

## 2021-23 Framework Data Development Program Projects

### ***CMECS Biotic Component data development for Seagrass and Canopy forming Algal Beds***

#### ***Contact Information***

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#### **Project abstract**

This project will conduct habitat mapping of estuary intertidal eelgrass and nearshore kelp beds for use in natural resource planning, research, and management. Habitats will be classified and mapped using the federal Coastal and Marine Ecological Classification Standard (FGDC standard 018-2012) and will augment an existing framework element: the CMECS Biotic Component Feature Class. The CMECS product will benefit the Oregon framework community of users by filling a gap in habitat mapping for two important resources that the state has responsibility to manage, and by addressing business needs of multiple agencies, including ODFW, DSL, and DLCDC. Both kelp and eelgrass are considered aquatic habitats of special concern and data collection / mapping related to submerged aquatic vegetation has been named as a bullet in one of five actions that Oregon should take to adapt to and mitigate climate change impacts such as Ocean Acidification and Hypoxia.

### ***Enrich and Maintain Structure Data (Bldg Footprints) in Lane County***

#### ***Contact Information:***

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#### **Project abstract**

Lane Council of Governments (LCOG) seeks to enrich the Lane County Regional Structures layer with critical attributes necessary to perform GIS analysis quickly and consistently and will include attributes such as year built, occupancy, building type, property use, height, square footage, improvement value, address, critical facility designation and ownership information. Work is needed to further improve the spatial accuracy and relationship between the structure, address point and taxlot, which provides the necessary building block for associating these attributes. The result of this work will greatly benefit all levels of government in disaster preparedness, risk or damage assessments, as well as eliminate the need for searching and requesting data from multiple sources and in various formats. The enriched structures data will be available for inclusion to the Statewide building footprint layer at a proposed quarterly interval and will be accompanied with documentation for metadata, methodology and maintenance.

**Fish Habitat Distribution Data  
Development Project**

**Contact Information:**

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**Project abstract**

The Framework standard Oregon Fish Habitat Distribution (FHD) Database plays an integral role in supporting both regulatory and non-regulatory business needs of multiple state and federal natural resource agencies. While the data have matured over time as a result of investments by the Oregon Department of Fish and Wildlife (ODFW), the support of multiple state and federal partners, as well as the awarding of past Framework grants, the need to further develop and maintain these data remains critically important. Datasets that identify anadromous salmonid habitat (13 total) comprise the foundation of the FHD Database, however there are now a total of 159 separate stream and lake-based datasets for 100 unique species. The increasing use of these data, especially for regulatory purposes, warrants improvements in their currency, accuracy, and completeness.

This project proposes to incorporate recent survey information and other stakeholder input to update fish habitat distribution datasets for all salmonid species. Recently added attribute elements (version 4.0 of the FHD Data Standard) will be populated and all FHD datasets will be synchronized with the current version of the high-resolution National Hydrography Dataset (NHD). Gaps in historical habitat for native migratory fish<sup>1</sup> will be filled. Lastly, contingent on partner funding, the project will evaluate methods for leveraging environmental DNA (eDNA) to identify fish habitat and will apply those to selected datasets to test the effectiveness of this new method.

**Statewide Recreation Data  
Development Project**

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**Project abstract**

Outdoor recreation is important to the enjoyment, health and economy of Oregonians. A survey as part of the Statewide Comprehensive Outdoor Recreation Plan found that 95% of Oregonians participate in outdoor recreation annually. This outdoor physical activity resulted in \$1.4 billion in health care savings in Oregon in 2018 or about 3.6% of total healthcare costs in the state. The cumulative activity accounts for 2.9% of Oregon's GDP and supports 172,000 jobs. At the same time, it is increasingly important to ensure that all Oregonians have equitable access to recreation and that amenities provide opportunities for our diverse population. Spatial information supporting and planning for all of this activity is vital to recreation providers as well as the health and business communities. However, no statewide GIS data exists so this project proposes to develop a data standard as well as statewide datasets for recreation features.

**Vertically Integrated Census  
Geography and Demographic Data  
for Equity Initiatives**

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**Project abstract**

We propose a project with progressive goals: (1) to compile census boundary data from 2010 and 2020 decennial censuses, comprising a continuous geographic spine from the census tabulation block level to the state level, which will represent the core of the census boundary element of the reference theme; (2) in consideration of the efforts of federal, state, and regional entities to produce summary indicators for equity oriented decision-making from a wide cross-section of socioeconomic, demographic, and health data, to populate the demographic data element of the Framework reference theme with data at each of the identified geographic levels, documenting methodologies employed to ensure comparability over time and that data meet standards of reliability and precision; (3) to issue methodological findings

and publish tools that incorporate the reference data elements used in various current and prospective federal, state, and regional indicator projects. In this step, we will provide Framework users with methodology and to decompose, replicate, and better understand the components of existing indicator projects that leverage health, economic, housing, demographic, and other datasets and guidance on creating and maintaining novel indicators by combinations of data series provided through the Framework, culminating with the production of an interactive application leveraging data from these and related Framework elements.

***Contribution to 2022 Statewide  
Imagery Acquisition***

***Contact Information:***

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**Project abstract**

The State of Oregon is collecting funds from federal, state, regional, and local governments to purchase 30cm resolution imagery of the state. The imagery is scheduled for collection in 2022.