# Vital Signs and Vibrant Lives: Ecosystem Restoration and Human Wellbeing in Puget Sound



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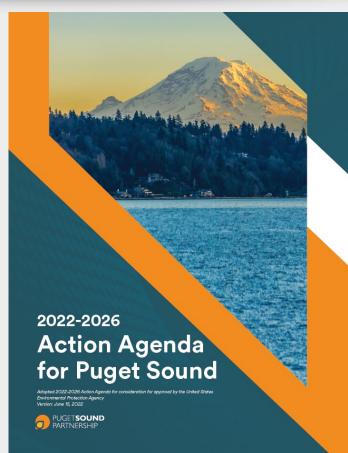
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Trimbach, David
NCER, April 2024

## **Puget Sound**



## **Puget Sound Partnership**

- State agency to "accelerate recovery"
- Lead agency for EPA's National Estuary Program
- No regulatory authority
- Not the "doers"
- Convene partners, coordinate, communicate, plan, invest, and provide accountability
- 31 regional-scale strategies
- Healthy Environments for All (HEAL) Act



Strategy 1 – Smart Growth
Strategy 2 – Working Lands
Strategy 3 – Shorelines

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Strategy 21 – Place Attachment
Strategy 22 – Outdoor
Recreation and Stewardship
Strategy 23 – Good Governance
Strategy 24 – Cultural Practices
and Local Foods
Strategy 25 – Economic Benefits

