

Siskiyou Streamside Protections Review: Board Decision

Oregon Board of Forestry, 4 Sept 2019

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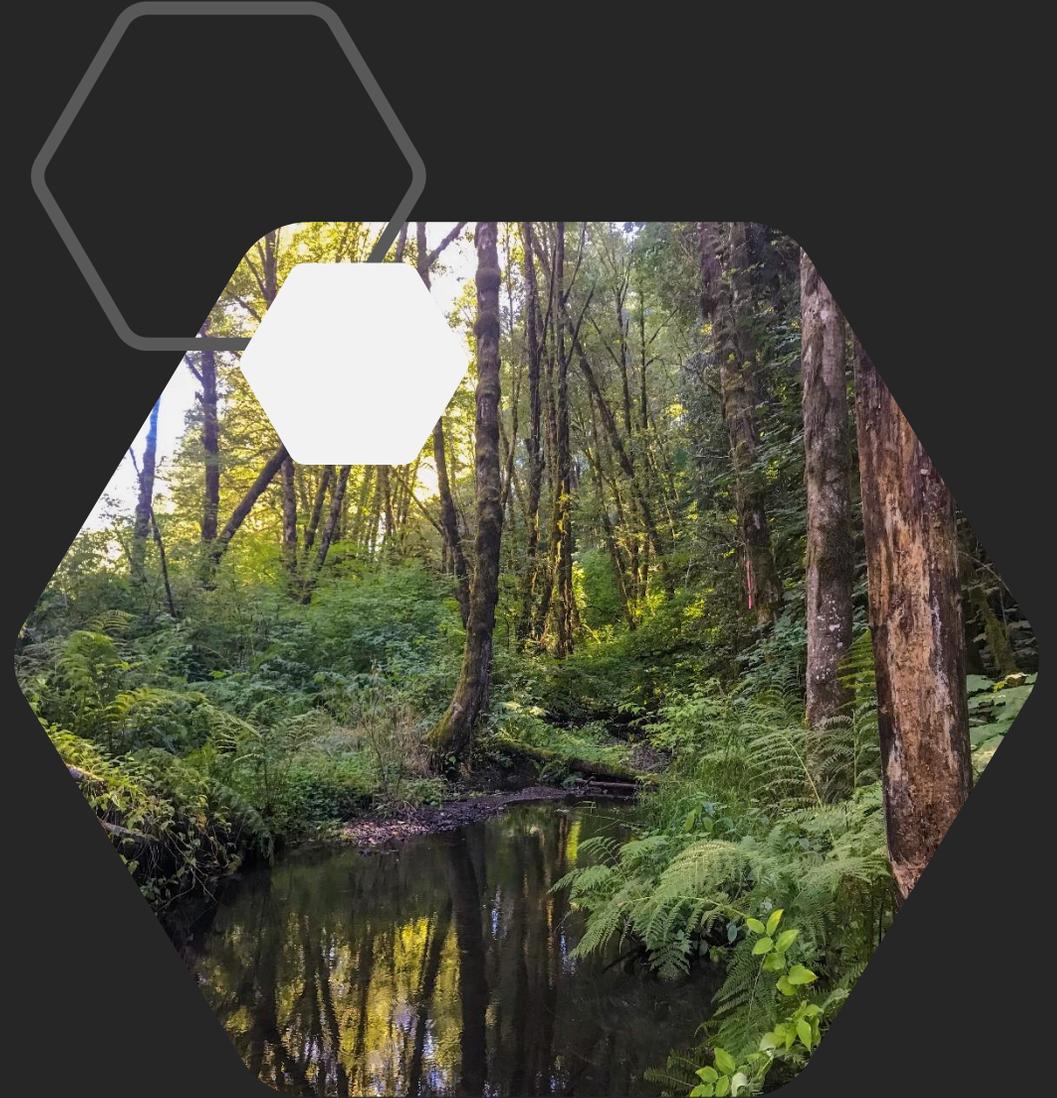
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Outline

- Adaptive Management
- Review of June Decision
- Rule Review Process
- Update on Monitoring Options
- Policy Options
- Recommendation
- DEQ Collaboration
- Public comment
- Board discussion & vote, Next steps



Monitoring 101



Foundation

- Forest Practices Act (FPA)
- Board policy

Guidance: Board-approved Monitoring Strategy

- Effectiveness of rules
- Implementation of rules



Oregon Board of Forestry Direction

March 2018:

