

# 3.5 Assessments for Identifying Economic Vulnerability Assessment

## 3.5.1 Data Requirements

1. Building footprint with Typology
2. Slum boundary

## 3.5.2 Stepwise Process Flow Details

### - Step 1: Determine the Building Typology

The first step involves examining the building data you've collected. If the data includes information on building typology, you can use this to identify all buildings with 'kutcha' construction - a term used in South Asia to refer to buildings made from materials such as mud, thatch, or bamboo. These structures are typically associated with economically vulnerable households.

### - Step 2: Use Slum Boundaries

If the building typology data is not available, you can use slum boundaries as an indicator of economically vulnerable settlements. Slums are often characterized by overcrowded and inadequate housing conditions and can be an indicator of economic vulnerability. If you have this boundary data, overlay it onto your existing map in the GIS software.

### - Step 3: Conduct Overlay Analysis

Having established the criteria for economic vulnerability (either kutcha construction or location within slum boundaries), perform an basic overlay analysis by using the tool, 'select by location' in QGIS software.

### - Step 4: Categorize Buildings

The final step is to categorize the buildings or settlements identified through the overlay analysis as 'Economically Vulnerable Settlements'. This can be done by creating a new field in the attribute table of the building layer and assigning these buildings with a specific tag or code.



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Figure 11 Illustrations for identifying economic vulnerable settlements, Sherpur (Bangladesh)

Source – CWIS spatial analysis, Innpact Solutions and GWSC

### 3.5.3 Output Application

Settlements identified as economically vulnerable are given priority when designing and implementing sanitation interventions across the sanitation value chain. These settlements can also be overlaid with other environmental and climate risk outputs to identify those with a higher degree of vulnerability.

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