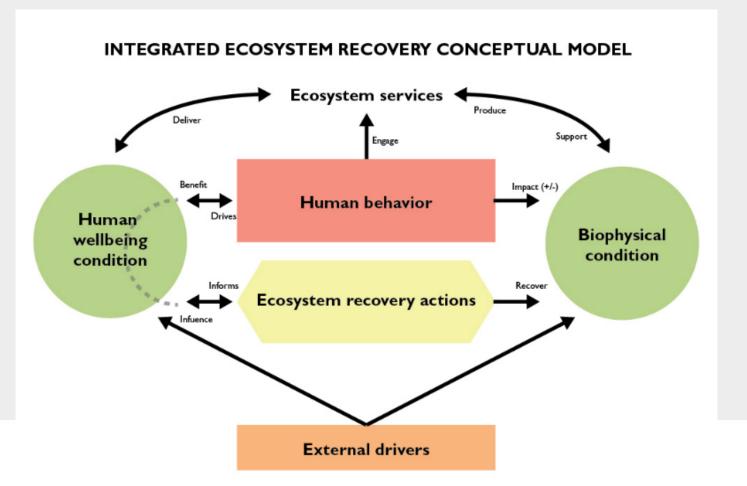
<u>Strategy 26 – Human Health</u>



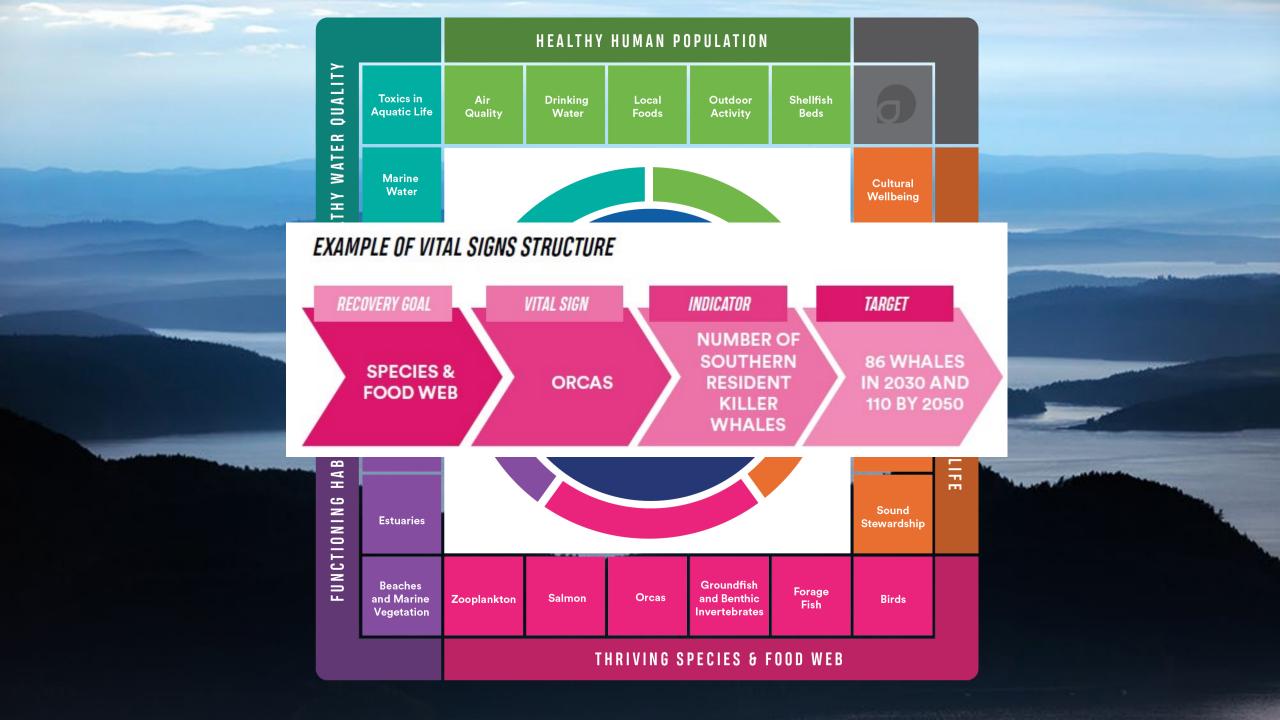
## Human wellbeing defined

People are part of nature. The wellbeing of one depends on the wellbeing

of the other.



Trimbach et al. 2020 Protocol for the integration of human dimensions



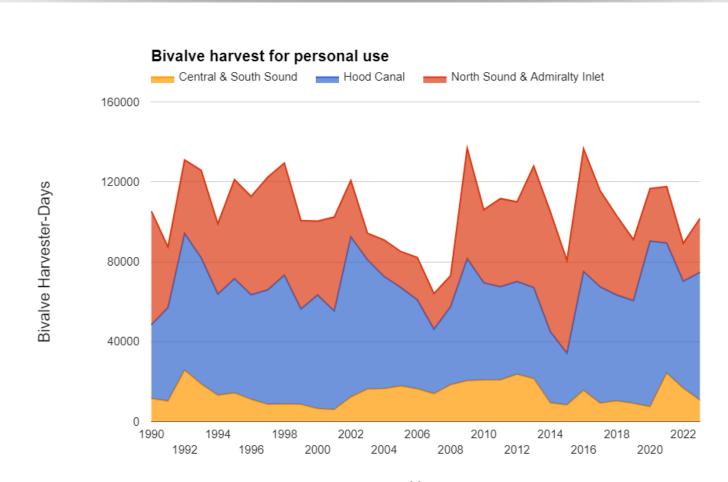
## Types of indicators to measure human wellbeing Vital Signs

Objective indicators



Subjective indicators





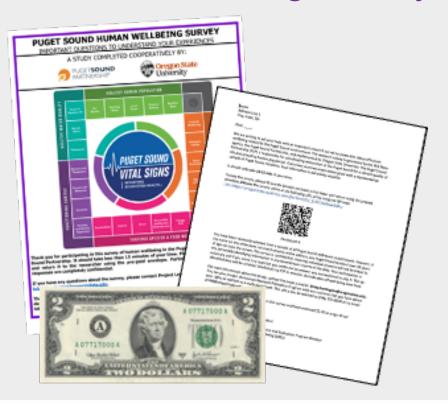






### How we measure subjective indicators

#### **Human Wellbeing Survey**



- In 2022, sample of 8,144
- 20.8% response rate or total usable sample of 1,701 responses