Review effectiveness of Siskiyou streamside protections to achieve **desired future condition (DFC)** and **stream temperature** goals



1. Systematic Review (SR)
2. Contextual info on:
 - Fish status & trend (ODFW)
 - Water quality evaluations (DEQ)

June 2019 Decision



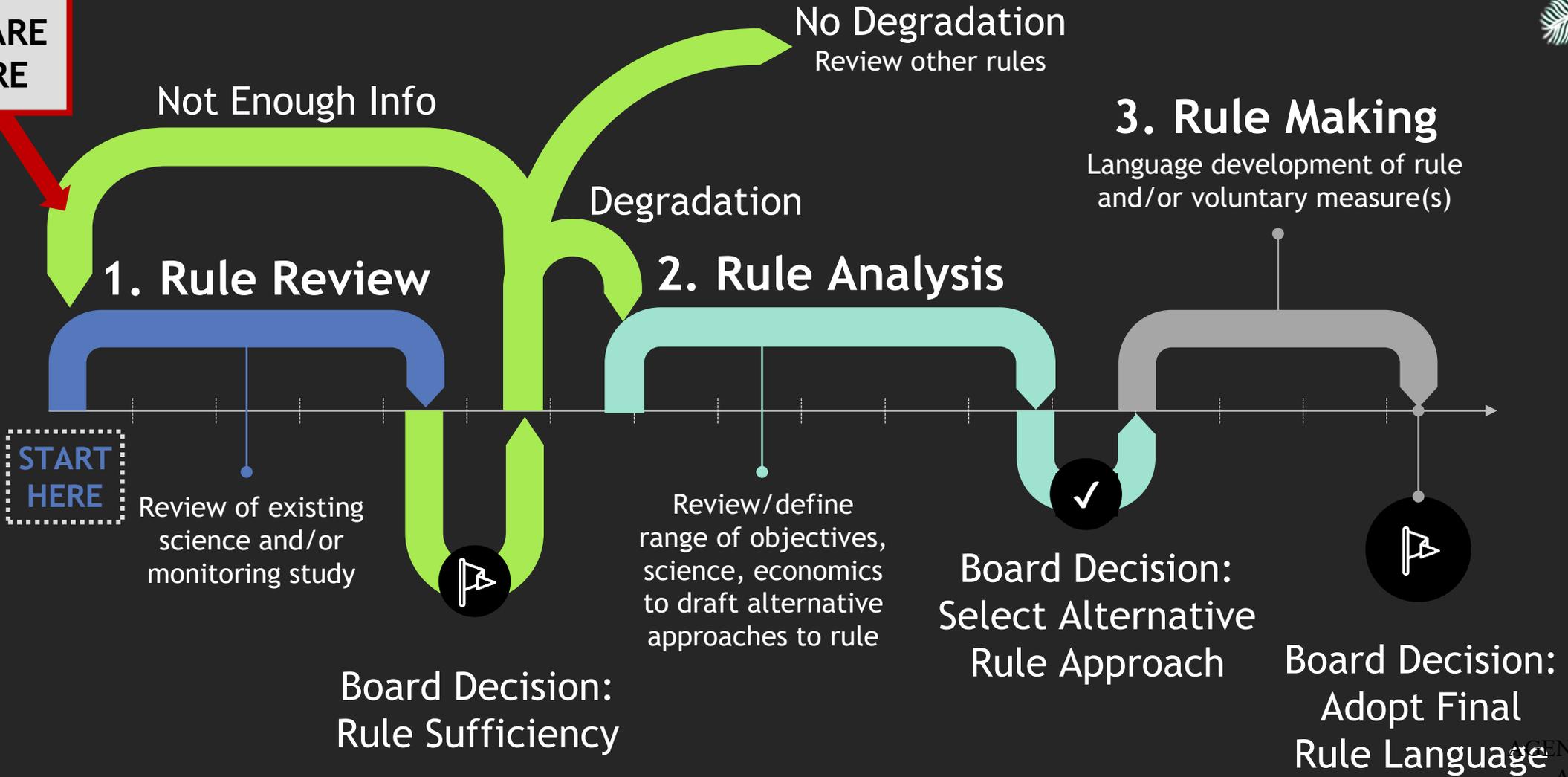
1. Small/Medium F streams in Siskiyou (clearcut and thinning harvests)
 - **Inadequate evidence** to decide on sufficiency

