GEOSTORE GEOPROCESSING TECHNICAL DOCUMENTATION

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Geostore GEOPROCESSING

To expedite the process in which projects inside the Geostore are classified in terms of surface type and quality, Geoprocessing Dashboard and Tools are made available to certain users determined by the Geostore administrators. There, one is able to see all the projects inside the Geostore, classify the images inside the projects by surface type and classification, and see statistics from these classifications by project.justice jose pere

GEOPROCESSING COMPONENTS

Geoprocessing Dashboard

The Geoprocessing Dashboard is where the user can see all existing projects inside the Geostore, including projects that are available for geoprocessing and projects that have been geoprocessed. From here, the user has the option to use geoprocessing tools or view geoprocessing statistics.

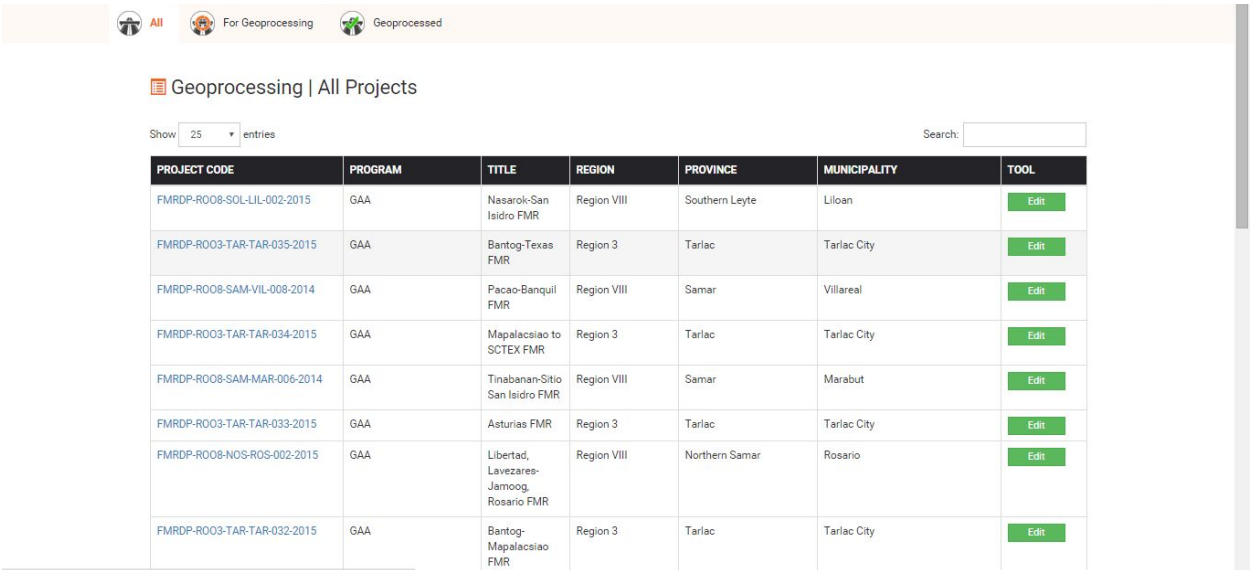

Fig. 1.1 - Geoprocessing Dashboard landing page

Geoprocessing Tools

The Geoprocessing Tool is where the user can classify parts of a road by surface type and classification. This happens in such a way that the user is presented with a series of images which he has to classify one by one. Keyboard shortcuts help hasten this process.

