7 CVPIA Data Management Strategy

Megan Cook, CVPIA Science Coordinator Sadie Gill, FlowWest





— BUREAU OF — RECLAMATION

Central Valley Project Improvement Act (CVPIA)

- Co-implemented by the U.S. Fish and Wildlife Service and Bureau of Reclamation
- Establishes abundance goals for Chinook salmon,
 O. mykiss, and green and white sturgeon
- Established a science-based prioritization and adaptive management process, founded on Structured Decision Making



CVPIA Science Integration Team (SIT)



ADAPTIVE

COLLABORATIVE TRANSPARENT

Near-term Restoration Strategy



Restoration Actions for Chinook salmon



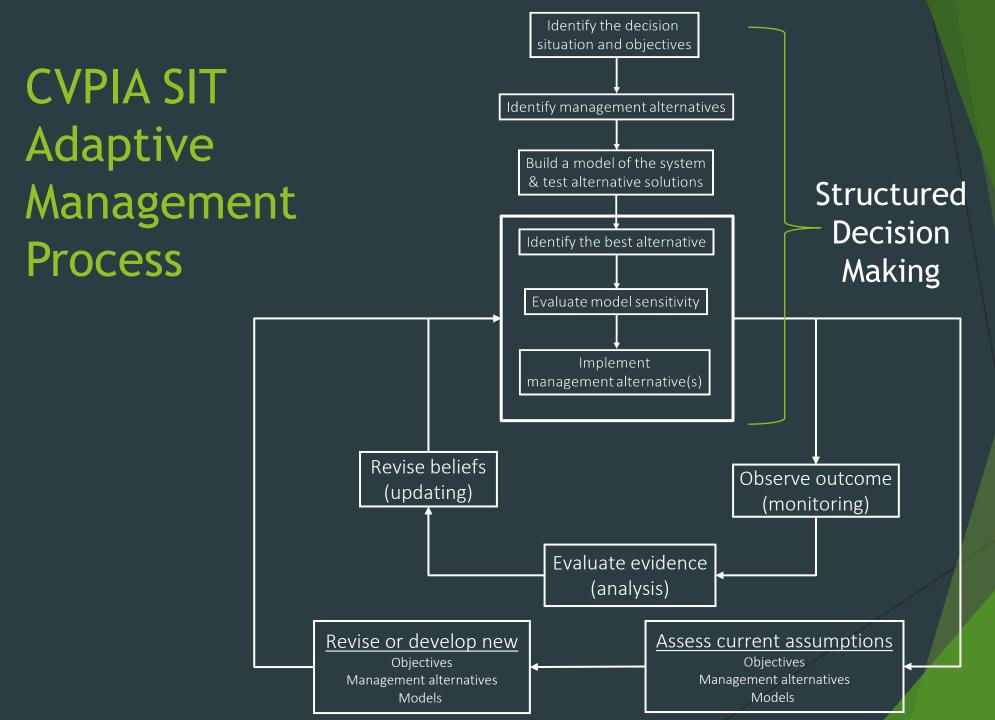
Information Needs for Chinook, O. mykiss, and sturgeon



Five-year Timeline



Annual Updates



CVPIA Data Management Strategy

Transparency

 Make all model code, data, and analyses open source and available to the public

Accessibility

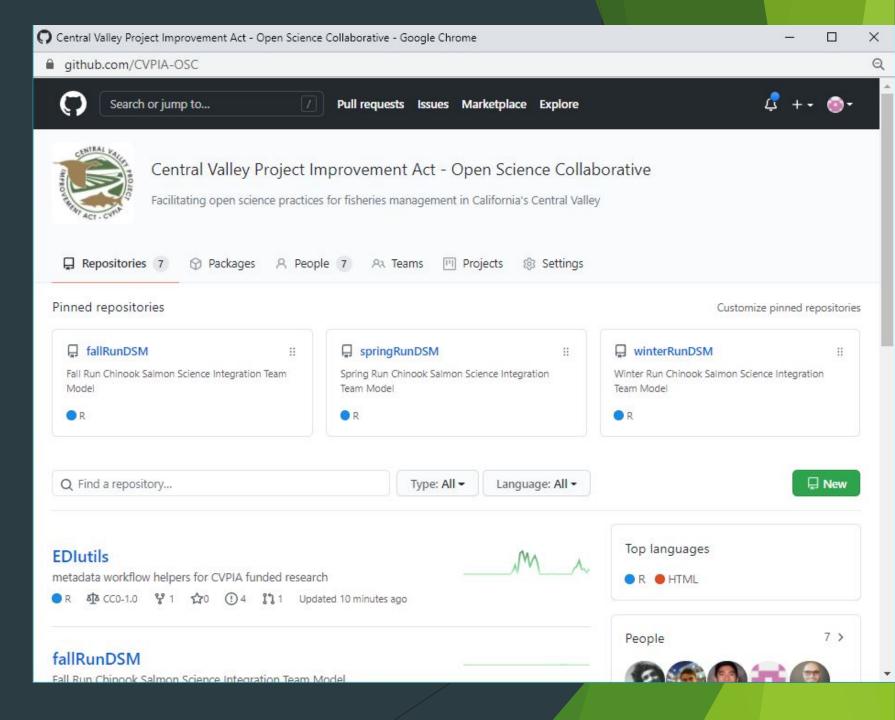
Publish data in accessible formats in a single location



