

**Regional Committee of United Nations Global Geospatial
Information Management for Africa**

Workshop on Integration of Geospatial and Statistical Information

Manual on Geocoding of census data in Africa



United Nations
Economic Commission for Africa

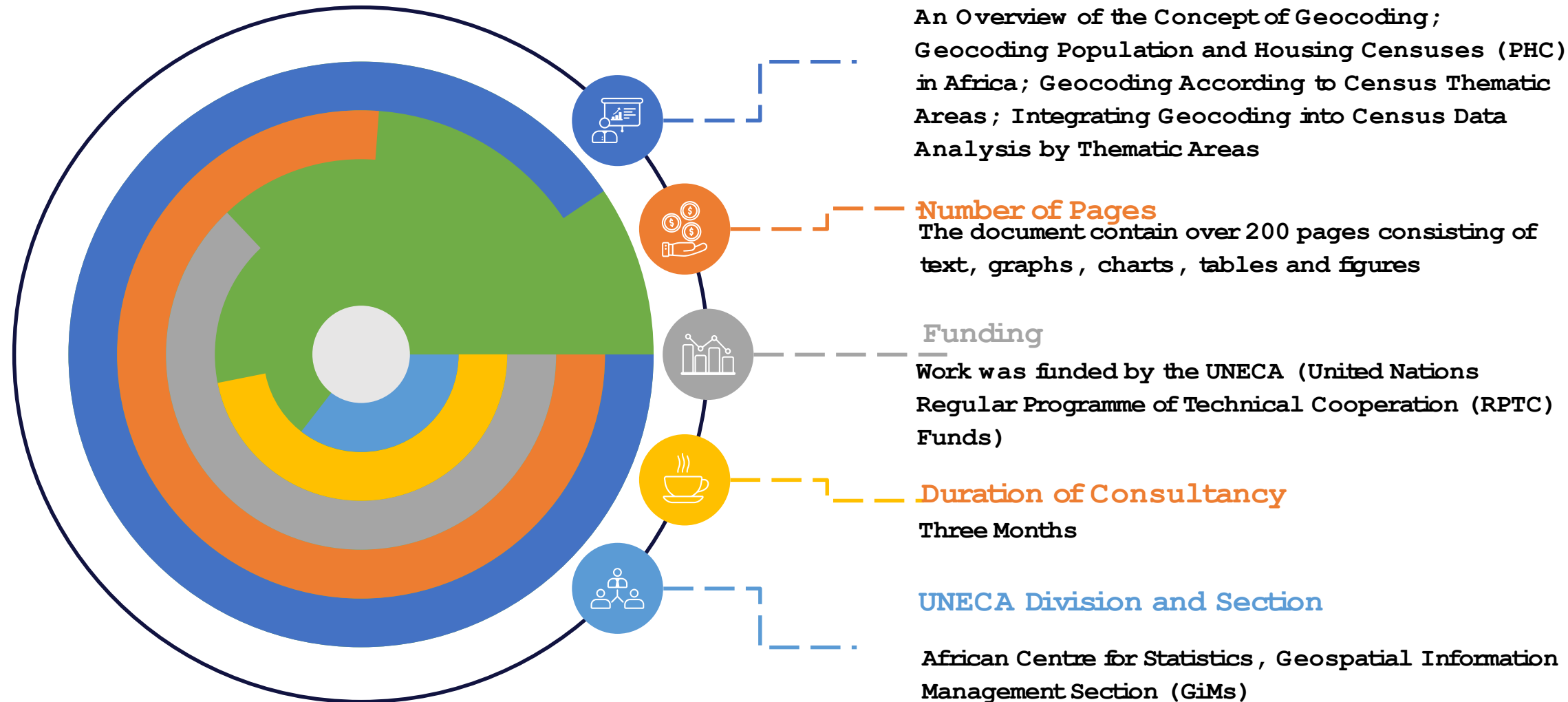
Presented by:
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ECA (Geospatial Information Management Section)