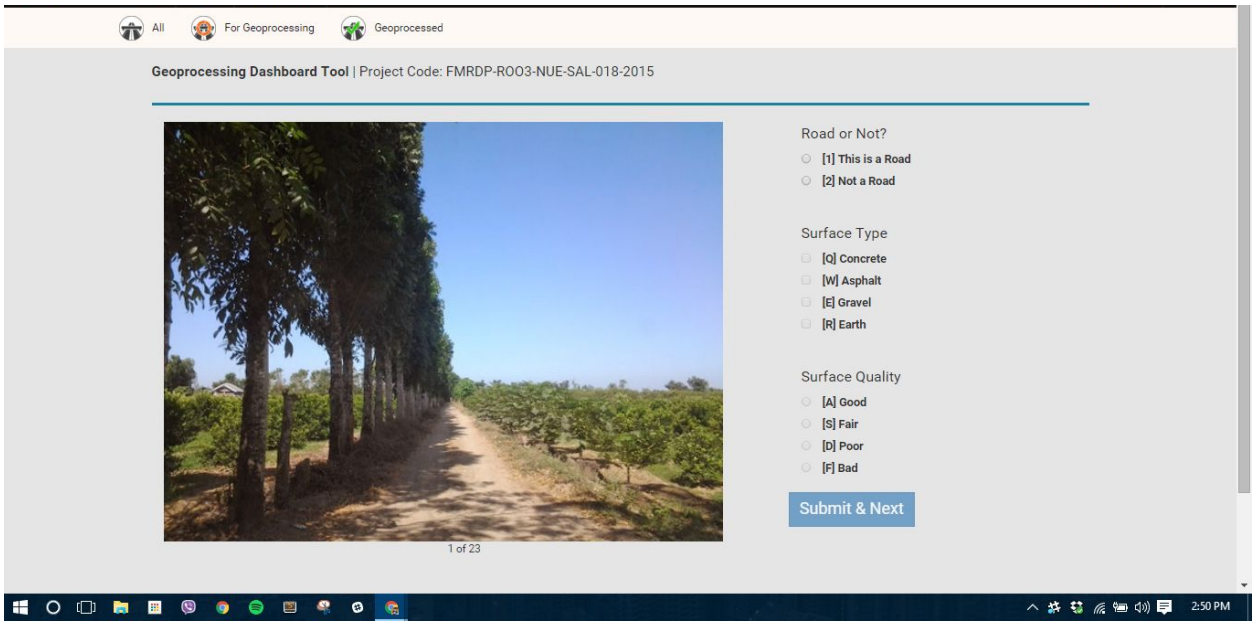

Fig. 1.2 - Geoprocessing Tool

Geoprocessing Statistics

The Geoprocessing Statistics exist for every project. It allows the user to see figures such as the number of classifications per surface type and surface quality, and charts representing these. The user is also able to see individual classifications per image, the user who classified such, and the date the classifications were made. Here, a map is also present where user can view the actual project and the surface type and quality on their appropriate locations.

