# SPATIAL INFORMATION MANAGEMENT FOR SUSTAINABLE DEVELOPMENT, DISASTERS AND RISKS IN EKITI STATE,

### NIGERIA

BY

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#### ABSTRACT

Spatial information management is an essential pivot for the sustainable development of our noble country and such must be upheld in Nigeria as environmental problems are becoming menaces to the society. Environmentalists are cognizant of the fact that without current Spatial Information management the sustainable development may be hampered and this is one of the key catalysts of environmental disaster and risks, and that spatial information management is becoming an increasing technology, so its application is inevitable. This paper focuses on spatial information management on sustainable development, disaster s and risks management in Nigeria using spatial information to manage, prevent and monitor the environmental problems such as flood disaster, soil erosion, air pollution, fire disaster and global warming through forestry management so as to enhance good Sustainable Development in Nigeria. Factors responsible for these disasters were discussed and the methodologies for providing panacea to the problems are proffered. Spatial information management will go a long way to enhance Sustainable Development, combat environmental problems such as disasters and risks that that may hamper socio-economic development is this Twentyfirst century in Nigeria.

Key Words: Sustainable Development, Environmental Problems, Disaster, Risk, Drainage Facilities, Wastes, Buildings, Industries, Flooding, Global Warming, Greenhouse effect and climate change.

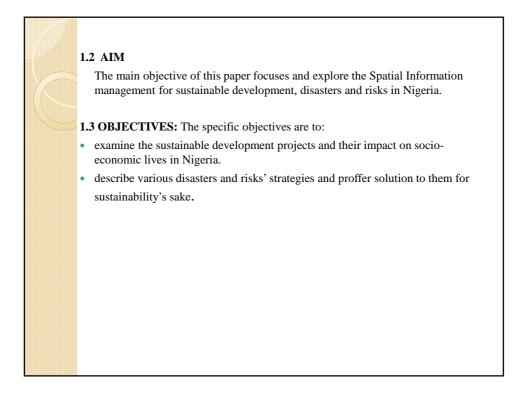
#### INTRODUCTION

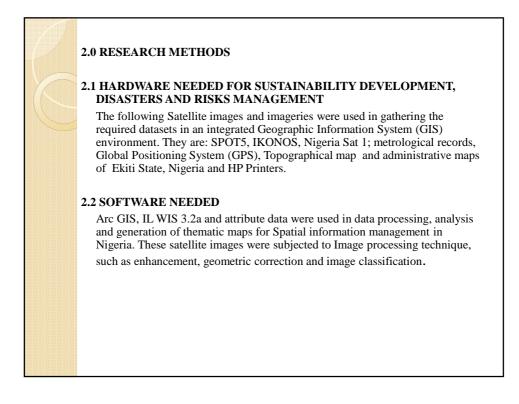
There is the need to correct and advance in technology because of the varying challenges facing the country such as risks, disasters that have impact on the socio-economic lives of man in Nigeria including Ekiti State.

• using GIS, Remote Sensing GPS are Spatial information technology to alleviate risks and disasters.

•Environmental problems are natural and man-made in which the spatial information management serves as eye-opener.

## 1.1 STATEMENT OF THE PROBLEM Developer's presumption on projects execution without considering the resultant/ adverse effects on the people, environment and ecosystem. There is the need for the government ,communities, individuals to take care of > the environment to avert possible danger and future embarrassment. > A number of environmental developments and projects are becoming problems and are disastrous. > Most of the problems that involve management of disaster and risks are already very serious and require urgent attention. Humanity's stake in environmental conservation, preservation and protection is enormous, and environmental values have been neglected too often in the past. The cost of disasters, hazards and risk management in Nigeria is high and the $\geq$ impact of these environmental problems are principally loss in health or life, poverty, crimes, less productivity and amenity. Also, we must ensure that the current need of the present does not have negative impact on the future generation.





#### 3.0 BASIC DEFINITIONS

GIS

- □ Sustainable development
- Environment
- Land
- Disaster and risks management
- 🗅 Data
- □ CAD (Computer Assisted Drafting)
- DBMS (Data Base Management System)
- Database
- Data structures