Models, source code, data available

Version
 controlled
 collaboration





Data Accessibility

 Metadata standard for consistent metadata (EML)

Tools to assist data stewards

Centralized data repository (EDI) EDIutils 0.0.0.9000 Reference Articles -

Creating EML Using cvpiaEDIutils

The following libraries are needed to create a working EML document.

library(cvpiaEDIutils)
library(tidyverse)
library(readx1)
library(EML)

In this document, we create an EML file which has the opportunity to append the following elements:

- eml -dataset - creator - contact associated party - title - short name - abstract - keyword set intellectual rights - license - methods - maintenance coverage - geographic coverage - temporal coverage - taxonomic coverage - data table - physical

- attribute list

- methods

Our Example

We will use the data provided by John Hannon to show an example of how to put the metadata together in a way which can be uploaded to the EDI data portal website. The excel sheet of which Hannon's data resides is found in "~/data-raw/template/template.xlsx". This file can be edited with your data and used with this document to create your own working EML

Contents

Our Example

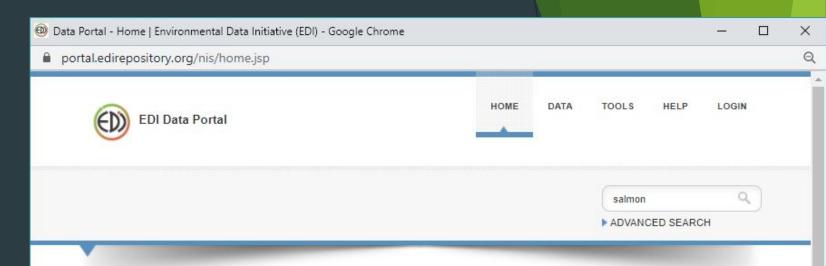
Creating EML

Putting It All Together

Centralized Data Repository

Environmental Data Initiative (EDI)

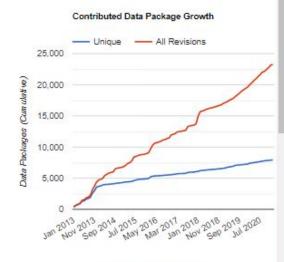




Welcome to the EDI Data Portal

Data are one of the most valuable products curated by the Environmental Data Initiative (EDI). Data and metadata derived from publicly funded research are made available through this website with as few restrictions as possible, and on a non-discriminatory basis. In return, EDI expects users of data to act ethically by contacting the data provider prior to using it in any published research. In accordance with professional etiquette, data accessed from this website should be cited appropriately when used in a publication. A digital object identifier (DOI) is provided for each dataset to facilitate citation.

The EDI Data Portal contains environmental and ecological data packages contributed by a number of participating organizations. Data providers make every effort to release data in a timely fashion and with attention to accurate, well-designed and well-documented data. To understand data fully, please read the associated metadata and contact data providers if you have any questions. Data may be used in a manner conforming with the license information found in the "Intellectual Rights" section of the data package metadata or defaults to the EDI Data Policy. The Environmental Data Initiative shall not be liable for any damages resulting from misinterpretation or misuse of the data or metadata.



Contributed Data Packages Unique: 7924; All Revisions: 23272

Total Data Packages (including EcoTrends and Landsat) Unique: 44290; All Revisions: 75041 Contact Information Megan Cook megan_cook@fws.gov Sadie Gill sgill@flowwest.com