Pipeline Alignment Elevation using GoogleAPI

# Purpose

When doing options assessment of rudimentary/first pass of pipeline alignments, this tool aims to address the need for obtaining surface elevation profile.

# Disclaimer

* This elevation data is extracted from Google Maps API with an accuracy of approximately “xxx”.
* NOT SUITABLE FOR DETAILED DESIGN, PLEASE ASK GIS TEAM

# Features

* Provides elevation of single point if only one node selected
* Graphs elevation for 2 or more nodes
* Alignment can be edited and graph will plot the alignment shown:
* Delete any node
* Export the current alignment to a .csv file to obtain distance and elevation along a specified number of points (default 54 points)
* Export a .pdf image of “xxx”
* Export a .csv file of LatLng co-ordinates to convert to .shp file of the pipe alignment in GIS.

# How to

This tool is a local webpage with Google Maps, controls are the same as accessing Google Maps with plotting functionality. MUST be connected to Internet.

Standard Google Maps features:

* Zoom
* Street View
* Map View (with/without terrain)
* Satellite View (with/without labels)
* Fullscreen Mode

1. Open the tool at S:… /pipeline-alignment-elevelation-using-GoogleMapsAPI.html
2. Click on the map to create your alignment:
   1. A point can be specified in latlng co-ordinates in the text field at top
   2. If you’re only interested in one point, create a node and a window will show the elevation
   3. If you’ve made a mistake, right-click to delete the node or choose to clear all nodes
   4. Drag any node to adjust its position – undo button appears if unhappy
   5. Click and drag any translucent nodes to add an in-between node
   6. Click on the alignment line to drag the entire profile

Note: the graph and data rely on your entire line so whatever is displayed will be read

1. Specify the number of points to collect as required, defaults to 54 points.
2. Once satisfied with alignment you can:

Options:

* 1. Export to .csv
  2. Export snapshot to pdf for report appendices
  3. Export to co-ordinates to a .csv to convert to .shp file

To bring this tool to client meetings/workshops, simply .zip the folder and extract to use as normal.