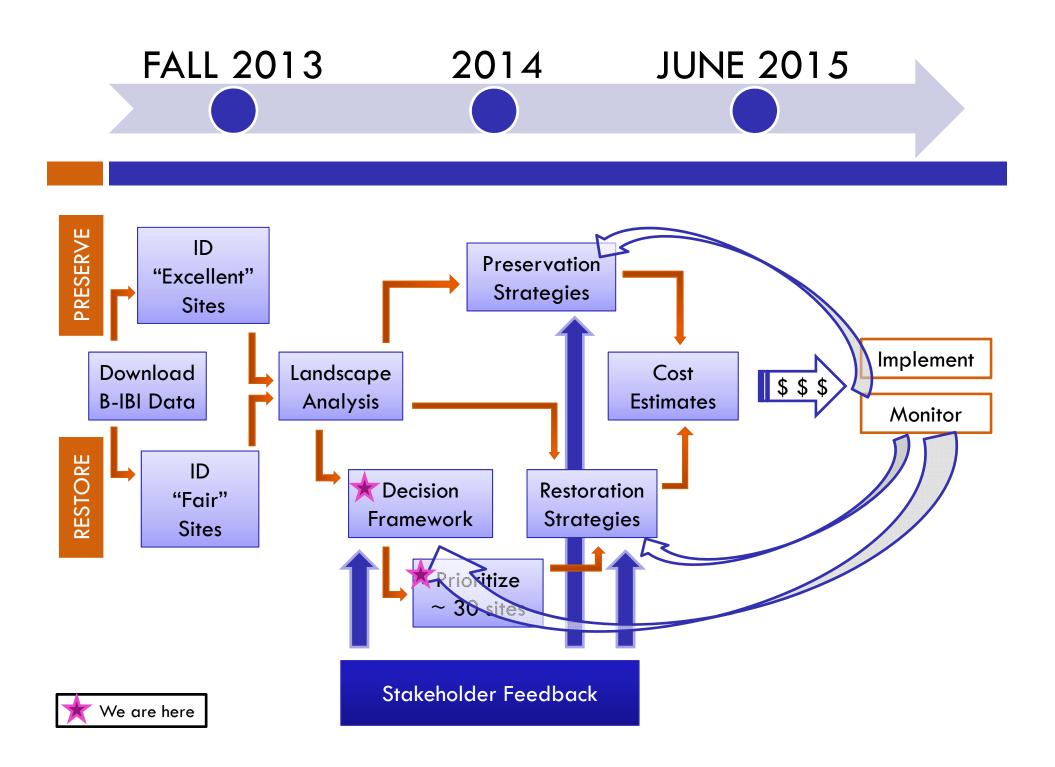
LEADING PUGET SOUND RECOVERY

On the ground progress towards targets: none

Funding for King Co. to prioritize basins & develop strategies (this project)

Currently no funding for restoration & protection implementation or effectiveness monitoring





Download B-IBI Data:

www.pugetsoundstreambenthos.org

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"Excellent" Sites (\geq 42) = Protection

