



Adaptive Management Program Committee

November 4, 2024

Attendance: Roll Call

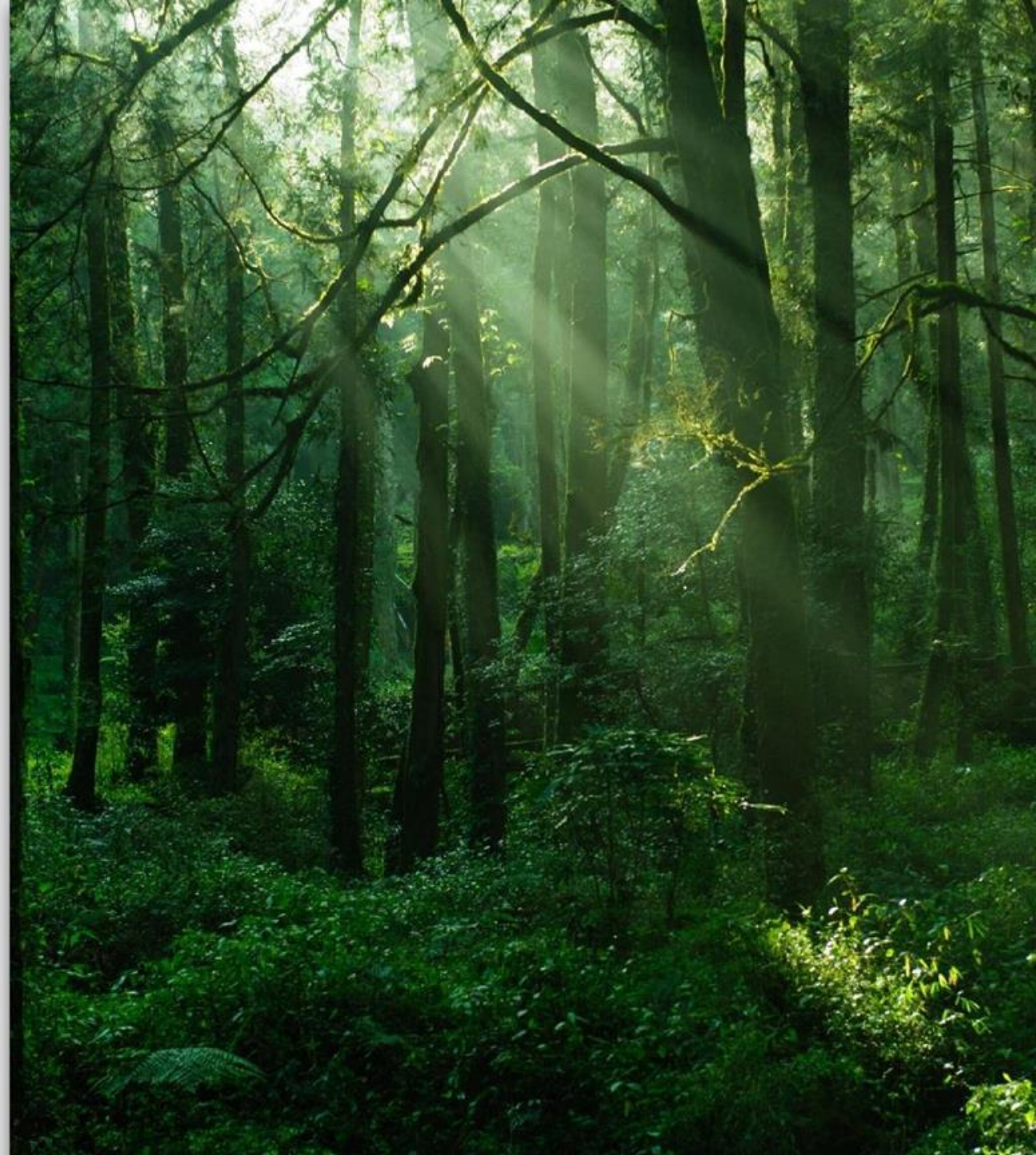
Please answer “Present (virtually or in person)”





Agenda

- **Roll call, updates, work group report outs, public comment, Exec Summary**
- **Field trip debrief**
- **Amphibians research questions**
- **Effectiveness Monitoring Strategy**



