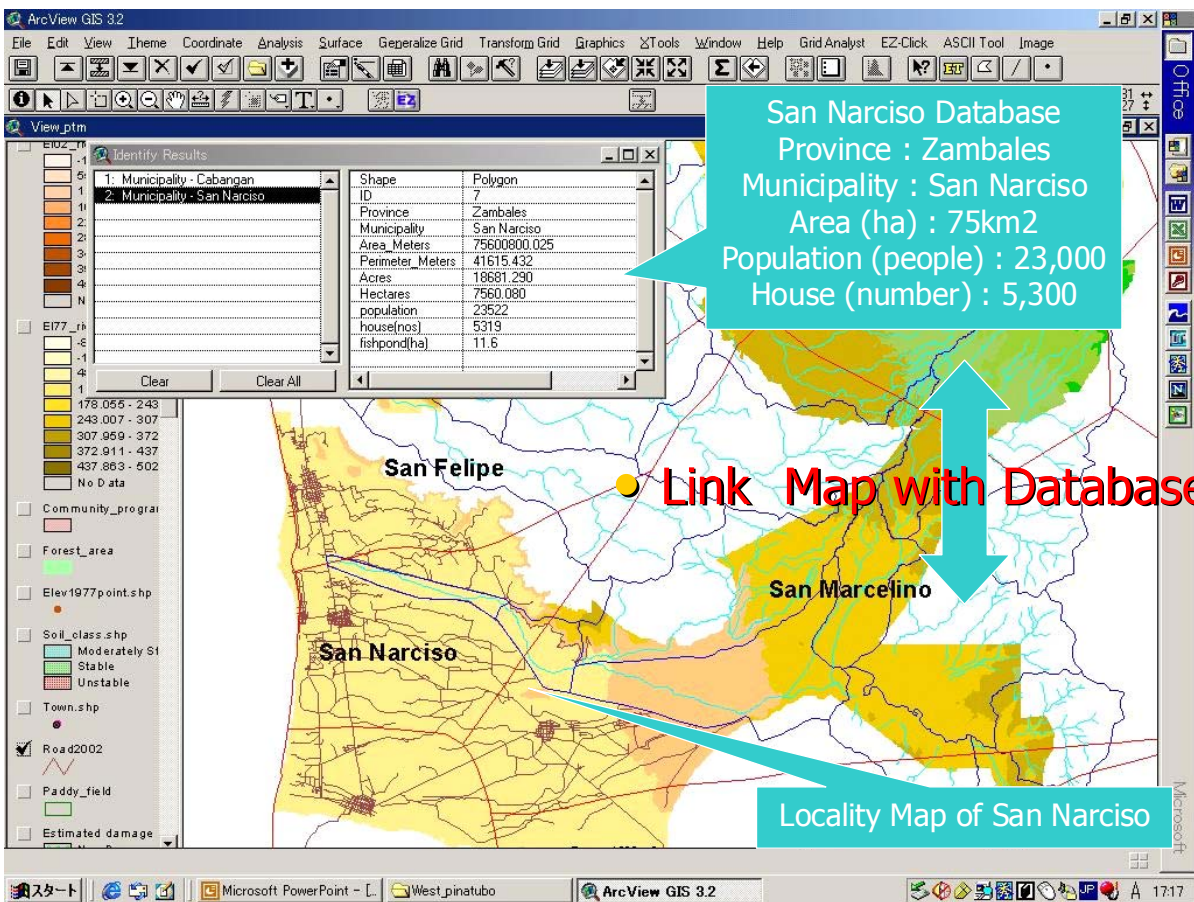
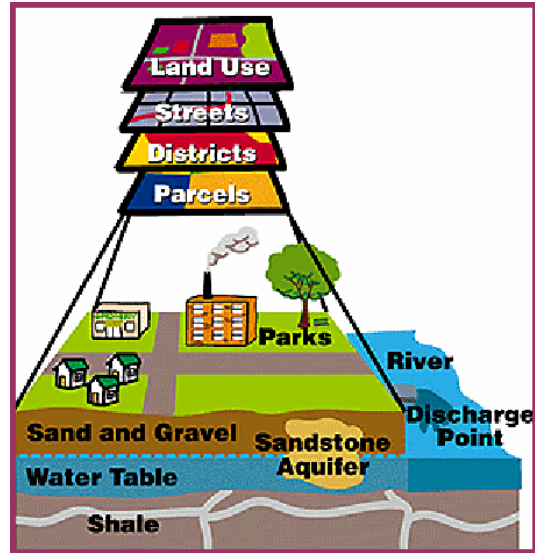