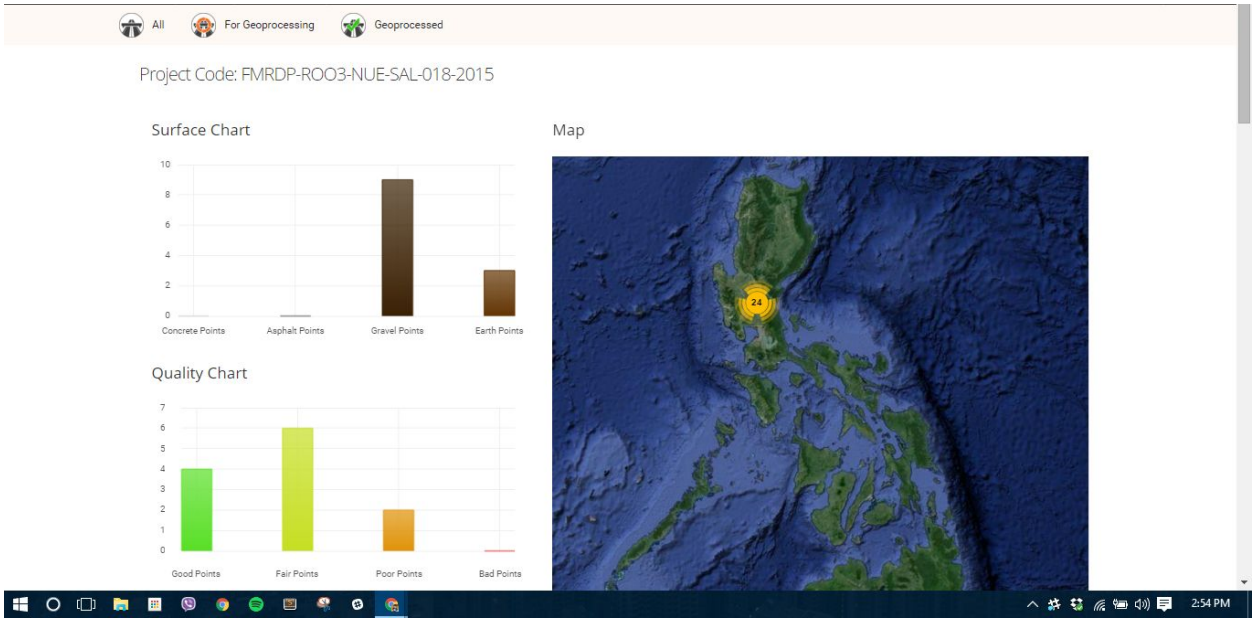

Fig. 1.3 - Geoprocessing Statistics showing charts and map showing location of project in view

Export Geoprocessed and Merged KMLs

The user is able to export KML tracks of every project merged with surface type and quality classifications. This KML track can then be utilized for purposes such as exporting to Google Earth.