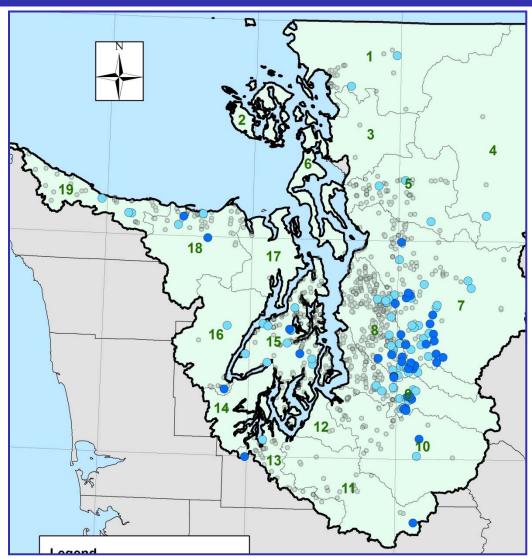
"Excellent" scores

● ≥ 46

<u>
 > 42 and <46
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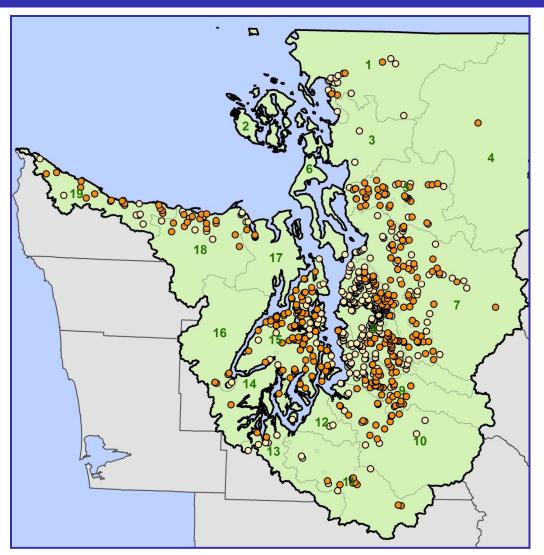
121 sites scored
"excellent" at least once
35 sites had a median
"excellent" score
33 sites averaged

"excellent"



"Fair" Sites (28-36) = Restoration

- "Fair" average
 "Fair" at least once
 648 sites scored "fair" at least once
 454 sites with median "fair" scores
 428 sites averaged
 - "fair"



Restoration Decision Framework

Filtering

Applied first. Criteria used to reduce number of sites considered.

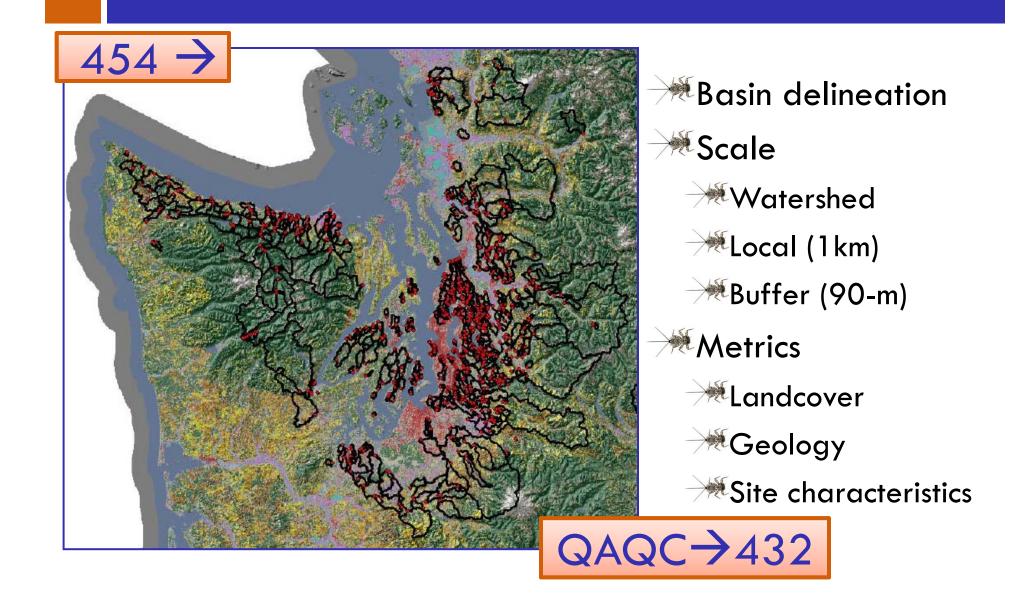


<u>Ranking/Scoring</u>

Applied after filtering. Uses a cumulative ranking to assess the criteria and assign a score to each site so that the sites can be prioritized.

