

Improving the stream restoration design process with decision analysis, predictive design, and online portals

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Abstract. Stream restoration is a maturing field at the intersection of engineering, ecology, and freshwater science. While the guidance for stream restoration continues to grow, the organization of this guidance is as diverse as the design methodologies used by practitioners. This talk will cover the author's involvement in two projects related to helping to better organize and guide stream restoration design in partnership with the National Center for Earth-surface Dynamics (NCED), the Intermountain Center for River Rehabilitation and Restoration (ICRRR) and the US Army Corps of Engineers - Engineer Research and Development Center (USACE-ERDC). Both projects promote the use of an objective driven framework, decision analysis techniques, and online portals to dynamically organize and link guidance to tools, techniques, and case studies.

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