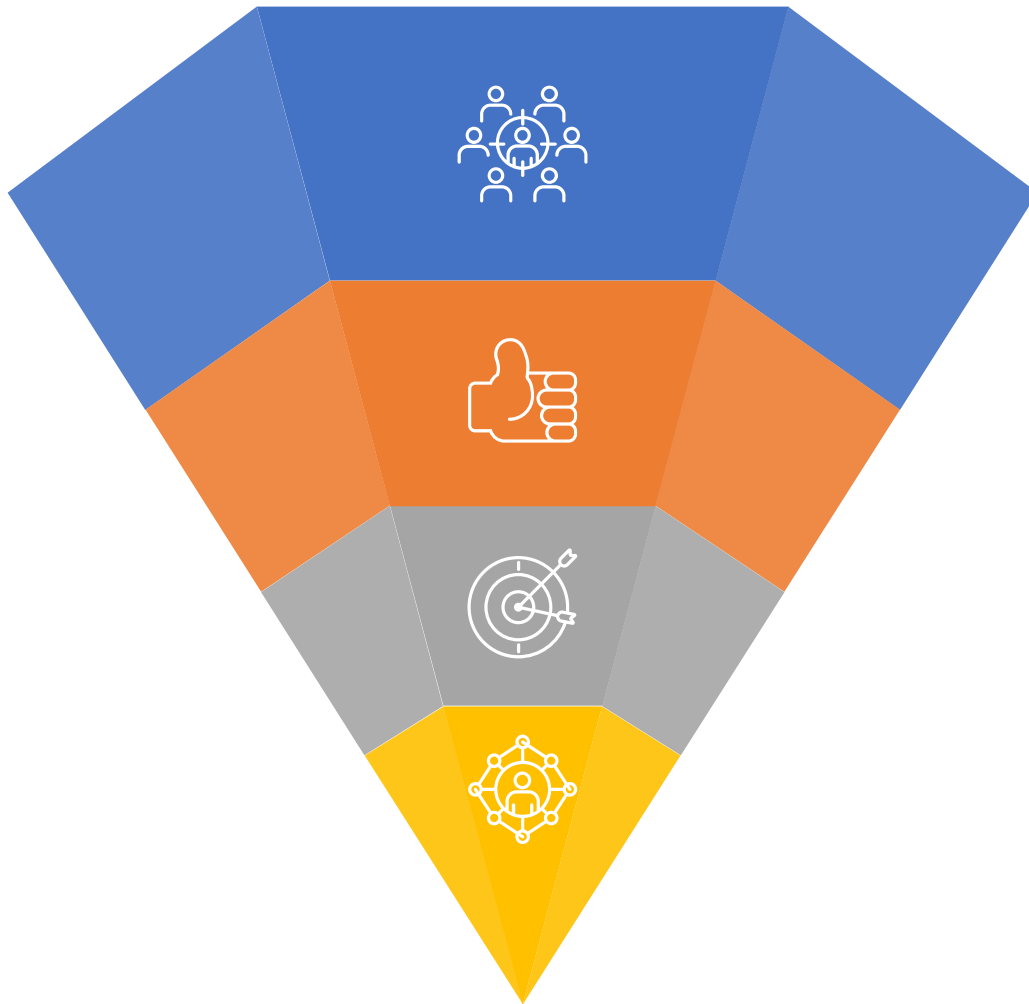
UN-GGIM: AFRICA
UNITED NATIONS INITIATIVE ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT

Structure of the Manual on Geocoding of Census Data in Africa



Manual on Geocoding of Census Data in Africa

Initiatives of UNECA towards strengthening national geospatial information management for the 2030 Agenda