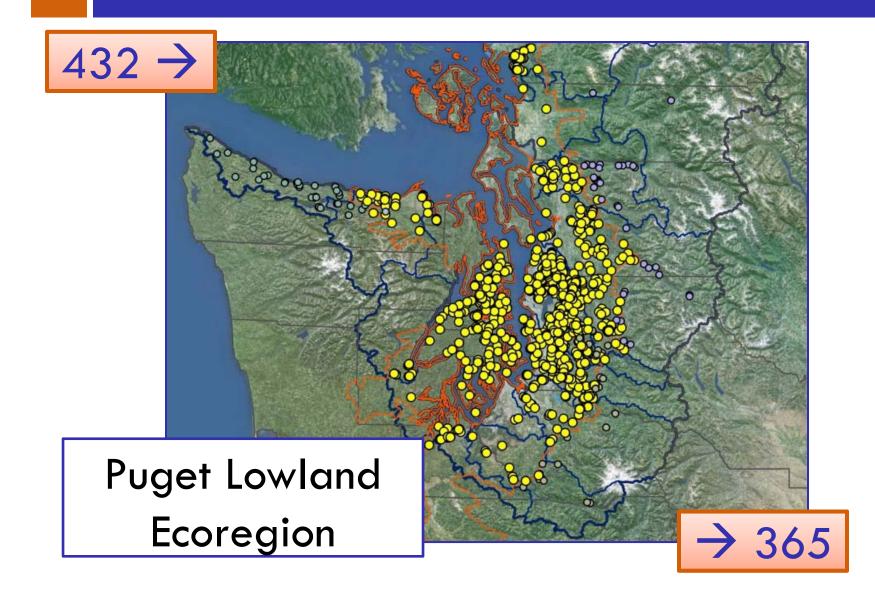
	SITE 1	SITE 2	SITE 3
Watershed Context	2	1	0
Biotic Potential	2	2	1
OVERALL SCORE	4	3	1

