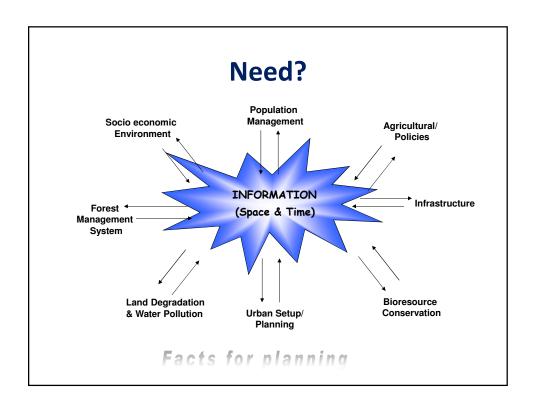
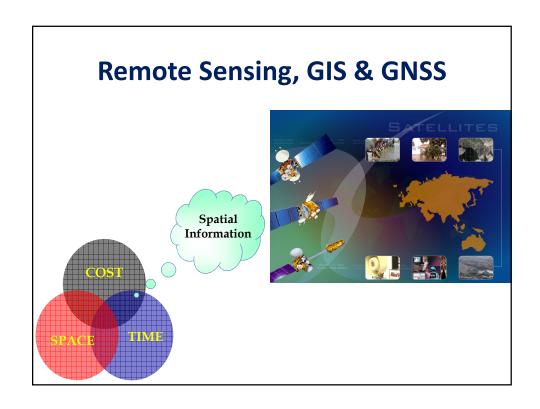
### **RS & GIS for city level assessments**

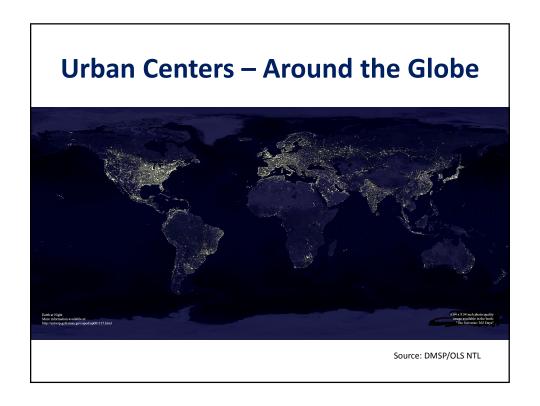
- Panaji & Visakhapatnam



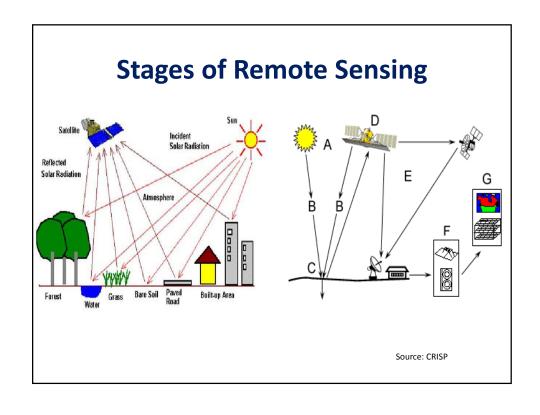
Professor & Head
Department of Natural Resources
TERI University, New Delhi
Email: pkjoshi@teri.res.in

