COLLABORATIVE CARTOGRAPHY OF CYCLING INFRASTRUCTURE FOR ROUTE OPTIMIZATION AND THEMATIC MAPS IN MEDELLIN, COLOMBIA.
According to the World Health Organization’s (WHO’s) 2018 Ambient Air Quality Database, Medellín is ranked #9 out of the most polluted cities and towns in Latin America based on PM2.5 pollutants.
The project is a cooperation between GeoLab (Universidad de Antioquia), and SiCLas (group of cyclists), both present in Medellin (Colombia), proposes a collaborative mapping by bicycle users as an urban transport mode.
STUDY AREA

CYCLE ROUTES PRESENTS IN MEDELLIN TOWN
GOALS

Mapping existing cycling infrastructure and alternate cycling routes using the bicycle as a mode of urban transport in Medellin for the optimization of routes and thematic maps with geospatial tools and open data.
1. Information collection
2. Gathering of data in field
3. Data analysis and visualization of thematic maps
EXPECTED RESULTS

- Analysis of information collected to characterize urban cyclists and identify preferred routes, insecure areas, among others.
- Platform that allows the spatial visualization of the possible routes of mobility for bike use.

- Users will be able to report security attributes (theft, intimidation), infrastructure (damage of the cycle routes), environmental problems and mobility (more frequented areas, cycle rides).
THANK YOU!

semillerogeolab@udea.edu.co