GEOG0186: Foundations of Geography I
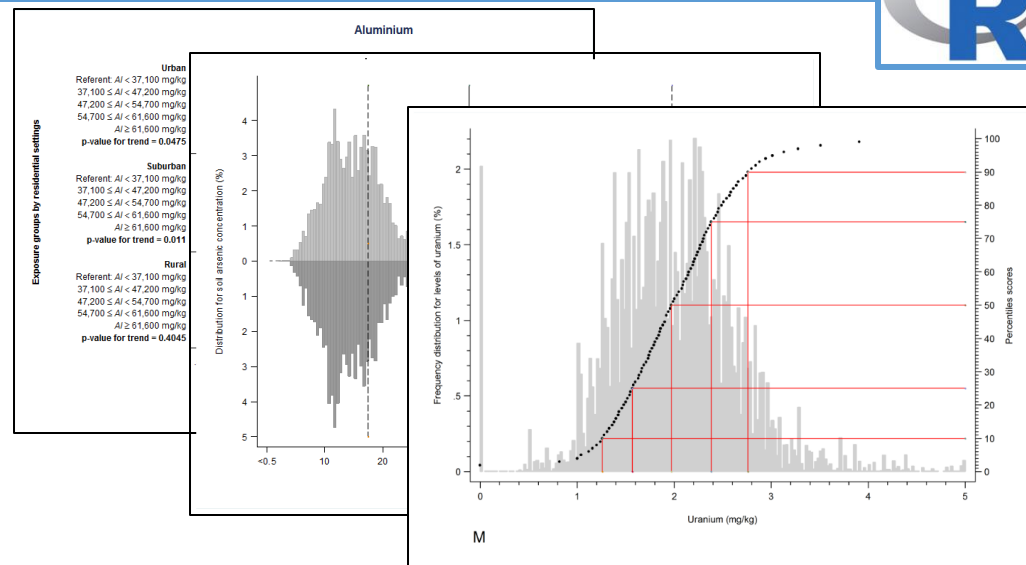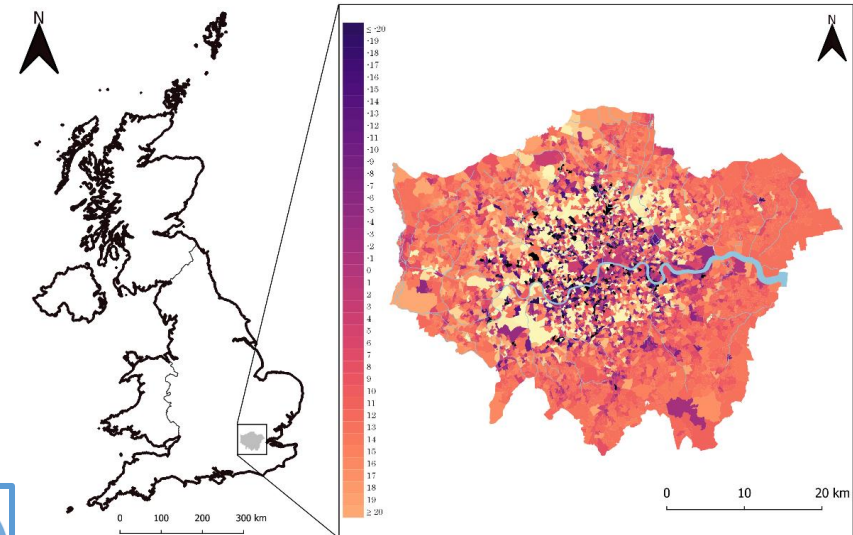
Quantitative Skills

RStudio and Downloading it

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What is RStudio?