ATTENTION

Introduction: An Overview of the Concept of Geocoding

INTEREST

Geocoding Population and Housing Censuses (PHC) in Africa

DESIRE

Geocoding According to Census Thematic Areas

ACTION

Integrating Geocoding into Census Data Analysis by Thematic Areas

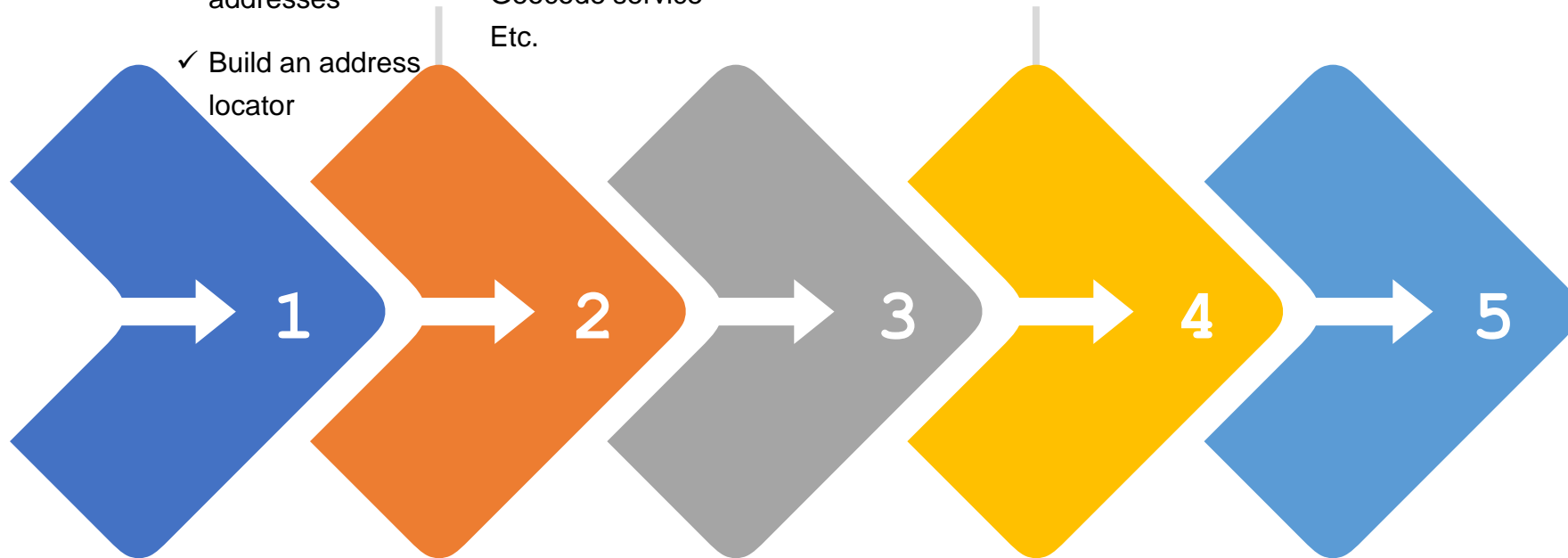
Chapter 1: An Overview of the Concept of Geocoding

Population and Housing Censuses

CONCEPT OF GEOCODING

- ✓ Address
- ✓ Formats of addresses
- ✓ Build an address locator
- ✓ Sharing your address locator
- ✓ Geocode service Etc.

