



magandang San!

Implementing Climate Change Resilient Development in the City of General Santos

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City Councilor

**Committee Chairperson on Climate Change, Adaptation and
Environment**



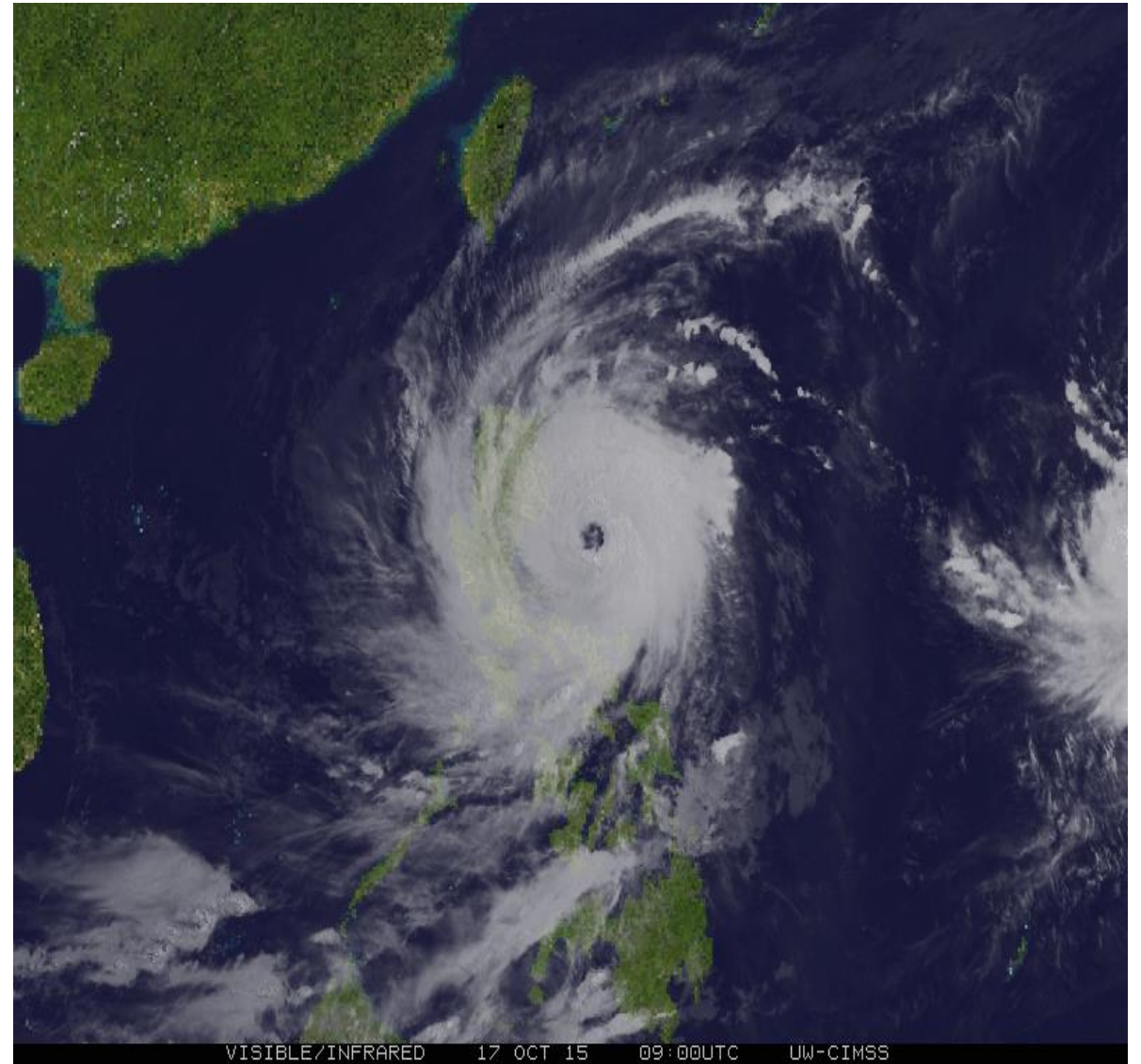


- LUZON**
- VISAYAS**
- MINDANAO**
- REGION 12**



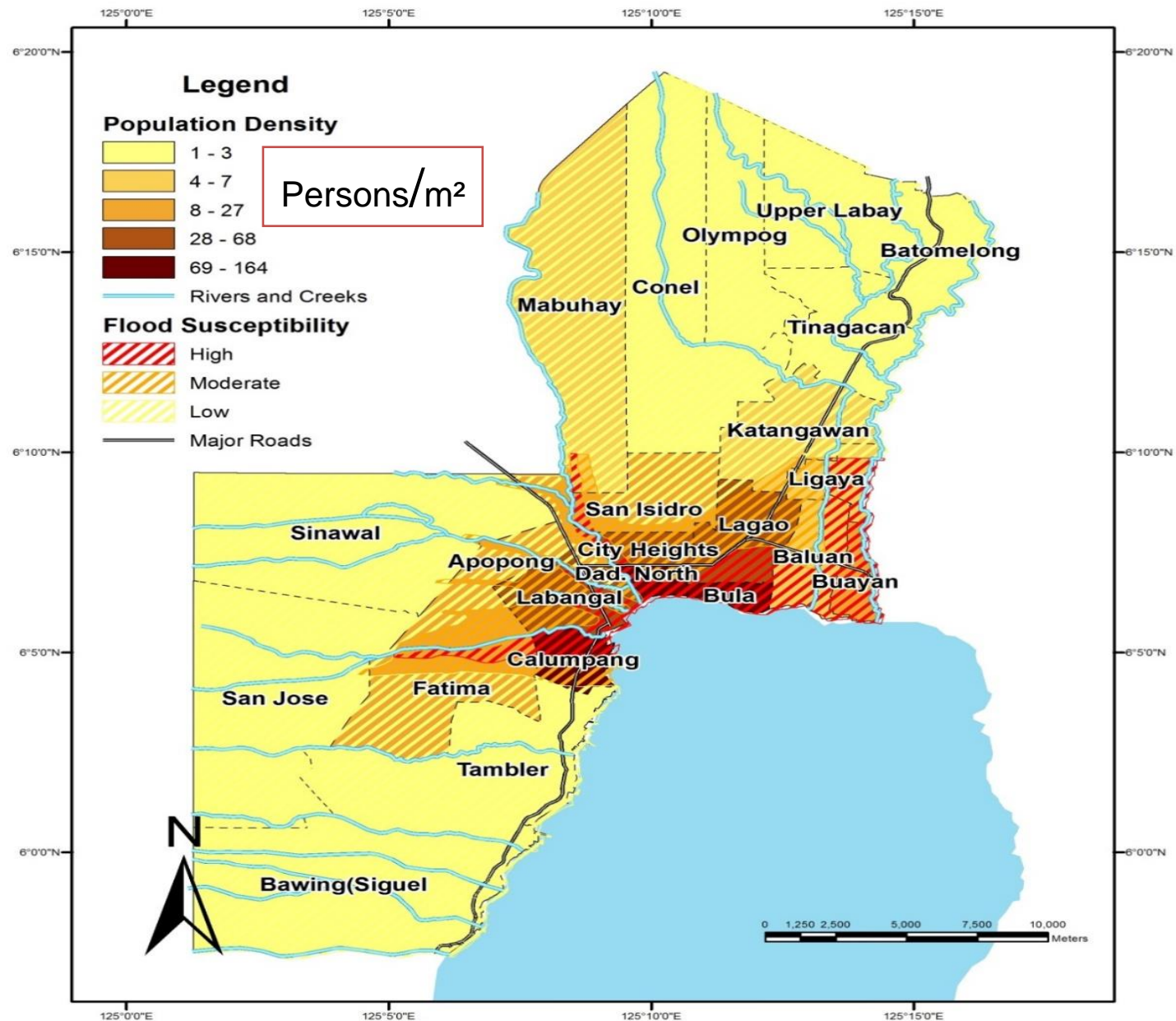
General Santos City

Direction of Typhoon



Hazards confronting General Santos City (via Climate Disaster Risk Assessment)

