

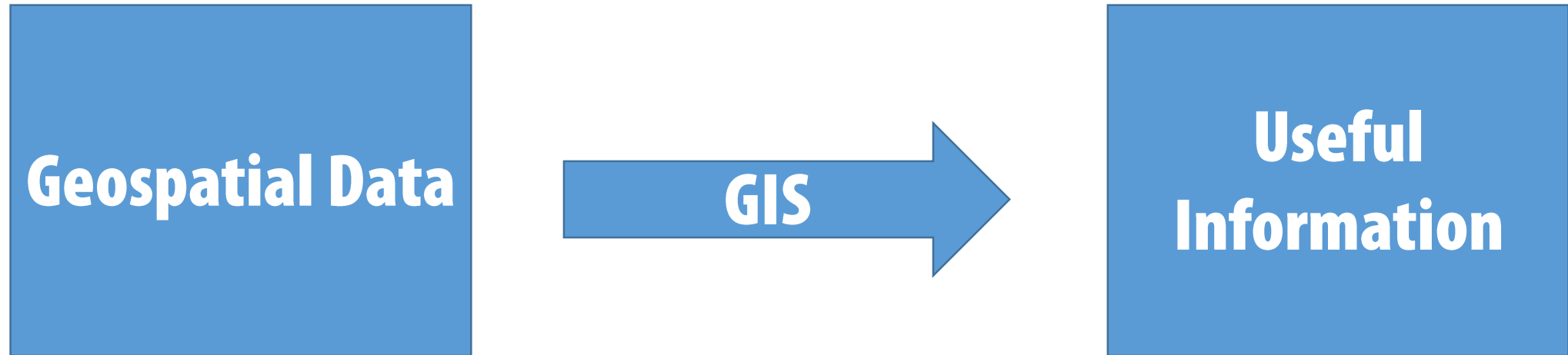
Introduction to Geographic Information System

Soohyung Kim

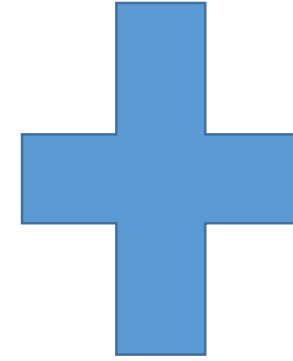
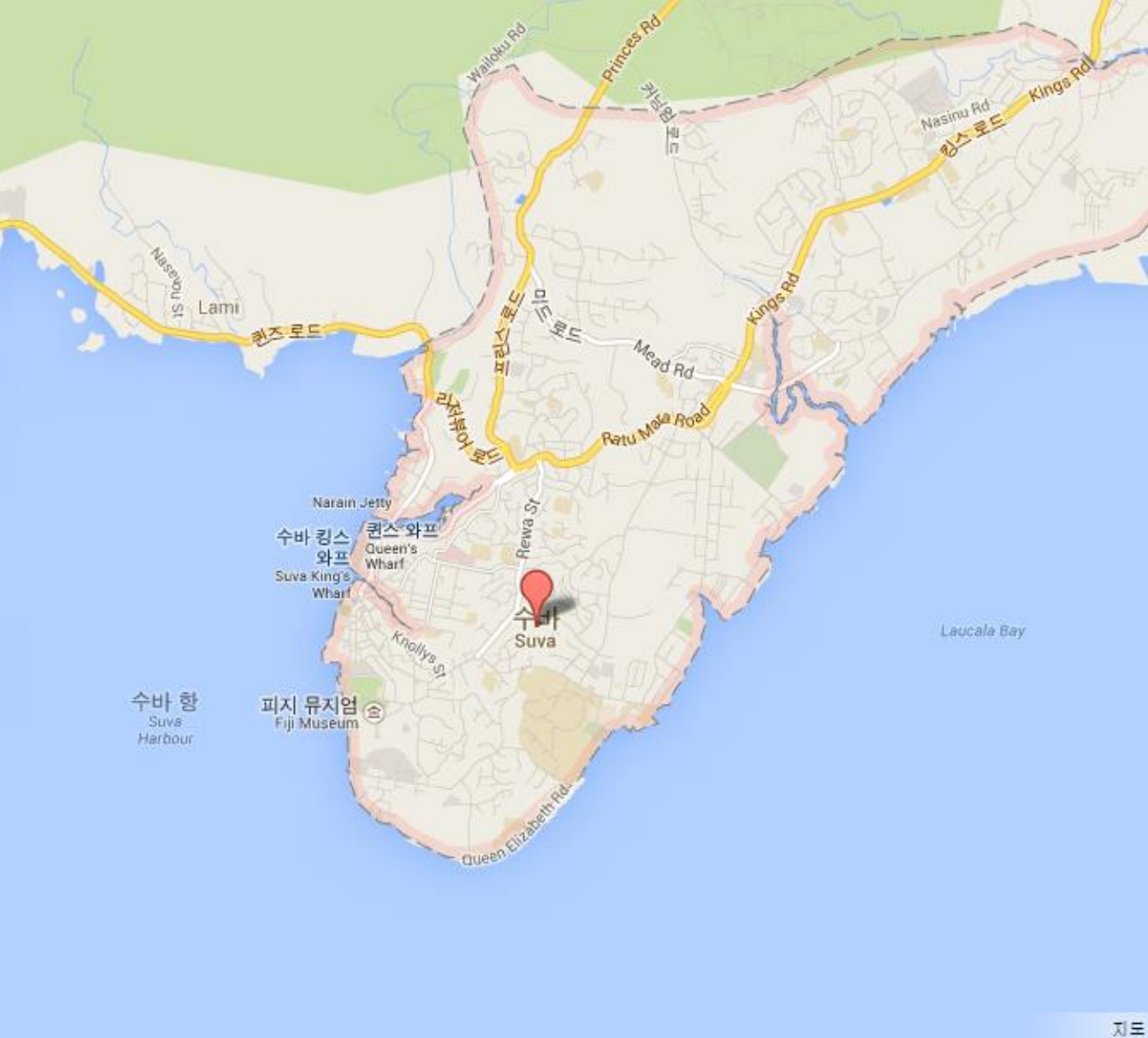
Consultant

