#### WFP GeoNode

Use Cases and Roadmap

Dimitris Karakostis Francesco Stompanato

March, 2018



# **World Food Programme**





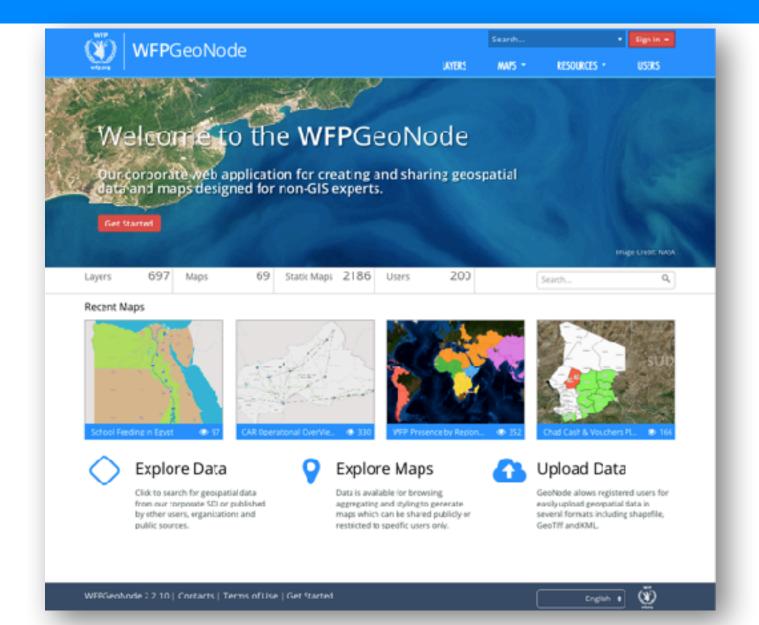
#### **Dutline**



- Introduction
- WFP GeoNode in the organization
- Technical Update
- WFP GeoNode as part of the GIS Infrastructure
- WFP GeoNode projects
- Roadmap