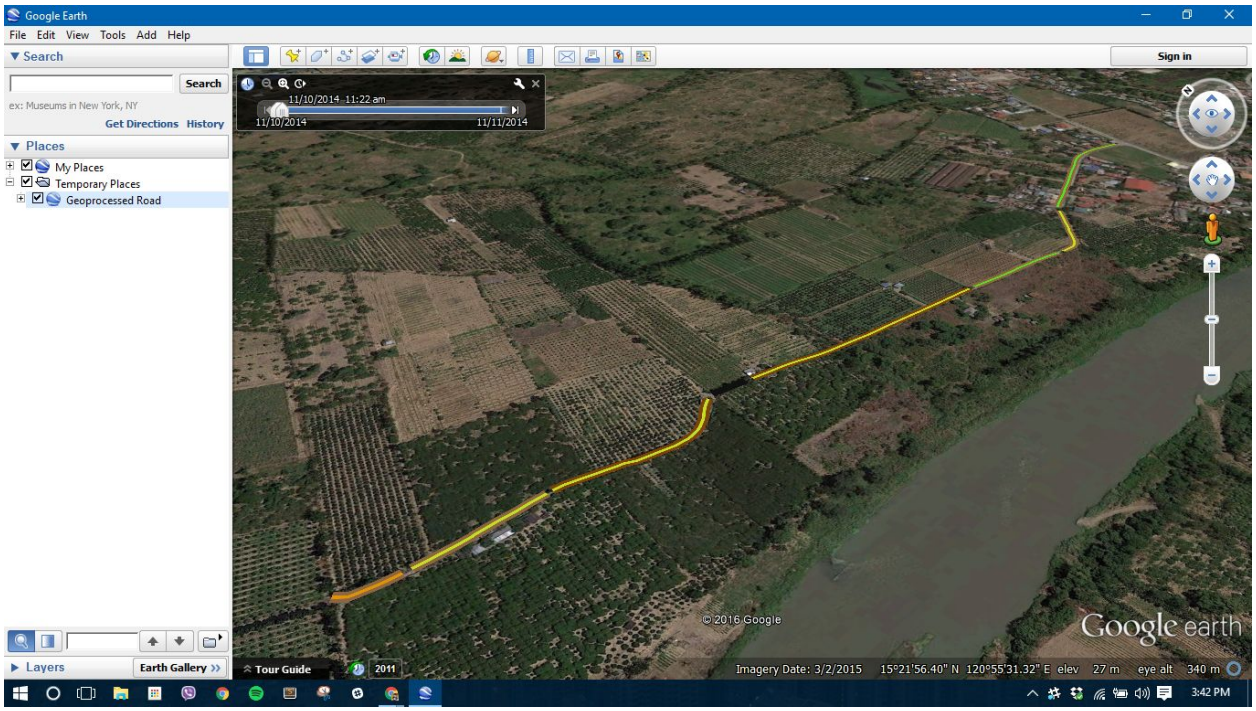

Fig. 1.4 - Exported geoprocessed and merged KML opened in Google Earth.

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GEOPROCESSING WORKFLOW

User must first view the Geoprocessing Dashboard to see which projects needs to be geoprocessed. When user has already chosen a project to geoprocess, he then proceeds to the Geoprocessing tool. After geoprocessing the entire set, User can then view Geoprocessing Statistics and export geoprocessed and merged KML.

Geoprocessing Tool Workflow Orientation

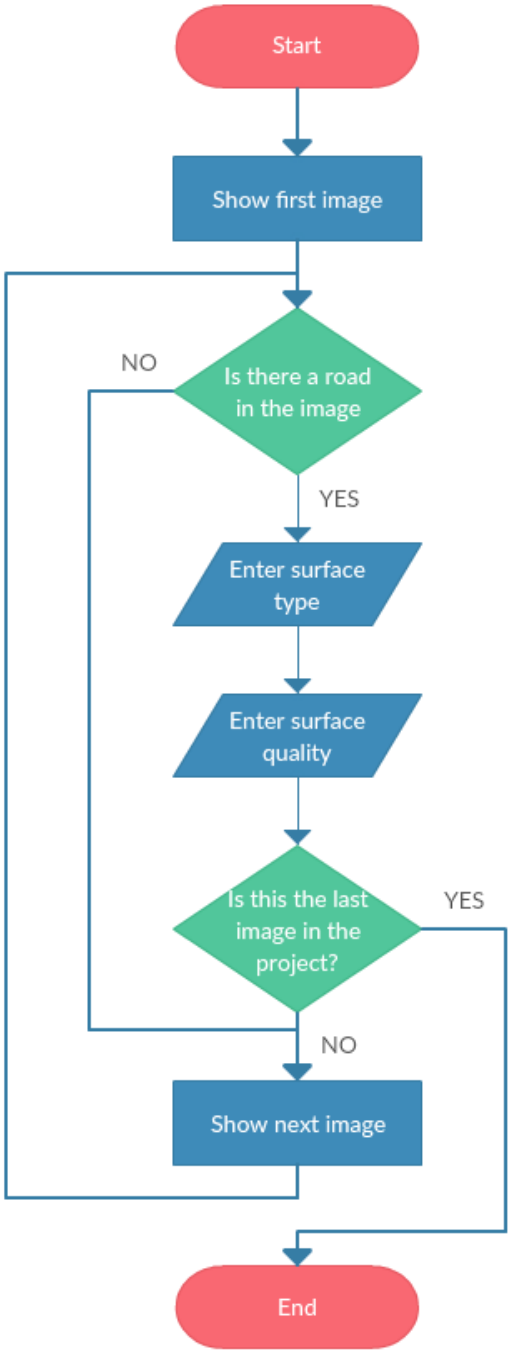

Fig. 1.5 - Geoprocessing Tool Workflow Illustration

FURTHER EFFECTS

After the geoprocessing process is done, the surface type and quality classification will now then be visible on the Geostore Viewer (Geostore User Manual 8.1.4 Geostore Viewer) through the Geostore Image Viewer (Geostore Manual 8.1.4.5 Geostore Image Viewer). Unlike in Geostore Statistics that both surface type and quality is directly visible on the map in Geostore Viewer, such classifications can be seen in the kilometer indicator in Geostore Image Viewer.