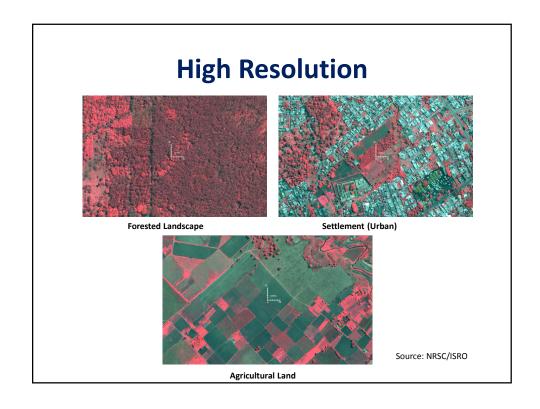


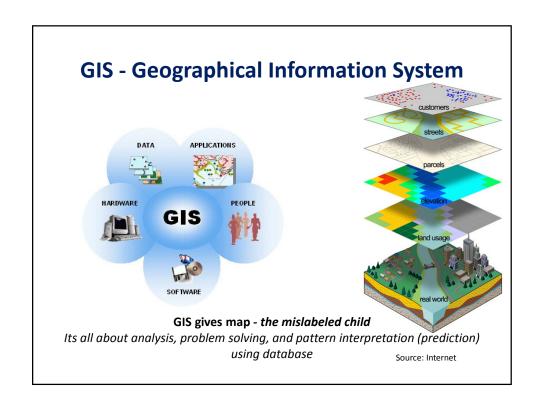


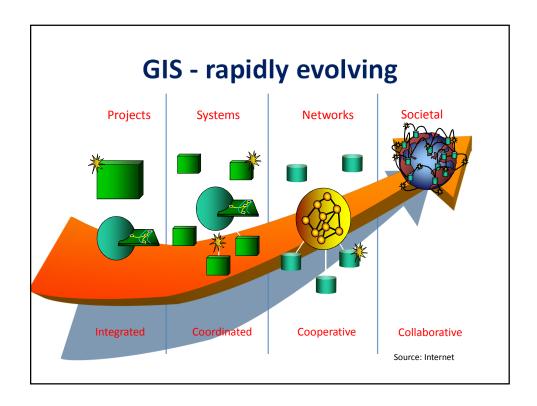


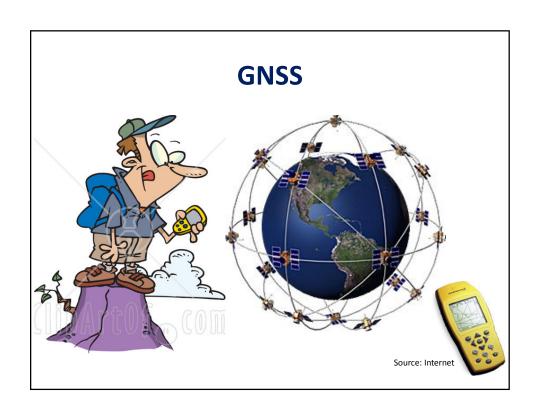




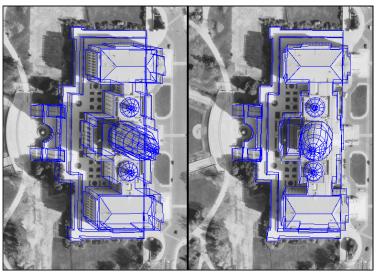








# **Building footprint**



Source: Jensen (2007)

## **3-D**



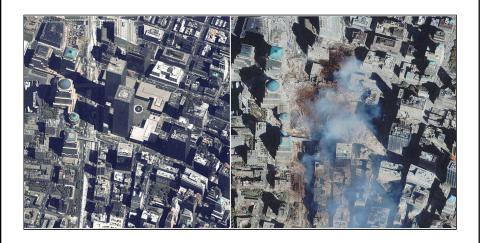
Source: Jensen (2007)

