

**SANBI**

Biodiversity for Life

South African National Biodiversity Institute



# GIS data needs for the National Biodiversity Assessment



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# Lexicon for GIS

<http://support.esri.com/other-resources/gis-dictionary>

Integrate

Join

Intersect



GIS Dictionary

Look up terms related to GIS operations, c

Overlay

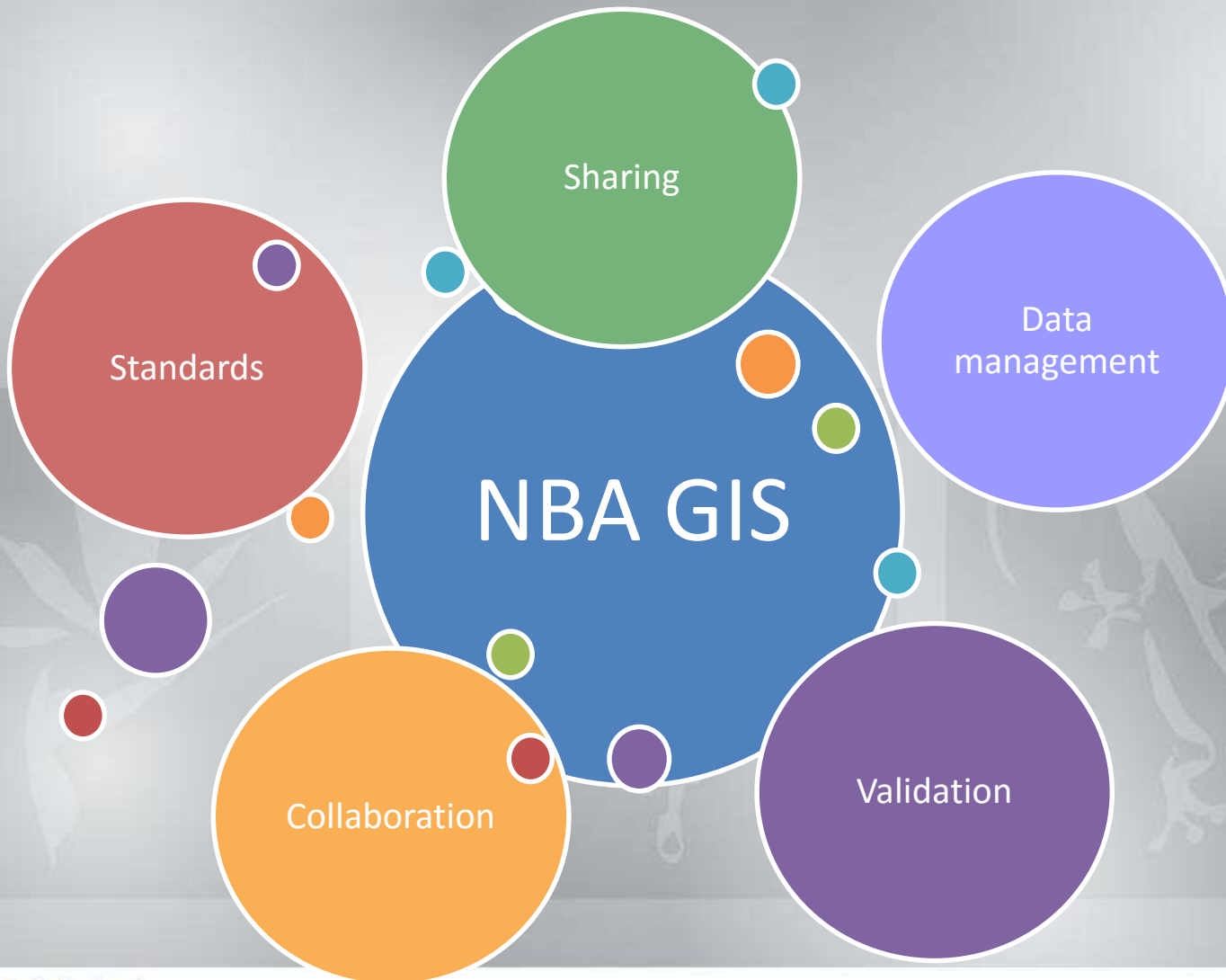
Merge

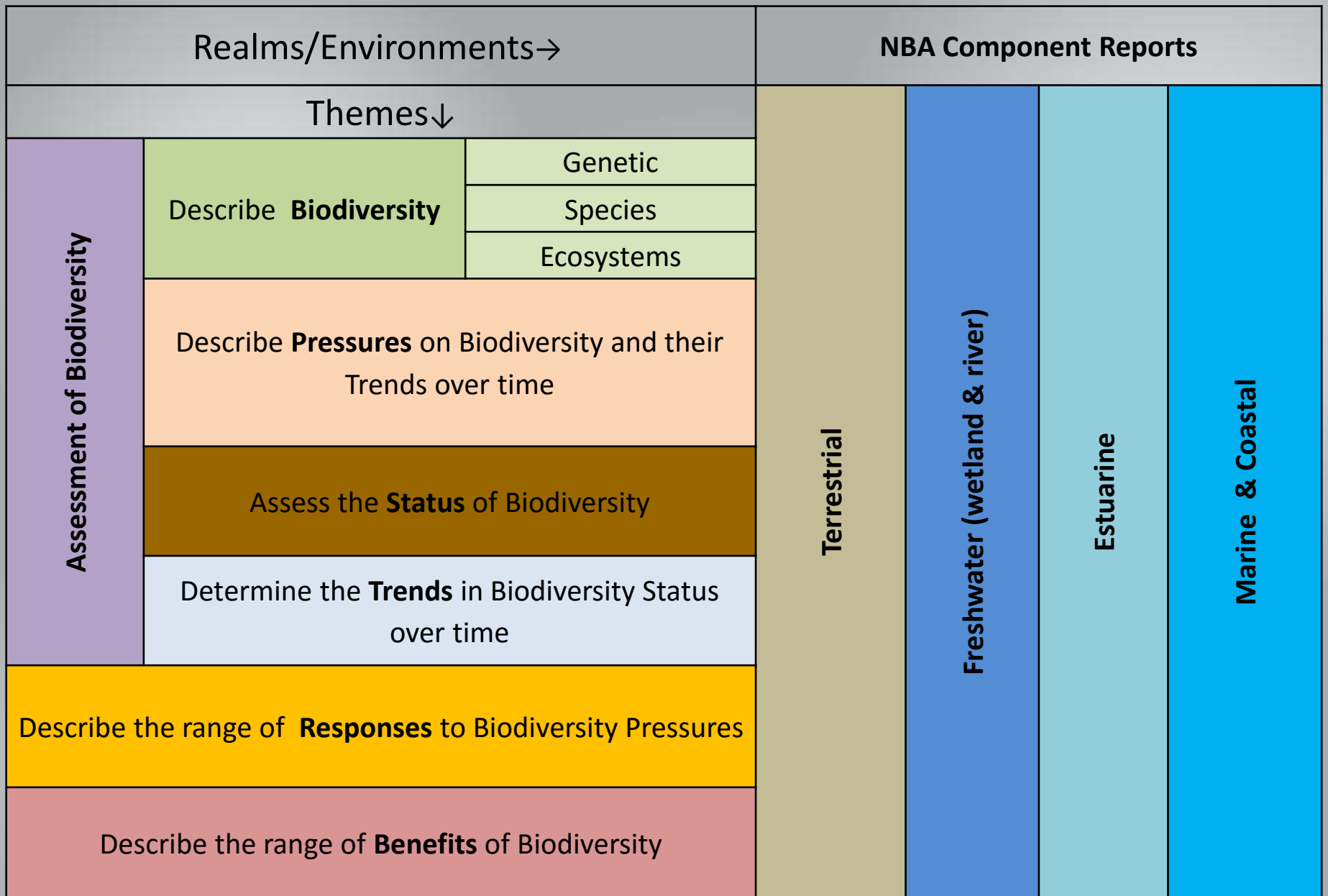
Combine

# A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

No Exact Match Found.

# NBA GIS focus areas





# Data Collaboration

- Habitat Modification (using 2013/2014 and 1990 GTI land cover procured by DEA)
  - Secondary natural layer (Cultivated fields~1970)
- Wetlands update (collaboration with SANBI partners)
- Fragmentation (SAEON)
- And from the BPF.....looking into refining the following layers:
  - Dams
  - Aquaculture facilities