Landscape Analysis

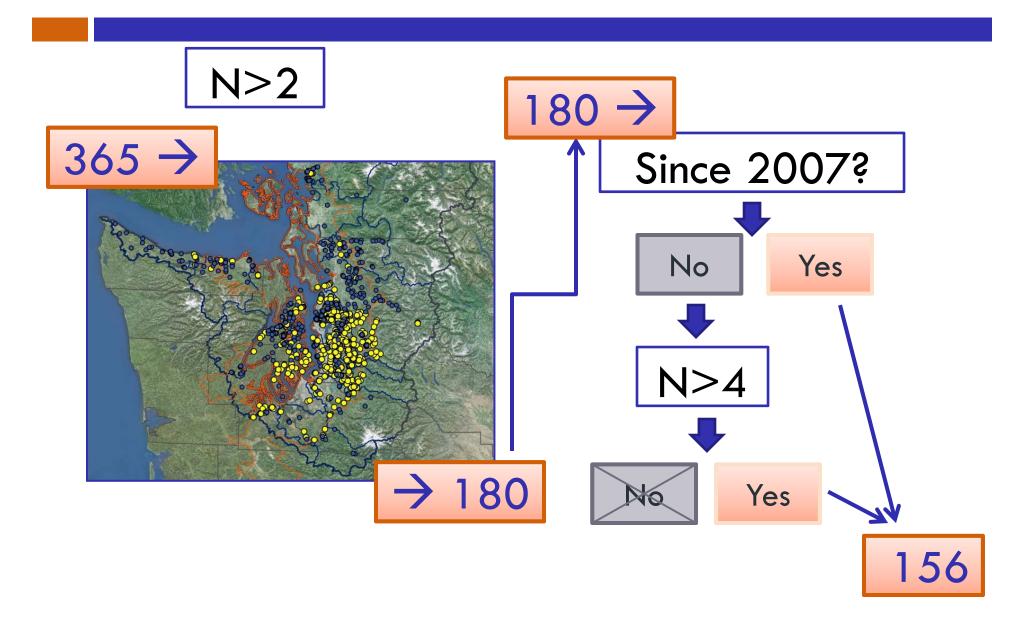


Initial Filters: Ecoregion

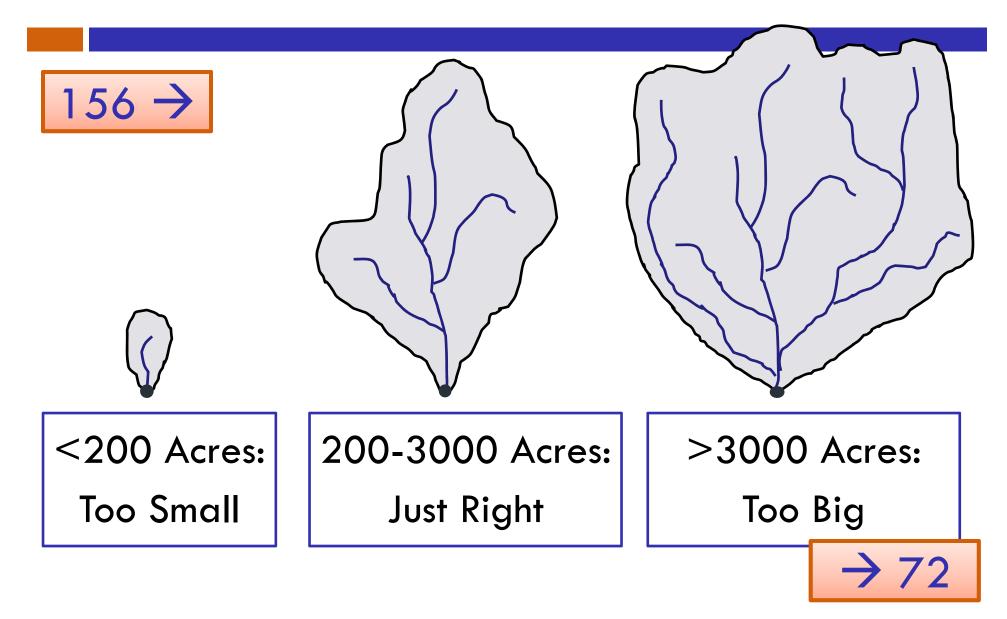




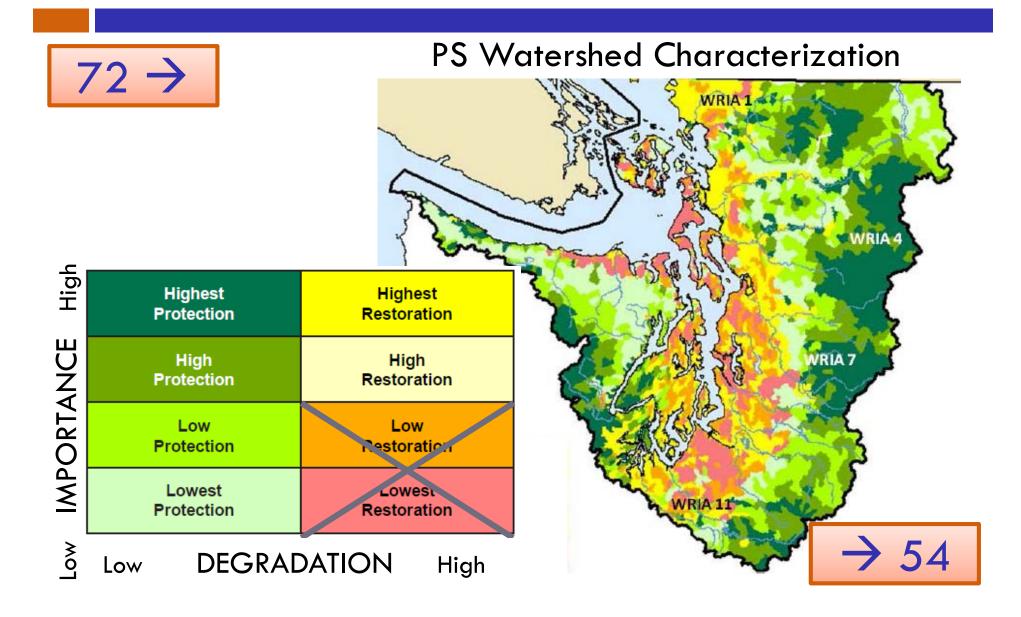
Initial Filters: Sampling History

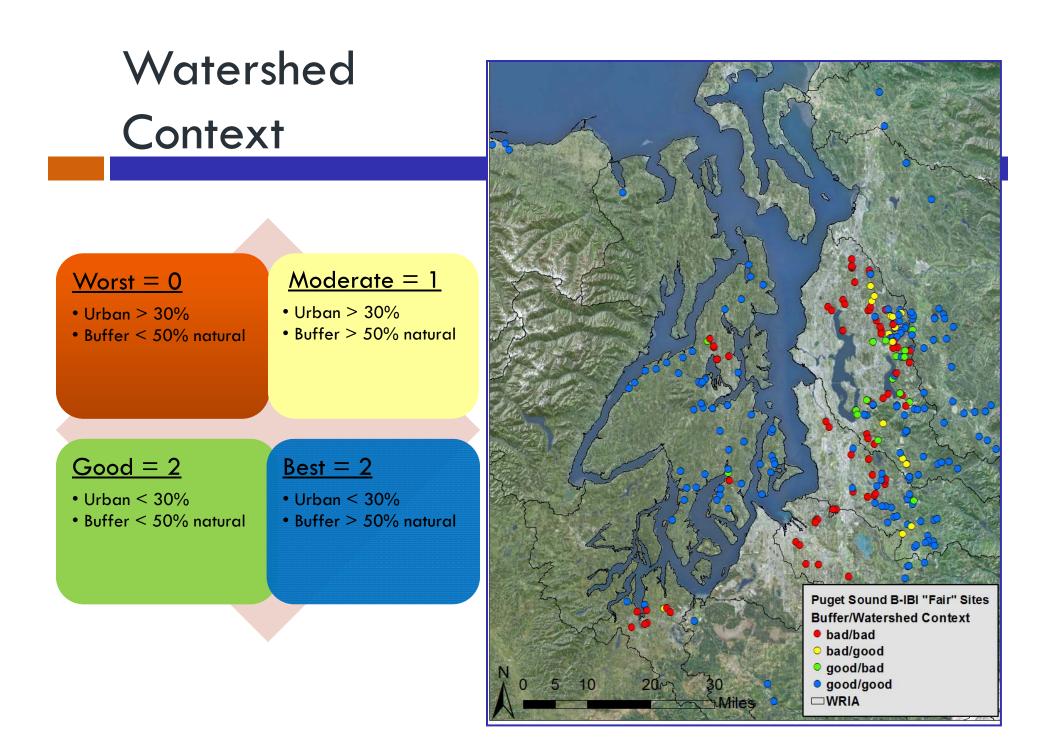


Initial Filters: Watershed Area

