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- Mitigate the impacts of disasters on human lives
- ⇒an adequate and timely delivery of emergency supplies to affected populations.
- ⇒Pre-positioning of emergency supplies prior to the disaster onset
- ⇒effective disaster preparedness to insure an effective disaster response



## Seminar Human Factors, Logistics & SensorTechnology in Emergency Management















## Modeling the Prepositioning Problem

- A two-stage stochastic programming model
  - ➢ First Stage decisions: Design decisions
  - Second Stage decisions: Operational decisions







- Urgency of Decision Making
- Dynamic-Stochastic environment
- Diversity of participants
- Difficulty to match demand to supply
- A centralized response is typically not realistic
- Difficulty to share information





