



Western Washington University  
**Western CEDAR**

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Salish Sea Ecosystem Conference

2018 Salish Sea Ecosystem Conference  
(Seattle, Wash.)

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Apr 5th, 4:45 PM - 5:00 PM

## **Tackling nebulous ideas: building a shared monitoring plan for tracking outcomes of integrated floodplain management in the Puyallup River watershed**

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Logan, Ilon and Ragland, Isabel, "Tackling nebulous ideas: building a shared monitoring plan for tracking outcomes of integrated floodplain management in the Puyallup River watershed" (2018). *Salish Sea Ecosystem Conference*. 420.

<https://cedar.wwu.edu/ssec/2018ssec/allsessions/420>

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# Monitoring Integrated Floodplain Management Actions and Progress

Salish Sea Conference

April 4, 2018

Ilon Logan, Environmental Science Associates

Isabel Ragland, Pierce Conservation District



# Floodplains for the Future Partners

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American Rivers

City of Orting

City of Puyallup

City of Sumner

Floodplains by Design

Forterra

King-Pierce Farm Bureau

Muckleshoot Indian Tribe

PCC Farmland Trust

Pierce Conservation District

Pierce County

Pierce County Agricultural  
Program

Port of Tacoma

Puget Sound Partnership

Puyallup Tribe of Indians

Strategic Conservation  
Partnership

South Puget Sound Salmon  
Enhancement Group

The Nature Conservancy

UW Climate Impacts Group

Washington State Department  
of Ecology

WRIA 10/12 Lead Salmon  
Recovery Entity

WSU Extension

FFTF Partners understand that a collaborative, holistic approach to floodplain management can deliver more benefits (and fewer risks) to more people, and do so in a way that makes better use of limited public funding.

# Purpose of FFTF Monitoring Effort

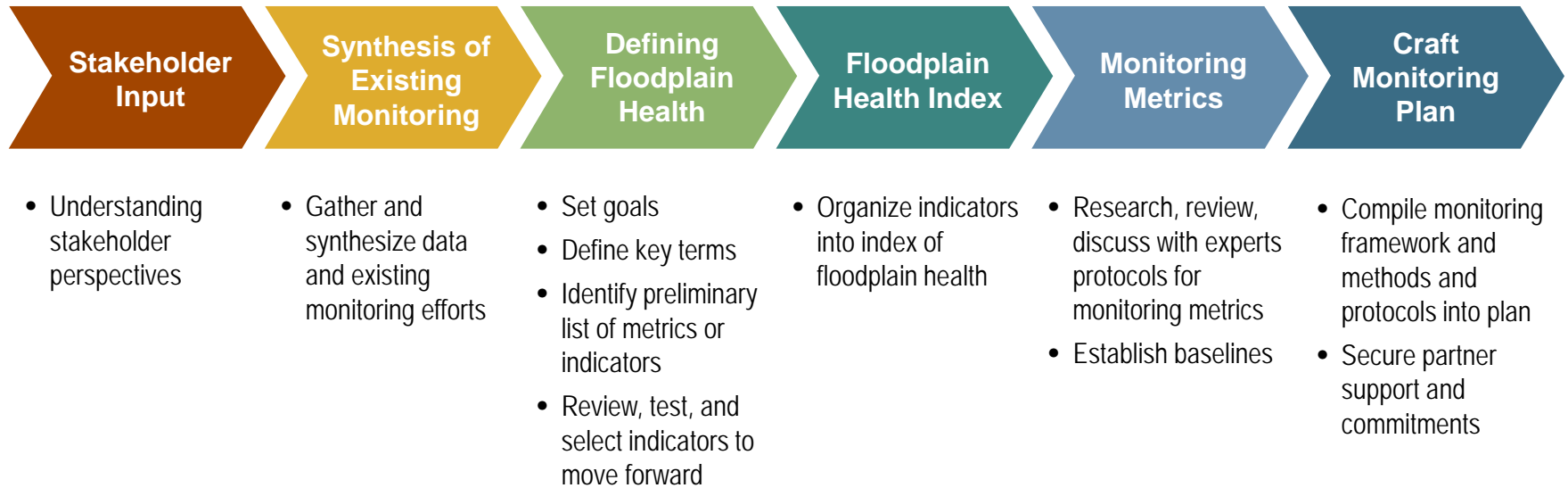
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- Integrate individual stakeholder issues and goals
- Observe progress toward shared goals
- Evaluate the success of various strategies
- High-level indication of whether or not capital and programmatic investments are contributing substantially to achieving shared goals
- Inform and direct future efforts