2. Formulate range of approaches to study sufficiency of rules
 - Investigate additional information
 - Work with DEQ to further evaluate Total Maximum Daily Load (TMDL)

Rule Review Roadmap



**WE ARE
HERE**

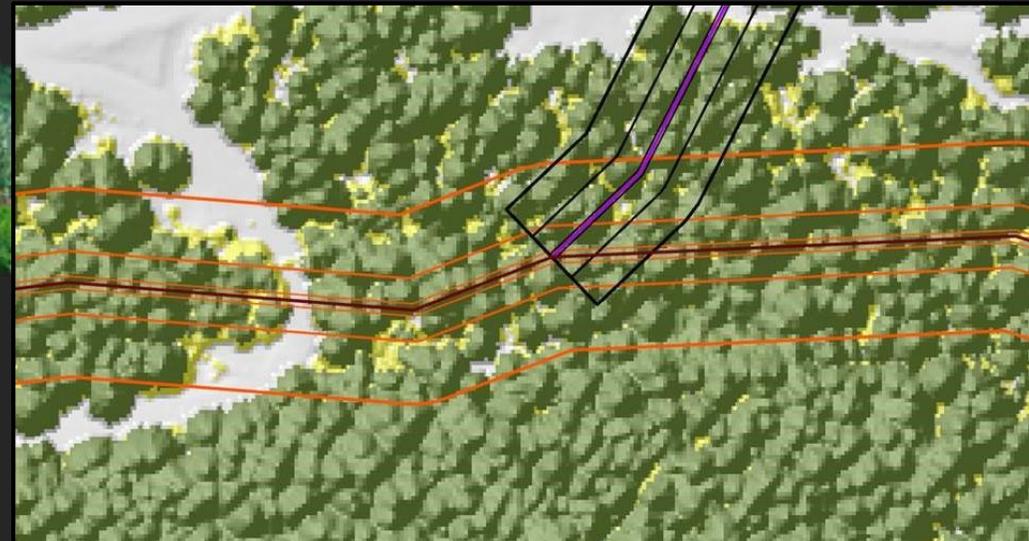




Update on Monitoring Options

Monitoring Options Update:

GIS Analysis of Remote Sensing Data



Bulk of work: Editing stream layer

Result: % canopy cover or shade

Monitoring Options Update: Field Study



Duration & Certainty ↑

Field study	WQ standards assessed for Temperature¹	Stand metrics assessed for DFC
Intensive	NC, PCW, TMDL	Shade/cover, basal area, density, diversity, etc. (now + trajectory)
Moderate	NC, TMDL	Shade/cover, basal area, density, diversity, etc.
Simplified	TMDL	Cover (GIS-remote sensing QA/QC)

Monitoring Options Update: Integrated Approach



- Identify priority streams by risk
- Field data on priority streams
- Remote-sensing data



Board Policy Decisions

Board policy decision: Advisory Committee



- 1) Multi-perspective discussion, feedback
- 2) Assist ODF to develop review approach
- 3) Work guided by Board objectives from charter

Duration: entire project

FTE: 1/2

Separate process for working with Tribes



Board policy decision: Climate Change



- 1) Climate change not in FPA, DEQ rules (steady state assumption)
 - Direct sufficiency tests impossible

- 2) Examples of climate impacts on temp, DFC:
 - Shift in species distributions
 - Changes in timing, form, amount of precip
 - Increasing air temperatures

Board policy decision: Climate Change



Option 1: Climate change in Siskiyou Review

- Identify effects on temp, DFC:
 - Directions, patterns of change
- Identify changes possible within FPA
- Qualitative risk assessment in rule sufficiency

Project-by-project: not holistic, but faster action

Duration: 9-12 months, Resources: 0.5-0.75 FTE

Board policy decision: Climate Change



Option 2: Comprehensive climate change review

- Develop comprehensive, department-wide policy framework
- Analyze FPA with new policy framework
- New FPA rule reviews within revised FPA (Siskiyou: no explicit climate change nexus)
- Outcome:
 - I. List of climate change topics
 - II. Areas of conflict, alignment with FPA
 - III. Propose changes to address conflicts with FPA