GEOCODING AND THE GLOBAL STATISTICAL GEOSPATIAL FRAMEWORK



Principle 1: Use of fundamental
geospatial infrastructure and
geocoding

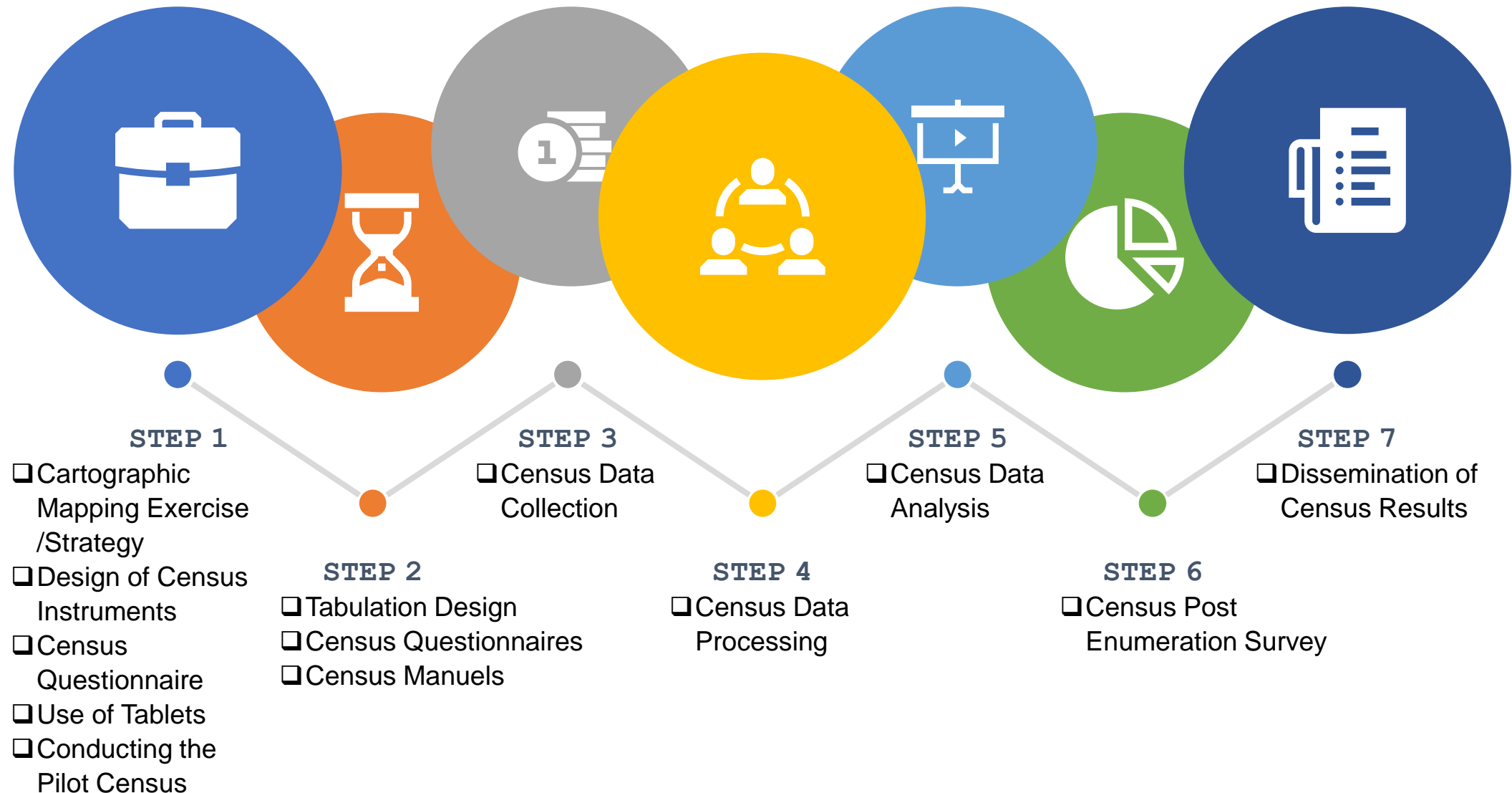
Principle 2: Geocoded unit record
data in a data management
environment

Principle 3: Common geographies for
dissemination of statistics

Principle 4: Statistical and geospatial
interoperability Data, Standards,
Processes, and Organizations

Principle 5: Accessible and
usable geospatially enabled
statistics

Chapter 2: Integrating Geocoding into the Chronogram of Census Activities



Chapter 3: Geocoding According to Census Thematic Areas



Poverty and Durables

Variables concerned: -Sex, age, place of residence etc.



Population Structure and Population Distribution

Variables concerned: - Relationship to household head, Sex, age, marital status, place of residence, ethnic affiliation, religious affiliation, fertility



Nuptiality and Fertility

Variables concerned: Age and Sex, Children ever born residing with mother, Children ever born residing elsewhere, Children dead, Place of current residence, Literacy status, educational attainment, economic activity status



Mortality

Variables concerned: Age and sex, Deaths in last 12 months, Maternal deaths, Children dead/children ever born per woman, Place of current residence, Literacy status, educational attainment, economic activity status



Migration and Urbanization



Chapter 3: Geocoding According to Census Thematic Areas

Non-Monetary Poverty

Variables concerned : -Place of residence, Type of housing unit, Years since construction, Number of rooms, Mode of tenure, Co-residence with domestic animals, Material for walls, Material for major part of ceiling, etc.

Housing Conditions

Variables concerned : -Place of residence, Relationship to head of household, age, sex, marital status, educational attainment, economic activity (of household head), Type of housing unit, Years since construction, Number of rooms, Mode of tenure, Co-residence with domestic animals, Material for walls, Material for major part of ceiling

Education and Literacy

Variables concerned: -Sex, age, place of residence, literacy, current school attendance, educational level attained, economic activity

Economic Characteristics

Variables concerned: -Sex, age, place of residence, economic activity status, employment status, literacy, current school attendance, educational level attained, household composition

Children, Adolescents and Youth

Variables concerned: -Sex, age, relationship to household head, place of residence, literacy, school attendance, educational level attained, economic activity Etc.