HAZARD		Description of Impact Area	Measure of Likelihood	Return Period in Years	history
Hydro meteorological					
1	FLOODS	along rivers, coastal areas, local flooding due to runoff	Frequent or very likely	Every 1-3 years	✓
2	STORM SURGE	coastal areas	Frequent or very likely	Every 1-3 years	✓
3	LANDSLIDE Rainfall-Induced	Hilly areas, along rivers	Frequent or very likely	Every 1-3 years	✓
	LANDSLIDE Earthquake-induced				
4	DROUGHT	all brgys esp. agricultural /fishery areas, water supply systems	Frequent or very likely	Every 1-3 years	✓
Geologic					
5	EARTHQUAKES - ground shaking	all brgys esp areas prone to liquefaction, fault rupture	Frequent or very likely	Every 1-3 years	✓
	fault rupture, liquefaction				
6	VOLCANIC ERUPTION	hilly areas, along rivers	Highly unlikely, rare event	Every 100-200 years	✓
7	SEA LEVEL RISE	coastal areas	Frequent or very likely	Every 1-3 years	✓



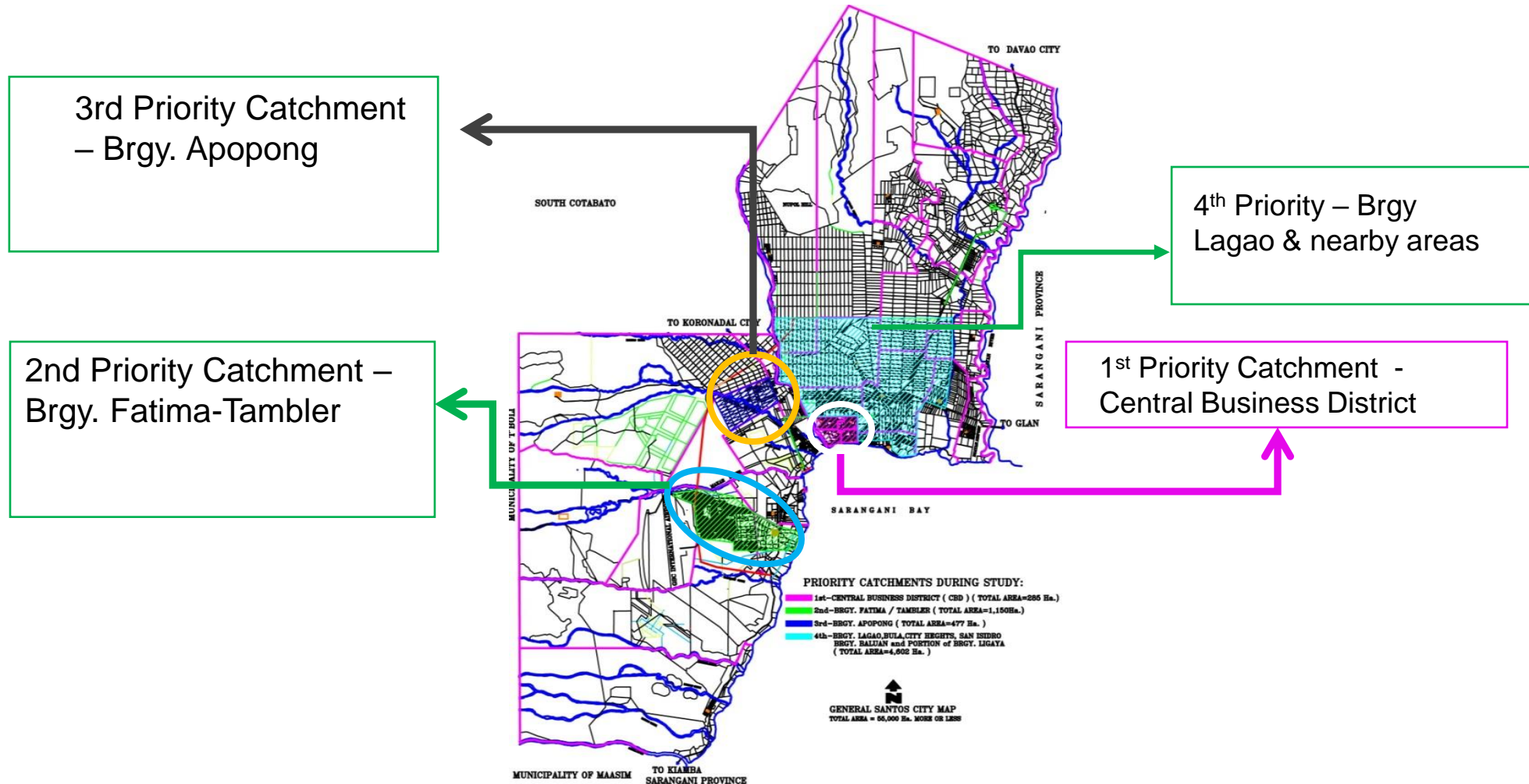
Overlay of Population Density Map and Flood Susceptibility Map CITY OF GENERAL SANTOS

