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July 2, 2009

MEMORANDUM

TO: Fish and Wildlife Committee

FROM: Nancy Leonard, Wildlife and Ecosystem Monitoring and Evaluation Manager

SUBJECT: Regional Data Collection, Sharing, and Exchange White Paper

Bruce Schmidt (StreamNet) will present an overview of the Regional Data Collection, Sharing, and Exchange white paper. The steps outlined in this white paper provide important guidance to furthering the Pacific Northwest Aquatic Monitoring Partnership's and others' goals for consistent data management and sharing practices. Bruce will highlight the necessary steps, as identified in this white paper, to facilitate efficient regional-scale data sharing and combining data from multiple sources to derive high level indicators and serve other data needs. The presentation will briefly outline important roles for various entities, including the Council, in assuring that data sharing and exchange succeeds in the Northwest. Copies of the white paper will be available at the meeting.

White Paper:

Considerations for Regional Data Collection, Sharing and Exchange

Bruce Schmidt StreamNet Program Manager Pacific States Marine Fisheries Commission Presentation to Northwest Power and Conservation Council July14, 2009





www.streamnet.org



Many Programs Cross Jurisdictions



Current data delivery status:

Existing database projects – Focused

- StreamNet
- Pacific Northwest Water Quality Data Exchange
- Fish Passage Center
- PTAGIS, RMIS, PACFIN, RECFIN
- IBIS (wildlife data)
- Proposals Comprehensive, but not built
 - SAIC / CBCIS
 - 2000 BiOp RPA 198
 - Columbia Basin Data Center
- Efforts started Not complete
 - NED / PNAMP (NED Portal, ISTM)
 - Columbia Basin Center of Knowledge (Canadian & US data)

Existing database projects







Smooth, organized v. current inefficient approach





Improve from there:



Multiple types of data from multiple sources, standardized by data type

The essential driver of a comprehensive data delivery system:



Multiple types of data from multiple sources, standardized by data type

Automation is the key!

- Efficiency, Speed
- Accuracy
- Automatic data updates
- Canned products
- Translation to regional format



Essential for <u>any</u> database technology

Continue to evolve:



Multiple types of data from multiple sources, standardized by data type

The ultimate endpoint??



Multiple types of data from multiple sources, standardized by data type

How does the Data Sharing Guide help?



- Organize discussions
- Consider ALL components
- Provide a blueprint
- Identify needed support

Assure that when a system is built, the data are there to deliver! The Data Sharing Guide addresses data flow from field to highest reporting need Non prescriptive Any data type Any agency Non-technical

Primary focus is on infrastructure and processes to assure data accessibility

Previous Proposals



Vendors pitched their output tool...

but not getting data to the tool

1. Uninterrupted data flow, source to output





- 1. Uninterrupted data flow, source to output
- 2. Data validated by agency

- 1. Uninterrupted data flow, source to output
- 2. Data validated by agency
- 3. Descriptive information (metadata)



Χ.	Υ.
238	51
375	28
265	44

- 1. Uninterrupted data flow, source to output
- 2. Data validated by agency
- 3. Descriptive information (metadata)
- 4. Data and metadata on the Internet



- 1. Uninterrupted data flow, source to output
- 2. Data validated by agency
- 3. Descriptive information (metadata)
- 4. Data and metadata on the Internet
- 5. Data able to roll together

Ideal: standard data collection, definition, codes

Minimum: Data translate to a standard

All of this is needed for seamless data delivery to ANY regional tool

We can implement these steps <u>before</u> deciding on a data sharing tool















Sampling Crews





Create the data Data Entry QA Describe the data Maintain the data







Policy

Makers



Establish procedures Set standards, codes Agency data systems Post data / metadata Biological & data mgt. responsibilities

Sampling

Agencies

Sampling Crews

Negotiate key issues Metrics Methods Data disposition Contract language Support data automation





Sampling

Agencies





Set priorities Policies to remove obstacles to data sharing Agency support









Technical assistance System development Data tasks for agencies Post data & metadata Feed regional data tools

Sampling

Agencies



So, why <u>don't</u> we have a regional data delivery system?



Infrastructure to automate data flow is not in place

Focus was on the data delivery tool

Didn't address all roles

We think the Data Sharing Guide will help to:



inform development of a regional data system

avoid skipping essential components

Get us started

Questions?



www.streamnet.org



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