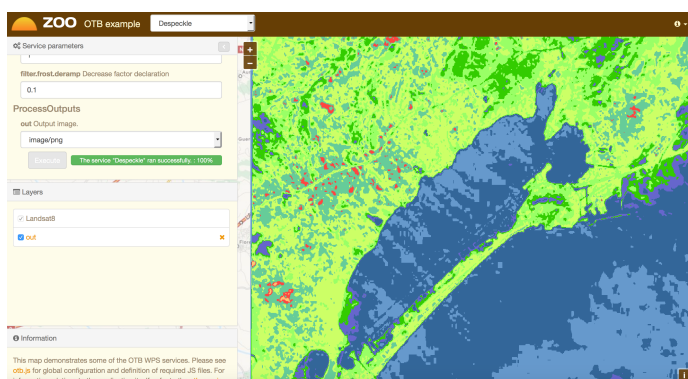# ZOO-Project

The Open WPS platform

What is

ZOO-Project provides a developer friendly Web Processing Service (WPS) framework for creating and chaining Web Processing Services, it is written in C.

It is an open source platform which implements the WPS 1.0.0 and WPS 2.0.0 standards edited by the Open Geospatial Consortium (OGC).

A WPS provides web access to functions which run spatial algorithms. ZOO-Project supports many programming languages.

Components

Its core processing engine (aka ZOO-Kernel) lets you execute a number of existing ZOO-Services based on reliable software and libraries. The ZOO-Project platform is composed by:

- ▸ **ZOO-Kernel**: A WPS compliant implementation written in C offering a powerful WPS server able to manage and chain WPS services. By loading dynamic libraries and code written in different languages

- ▸ **ZOO-Services**: A growing collection of ready to use Web Processing Services built on top of reliable open source libraries such as GDAL, GRASS GIS, OrfeoToolbox, CGAL and SAGA GIS

- ▸ **ZOO-API**: A server-side JavaScript API for creating, chaining and orchestrating the available WPS Services

- ▸ **ZOO-Client**: A client side JavaScript API for interacting with WPS servers and executing standard requests from web applications

ZOO Tribe

The ZOO Tribe is the community around the ZOO-Project and it is composed of the ZOO Tribal Council (Project Steering Comittee), ZOO Keepers (Comitters), ZOO Visitors (Users and Developers) and the ZOO supporters (Knowledge Partners and Sponsors).

ZOO Habitat

ZOO-Project is used in commercial and accademic web GIS projects where GIS analysis is required through the web.
It can also be used for complete SDI application like MapMint.

zoo-project.org