# Building the Shared Monitoring Plan

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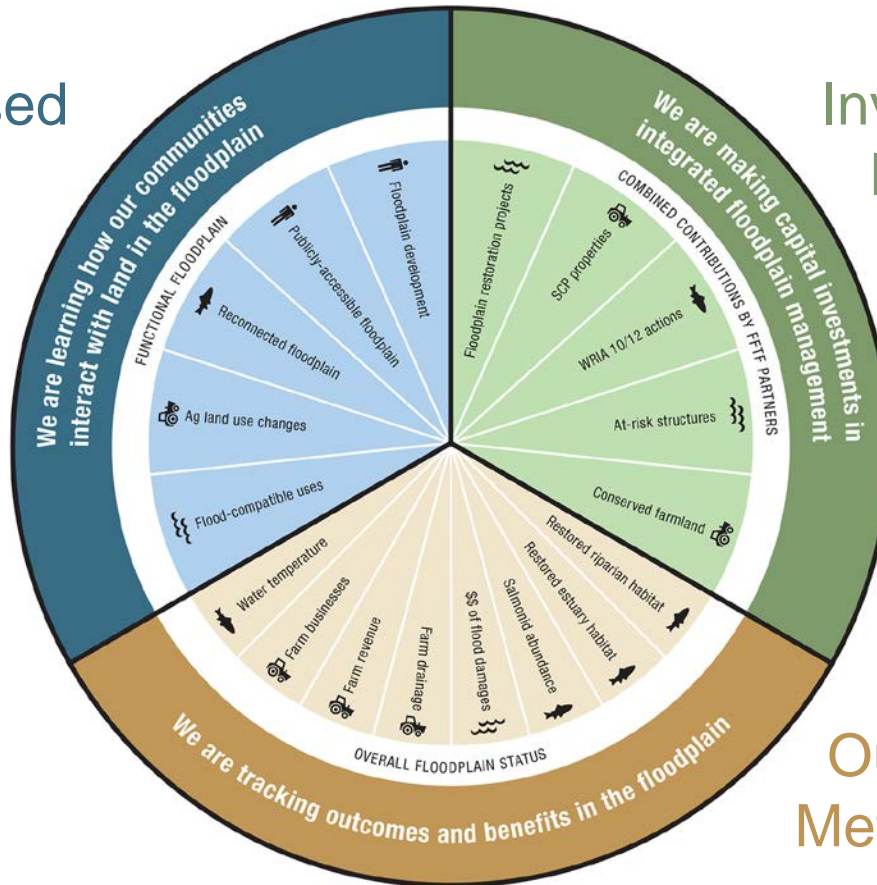




# Monitoring Metrics

Land-based Metrics

Investment-based Metrics



Outcome-based Metrics



# Monitoring Metrics

THEME	We are learning how our communities interact with land in the floodplain	We are making capital investments in integrated floodplain management and making progress toward our goals	We are tracking outcomes and benefits in the floodplain
DESCRIPTION	Group of metrics that tracks the cumulative impacts of policies, programs, and capital investments coming together in the floodplain.	Group of metrics that tracks investments by FFTF partners along with progress toward goals identified by FFTF partners.	Group of metrics that tracks trends in the quality and quantity of things we value (farm viability, salmon recovery, flood risk reduction) in the floodplain.
INTEGRATED METRIC	Amount (acres) of functional floodplain (Tier 0)	Amount (dollars) of FFTF investments in integrated floodplain management	Overall status of floodplain health and condition
INDIVIDUAL METRICS	<p>Amount (acres) of reconnected or restored floodplain</p> <p>Amount (miles) of publicly-accessible trails in floodplain</p> <p>Type and extent of agricultural land use changes</p> <p>Number and amount (acres) of floodplain development permits and other specific developments</p> <p>Amount (acres) of flood-compatible land uses</p>	<p>Number and status of floodplain restoration projects</p> <p>Number of at-risk structures removed from flood risk</p> <p>Amount (acres) of conserved farmland</p> <p>Number of SCP Properties conserved</p> <p>Number and status of WRIA 10/12 Salmon Recovery Strategy Actions</p>	<p>Amount (dollars) of farm revenue</p> <p>Number of farm businesses</p> <p>Changes in farm drainage</p> <p>Changes in water temperature</p> <p>Cost of flood damages (dollars)</p> <p>Amount (acres) of restored riparian habitat</p> <p>Amount (acres) of restored estuary habitat</p> <p>Status of salmonid abundance</p>