Housekeeping

- **Meetings are public & recorded (instead of minutes), available online**
- **Please turn your camera on – it helps with discussion – also with “temperature read” (number of fingers)**
- **Please mute when not speaking**





Public Comment



Executive Summary of previous meeting

- **Accept?**

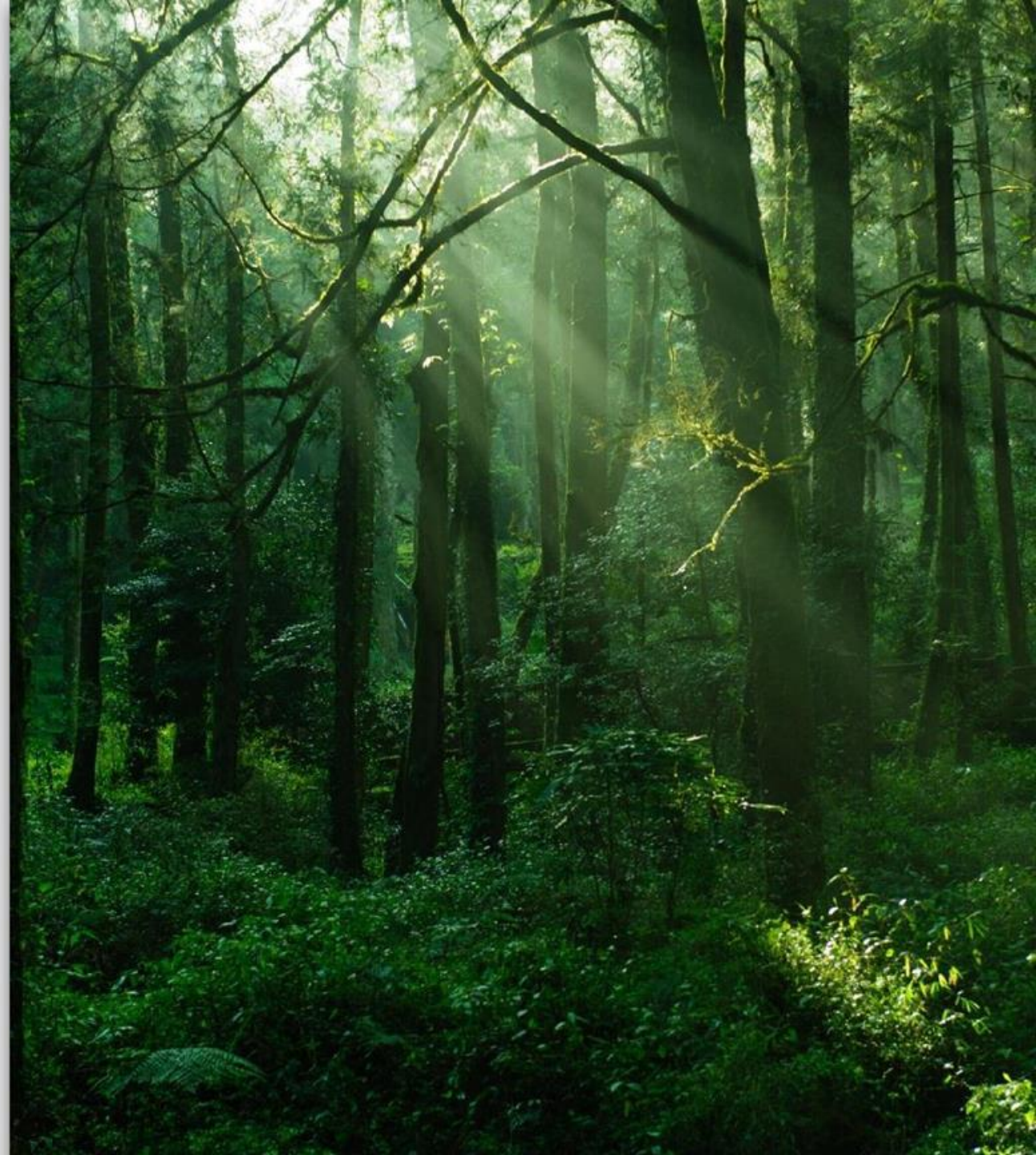


Updates

- **FR Division org. chart**
- **Work groups report out (later in meeting)**

Members up for renewal (Jan. 2025 Board meeting):

- 1. Wendy Gerlach**
- 2. Amanda Sullivan-Astor**



What's ahead

December 9, 2024 – draft agenda:

- Elect AMPC co-chair
- 2024 year in review
- 2025 work plan
- Review AMPC charter?
- Amphibians question package?