2022 Human Wellbeing Survey Participant Locations

Whatcom

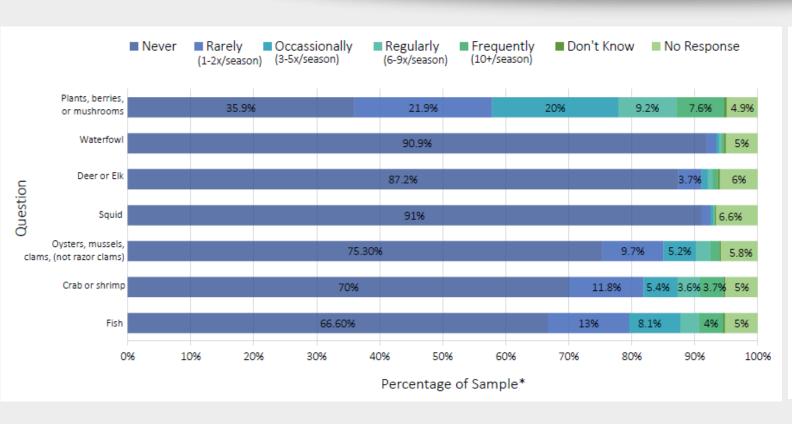


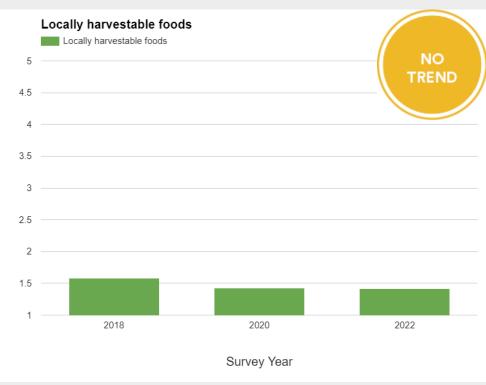




Puget Sound Counties

Local Foods











## Why no difference between years?



- 1. There hasn't been meaningful change to the environment that has changed the perception of human wellbeing
- 2. Our sampling approach may not find pockets of affected individuals
- 3. Our questions may not be sensitive enough
- 4. People are resilient i.e. there is a shifting baseline.

## How we are improving our measures

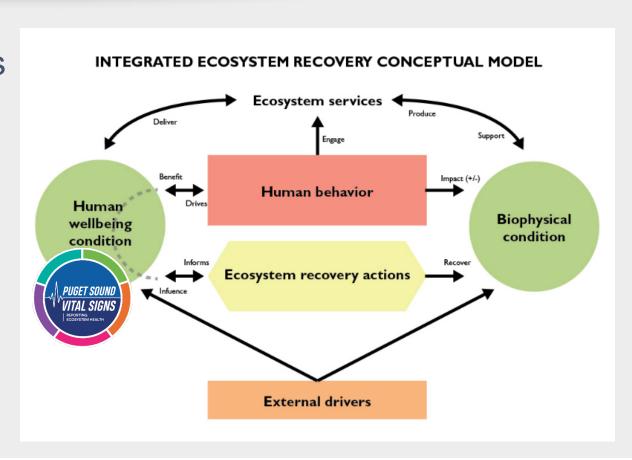
#### Represent and engage more diverse communities

- Surveyed Latinx residents (Justiano, 2021)
- Facilitated discussion in Tacoma minority groups, racial-and placed-based communities, ethnic and linguistic communities (Trimbach et al. 2023)
- Encourage monitoring partners to think about equity
  - Equity Guidebook (Sheikh and Noufi, 2022)
- Define baselines and targets
  - workshops with professionals (K.Clifton, in prep.)
- Address human health and environmental inequities
  - Seek community dimensions of the Vital Signs (R. Hollender and N. Hamel, in prep.)



## Wrap up and next steps

- Healthy humans and quality of life goals
- Objective and subjective indicators
- Mostly no trends
- Next frontier: HEAL act, add nuance to our data, human health and environmental inequities, community dimensions



We're hiring!
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## Thank you!

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