# GIS Scientist Coding Challenge

Given a point-cloud, write a script to extract meaningful features. Your code should be reproducible and open-source. The less library dependent, the better. Additionally, all products should be attached.

You can use either or both of the following point-clouds for testing your script:
(2GB/file) (EPSG:7415):
- https://download.pdok.nl/rws/ahn3/v1_0/laz/C_37EZ1.LAZ
- https://download.pdok.nl/rws/ahn3/v1_0/laz/C_37EZ2.LAZ

You might need to convert from LAS to LAZ. This can be done with LAStools. There are multiple Python, C, and MATLAB libraries that will read and work with LAS files.

Meaningful features include, but are not limited to: Buildings, trees, roads, rivers.

Please well document your solution, and provide visuals; all in a pdf.

Your submission will be evaluated on the following criteria:
- Creative Solutions
- Logical correctness
- Documentation
- Coding quality (performance, structure, tests)

We encourage you to both leverage your expertise, and to fully develop your code, with the inclusion of good comments, folder structure, unit tests if appropriate.