

Enhancement and Standardization of Benthic Macroinvertebrate Monitoring and Analysis Tools for the Puget Sound Region

A Project Funded by US EPA Scientific Studies and Technical
Investigation Assistance Program Grant

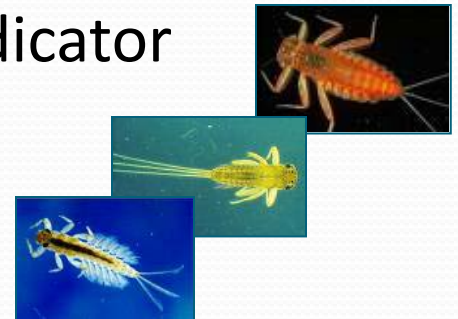
Deb Lester- King County Dept of Natural Resources

May 16th, 2011



Issues

- Inconsistent sampling and data analysis methods
 - 3 ft² vs. 8 ft², attribute lists, taxonomic resolution, etc.
- Taxa Attribute Lists used for B-IBI
 - Limited peer review and BPJ
- PL B-IBI – developed in early 1990's using limited data
 - Calibrated on a local scale within Puget Sound
- Data Management
 - PS Stream Benthos Database – great tool, but some limitations and participation
- Need for a regional biological freshwater indicator
 - Limited to WQI
- Need for regional coordination



Project Objectives

- Update taxa attribute lists
- Reconcile differences in sample collection methods
- Recalibrate metric scoring of the B-IBI
- Refine B-IBI as a freshwater indicator
- Expand the Puget Sound Stream Benthos Data management system
- Enhance regional coordination

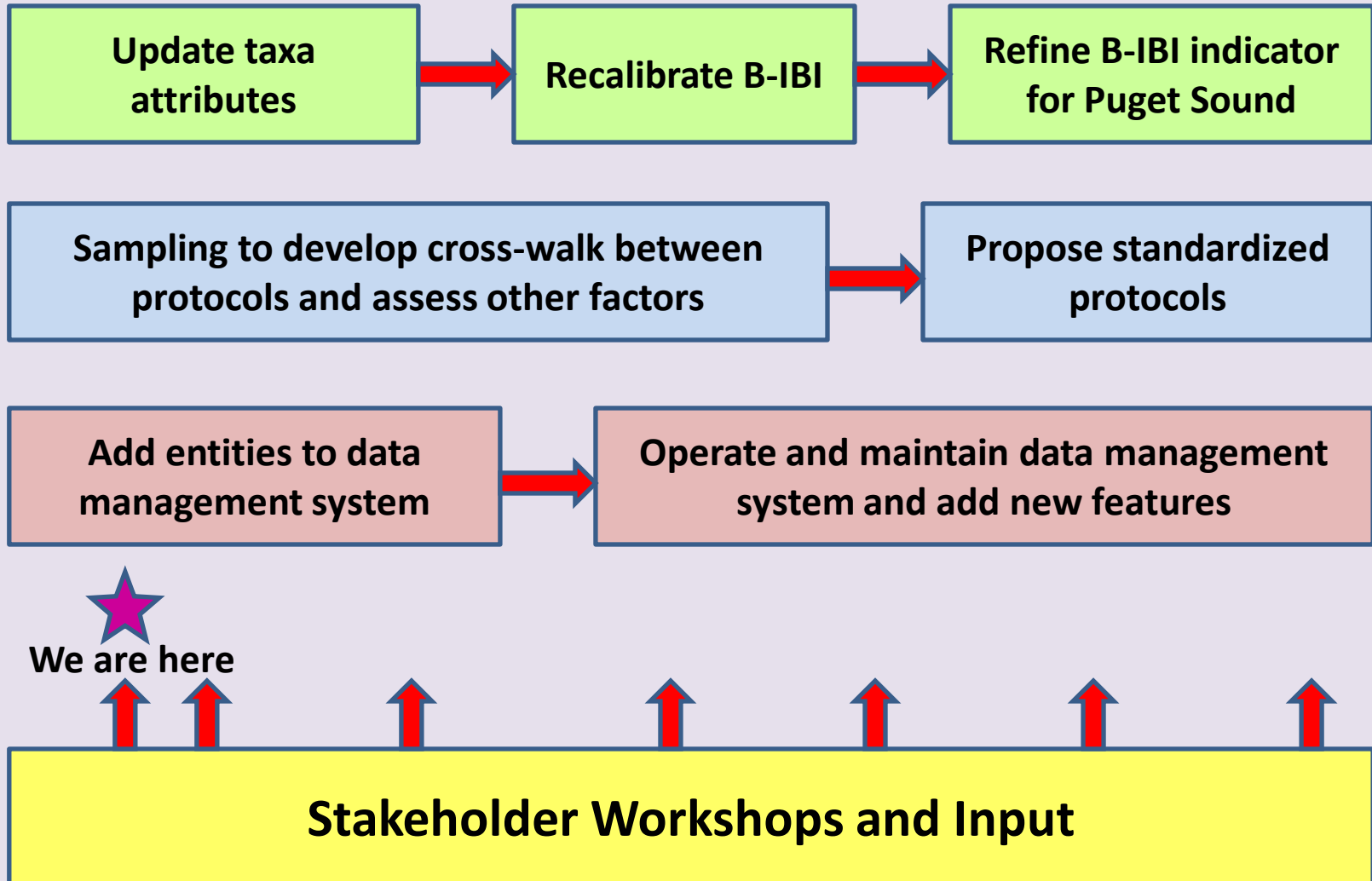


Project Flow Chart

2011

2012

2013



Proposed Workshops



1	May, 2011	<ul style="list-style-type: none">• Project kick-off• Input on year 1 study design
2	July, 2011	<ul style="list-style-type: none">• Field methods training conducted by Ecology
3	Oct /Nov, 2011	<ul style="list-style-type: none">• Input on draft taxa attributes report• Input on desirable data management features
4	May, 2012	<ul style="list-style-type: none">• Input on B-IBI recalibration approach• Review year 1 results and input on year 2 study design
5	Oct, 2012	<ul style="list-style-type: none">• Input on draft B-IBI recalibration report
6	May, 2013	<ul style="list-style-type: none">• Input on draft report comparing sampling protocols• Input on setting indicator thresholds
7	Oct, 2013	<ul style="list-style-type: none">• Input on draft standard protocol proposal• Input on draft analysis of B-IBI refinement report• Establish plan for on-going coordination