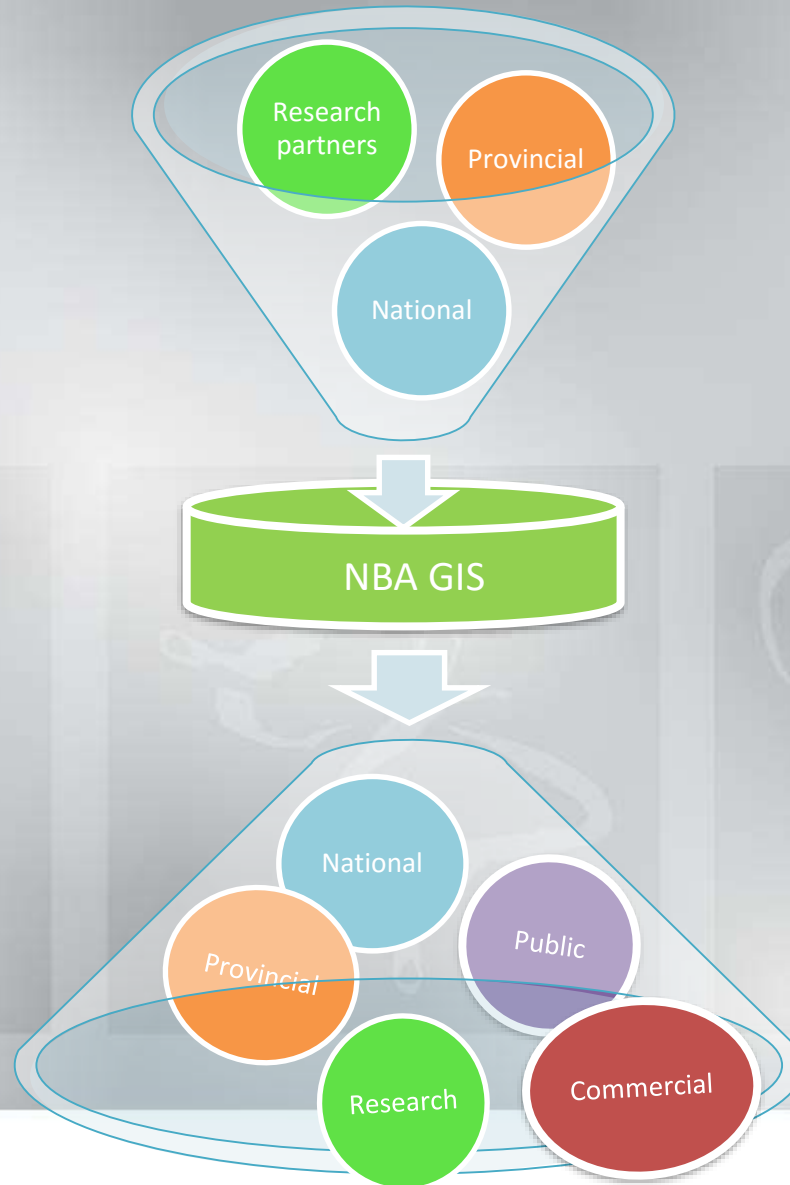
# NBA GIS Standards

- Projection for national data
  - Albers equal area conic (NGI report)
  - Geographic
- File type
  - Data sharing in shapefile
  - Storage in Geodatabase
  - Other open source formats to be investigated



# Data management

Data management



# Coordinating Custodianship

- South African Spatial Data Infrastructure Act
  - Data capture standards
  - Data security preventing data loss
  - Regular data updates
  - Complete metadata

Data  
management

Standards

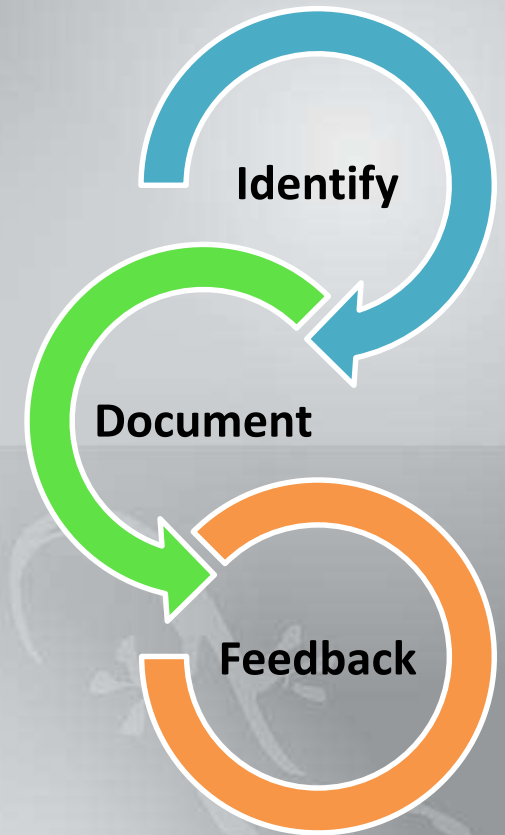




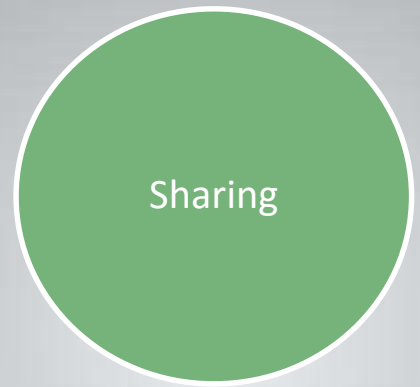
Validation

# Validation

- Metadata for all layers
- GIS models
  - Reporting
  - Reuse
- Topology
- Sampling and verification
  - Habitat modification
  - Wetlands



# Sharing



- Resulting dataset shared via BGIS
  - Metadata
  - Technical documentation
  - Models
  - Interim data layers
  - Confidence levels




# “GIS is a contact sport”

Pierre de Villiers: Drakenstein Municipality



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