Stevens Institute of Technology Summer Project

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07/03/15

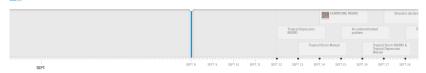
Introduction



Natural disasters 2013

In September of 2013 two hurricanes category 1 in the Saffir-Simpson scale, affected 19 of the 31 states in Mexico. Even though both tropical storms where not as destructive as other hurricanes (scales 3-4),the interaction between storms (one in the Pacific Ocean and the other at the Atlantic Ocean) was catastrophic.





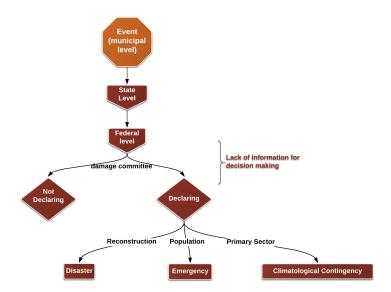
Follow the Disaster Time Line to learn more about the evolution of Ingrid and Manuel tropical storms.

Disaster Risk Management

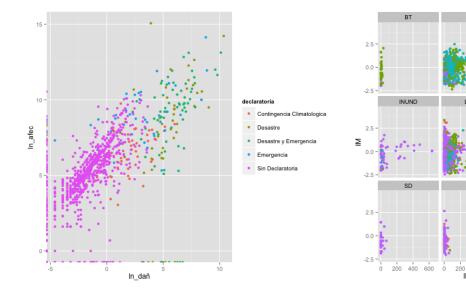


source: CATALYST winter Resilience Academy, 2013

Problem



Problem



Objectives

Develop and apply methods to assess the suitability of using news flows and precipitation data to characterize disater damages in Mexico looking forward to resource allocation improvement.

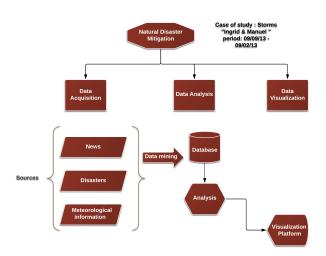
We will work towards an open, real time visualization platform for coordinated disaster mitigation for decision making.

Working plan

- ► Analyze information flows using Newspaper, TV and radio data.
- Correlation of news flows with precipitation data.
- Correlation of news flows with damage metrics (evaluation and public expenditure).
- Accompanying interactive visualization tools

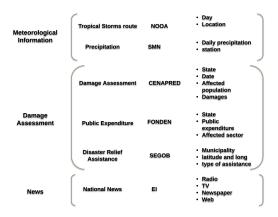
Workflow

The workflow of the project is the following:

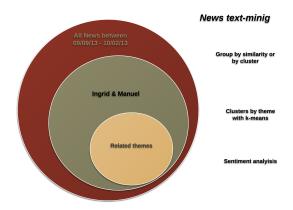


Information Sources

Information Sources for Event Analysis



News Porcesing



Project Time-Line

Project Time Line 07/03/13 - 08/16/13

