The SB SoVI Project:

Social Vulnerability Mapping and Collaborative Public Health Planning
Background: Direct Relief

• Established in 1948 to provide donations of medicine and medical supplies

• Nonsectarian, apolitical, privately funded

• 100+ corporate medical/pharmaceutical donors

• 100% of cash donations used for programmatic purposes

• In 2009
  – $160M in humanitarian assistance in 72 countries, more than $43 million in the United States
  – Over 4,000 shipments throughout the world
  – Each contributed dollar spent leveraged $37 in medical assistance
Social Vulnerability =

The relative capacity of populations to withstand the shocks and stresses to which they may be exposed.
Social Vulnerability Index =

A quantitative measure of relative population resiliency to shocks and stresses
## SoVI Data

### Census Derived
- Percent African American population
- Percent Hispanic population
- Percent Asian or Pacific Islander
- Percent Native American population
- Percent female
- Percent female headed households
- Percent population under 5 years old
- Percent population 65 years or older
- People Per Household
- Percent renter occupied housing units
- Housing Density
- Nursing home residents per capita
- Median age
- Urban/Rural Populations

### GIS Derived
- Manufacturing density
- Commercial density
- Industry Earnings
- Percent land in farms
- Community hospitals per capita

### Omitted
- Birth rate
- Vote cast for president
- Government Debt to revenue
- Number housing permits
- Value of non-residential property
- Percent population change

### Other
- Per capita income
- Wealth/Poverty
- Labor force participation
- Female labor force participation
- Percent unemployment
- Percent social security recipients
- Percent employment—extractive
- Percent employment—transportation
- Percent employment—service sector
- Median Home Value
- Median Rent
- Mobile Home Occupation
- Percent international migration
- Percent population over 25 years old with less than 12 years education
SB SoVI Project =

- **Modeling** the SoVI index for Santa Barbara County at the census block group level
- **Incorporating** the SoVI into public health planning and risk mitigation efforts
- **Building** a dynamic, web-based public health and hazard mapping application for analysis and communications
- **Researching** the practical application of SoVI mapping
- **Scaling** from SB County to multiple areas of the USA