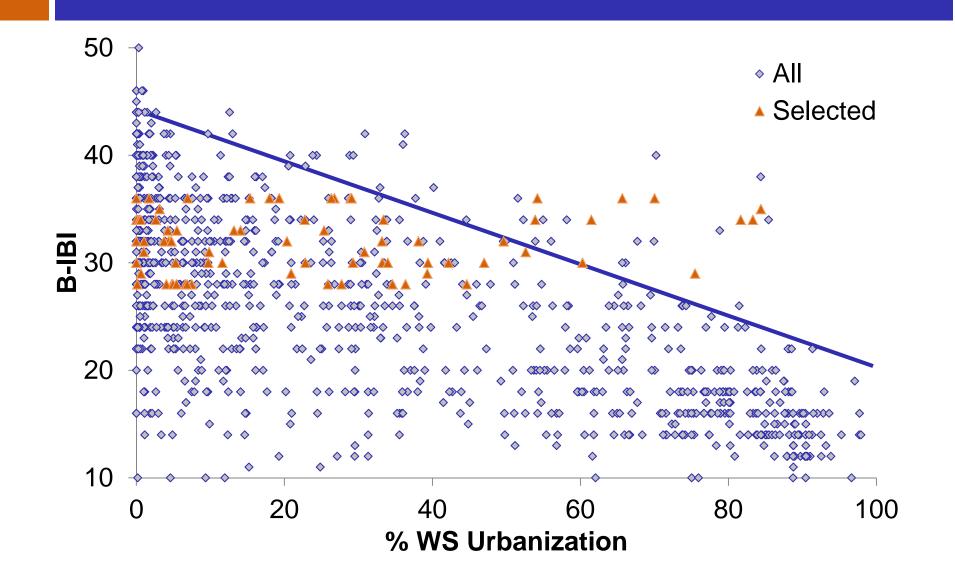


Initial Filters: PSWC

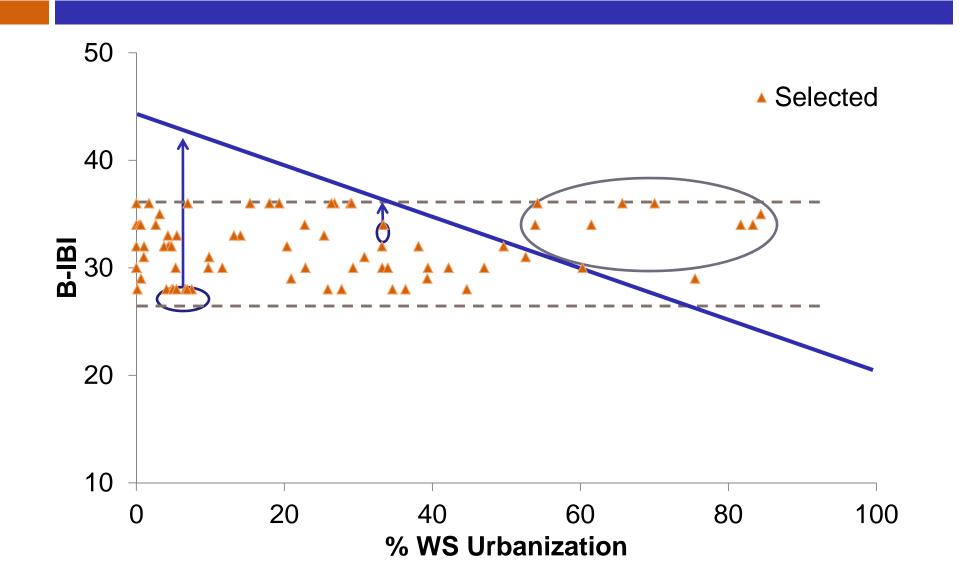


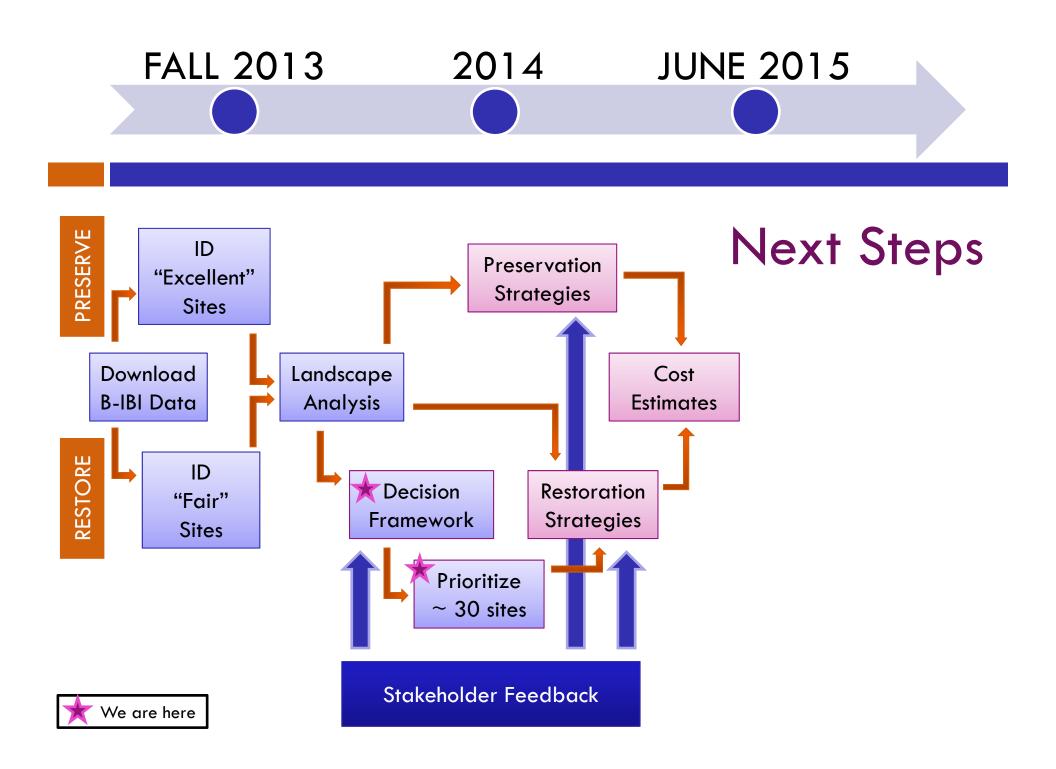


Biotic Potential – all scores



Biotic Potential – all scores





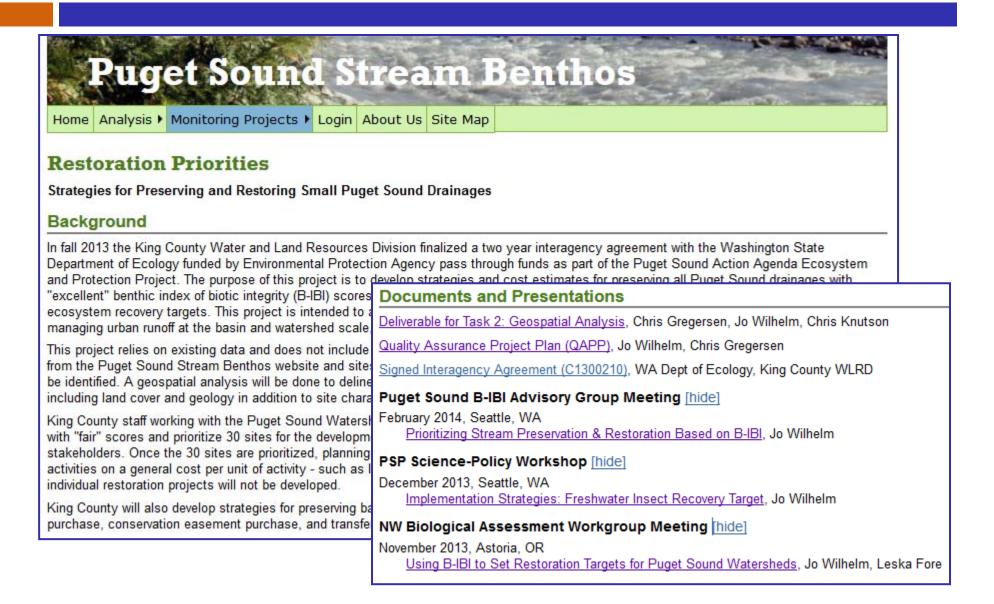
Next Steps: Restoration

What is Feasible? Effective? Habitat improvements **Riparian plantings** SW retrofits Agriculture BMPs - Legislation **Mincentives** Seeding inverts...



Project Web Page:

http://pugetsoundstreambenthos.org/Projects/Restoration-Priorities-2014.aspx



Acknowledgements



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Ecology Project Administration:

Tom Gries, Kim Harper, **Doug Howie**, Kirsten Weinmeister

🧩 Stakeholder Workgroup



?'s/Suggestions/Success Stories

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