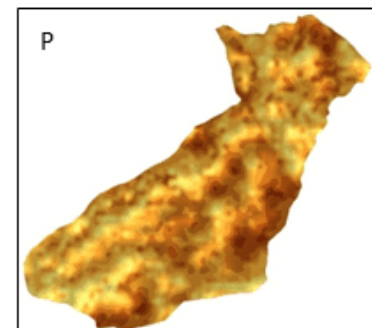
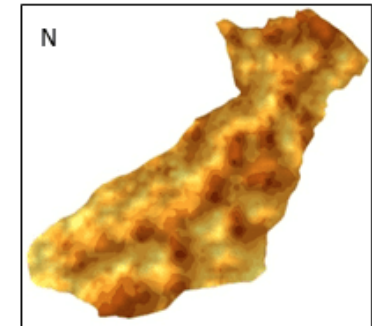
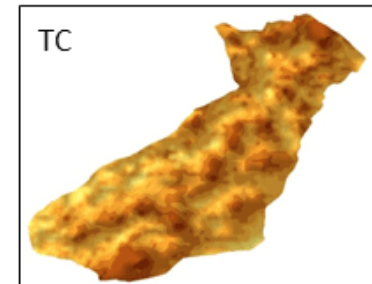
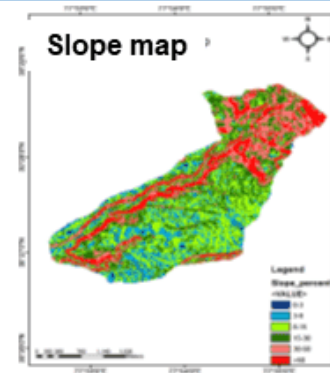
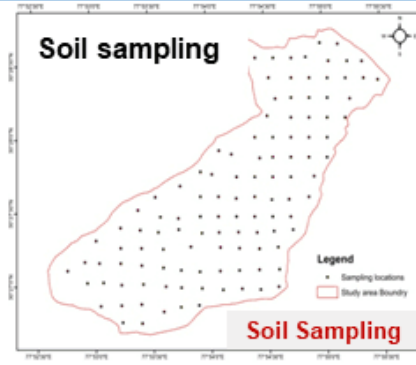
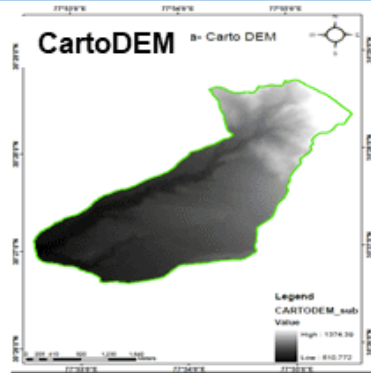


Digital Soil Mapping

There is need of large scale soil information for soil health and quality assessment as well as for watershed management.

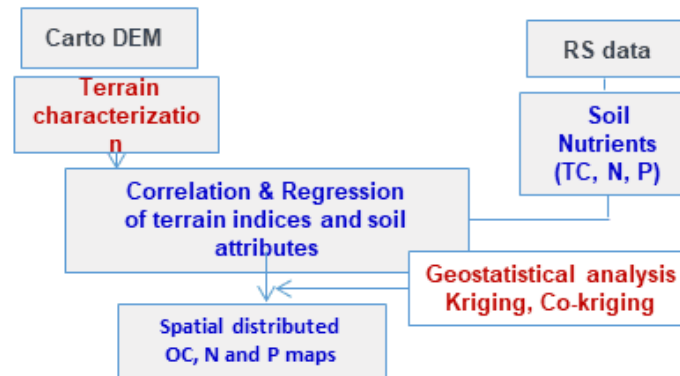


Primary Attributes

- Elevation, Slope
- Profile curvature
- Plan curvature

Secondary Attributes

- Topographic wetness index (TWI)
- Sediment transport index (STI)
- Stream Power Index (SPI)



• Among the terrain indices, **TWI showed highest correlation** coefficient for TC ($r^2=0.71$), N ($r^2=0.67$) and P ($r^2=0.66$) followed by SPI and STI.

• TWI alone as co-variable has **improved the performance** by 55.81, 21.78 and 4.50 % for TC, N and P, respectively relative to ordinary kriging.