
By

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The Sendai Framework for Disaster Risk Reduction 2015-2030 was adopted at the third United Nations world conference in Sendai, Japan, on the 18th of March 2015.

Reducing disaster risk is a cost-effective investment in preventing future losses.

Reducing disaster risks decreases the potential impact of a hazardous event, thus preventing damage, injuries and casualties.

Priority 4: Enhancing disaster preparedness for effective response and to “Build Back Better” in recovery, rehabilitation and reconstruction.
The Geodatabase was developed for Wuse II district in Abuja, Federal Capital Territory.

The district is a mixed landuse (Private homes as well as commercial buildings).

It is a medium density district.

There is a river network around the district.
Geospatial Database Development

Example of a Commercial Landuse in the Project Area
Geospatial Database Development

Example of a Residential Landuse in the Project Area
Geospatial Database Development

Source: Quickbird Image,
Geospatial Database Development

Thematic Layers

- Building (captured as polygon features),
- Access roads (captured as linear features),
- Dual carriage roads (captured as linear futures),
- Rivers (captured as linear futures).
Geospatial Database Development

Digitized Features
Geospatial Database Development

Digitized Features

[Map Image]
Geospatial Database Development

- Linear Features
- Hospitals
## Geospatial Database Development

### Digitized Features

<table>
<thead>
<tr>
<th>Building Usage</th>
<th>Frequency (Units)</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Residential</td>
<td>996</td>
<td>Houses use as residence</td>
</tr>
<tr>
<td>Commercial</td>
<td>179</td>
<td>Houses used for commercial activities</td>
</tr>
<tr>
<td>Office</td>
<td>108</td>
<td>Houses used for Office complexes</td>
</tr>
<tr>
<td>Under Construction</td>
<td>67</td>
<td>Houses under construction</td>
</tr>
<tr>
<td>School</td>
<td>18</td>
<td>School Buildings</td>
</tr>
<tr>
<td>Incomplete</td>
<td>18</td>
<td>Abandoned uncompleted houses</td>
</tr>
<tr>
<td>Church</td>
<td>8</td>
<td>Church buildings</td>
</tr>
<tr>
<td>Hospital</td>
<td>7</td>
<td>Buildings used for hospitals</td>
</tr>
<tr>
<td>Demolished</td>
<td>5</td>
<td>Demolished structures</td>
</tr>
<tr>
<td>Open Space</td>
<td>3</td>
<td>No Building is present</td>
</tr>
<tr>
<td>Court</td>
<td>2</td>
<td>Court Houses</td>
</tr>
<tr>
<td>Mosque</td>
<td>2</td>
<td>Mosque Buildings</td>
</tr>
<tr>
<td>Estate</td>
<td>1</td>
<td>An Estate comprising of other houses</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1414</strong></td>
<td></td>
</tr>
</tbody>
</table>
A questionnaire was developed to capture information on each digitized record and each digitized record was visited on the field to administer the questionnaire. The information was used to populate the database of each captured record.
Flood Risk Scenario
Flood Risk Scenario

High Flood Risk (278 Structures)

- 214 Residential,
- 28 Commercial,
- 15 Under construction,
- 10 Office Complex
- 6 Schools,
- 3 Churches,
- 1 Demolished,
- 1 Incomplete.
Flood Risk Scenario

Medium Flood Risk (766 Structures)

- 547 Residential,
- 83 Commercial,
- 59 Office,
- 36 Under construction,
- 12 Incomplete,
- 11 Schools,
- 6 Hospitals,
- 4 Demolished,
- 2 Churches,
- 2 Courts,
- 1 Mosques,
- 3 Open Spaces
Flood Risk Scenario

Low Flood Risk (370 Structures)

- 235 Residential,
- 68 Commercials,
- 39 Offices,
- 16 Under construction,
- 6 Incomplete,
- 3 Churches,
- 1 School,
- 1 Hospital,
- 1 Mosque.
Thank You for Listening
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>445-469</td>
<td>High</td>
</tr>
<tr>
<td>469-485</td>
<td>Medium</td>
</tr>
<tr>
<td>485-521</td>
<td>Low</td>
</tr>
</tbody>
</table>