Field tour debrief - logistics

- What worked well?
- How can we improve in the future?



Discuss: Amphibians Research Questions



Questions that emerged from field tour?

- Observations?
- Discussions?
- Questions?



Amphibians Research Question Categories from 8/26/24 meeting:

- Life history and general knowledge
- Demographics
- Effects of forest practices over time
- Research design
- Research process



Proposed covered species (25-year HCP)

- Columbia torrent salamander (*Rhyacotriton kezeri*)
- Southern torrent salamander (*Rhyacotriton variegatus*)
- Coastal giant salamander (*Dicamptodon tenebrosus*)
- Cope's giant salamander (*Dicamptodon copei*)
- Coastal tailed frog (*Ascaphu truei*)



[Columbia torrent salamander](#)



PFA Report, p. 120-121

7.3.4 Adaptive Management

Uncertainty exists around amphibian population characteristics, distribution, productivity, survival, and abundance. A robust effectiveness monitoring plan as part of an adaptive management program will be used to better understand the relationship between forest management and covered amphibian species. To support this program, it is recommended that \$1.5 million be initially applied to research through the first funding cycle of the adaptive management program to better understand how riparian and unstable slope protections of at least the current and proposed rules for private forestland impact persistence of populations. The Authors agree that the \$1.5 million will be used to fund an initial study and that ongoing research over appropriate intervals of time beyond this initial study will be necessary to understand research outcomes over long periods of time. The priority species for monitoring will be the Columbia and Southern torrent salamanders. With consideration to funding constraints and other priorities, this research could also include other species covered by the HCP. Additionally, it could include Cascade torrent salamanders, which are not covered by the HCP.

PFA Report, p. 120-121



Life history and general knowledge

Incorporating traditional ecological knowledge (TEK), cultural component for questions

What do we know now, but also – design research to understand distribution and prevalence? How does this compare across species and how do we determine which to focus research on?

Species are in the draft HCP. Why were they chosen? Could some (e.g. torrent salamanders) act as an indicator species for habitat health?

Ranking most to least sensitive, ranking those that are more mobile (stream, versus move movement upland)

What are the primary drivers / factors that influence abundance, within species diversity?

- **How can we prioritize species (within the HCP list)?**
- *Are they an indicator species of habitat health?*
- *Are they more sensitive to effects / changes in habitat?*
- *Are they more mobile?*
- **What do we already know about those species?**



Demographics

Distribution

Use of upland areas for movement/dispersal, particularly for the torrent salamanders (frequency, importance, areas used).

Amphibian use of disconnected seeps and springs (particularly for torrent salamanders). How connected are these habitats?

Genetic diversity

Movement / dispersal

Adaptive capacity

Extent of overlap or range occurrence on the East side. How often does this occur and is habitat use different?

Are physical conditions of stream and are the water quality conditions good for the amphibian species (e.g. impact of sediment on gill breathing)?

- What do we know and what DON'T we know about priority species?
- *Movement / dispersal?*
Adaptive capacity?
Distribution?



Effects of forest practices over time

What can we say about the effects of forest management on the species under the HCP? What do we not know, and how could those gaps be addressed (see HCP)?

Effectiveness of forested buffers

Effectiveness of ELZs

Efficacy for the BGOs

Some things (e.g. application of herbicides) were not included in the HCP. Should forest practices not covered by the HCP be included at a lower level of priority?

Impacts of land ownership and land use

Effectiveness of R-ELZs

Impacts of forestry on species over time

Interaction between climate change scenarios and forest practices



Research Design and Process

Timeframe for projects – short and long-term

The scope and time scale

Intentional about comparative sites

Incorporate lessons learned from other studies to determine what the most effective approach might be for producing clear results

Have more general research questions to allow for identification of research needs via literature review

IRST could identify specific research based on literature review findings

Literature review findings could also answer some research questions

- What are the different methods for data collection, and which are the most effective? Why are they different? Why might some results be considered controversial?

