**Project Specifications Document:
Visualization Project**

Key Aspects to Highlight in the Project

- Data Sources
- Basic Data Processing
- Data Formatting
- Visualizations and Analysis Tools
- Dashboard
- Analysis
- Project Publication

Data Sources

- Recommendations for Key Aspects to Highlight
- Use of Multiple Data Sources: files, online databases (ODATA), etc.
- Additional Data: either mergeable into a single data model or exploitable independently

Data Formatting

- Types of Processing: filtering, normalization, dimension reduction, etc.
- Use of External Tools: Python, C/C++, libraries, etc.

Data Formatting

- Handling Missing Values, Data Formats, Semantics, etc.
- Creating the Data Model: fusion or relation
- Operations to Perform in Tableau

Visualizations and Analysis Tools

- Basic Visualizations (at least 1 per category)
  - Relationship
  - Distribution
  - Comparison
  - Composition

- Example in Tableau:
  - Maps, scatter plots, bar/cumulative charts, heat maps, treemaps, etc.

  - Add the Category Name in Each Visualization Title (sheet in Tableau)
  - Use Analysis Tools: trends, clustering, etc.

Dashboard

- Create a Dashboard Integrating as Many Visualizations as Possible
  At least 4 per dashboard

- Multiple Dashboards with Different Themes Can Be Created
- Use Filtering Mechanisms to Interact Logically with Visualizations
- Use Animation Along a Given Dimension

Analysis and Key Aspects to Highlight in the Project

- What are the trends and possible predictions
- What are the patterns
- What is the primary insight extracted from this database
    - Which visualization best represents it

Key Aspects to Highlight in the Project

- What is the value of the visualizations created
    - Who may be interested
    - How to add value to these results

- How could the visualizations influence the perception of observed processes/measures

- What are the limitations of the databases used?
    - What improvements would you suggest?
    - What new databases could you integrate and why?