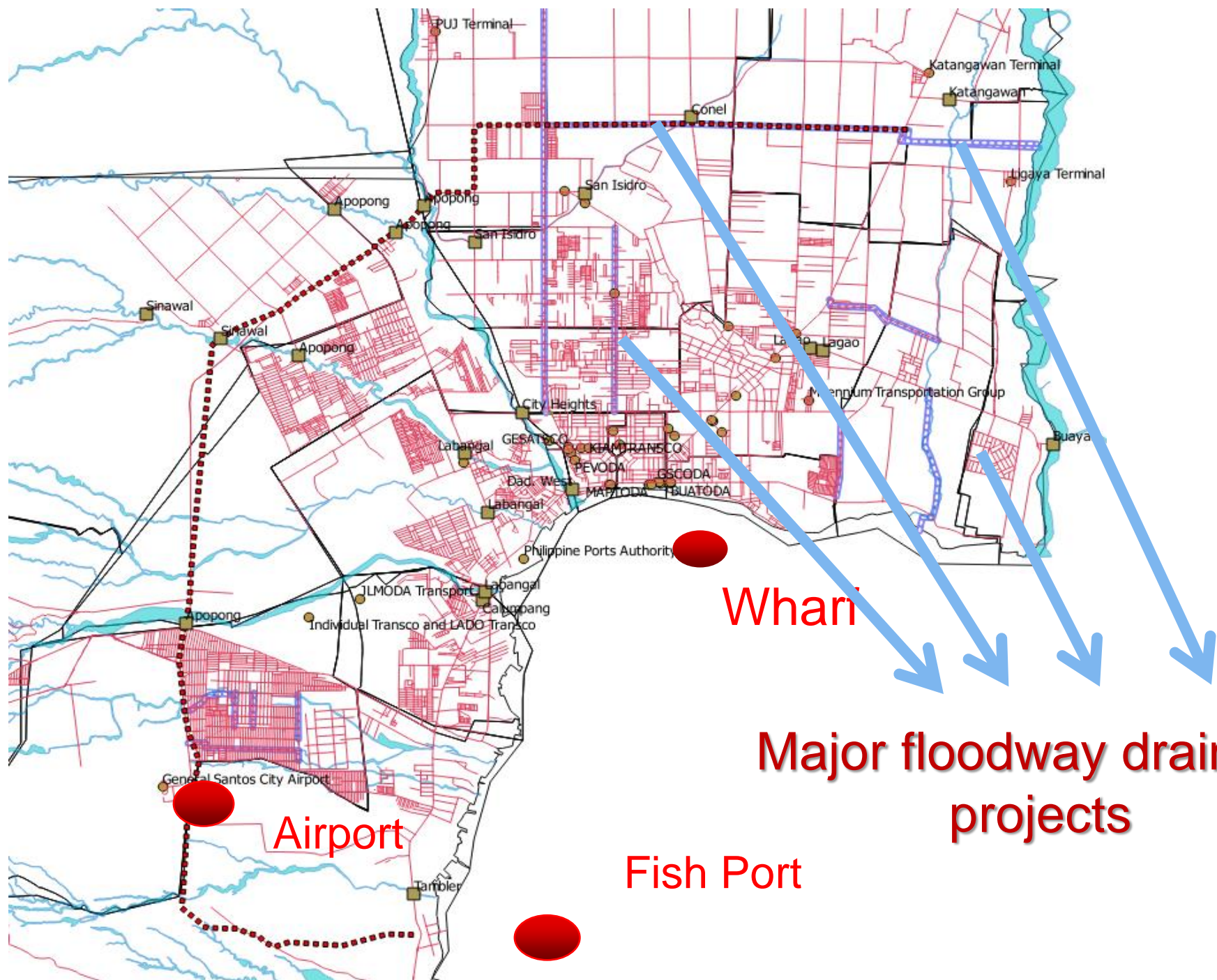


Effects of Flood



General Santos City Major Drainage Projects (2001)





Project : Diversion Floodway 4 to Ligaya Outfall @ Buayan River
Total Length : 8.7 km Channel Dimension : 2.5X3.0m box culvert/ 72"
diameter RCPC
Cost to Construct : 305,000,000.00

Circumferential Road (nothern section)

Junction Mabuhay Road (Dacera Ave.)

Ligaya Outfall

Buayan River

Flow direction