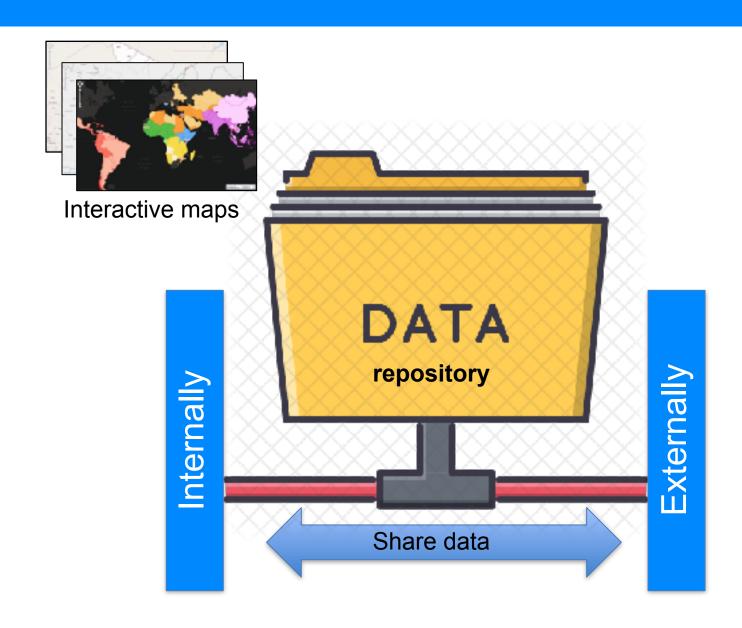
#### **Introduction**





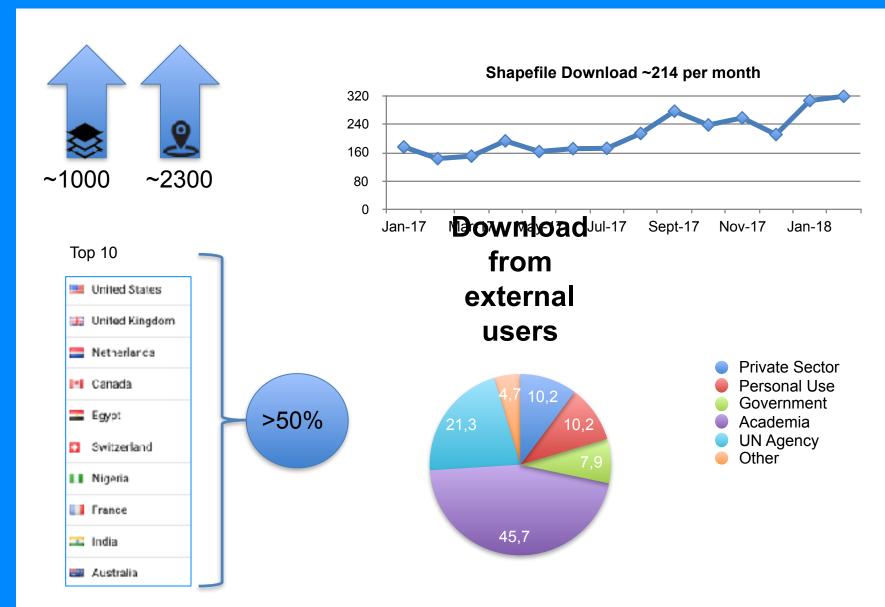
# WFP GeoNode in the organization





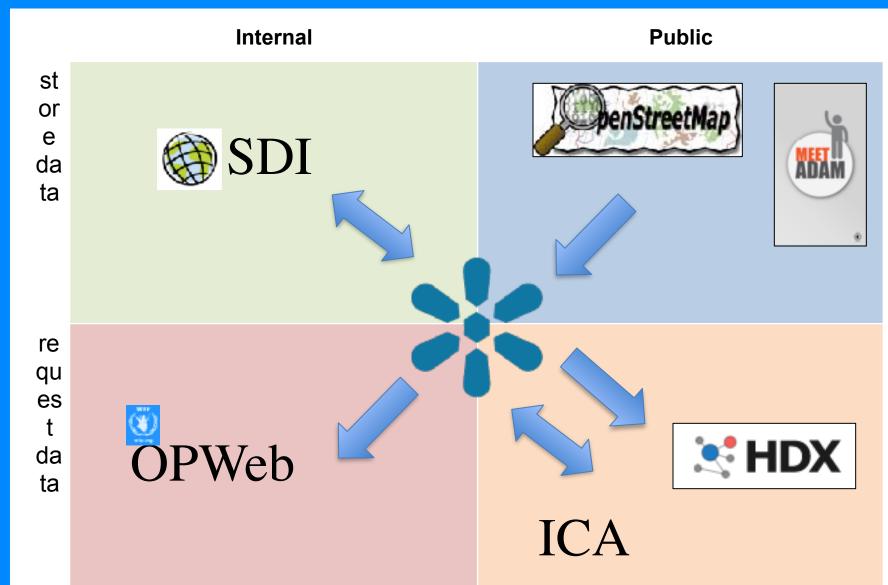
#### WFP GeoNode





## **WFP GeoNode**



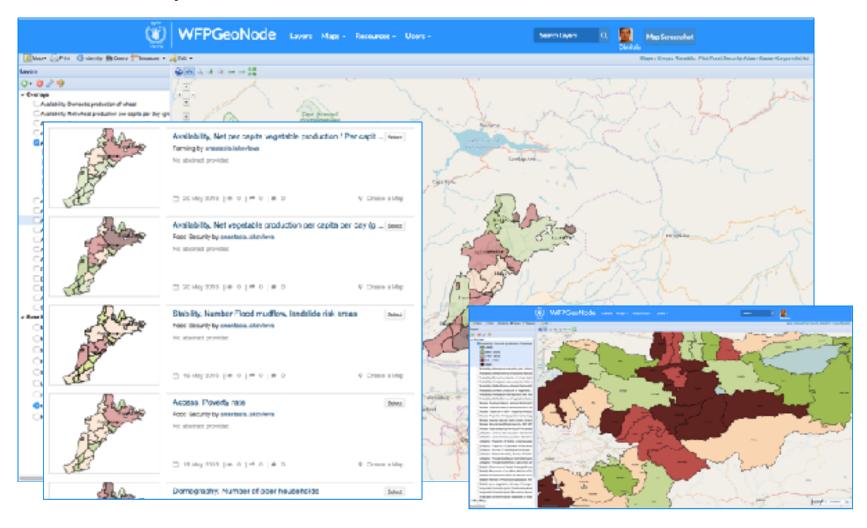


# WFP GeoNode in the organization



#### National Food Security Atlas, Kyrgyz Republic:

> 60 layers



#### WFP GeoNode Use Cases - ICA



**Requirement**: to have a dedicated page for the ICA project where it is possible to display data grouped by country and year of analysis along with other metadata information (<a href="mailto:geonode.wfp.org/imaps/ica/">geonode.wfp.org/imaps/ica/</a>).