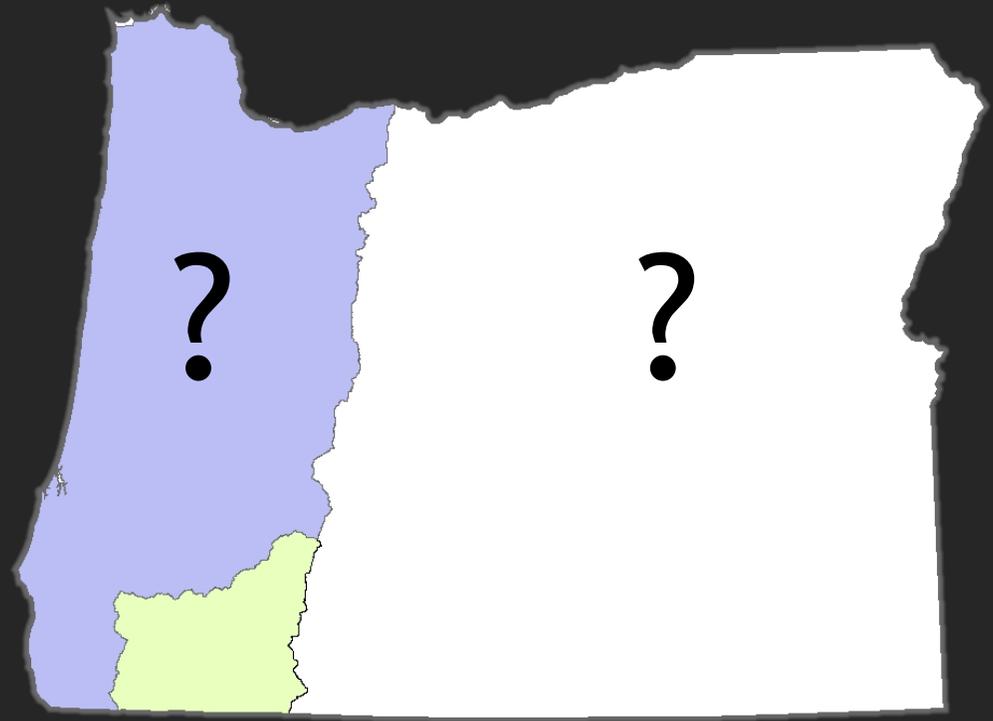
Duration: TBD

Resources: TBD

Board policy decision: Expand literature review



Board members requested expand geography - to...?



Board policy decision: Expand literature review

Board members requested expand geography - to...?

Option 1: W Oregon + similar

- Executive Summary of existing temp. reviews (W. Oregon, Siskiyou); 4-6 months, 0.5 FTE
- Combine W Oregon and Siskiyou DFC reviews; 10-15 months, 0.75 FTE

Capitalizes on existing work, but Board voted twice on this



Board policy decision: Expand literature review

Option 2: Include western forests, assess mechanisms

- Stream temp.:
 - I. W. Oregon, Siskiyou (existing reviews);
 - II. E. Oregon and intermountain west (new review)
 - III. Temp. controls beyond shade (e.g., aspect, disturbance)
- Combine W Oregon and Siskiyou DFC reviews
(same as Option 1)

10-15 months, 1.5 FTE



Monitoring Priorities

Monitoring Unit - 4 staff

Current work:

- Siskiyou (review, stakeholders)
 - DEQ collaboration
- W. Oregon (data analysis, stakeholders)
- Reforestation study
- Tethered logging
- *Coho Petition (??)*





Department Recommendations

1. Create Advisory Committee for Siskiyou Streamside Protections Review
2. Climate Change: Option 2 (comprehensive policy)