*The Study on Sabo and Flood Control for Western River Basins of Mount Pinatubo
in the Republic of the Philippines
Final Report
Supporting Report*

Figures

What is GIS?

-) **A method to visualize, manipulate, analyze, and display spatial data**
-) **Tools of linking a database with the map**

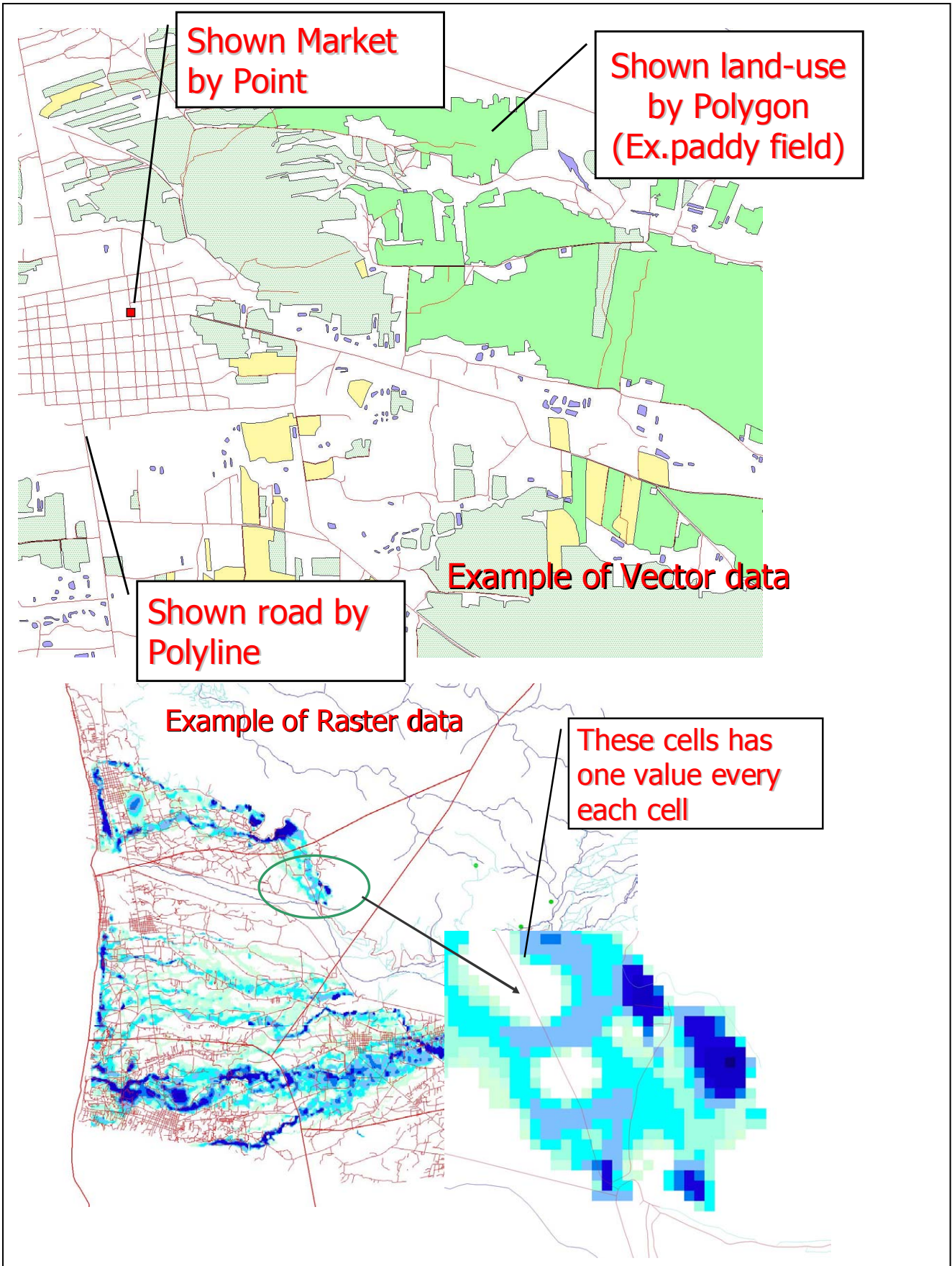


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Figure 1.1.1
Out line of Geographic Information System



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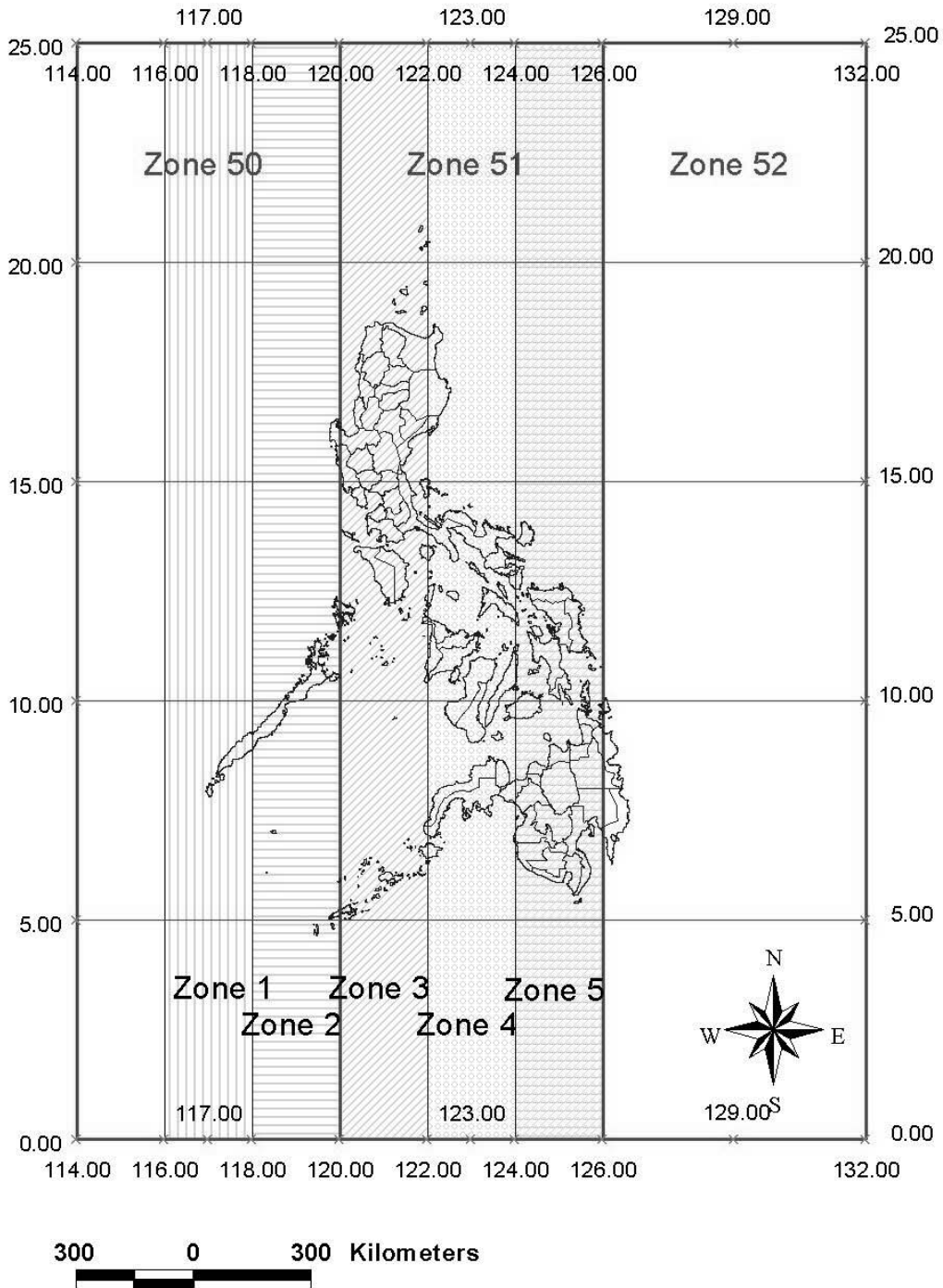
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Figure 1.1.2