# Integrated Context Analysis - ICA Finding WFP Integrated Context Analysis Finding WFP Integrated Context Analysis Toward Toward

ICA platform

#### WFP GeoNode Use Cases - HTA



**Requirement**: to have a dedicated page for the HTA project with a global map divided into grids. The user will search for area of interest and download corresponding map by clicking on the grid (<a href="mailto:geonode.wfp.org/imaps/hta/">geonode.wfp.org/imaps/hta/</a>)

#### HTA platform

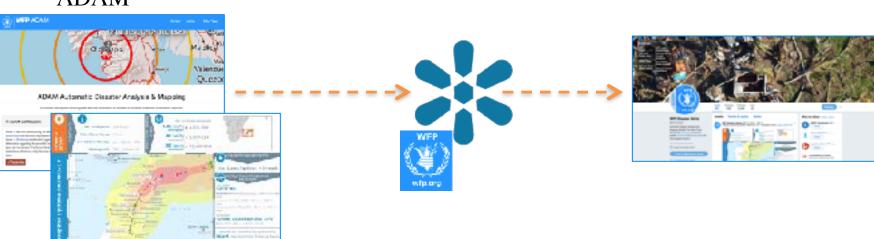


#### WFP GeoNode Use Cases - ADAM



**Description**: ADAM is an automated alert system developed to provide near-real time information for earthquakes and tropical cyclones. The generated dashboards and pivot tables are **automatically** uploaded to GeoNode and later disseminated publicly via twitter (@WFP\_ADAM).

#### **ADAM**





#### Download part of the layer using:

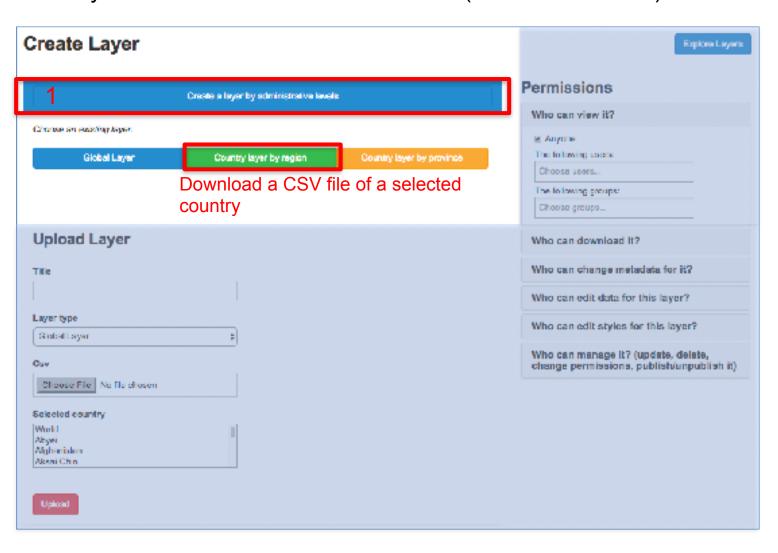
- query builder
- map selector





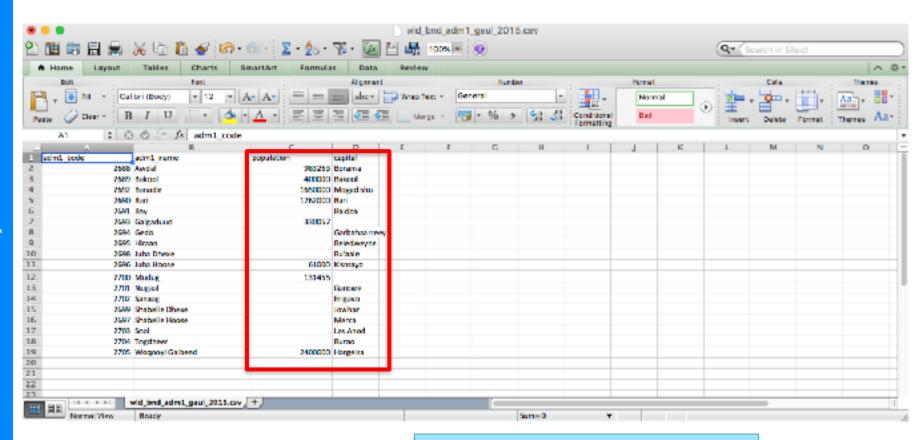


Create a Layer with Administrative Boundaries (source Gaul2015):





