



Remote Sensing and Terrain Analysis

Have you wondered how Google is able to create the 3D models that you use everyday when searching for a place in Google Earth. Now you can do it yourself using QGIS. This program will teach you how to process LiDAR and orthophotos to create a 3D scene of Mount St. Helens.

Climate Change

There are many possible applications of GIS in other areas. For example, in view of the increasing frequency and severity of extreme weather events, it would be possible to determine the vulnerability of towns and cities to risks such as flooding, wind damage and wildfires.



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GIS Freeway P.1

HPI, Geomatics Applied Learning Program

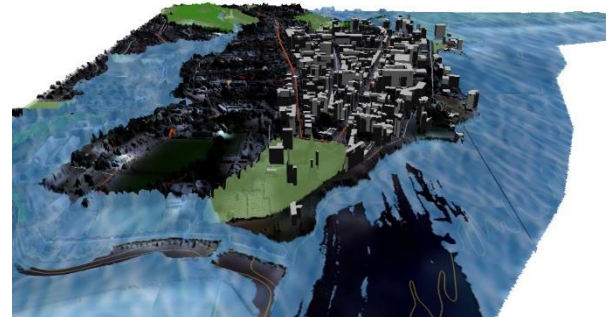
To Learn More, Please Visit, <https://www.humanspace.org>

The HPI, Geomatics Applied Learning Program has been designed to train students to take advantage of the many excellent open-source GIS software programs now available. The software used is recently developed and has been fully tested to operate without issue. The instructions provided are clear, concise and fully illustrated with many screen shots to guide a user through the various in-class-demo steps. They include practical, hands on, activities, training students in the use of QGIS and associated plugins.

One of the in-class-demos includes a study of sea level rise in St. Andrews, Scotland. The sequence of scenes, shows the sea level rising by 2, 4, 6, 8.5 and 10 metres. An increase of this magnitude may appear exaggerated at the present time, but the IPCC has predicted that sea level rise will continue for centuries and millennia even if CO₂ emissions stop. During the last interglacial warm spell, the sea level increased by 8.5 metres before the climate changed to an ice age.



The above image shows a Digital Surface Model (DSM), 3D scene representation of Mount St. Helens.



The above image shows a 8.5 meter Sea Level Rise in and around St. Andrews, Scotland.





Upcoming Events

- **HPI Geomatics Applied Learning Program, NOW AVIALBLE FOR PURCHASE! VISIT OUR WEBSITE**

<https://www.gisfreeway.ca>

- A. Tickets for Online Classes included with purchase of courses. Will take place once a month, starting, September 6 2022, 3:30pm. Zoom will be used to facilitate online classes.

HPI GALP Issue 2 June, 2022



EABP Geospatial
consulting

Ottawa, Ontario, Canada

<https://www.gisfreeway.ca>