green city development plan for sebeta city

A Data Management Plan created using DMPTool

Creator: manaye teshome

Affiliation: Non Partner Institution

Template: Digital Curation Centre

Project abstract:
In its effort to change the backward economic, social and Environmental status of the city, the Sebeta city administration is undertaking various construction and natural preservation project to provide public services corresponding to the needs of the users of the city administration as part of “Good Governance”& sustainable economic development. It is a fact that town/city planning is experiencing a crisis; at least the concept of town planning that appeared with the Modern Movement and its myriad of planners. The city phenomenon is continuously increasing and extending the boundaries of the city area. Some indicators and experts’ opinions indicate a lower index of city planning than expected by the UN. However, the reality in the cities presents a number of problems that are worth mentioning. The invasion of pericity spaces causes the loss of land, natural resources and landscape. All these problems will be solved by “Green City” concept.

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Data Collection

1. Topographic data of sebeta city and surroundings from sebeta city administration.
2. Climatic data (annual rainfall, temperature, humidity, wind speed and direction) of the past 50 years for sebeta city.
3. DEM (digital elevation model) open access databases.
4. Demographic data of sebeta city from sebeta city administration.
5. Master plan of sebeta city both hard and soft copy from sebeta city administration.
6. Aerial photographs of the city with high resolution.
7. Collect the relevant socio-economic data: Collect demographic data by using data collection formats. Collect social information by using data collection formats. Collect the key economic data by using data collection formats.
8. Collect the relevant physical/spatial and environmental data: Prepare topographic maps in 1:2000 or 1:2000 scale. Collect the existing detailed land use data and indicate on the prepared map.
9. Collect the necessary institutional information.

- Compile collected data systematically: Encode the empirical information, tally the qualitative information, interpret the data organized, and attach the necessary explanatory notes and site sources of data properly.
- Survey using field tools, such as GPS device.

Documentation and Metadata

- Date created, size, coverage, type.
- Arch-GIS version 10 or above is needed.
- Auto Desk Revit 20 is needed to develop and read drawing and maps.

Ethics and Legal Compliance

- Data will be required and stored (anonymously).
- The Data will be owned by the project team.
- CC BY-NC-ND- type of creative common license will be used.

Storage and Backup

- 2 TB separate hard disk 3 personal computers will be used for data storage.
- Open access sites such as ZENODO will be used for backup.
- Proper data security and storage is needed to avoid missing data in case of PC failure. We will use online open access data storage for backup.
Selection and Preservation

- Master plan of the city is used in the project period and should hand over two the city administration office.

- re3data.org and zenodo.org will be used to store data.

Data Sharing

- the data will be shared only by the approval of the three bodies 1) project core team 2) ASTU 3) Sebeta city administration office

- the collected sensitive data types will be remained confidential whereas less sensitive data will be accessible openly after the project is completed.

Responsibilities and Resources

- core team of the project will be responsible to implement the DMP.

- separate team will be established to handle data management plan issues
  - software version controls should be maintained.