Inter-agency Alignment

DEQ Collaboration



1998 Memorandum of Understanding (MOU)

- Before TMDLs

Goals

- Monitoring program
- Implement & improve MOU

Topics

- Streamside vegetation goals
- FPA reviews and TMDL analysis





Questions



Board Advisory Committees

Public Comment



Board discussion and vote

Next Steps

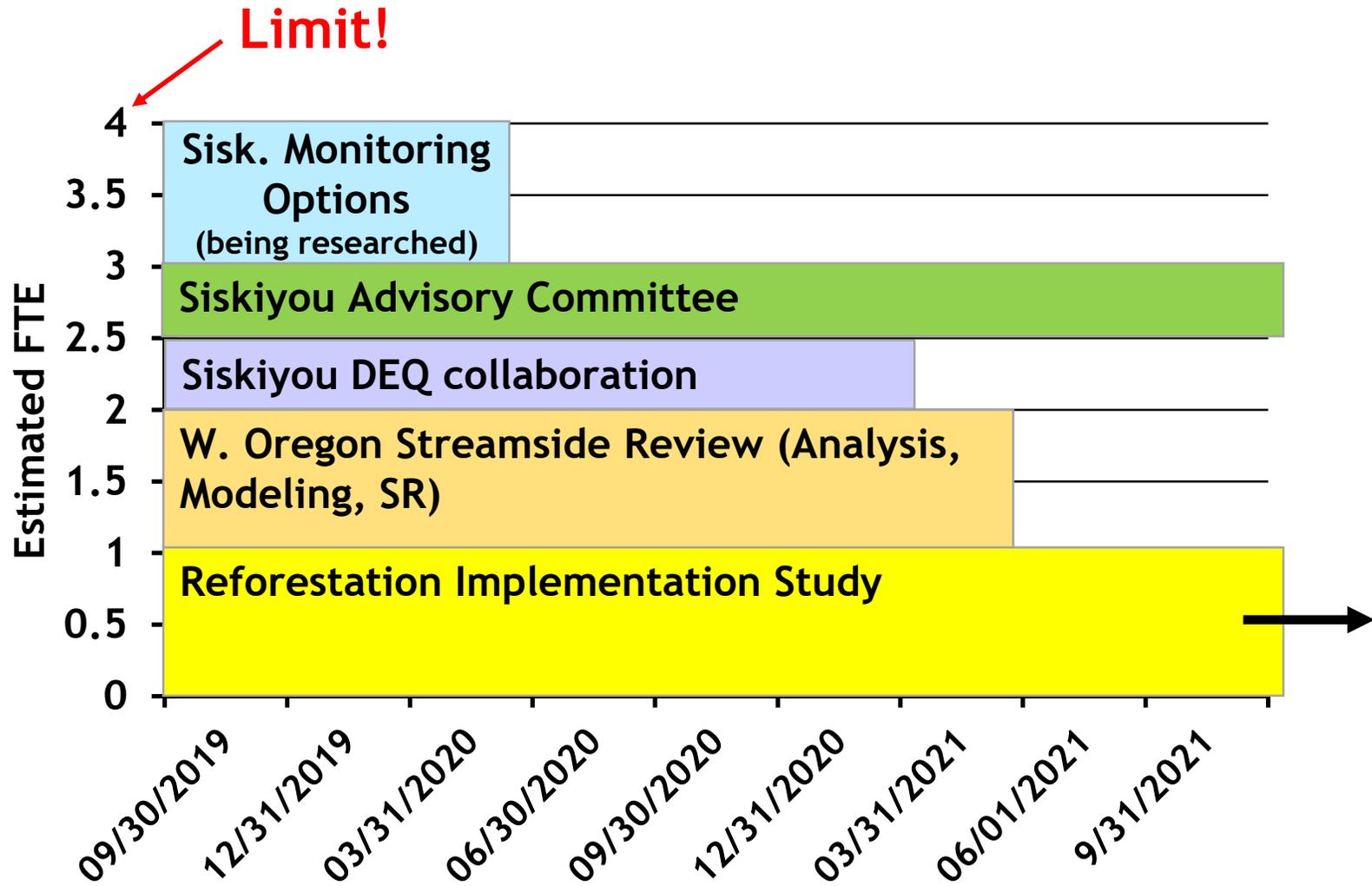


1. Implement Board direction
2. Refine options for study approaches (to Board: early 2020)



End

Monitoring Unit Staff Capacity



~1.5 FTE
Expanded SR (E. Oregon)

~0.5 FTE
Expanded SR (W. OR)

~0.75 FTE
Climate Change 1 (Siskiyou)

Coho petition ??