Open the CSV with Excel (e.g. Regions of Somalia). Add additional columns:

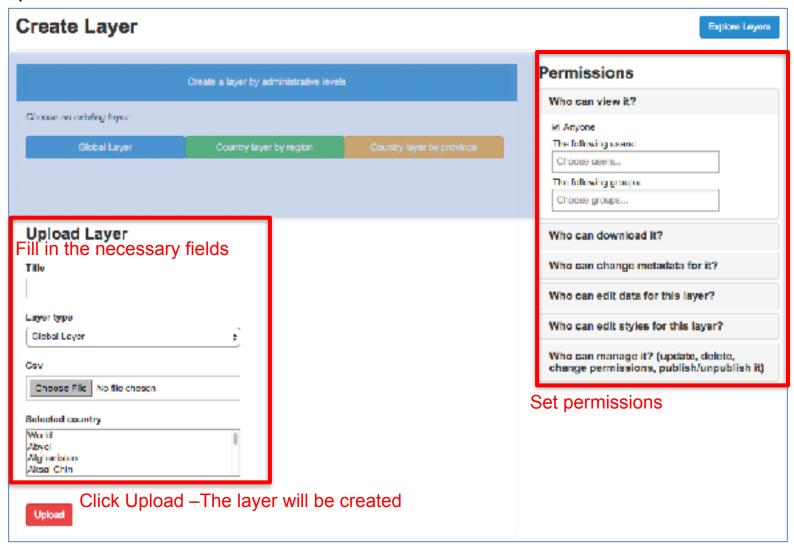


Two added two columns:

- 1. Population of each region
- 2. Capital of each region

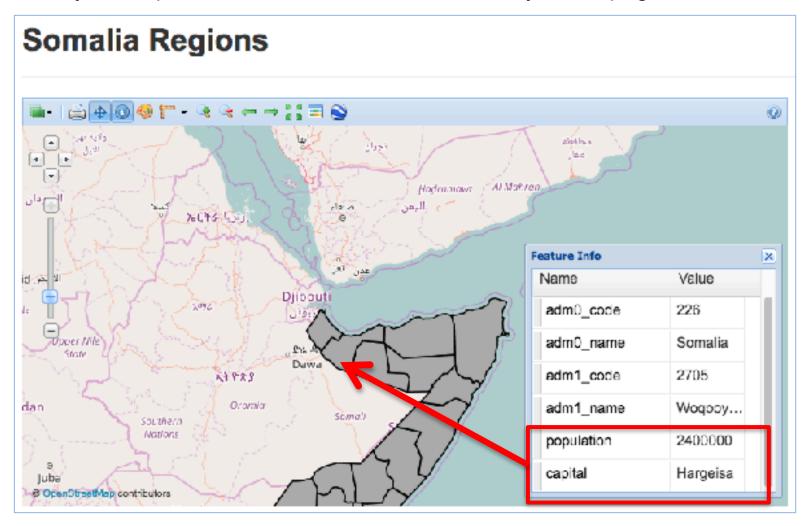


#### Upload the file:



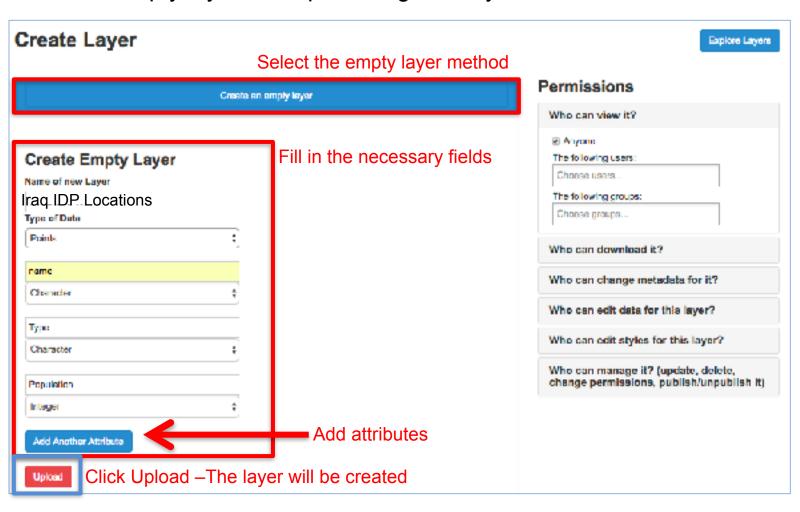


The Layer is Uploaded and can be retrieved in Layer List page



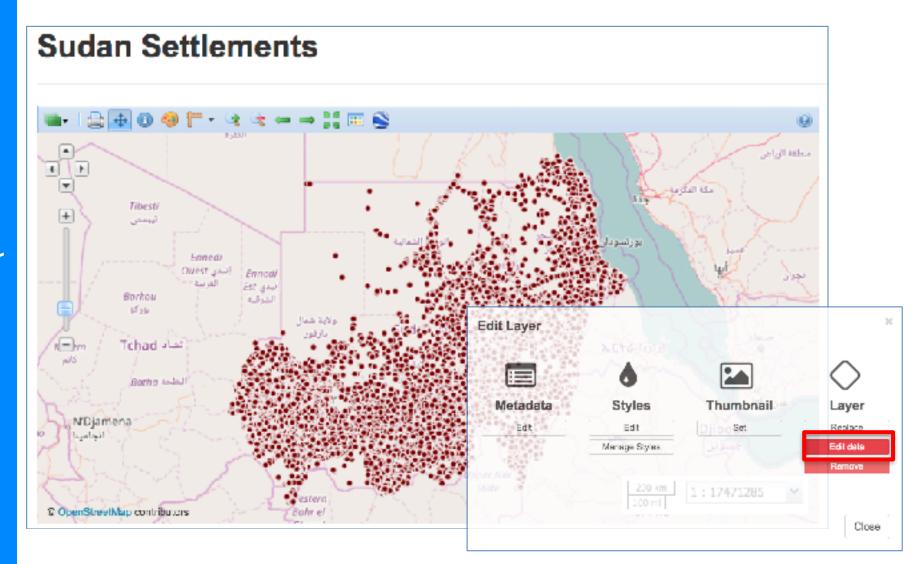


Create an empty layer with specified geometry and attributes



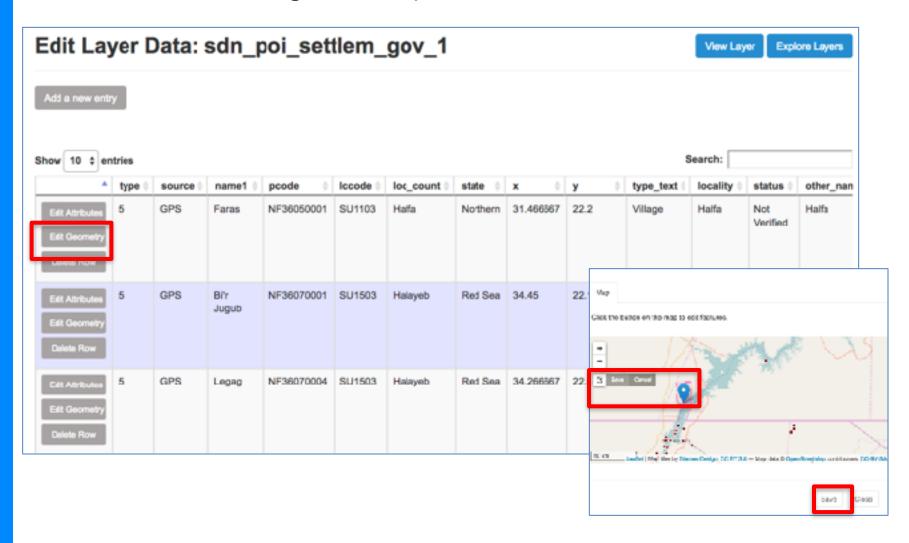


Edit data - Add new data





Current limitation: **Editing** works for points





Modified the existing remote service application to be able to select the layers to be added:

- not cascaded
- non-authenticated layers (public)



#### WFP GeoNode Use Cases - OSM



**Description**: An automated process to download OSM data in regular basis (road networks, buildings etc.) and store them in local DB. The data are displayed in GeoNode via remote services (from external geoserver) and shared with the Humanitarian Data Exchange platform.



#### **WFP GeoNode**











- Centralized repository for the projects
- Search functionality
- Project metadata (project description, type of project etc.)





## **WFP GeoNode - Next Steps**



- Implement a project catalog app.
- Redesign the WFP GeoNode homepage.
- Implement a QGIS GeoNode plugin & an ArcMap GeoNode plugin for publishing layers to GeoNode
- Keep up with the latest updates of GeoNode.
- Promote and conduct further trainings of the platform within the organization.