**ICT and Disaster Risk Reduction
Division, ESCAP**

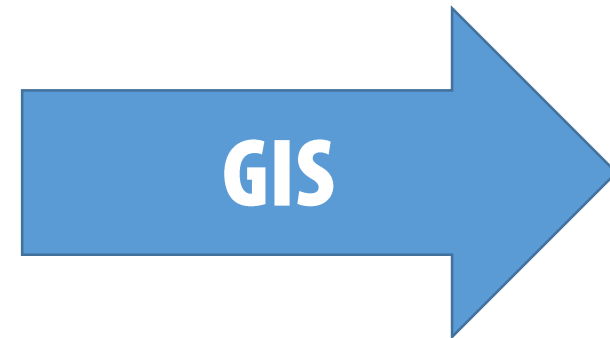
What is Geographic Information System?



What is Geographic Information System?



**20 meter of
Sea Level Rise**



What is Geographic Information System?



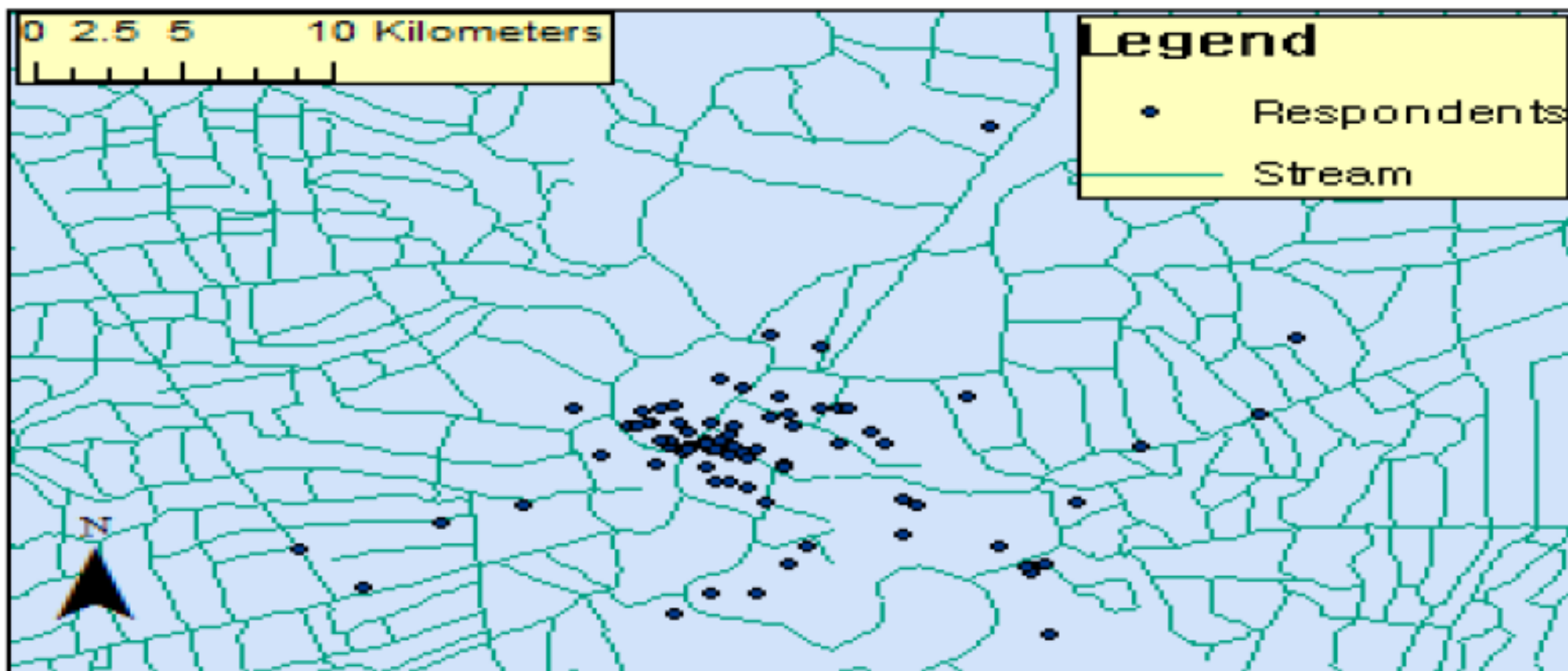
Flooded Zone



What Can We do with GIS?

- **Measuring**
- **Mapping**
- **Monitoring**
- **Modeling**
- **Managing**

What Can We do with GIS?



**Geographic distribution of
respondents**

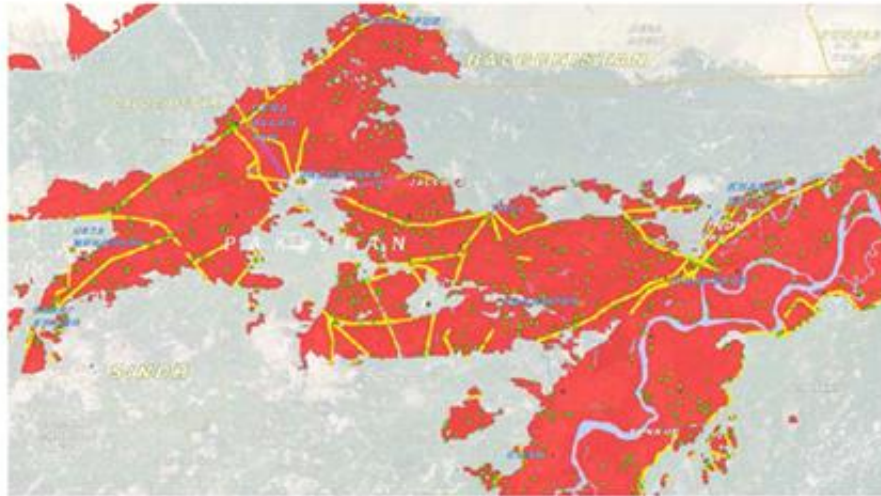
What Can We do with GIS?



**Google
Map Maker
Data for
Pakistan**



**UNOSAT
Flood
Water
Analysis**



**Combination of data allows for
detailed and comprehensive
preliminary damage analysis
for country of Pakistan**

*Summary of Flood-Affected Populated Places and
Infrastructure*

Province	BALUCHISTA N	KHYBER PAKHTUNKHWA	PUNJAB	SINDH	Others	Total
Village Count	174	808	4,037	2,463	10	7,492
Towns / Cities	6	39	54	36	0	135
Health facilities	12	20	70	88	0	190
Bridges	11	183	139	95	1	429
Roads (km)	313	772	1,613	2,331	21	5,051
Railways (km)	10	27	169	199	0	406

**Mapping of Pakistan
Floods (UNOSAT, 2010)**

REPORTED INCIDENTS OF SOMALI PIRATE ATTACKS AND HIJACKINGS IN THE GULF OF ADEN FOR 2008

