

# Systematic Evidence Review (SER)

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## Review:

- What is SER?
- History
- BOF Work Plan Elements
- Pilot Project Work to Date
- Next Steps

## SER: What is SER?

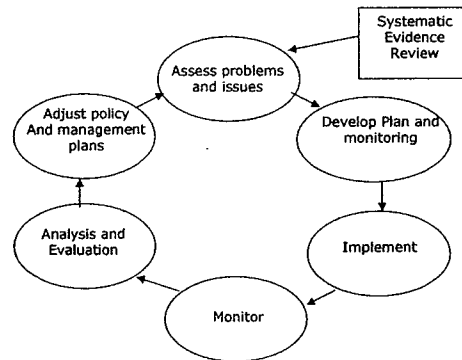
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SER is a review of scientific evidence characterized by:

- Careful selection of question;
- Comprehensive, systematic lit. search;
- Study evaluation and *quality assessment*;
- Narrative synthesis
- Transparent, objective process
- Not a decision making system in itself

## SER in the adaptive management loop

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## SER: History

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- ▣ Kitzhaber introduced concepts in 2004
- ▣ BOF interest, integration into work plan

## SER: BOF work plan products

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- ❑ The Board will advise staff on principles that will guide the development of a general but consistent agency process for synthesizing the "best available science" that comes before the BOF;
- ❑ The BOF and agency can act as a catalyst and proponent for developing SER-like approaches for natural resources (institutional framework)

## SER: History, continued.....

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- ❑ ODF contract with Institute for Natural Resources (INR) for background report
- ❑ INR Report findings to BOF
- ❑ BOF direction to pursue small pilot project

## SER: Pilot Project Work To Date

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- INR Project Management
- Subject selected: large wood/restoration
- Technical Reviewers (Giannico, Burnett)
- Question Formulation (ODF with stakeholder input)

## SER: Work To Date

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- SER Pilot Question:

“Does wood placement in Pacific northwestern North American streams affect salmonid abundance, growth, survival, or habitat complexity?”



## SER: Pilot Project Work to Date

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- Systematic Literature Search (Webster)
- Literature Selection based on relevance and scope criteria
- Technical review w/ study quality assessment – initial review done
- Narrative synthesis – in progress

## SER: Next Steps – Pilot Project

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Evaluation workshop - questions include:

- Did the development of specific review questions and a search protocol enhance the likelihood that the results of the literature search are repeatable?
- Were the draft evidence quality hierarchies possible to apply? Are there ways they could be improved? What level of expertise was/is required to apply the hierarchies?
- How is grey literature best handled in the search and evaluation process?
- How did the costs (time, money) of the approach, compare to the benefits of the approach? What advantage, if any, did the SER-like process used have over a traditional literature review?
- Under what circumstances would this process be most valuable and add value beyond that which is provided by a more traditional literature review?

## Next steps: BOF

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- ❑ INR report to ODF by late 2007
- ❑ Report on pilot project to BOF in March 2008 – Board direction to staff on development of agency principles for science assessments and other SER roles;
- ❑ Staff report to BOF on draft principles, June 2008. Board review, comment, approval.
- ❑ Ongoing agency and BOF support for SER efforts