**Project title**:

Recognizing Spatial Temporal of Fire in the Netherlands with VIIRS and MODIS data

**Educational aims**

The aim of this study is to get information about the fire spread in a fragmented dense western country such as the Netherlands. With this information, spatiotemporal pattern of future fires can be predicted and modelled.

**Research question:**

What are the current spatiotemporal patterns of fire in the Netherlands based on MODIS and VIIRS fire detection data between 2012-01 to 2019-01 with VIIRS data and 2000 to 2019-01 data?

**Project description and timetable:**

The project is going to focus on spatiotemporal patterns of fire in the Netherlands for the last 10 years. The base data for the fires are from the satellite instruments MODIS and VIIRS. The data from the land use is from the CORINE dataset.

**Methodology**

The currently used datasets are coming from the FTP server ftp://fuoco.geog.umd.edu/ for the fire datasets, <https://land.copernicus.eu/pan-european/corine-land-cover/clc2018?tab=download> for the land use datasets and https://www.pdok.nl/ for the datasets about administrative data about the Netherlands. These datasets are going to be parsed and going to be statistical analysed with self-made scripts that are written in Python 3.7.

A screenshot of a cell phone

Description automatically generated