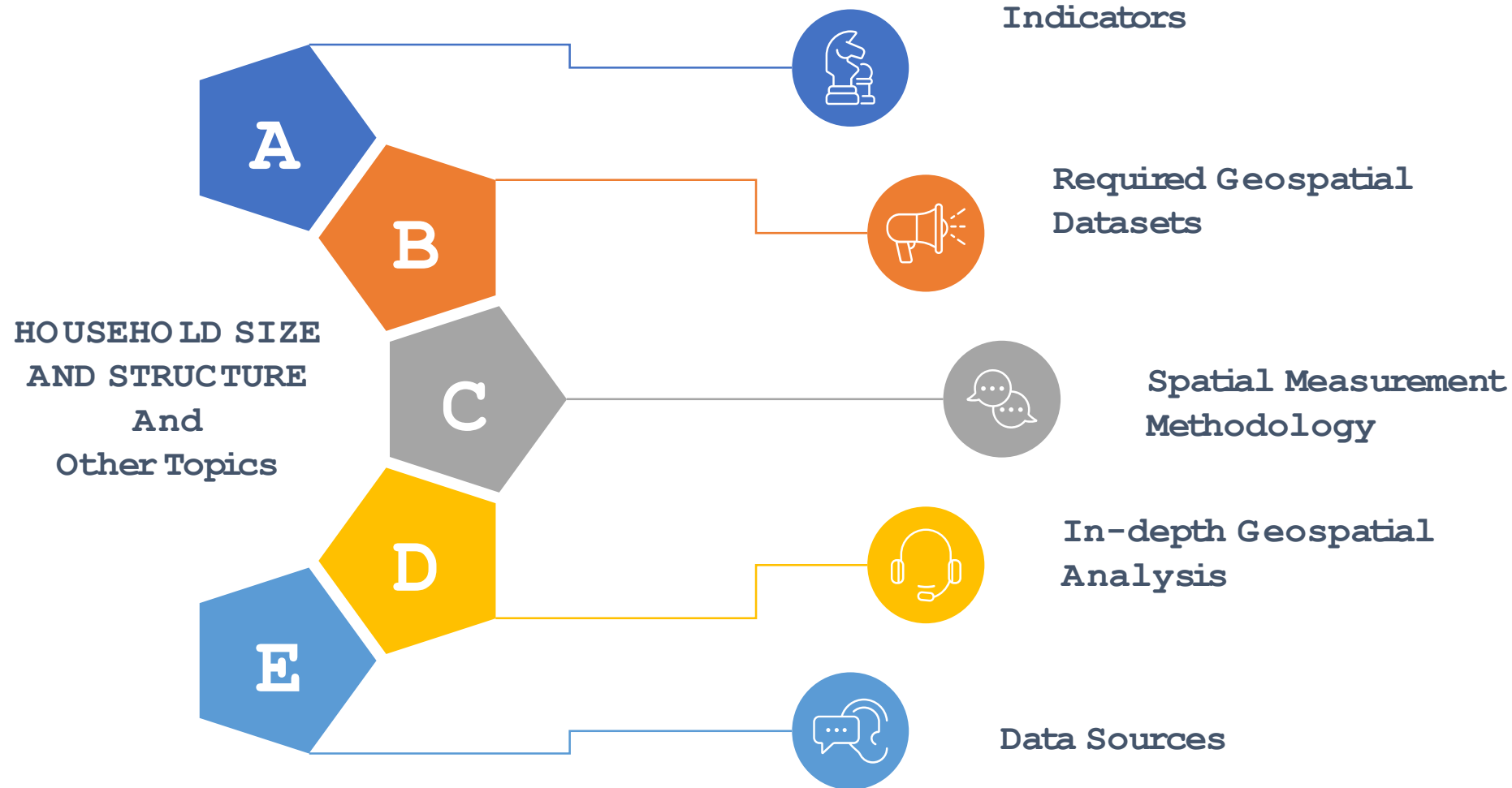
Situation of Women

Variables concerned: -Sex, age, relations to household head, place of residence, religious affiliation, languages spoken, literacy, school attendance, educational level attained, economic activity, household and housing characteristics

