**Geoprocessing**
- GIS: Geographic Information System
- GPS: Global Positioning System
- RS: Remote Sensing

Survey data → Merge datasets → Geo-referenced survey data → Proximity analysis
- Share of water, vegetation in 100m buffer around households
- Distance from households to nearest park, river, and street

Geo-referenced and spatially enriched data set with 51 variables

**Factor analysis**
- Personal determinant
  - yes
  - 41 variables on the socio-physical environment and health knowledge and behaviour at neighbourhood, household, and individual level
  - 7 variables on the personal determinants at individual level
  - 3 health outcomes

Reduced variable set:
- 14 factors at all levels
- 7 original variables at individual level
- 3 health outcomes

**Pearson correlation and generalised linear regression (GLM)**
- WHO-5: Well-being Index
- AIC: Akaike Information Criterion

Pearson correlation between 3 health outcomes
- Weak but positive correlation between all health outcomes

Model formulation in GLM
- Independent variables
  - 14 factors
  - 7 original variables
  - 1 health outcome (disease)

Dependent variable
- WHO-5

Model selection forward/backward based on AIC
- Mental health-determining factors (HDF)