# Hospital site suitability Analysis model for Nyeri constituency

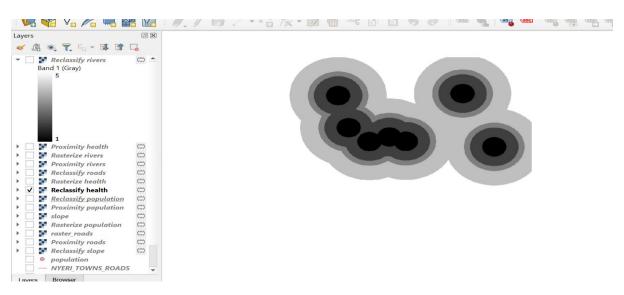
#### James Muiru

## Criteria for Hospital site selection

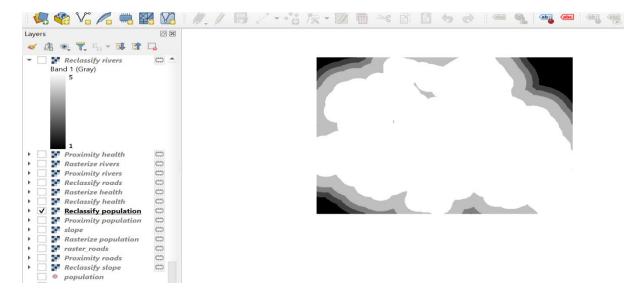
- 1) Slope -Hospitals should not be constructed on a steep slope to reduce the cost of production.
- 2)Accessibility -Hospitals should be near roads for some reasons
  - i)Easy delivery of medicines and medical equipment.
  - ii) Handling patients with emergency medical treatment.
  - iii)To make it easy for patients to access the hospital.
- 3)Population-Hospitals should be established in areas with high population since population is directly proportional to medical needs.
- 4)Rivers- Hospitals should be established away from rivers in order to avoid the pollution of rivers.

Criteria for our suitability analysis screenshots

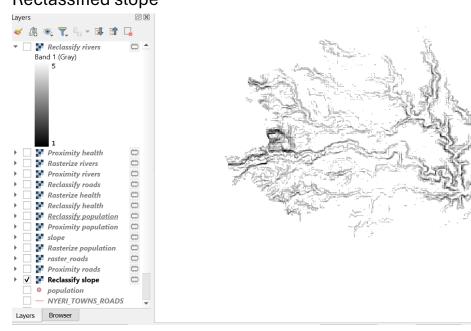
### Reclassified health



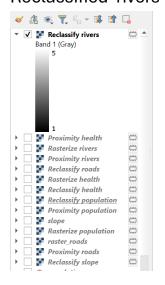
Reclassified population

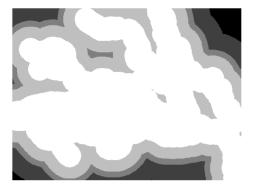


## Reclassified slope

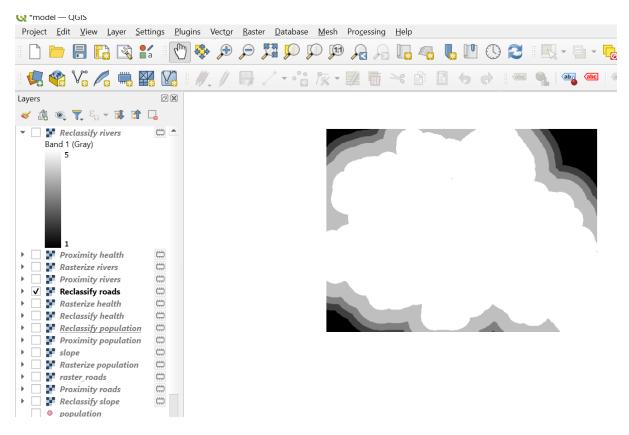


### Reclassified rivers

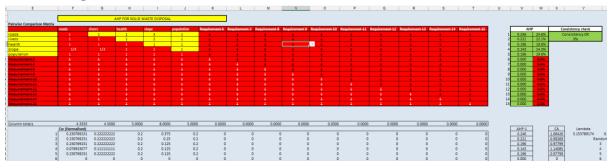




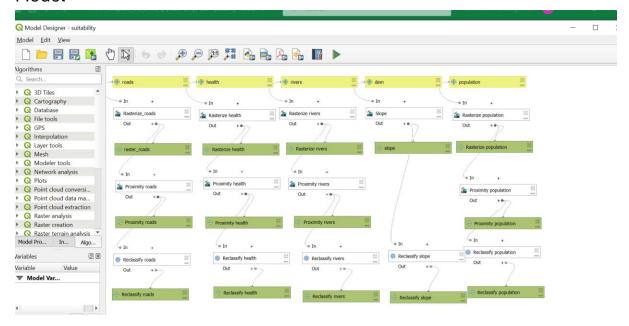
## Reclassified roads



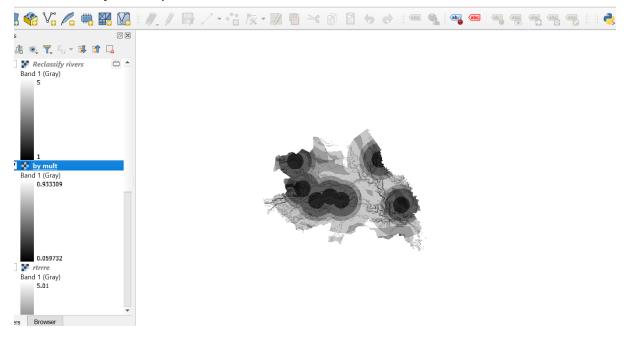
# AHP weights



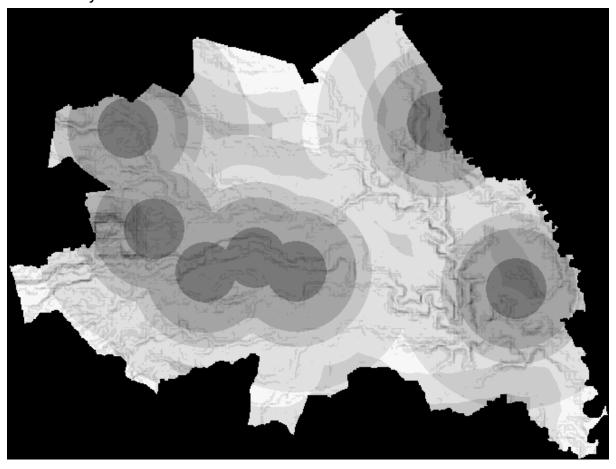
#### Model



# OUTPUT by multiplication



# OUTPUT by addition



The darker the area the better the site