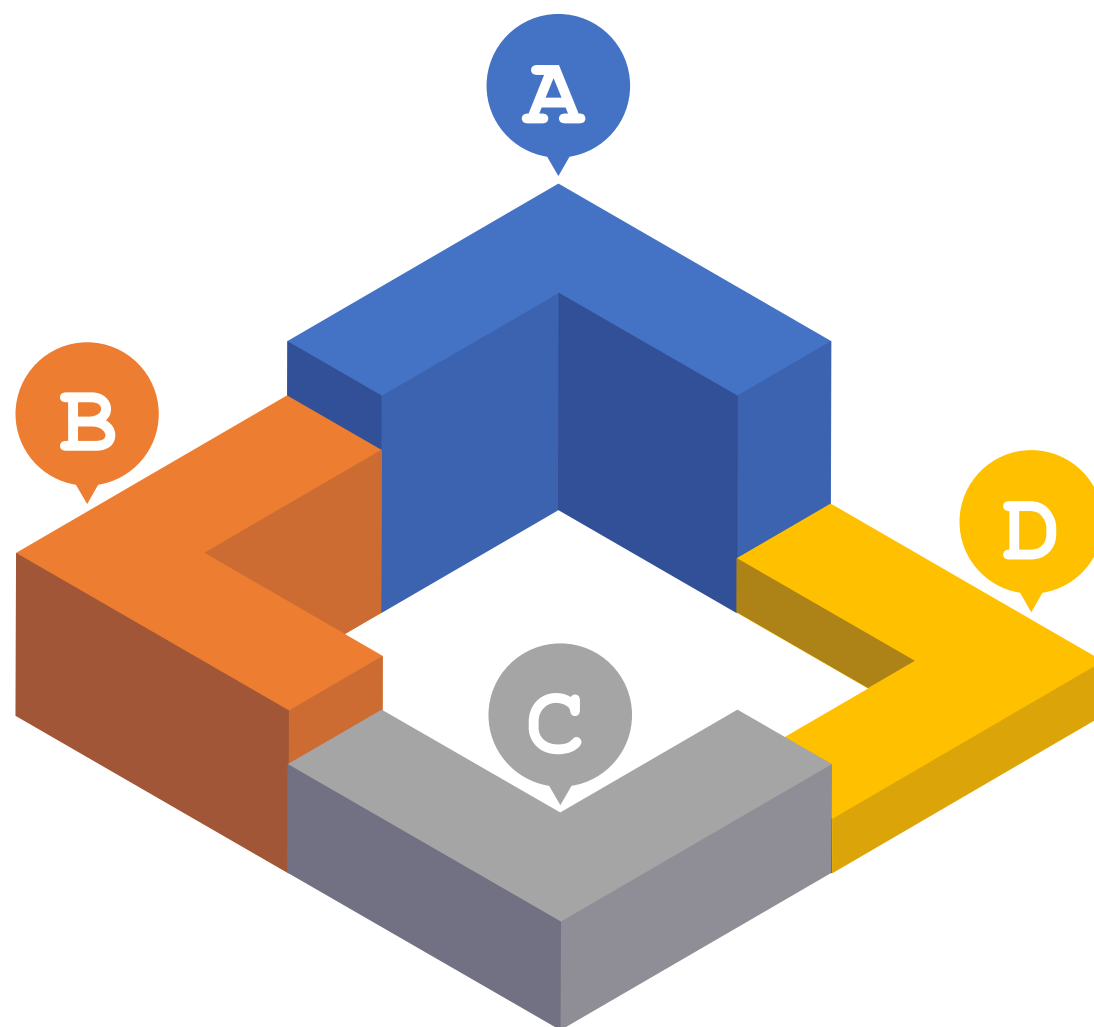
Population Projection and LIFE Tables: Variables concerned: -Age, sex, Place of residence, indicators on fertility, mortality, migration, economic activity, household headship rates



Chapter 4: Integrating Geocoding into Census Data Analysis by Thematic Areas



Chapter 5: Dissemination of Census Geocoded Datasets



● Web GIS

● Geoportals

● Dashboards

● Story Maps



ECA



COVID-19
RESPONSE



THANKS