## **Tornado damage**

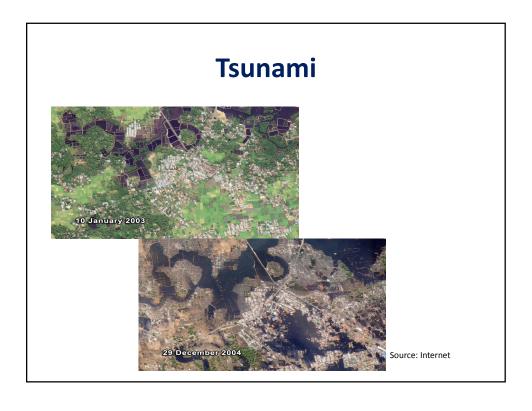


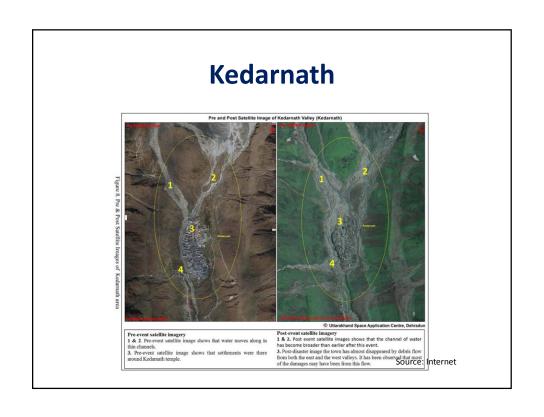
Source: Internet

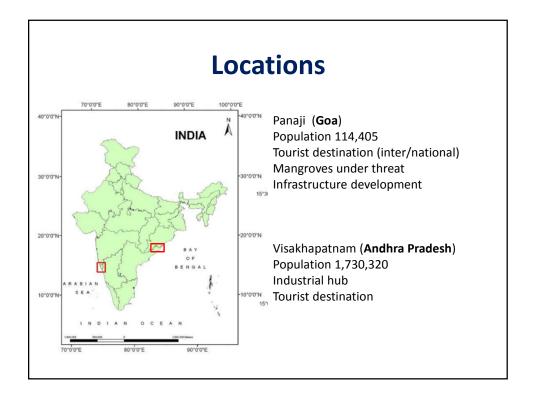
### **World Trade Center**



Source: Internet





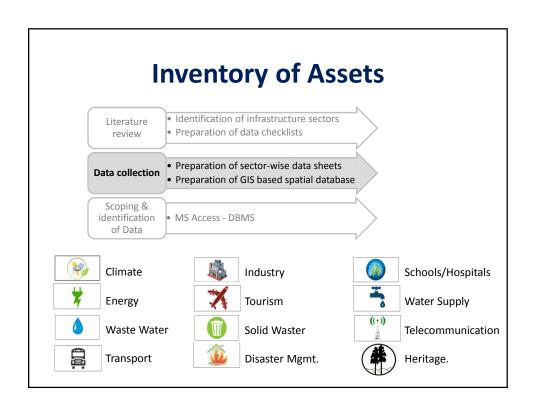


#### **Objectives**

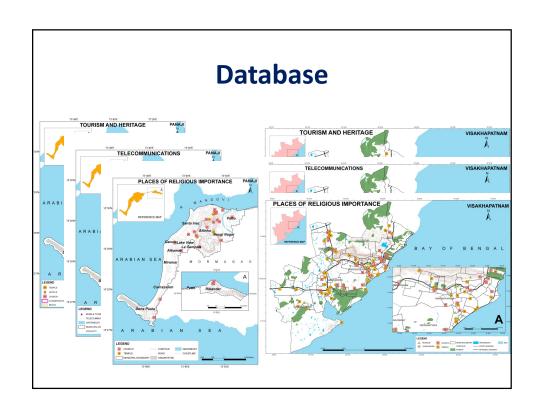
- 1. Understanding impact of sea level rise and vulnerability of the cities to climate change induced events like extreme precipitation, cyclones and storm surges.
- 2. Identifying hotspots and critical infrastructure and services
- 3. Identifying actions to address climate criticality and to plan for climate resilience
- 4. Informing planning decisions at the level of the local government (city government) to achieve the same.

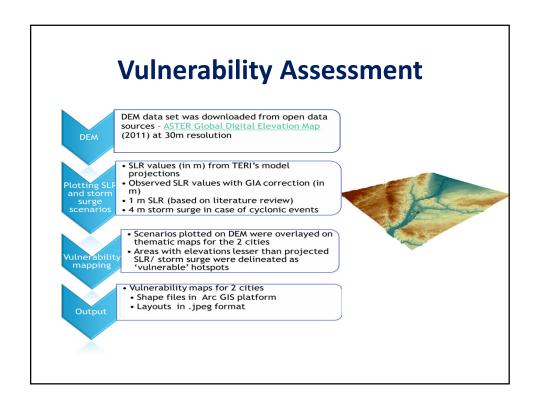
#### **Objectives**

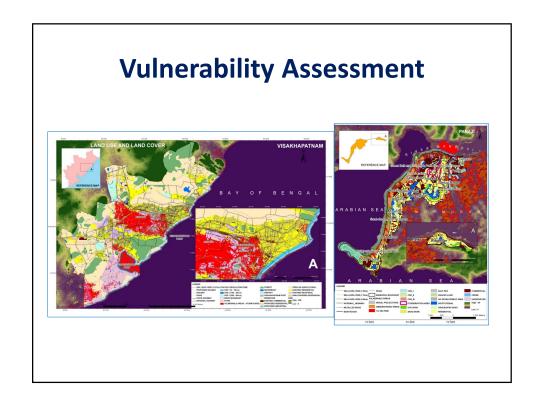
- Understanding impact of sea level rise and vulnerability of the cities to climate change induced events like extreme precipitation, cyclones and storm surges.
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- 4. Informing planning decisions at the level of the local government (city government) to achieve the same.











### **Vulnerability Assessment**



#### **Conclusions**

- Sector specific recommendations
- Cover man-made and natural infrastructure assets
- · Provide inputs on Planning/Regulatory requirements/Capacity needs
- Scenarios and location specific vulnerability for both cities
- Strengthening the resilience capacity and reducing the vulnerability of the infrastructure services against climate change
- Developing policy and regulatory instruments for building resilience of our cities and infrastructure





Contribution(s)

Mr Summit Anand Mr Muvunyi Germain Ms Seema Kundu Ms Rozita Singh Ms Raina Singh Dr Divya Sharma

