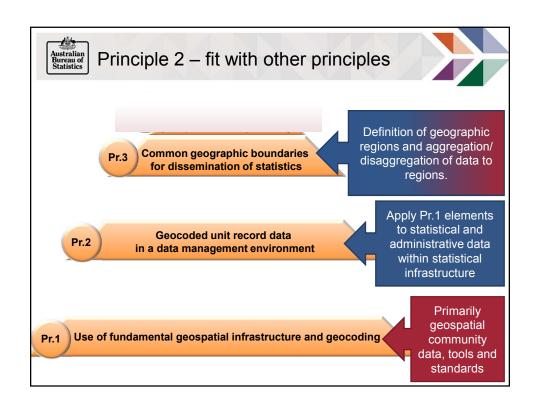


# Australian Bureau of Statistics Principle 2 - outline

The Global Framework recommends that the linkage of a geocode for each statistical unit record occur within a data management environment, to:

- allow these statistics to be applied to any geographic context, including future changes to geographies
- enable data linkage processes using a range of sources.





### Australian Bureau of Principle 1 & 2 - clarification



#### Principle 1 – focusses on infrastructure

- Provision of addressing standards and infrastructure, such as address registers
- > Ensures geocoding infrastructure (systems and tools) is as standardised as possible

#### Principle 2 – geocoding of unit records

- · Application of geocoding infrastructure to unit records
- Ensures statistical infrastructure can use geospatial infrastructure and standards for geocoding



#### Australian Bureau of Principle 2 - objectives



- 1. Effective implementation of geospatial and geocoding infrastructure.
- 2. Effective data management of statistical and geospatial data objects.
- 3. Required protection of privacy and secrecy.
- 4. Storage of consistent and interpretable geocodes, preferably linked from a point of truth.
- 5. Simplified geographic aggregation of data.
- 6. Facilitate flexible use of geocoded unit records in future analysis and visualisation.



#### Australian Bureau of Statistics Principle 2 – Inputs



Standards, frameworks, infrastructure, and best practice.

- Agreed statistical and geospatial data management frameworks.
- Communities
- 2. Addressing and/or location reporting standards and infrastructure.
  - Pr.1
- 3. Geocoding tools and metadata standards. Pr.1
- 4. Promotion of point-of-entry address validation and geocoding.





### Australian Bureau of Statistics Principle 2 – Inputs



Standards, frameworks, infrastructure, and best practice (cont.)

- stats Community 5. National privacy laws and/or agreed privacy standards (UNFPOS).
- 6. Agreed geographic classifications and infrastructure.
- Geo Community 7. Global or national/regional Geodetic Reference Frames.



## Principle 2 – Priority Materials



- 1. Geocoding guidance material
- 2. Best practice data and metadata management
- 3. Guidance on protecting unit record privacy and secrecy

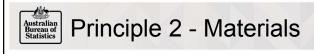


## Australian Bureau of Statistics Principle 2 - Materials



#### Geocoding guidance material

- A. Application of addressing/location reference standards.
- B. Geocoding methods.
  - Direct coordinate capture
  - Address and location coding (incl. POE).
  - Geographic correspondences and allocations.
- C. Geocoding data and metadata management.

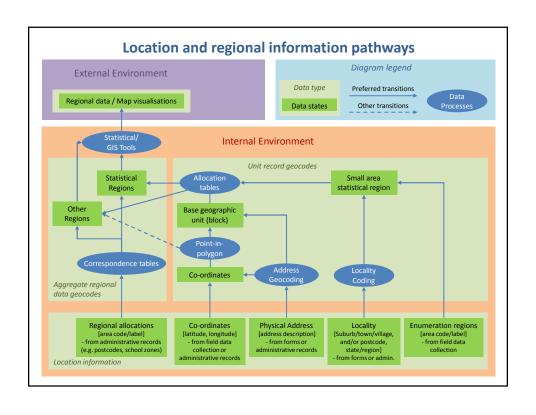


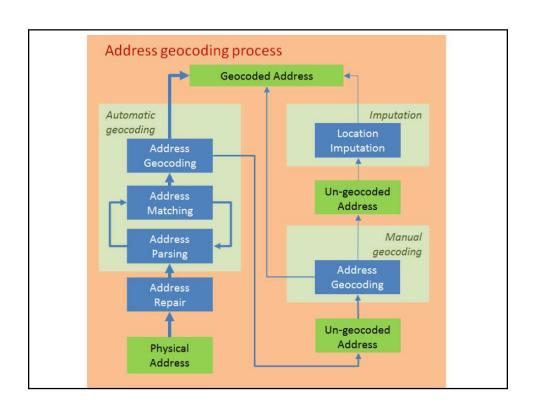




### Statistical Spatial Framework





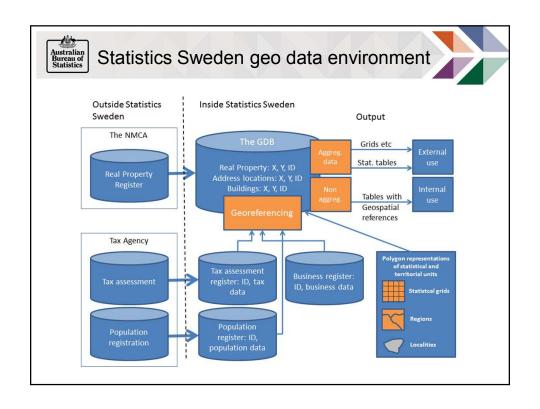




## Principle 2 - Materials



- 1. Geocoding guidance material
- 2. Best practice data and metadata management
  - A. Statistical GSBPM/GSIM & Case Studies
    - ➢ GEOSTAT3 examining aspects
  - B. Geospatial OGC/ISO Standards
    - OGC Geocoding standards





### Australian Bureau of Statistics Principle 2 - Materials



- 1. Geocoding guidance material
- 2. Best practice data and metadata management
- 3. Guidance on protecting unit record privacy and secrecy
  - A. Reference existing best practice
    - incorporate address and location aspects



### Australian Bureau of Principle 2 – Future plans



- 1. Collect country practices for geocoding, data management and privacy protection.
- 2. Geocoding guidance material - develop document from best practice
- 3. Data and metadata management monitor and contribute to international developments: UNECE-HLG, OGC, GEOSTAT3
- 4. Guidance on protecting unit record privacy and secrecy
  - identify documentation of existing best practice



# Australian Bureau of Statistics General questions



- 1. Collecting country practices - how do we coordinate this?
- 2. Guidance material and principle summaries
  - do we need a common format / template?