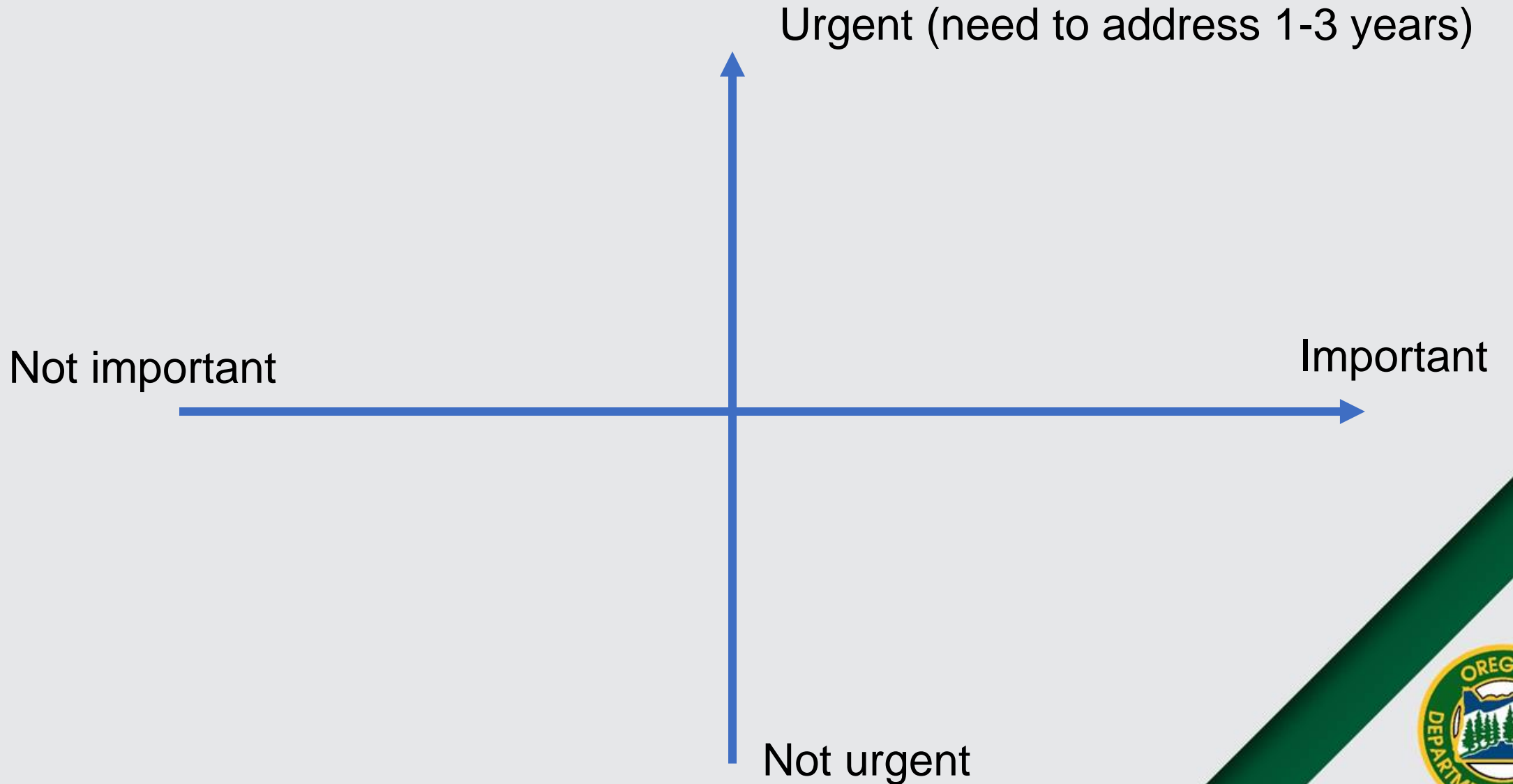


What could be addressed by IRST in the literature review?

- What do we already know about priority species?
- What don't we know?



Priorities to address?



Priorities to address?



Break



Effectiveness Monitoring Strategy



Wrap up

To do items



Next meeting: Dec. 9, 2024

Draft agenda:

- Elect AMPC co-chair (Stacey Detwiler's position)
- 2024 year in review
- 2025 work plan
- Review AMPC charter?
- Amphibians question package?



**Thank you for your participation
today**