Example of Raster Data and Vector Data

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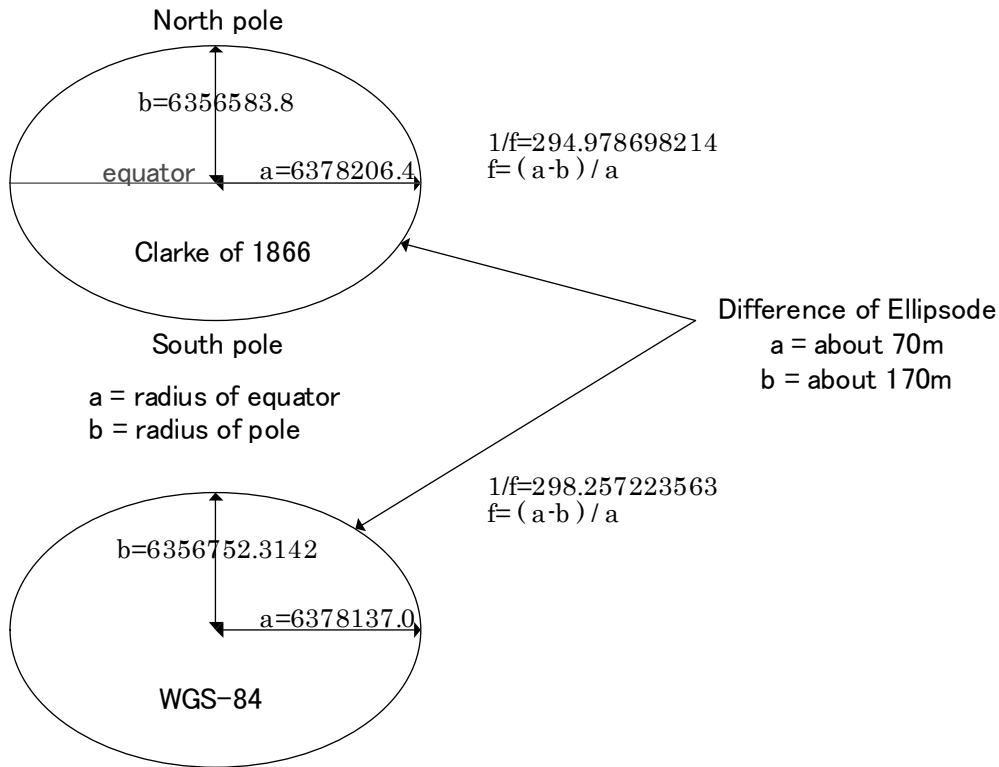
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Figure 1.2.1

UTM & PTM Zones in the Philippines

Ellipsoid



X,Y coordinate by each coordinate system

Geographic coordinate system

Name	WGS-84		Clarke1866	
	X(degree)	Y(degree)	X(degree)	Y(degree)
MANILA	120.972	14.595	120.971	14.597
IBA	119.979	15.327	119.977	15.329
Subic	120.232	14.879	120.231	14.880
ANGELES CITY	120.587	15.138	120.585	15.140

Projected coordinate system

Name	PTM zone3		UTM zone51	
	X(m)	Y(m)	X(m)	Y(m)
MANILA	497022.6	1614013.5	281569.4	1614521.9
IBA	390313.1	1695246.8	175543.1	1696761.7
Subic	417383.8	1645515.1	202179.0	1646746.1
ANGELES CITY	455599.1	1674147.5	240672.8	1675049.1

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Figure 1.2.2

**Major Ellipsoid and Coordinate of Major
Points by Each Coordinate System**