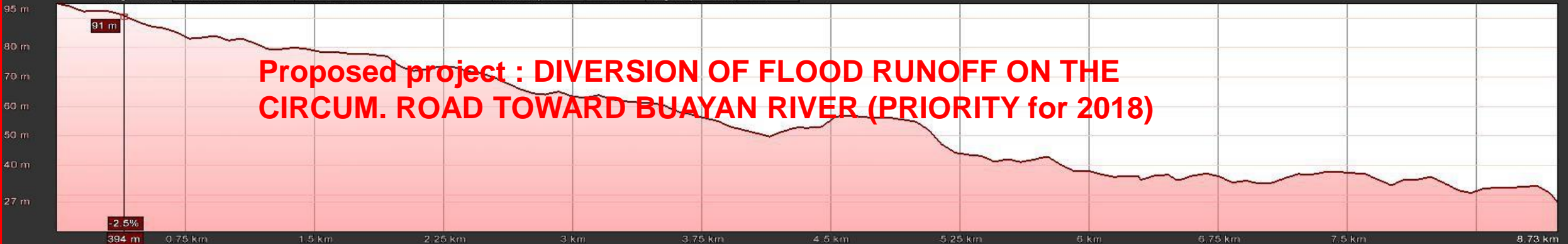
total length: 8.7 km
2.5x3m box culvert / 72" RCPC
Cost: PHP 305 M (USD 6M)

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Google Earth

Graph: Min, Avg, Max Elevation: 27, 56, 95 m

Range Totals: Distance: 8.73 km Elev Gain/Loss: 30.3 m, -97.9 m Max Slope: 4.7%, -7.3% Avg Slope: 0.9%, -1.7%





MARAMING SALAMAT!

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KANSAHAMNIDA!