In the Geostore Image Viewer, the user has also an option to classify surface type and quality.

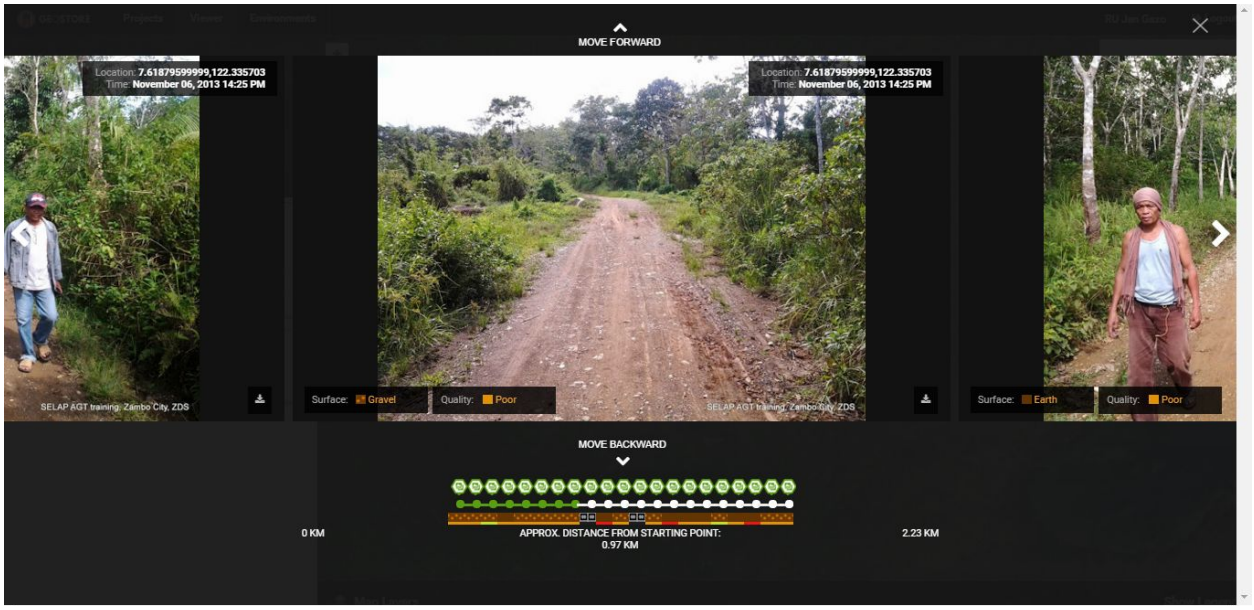

Fig. 1.6 - Geostore Image Viewer with surface type and quality classification below the image.

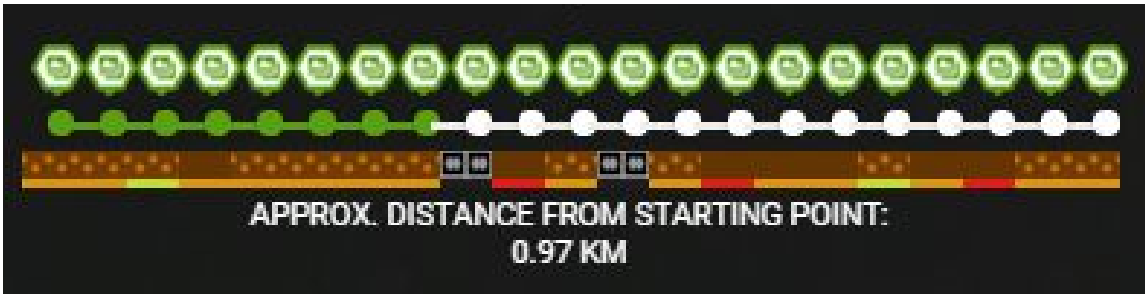

Fig. 1.7 -