Current Outreach VS. Advisory Committee

Current Outreach Format	Advisory Committee
<ul style="list-style-type: none"> • Ad hoc • No official invite 	<ul style="list-style-type: none"> • Official invite to interested parties • Public meetings
<ul style="list-style-type: none"> • Various meeting times 	<ul style="list-style-type: none"> • Consolidated meeting times
<ul style="list-style-type: none"> • Separate conversations • Stakeholder composition unknown to other stakeholders 	<ul style="list-style-type: none"> • Collective discussion heard by all • Known, broad stakeholder composition
	<ul style="list-style-type: none"> • Stakeholders informed on others' perspectives
	<ul style="list-style-type: none"> • Stakeholders informed on process and products ahead of BOF meetings

Goal: Improve quality and timing of stakeholder input to process

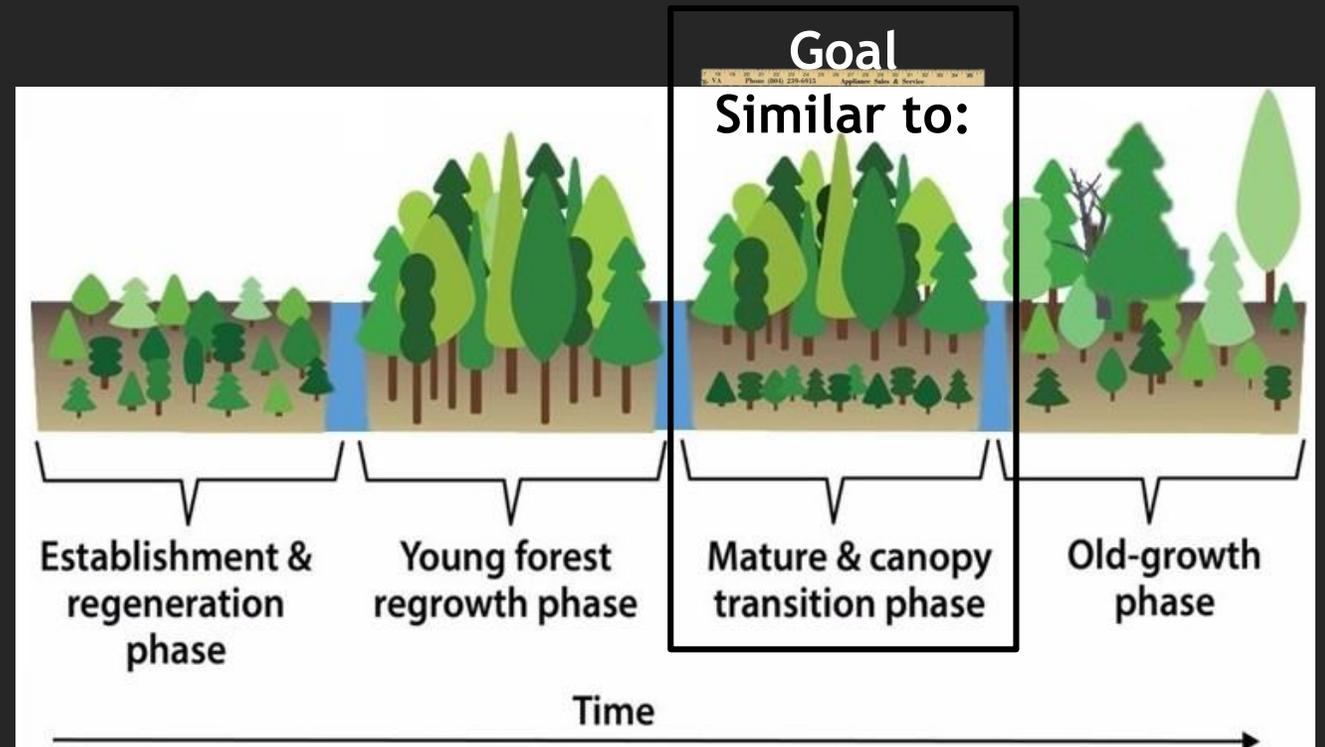
Desired Future Condition (DFC)

