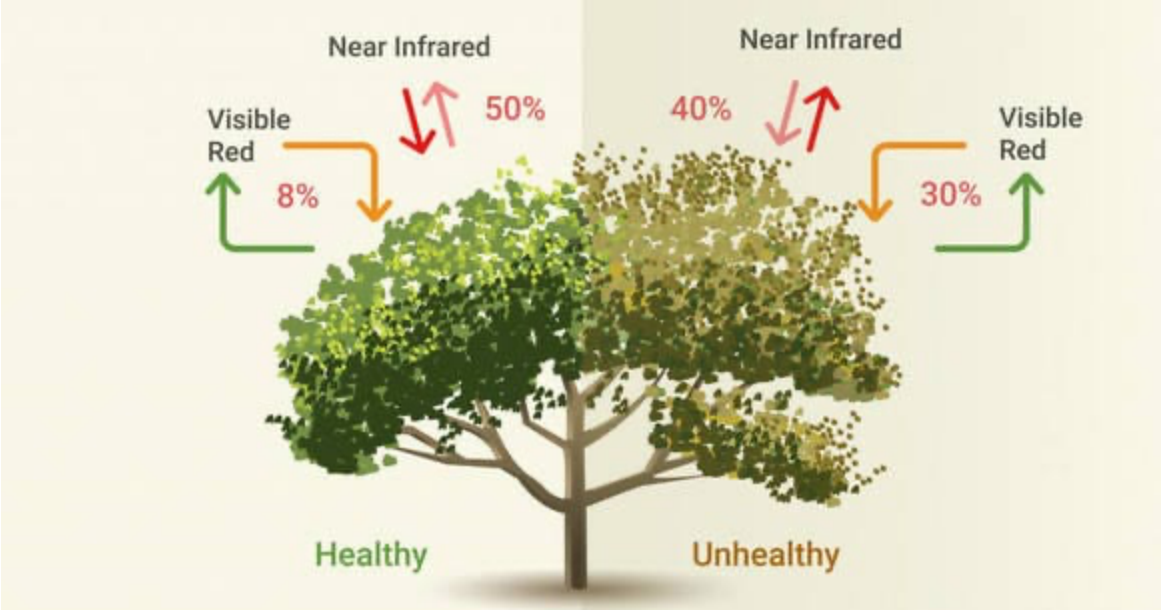
NDVI

(Normalised Difference Vegetation Index)

- NDVI is one of the commonly used vegetation indices in remote sensing with increased availability of remotely sensed imagery from satellites .



- NDVI values representation

Positive ngi value indicates green vegetation . NDVI uses red and nir (Near Infrared)channels to measure healthy vegetation

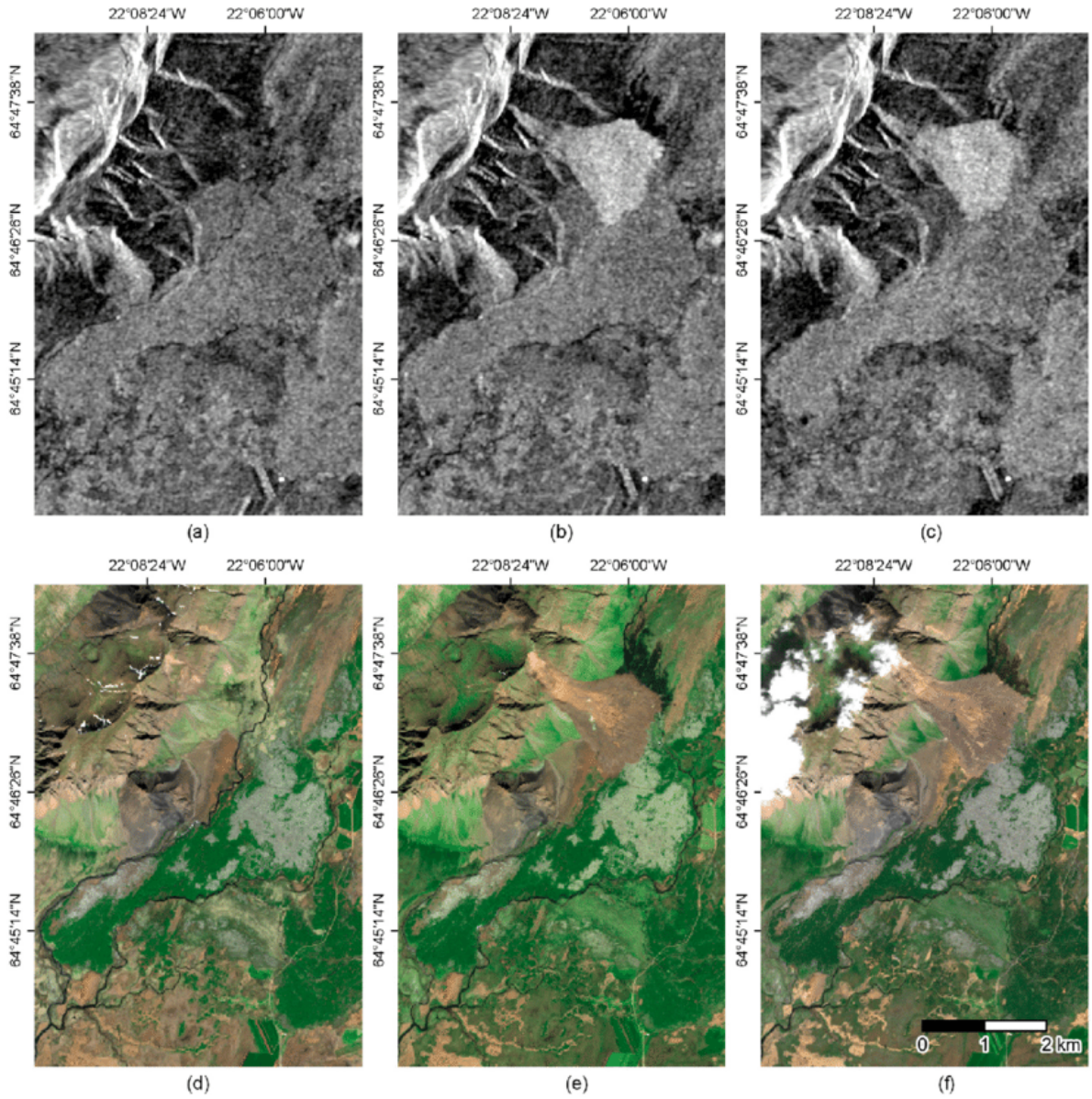
$$NDVI = \frac{(NIR - Red)}{(NIR + Red)}$$

FRAME WORK :

- Step 1 : get the satellite imagery
- Step 2 : perform preprocessing using QGIS or ARCGIS software
- Step 3 : We calculate the NDVI scores of particular vegetation and determines its status of growth i.e positive or negative
- We can use maps
- Step 4 : interpretation of NDVI Values
- Step 5 : Analysis of images

Satellite imagery

- Sentinel 1,2 :



- Sentinel 1 is a radar imaging mission that provides all-weather , day and night imaging capabilities for a range of applications .
- Sentinel 2 is multispectral optical imaging mission that provides high resolution .