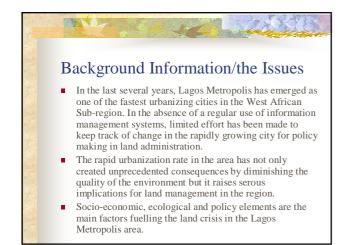
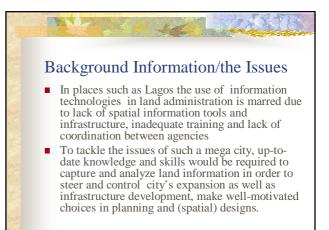
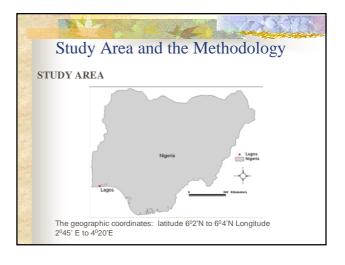


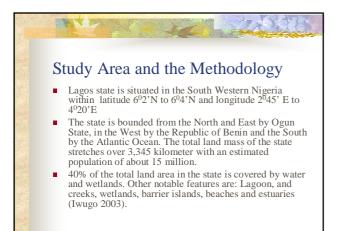
# **Scope of the Presentation**Background Information and Issues Objectives of the Research Study Area and the Methodology Results and Discussion Policy Recommendations Conclusion Acknowledgement





## Objectives of the Research To update the literature To design a decision support tool for land administration To demonstrate how latest advances in geospatial information technology can guide planners and policy makers towards an improved land administration.





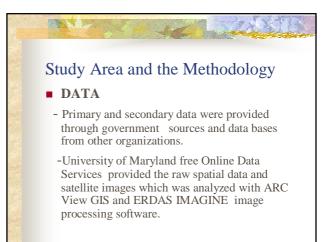
### Study Area and the Methodology

17 5

- Lagos is currently ranked as the fifth largest city in terms of population.
- Population of Lagos by 2015 is projected at 24.6 million making it the third largest city.
- The rapid expansion of Lagos seem to have surpassed efforts in physical planning as well as the development of infrastructure facilities in meeting the needs of its inhabitants.

Sti	Study Area and the Methodology					
1.1	Table Ta Lagos	State Populatio	on (in millions) Monitor			
•	Year	Population	Global Ranking			
- F	Year 1997	Population 11.5	Global Ranking 12 <sup>th</sup>			
			<u>U</u>			
	1997	11.5	12 <sup>th</sup>			

Source: United Nations World Population Monitor 1998/1999



### Study Area and the Methodology

DATA ACQUISITION AND PROCESSING

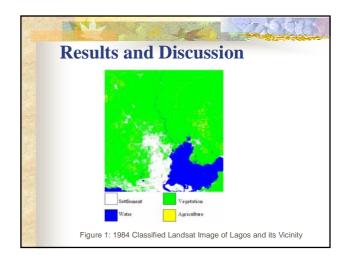
- Landsat Thematic Mapper (TM) and Enhanced Thematic Mapper (ETM+) data pair of December 18, 1984 and February 6, 2000 covering Lagos, Nigeria was acquired from the University of Maryland free Online Data Services.
- The images were imported into ERDAS Imagine Image Processing software for further processing.
- A layer stack technique was performed to group the single band images together.
- Further Geometric corrections of the images to remove few scattered clouds in the image was performed.
- Both images were projected to the Universal Traverse Mercator (UTM) coordinates zone 31. The spheroid and datum was also referenced to WSG84.

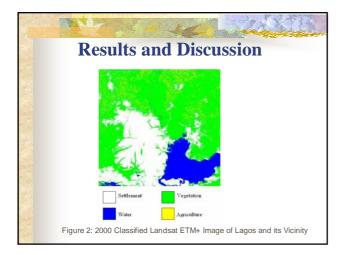
## Study Area and the Methodology

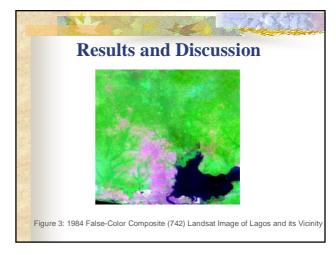
### **DATA PROCESSING (Continued)**

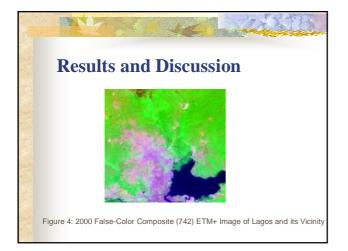
- Histogram Equalization enhancement technique was performed on all the images, and subset to an area of approximately 2,383.994 km<sup>2</sup> to cover Lagos and its vicinity.
- The images were later displayed as false-color composites with band combination of red as band 7, green as band 4, and blue as band 2. All the images were later categorized using unsupervised classification technique.

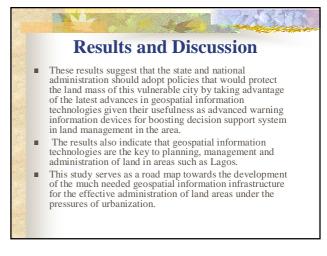
<ul> <li>Results and Discussion</li> <li>Table 2: Results of the classified 1984 and 2000 image</li> </ul>					
Classes	Area (ha) in	Area (ha)	% change		
	1984	in 2000	(1990-2000)		
Water	29,040	24,708	-14.91		
Settlement	24,360	63,317	159.92		
Vegetation	180,384	140,568	-22.07		
Agriculture	4,615	9,806	112.48		













### Conclusion

- Geospatial information technologies are the key to planning, management and administration of land in areas such as Lagos.
- The tools and methods used in the study serves as a road map to the development of the much needed geospatial information infrastructure for the training of land managers and the effective administration of land areas under the pressures of urbanization.

