

Exercise 5 Spatial Discontinuity

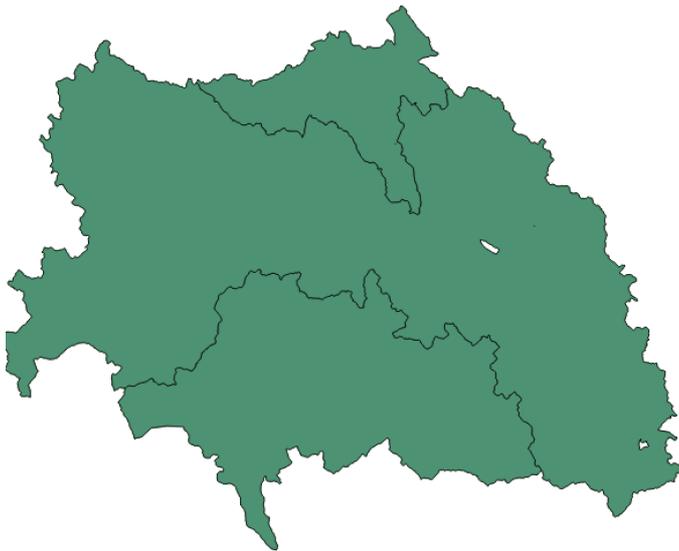
1. From folder Exercise 5 load

districts.csv
StudyDistricts

2. Join Tables by

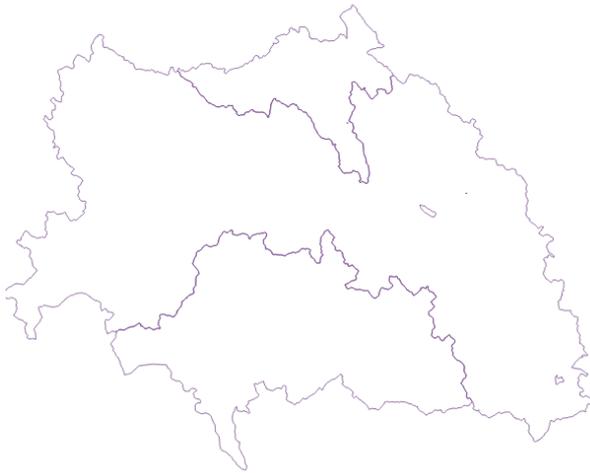
3. Use SAGA dissolve tool (Processing | Search for Dissolve)

Polygon Dissolve by Attribute
"district_2"



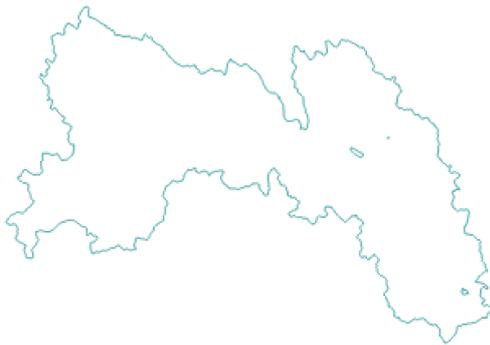
4. Save as Mita_areas

5. Vector | Geometry Tools | Polgone to line

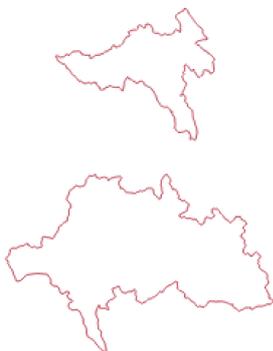


6. Attribute Query:

1. district_2 = 1 → Save as Mita_poly



2. District_2 = 0 → Save as Non_Mita_poly



7. Intersect to create boundaries:

Vector | Geoprocessing | Intersect Tool



8. Save as Mita_boundary.shp

9. Now we need to split the vector into to parts.

1. Open attribute Table
2. Toggle edit on
3. Change one district_1 entry from 0 to 1.
4. Save edits
5. Toggle edit off

6. Vector | Data Management | Split Vector using district_1

10. Load district_capital.shp

11. Reproject district_capital and Mita_boundary to WGS 84 UTM20S

12. Save as *_UTM20S

13. Use NNjoin tool.

14. Join_district1 provides the boundary_segment Fixed Effects (NOTE: Can be split into multiple segments) B_i .

15. Distance provides the D_i

16. How do we get the T_i ?