Similar to mature stands about 80-200 years old

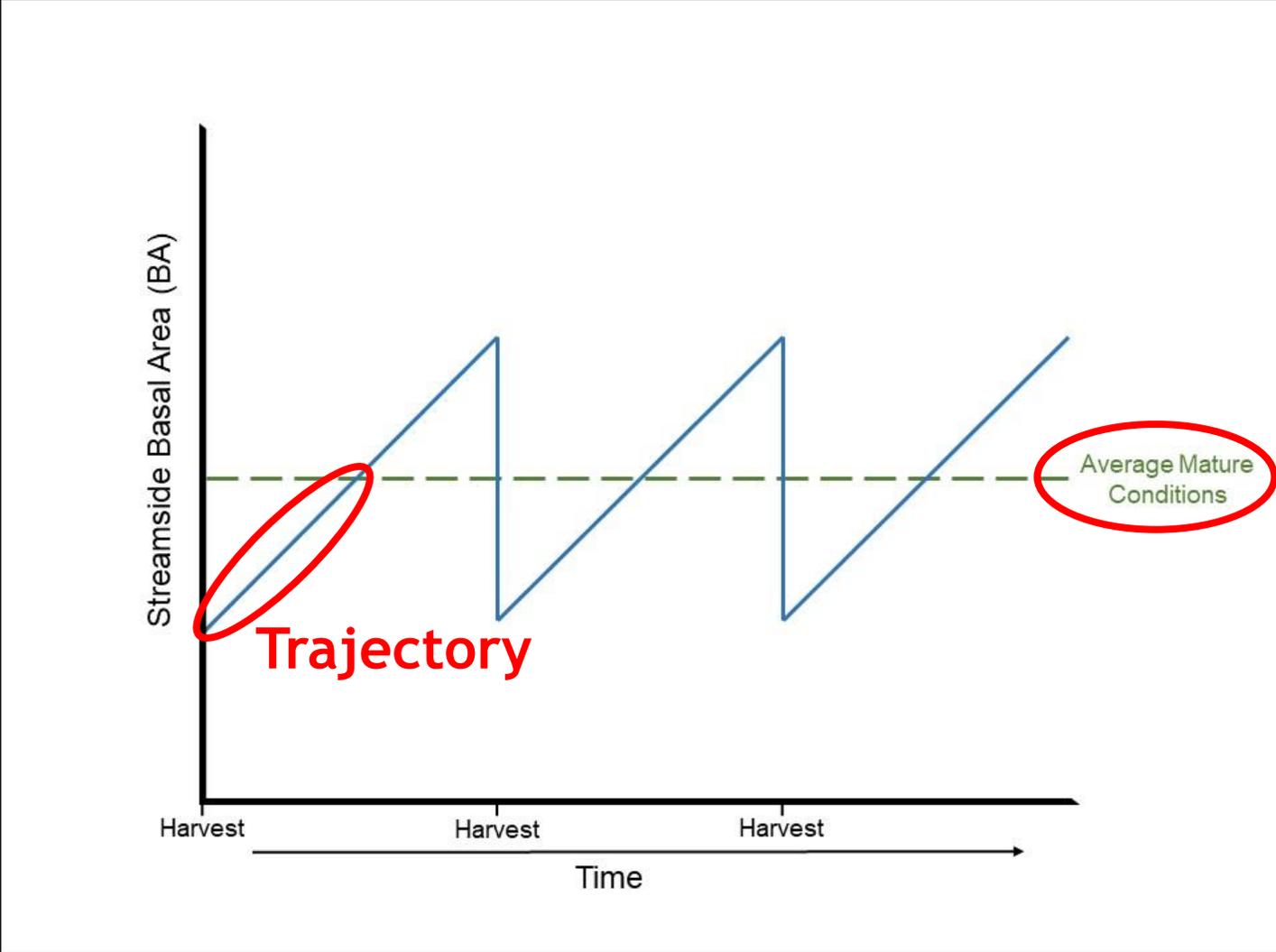
- Identify “yardstick” using stand characteristics & shade

On average, over time, across the landscape

- NOT all the time
- -> *trajectory matters*



Desired Future Condition (DFC)



Stream Temperature

Water Quality standards addressed:

1) Biologically-based Numeric Criteria (**NC**)

- $\leq 16-18$ °C for a given stream reach

2) Protecting Cold Water criterion (**PCW**)

- ≤ 0.3 °C increase due to human activity

Systematic Review (SR)

	Systematic Review	Traditional Review
Purpose	Focused question or hypothesis	General or focused
Literature search & inclusion criteria	Structured, rigorous, extensive	Authors' choice
Literature included	Theses, government, monitoring reports, in-review, peer-review	Peer-reviewed only
Quality/Relevance assessment	Systematic analysis of methods, additional factors	Authors' choice
Basis for synthesis	Evidence, relevance, identifies sound methodologies	Evidence, interpretation, does not identify sound methodologies
Transparent?	Yes	No
Participation	Experts, stakeholders, tribes, authors	Authors only