# Compile Monitoring Framework and Methods and Protocols into Plan

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## Shared Monitoring Plan

Tracking Progress Toward Shared Goals for Integrated Floodplain Management in the Puyallup River Watershed



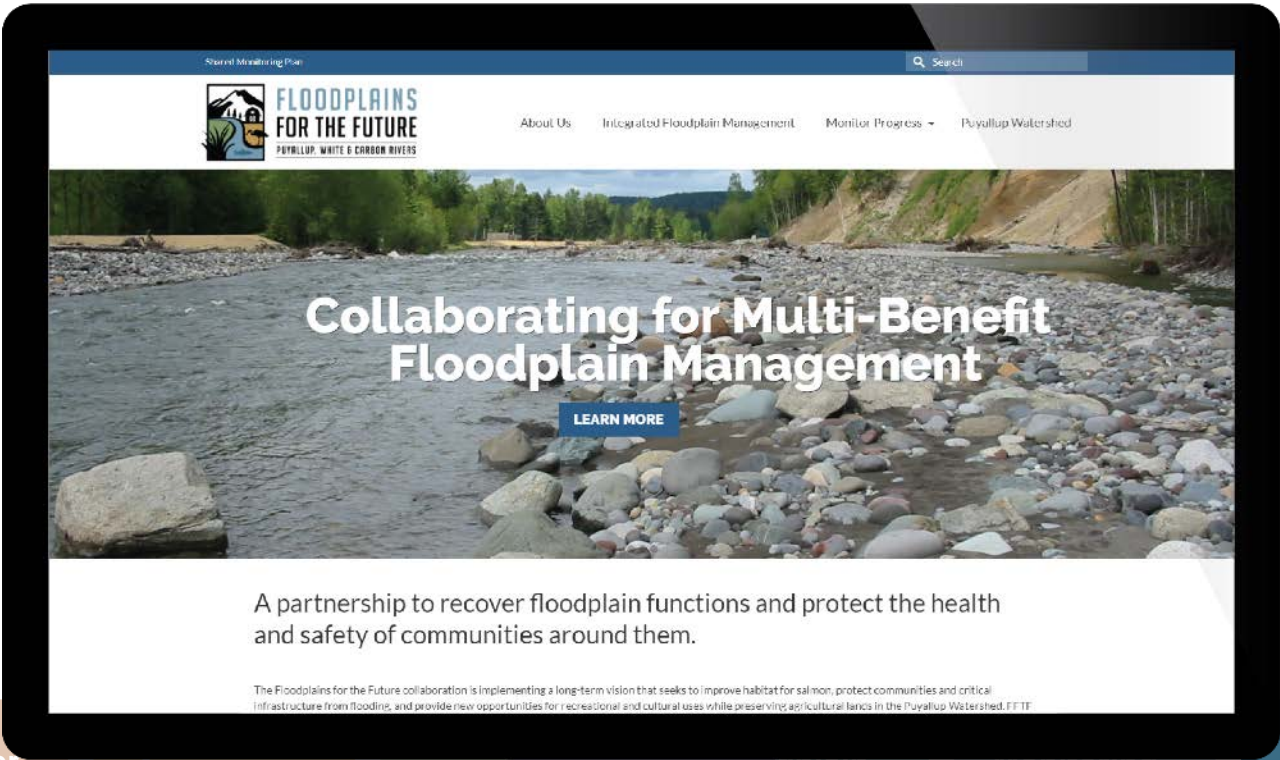
JANUARY 2018





# Communicating the Plan and FFTF Program

www.floodplainsforthefuture.org



# Implementing the Plan

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- Process and timelines for reporting by partners:  
Annual Calendar
- Adaptive management:  
State of the Floodplain Summit



# Expected Outcomes of Shared Monitoring

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- FFTF Partner collaboration for integrated efforts and mutually reinforcing individual projects and initiatives
- Recovery of Puyallup, White, and Carbon River floodplain functions
- Protection of floodplain community health and safety
- Reduced flood damages
- Improved habitat for salmon
- Support for sustainable and viable farming
- Deliberate and adaptive management to ensure progress and address shared challenges







# FLOODPLAINS FOR THE FUTURE

PUYALLUP, WHITE & CARBON RIVERS

## Thank you!

Ilon Logan

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