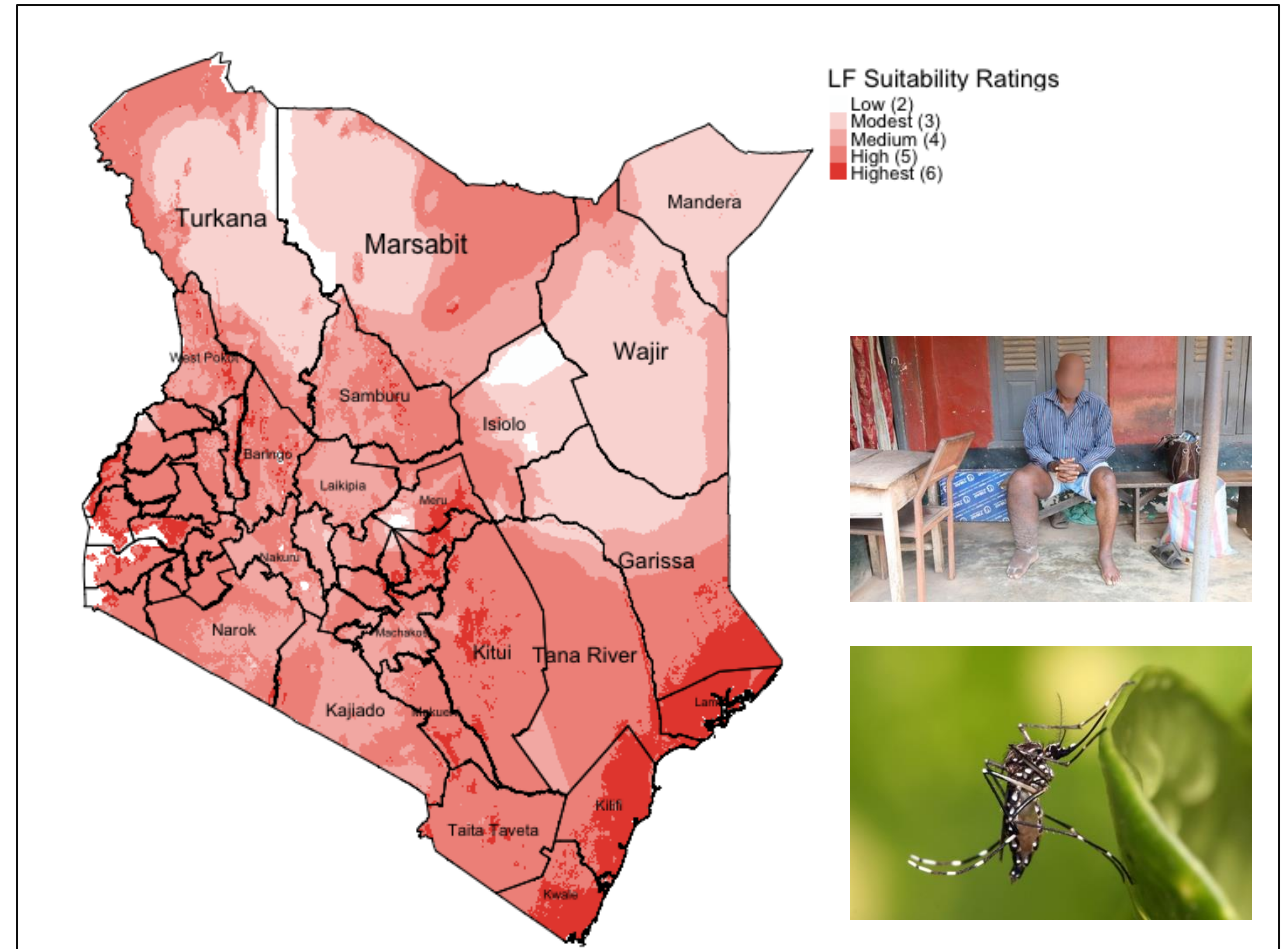# What is RStudio?

R (Standard)

RStudio (Best)

There are two version of the software: 1.) R, and 2.) **RStudio**; The second is much preferred as its straightforward and intuitive.

Why are we teaching RStudio?

1. Flexible and provides access to powerful packages for analysis

2. Impressive graphs, visualizations and maps

3. Excellent statistical capabilities too

Example: Map generated in R to illustrate areas that are environmentally suitable for the spread of neglected tropical disease called 'Lymphatic Filariasis (LF)' in Kenya.

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… and why learn how to code in RStudio?

1. **Efficiency**
   - Automated tasks and data managing
   - Can recycle & reuse code scripts for new projects

2. **Fosters good scientific practice**
   - Transparency and replication (AKA reproducible research)
   - Creates log so anyone can follow in your footstep (i.e., github, gitlab etc.,)

You can literally pull-off some really creative stuff like generating websites, accessing tools via APIs etc.

Example: Working in RStudio and synchronising it with GitHub to not only use as a cloud back-up, but to generate a website through RStudio and GitHub for teaching MSc Students.

Sources:
1. **GitHub (https://github.com)**

Base R coding style   **Tidyverse coding style**

Instructions for Downloading RStudio