GENERATION OF POPULATION AND OTHER STATISTICS

THROUGH
CENSUSES, SURVEYS AND INNOVATIVE APPROACHES

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National Research Institute, Waigani, National Capital District
1. NSO Legal Framework
2. Key NSO Undertakings
3. Interim Activities – Deferral of the 5th NPHC
4. Innovative Approach to Generate Population Census
5. What is a Census?
6. Importance of Census Data
7. Means to Achieving the Census Objective
8. Comparison: Census and other data collections
NSO is empowered by the Statistical Services Act 1980 to provide official population, socio-demographic and economic statistical information for the country. This means NSO must:

1) Produce statistical information – conduct censuses and surveys that no other state agency is conducting in order to fill relevant data gaps.

2) Coordinate, compile and sequence statistics from administrative (trade) and registration records (crime, migration).

3) Designate as official statistics – conform to international standards and good statistical practices. (UN fundamental principles of official statistics, WB DQAF, IMF SNA93, etc.)
Present Key NSO Undertakings

1. Currently, NSO produces statistical information through **censuses and surveys** such as:
   - The Demographic & Health Survey,
   - Household Income Expenditure Survey – rebase CPI & to measure the living standards (poverty levels),
   - Socio-Demographic & Economic Survey – fill data gap in the absence of population census,
   - Household Price (Market) Survey - compile quarterly CPI that guides decisions on setting minimum wages, DMAs, subsidies, etc.
   - Survey of Business Activities - compile annual GDP.

2. Collects and compiles administrative information such as:
   - Migration statistics from International migration cards,
   - IRC (tax) & company (SBA) data to compile GDP, and
   - Customs data to compile International Merchandise Trade statistics (BOP) among others
Interim Activities after the deferral of the 5th NPHC. NSO undertook the following activities in 2022:

1. Innovative approach to generate population estimates using remote sensing technology. Results expected to be available next month (February)

2. Socio-Demographic & Economic Survey – fill data gaps in the absence of population census. NSO is in the process of writing basic key statistical findings (available end of this quarter at the earliest)

3. Data Literacy and Awareness program – key stakeholders and provincial planners workshops conducted already

4. Provincial Population Dividend Analysis – on going
NSO is also adopting innovative approaches to estimate population as used in other countries such as Afghanistan, Columbia, Nigeria, South Sudan, Myanmar, China, etc.

This is a method that uses household surveys and satellite image-based datasets in a statistical framework to estimate a population.

This approach has only recently been developed and are used to provide estimates of population numbers with associated confidence intervals. PNG is first in the region to implement this method.

Preliminary result from the first set of models run by WorldPop (engaged through UNFPA) in 2022 generated an upper limit population estimate of 17 million people.

WorldPop in close consultation with NSO and UNFPA is running the final models using algorithms to generate the final population estimates for PNG.

The results of the new estimates are expected soon (Feb).
What is a Census?

- It is the total process of collecting, compiling, evaluating, analysing and disseminating demographic, economic and social data pertaining, at a specific time, to all persons in a country or in a well delimited part of a country (UN iLibrary).

- It means to secure official statistics on demographic, economic and social attributes of the population (citizens/non-citizens) of Papua New Guinea through the conduct of the census.
What will these official statistics/census information measure or indicate?

i. Report on our country’s international commitment on Sustainable Development Goals (SDGs)

ii. Track our MTDP on our country’s Human Development Indicators (HDI)

iii. Track and forecast the PNG Development Strategic Plan (PNGDSP) 2010-2030

iv. Track PNG’s dream to become a smart, wise, fair, healthy and happy society reflecting on the 2011-2012 HDI ranking (Vision 2050)

v. Track other sector plans/policies (pop. policy, health, education, agriculture, labor, etc plans)

Thus, it is important that data that will be collected from the census is accurate for accurate reporting of progress and establishment of targets (Free from political motives)
Means to achieving the Census Objective

1. Census Unit Register & Map Update
2. Structure Listing & Mapping
3. Questionnaire Development
4. Pilot-CENSUS (Dress Rehearsal)
5. Census Enumeration
6. Post Enumeration Survey (PES)
7. Data Processing
8. Data Dissemination / Reports
Means to achieving the Census

Census Coordination Mechanism
Coordination, Management, Monitoring and Reporting
### COMPARISON: CENSUS AND OTHER DATA COLLECTIONS

<table>
<thead>
<tr>
<th>Agency</th>
<th>Information collected</th>
<th>Population</th>
<th>Use for the information collected</th>
<th>How often information is collected?</th>
<th>How the census assists PNGEC / PNGNID/Ward Records?</th>
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</thead>
<tbody>
<tr>
<td><strong>NSO (Census)</strong></td>
<td>For every man, woman and child, both citizens and non-citizens</td>
<td>All population in PNG (including the old, the sick, babies, mentally ill etc.)</td>
<td>For development planning at all levels</td>
<td>Every ten (10) years and requires collection within 2 weeks</td>
<td>NSO provides to the PNGEC the total number of all persons in PNG aged 18 years and above (eligible voters)</td>
</tr>
<tr>
<td><strong>PNGEC (Common roll / Voters list Update)</strong></td>
<td>Every man and woman aged 18 years and above who are citizens</td>
<td>All persons (citizens) who are 18 years and above</td>
<td>Persons who can vote (eligible voters)</td>
<td>Every five (5) years and updating within 6 months to 1 year</td>
<td></td>
</tr>
<tr>
<td><strong>PNGCIR&amp;NID (Birth Registration &amp; NID)</strong></td>
<td>For every man, woman and child, citizens only</td>
<td>Birth Registration for all persons (citizens) NID Card for citizen persons 18 years and above</td>
<td>For civil registry and national identification</td>
<td>Every day</td>
<td>NSO provides the base information for PNGNID to determine the number of citizen population to register</td>
</tr>
<tr>
<td><strong>DPLGA (Ward Record Book)</strong></td>
<td>For every man, woman and child within a ward boundary nationwide</td>
<td>recording births, deaths, marriages, separations, some economic activities for all persons</td>
<td>For administration and planning at the Ward level</td>
<td>Continuous /daily (coverage progressive)</td>
<td>Provides the basis for Data Storage (PDS), and baseline information</td>
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Thank you...