

# Preparedness to Prevent, Mitigate, or Improve Disaster Response and Recovery II

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## An Academic Perspective on Health and Humanitarian Logistics

**Georgia Tech, March 3-4, 2011**



# A Different World



Main road



A problem along the road ...



Almost safe ...



Almost there ...

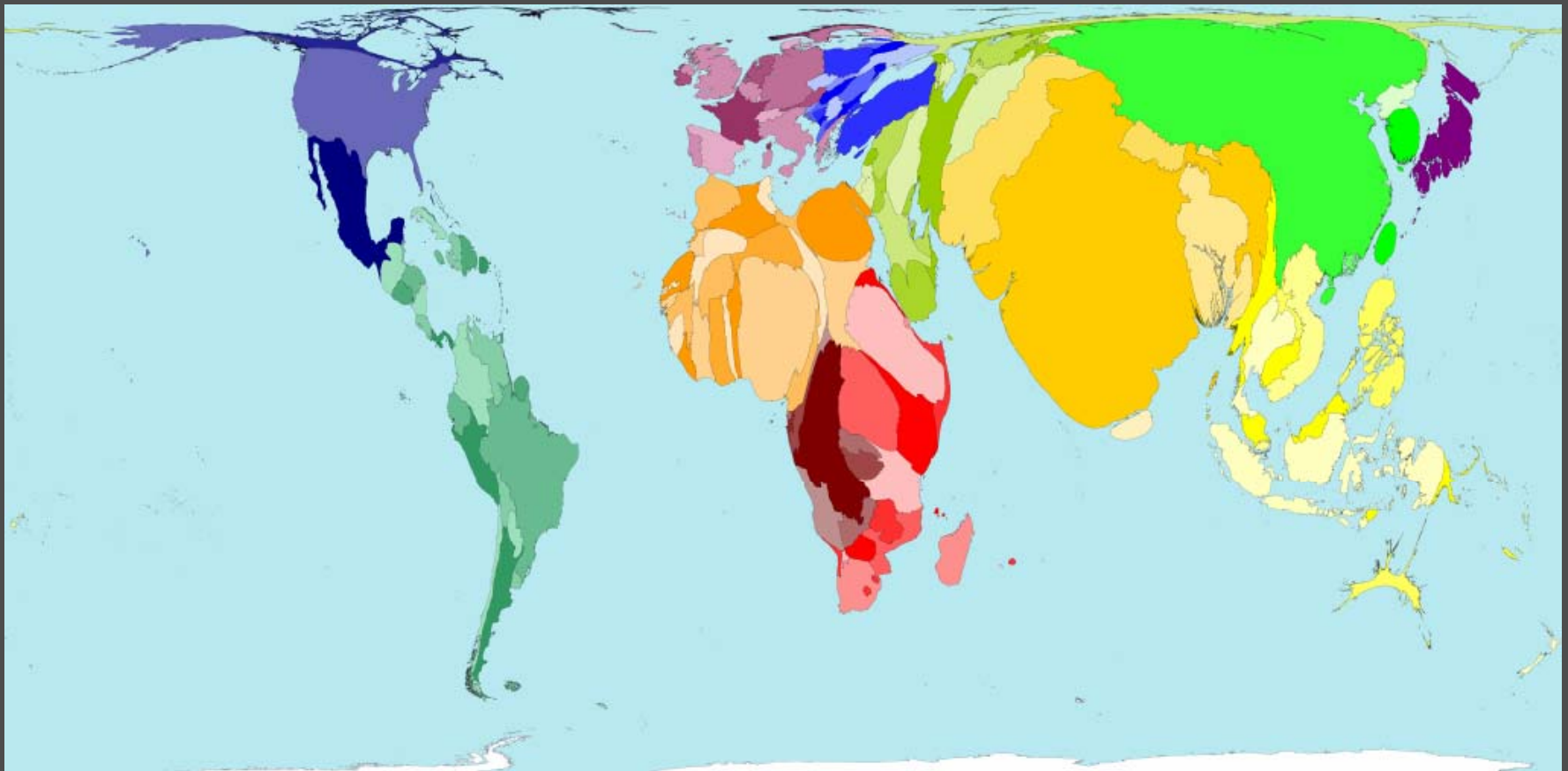


aid worker dressed as the locals



Food distribution

## WORLD MAP REWEIGHTED BY POPULATION IN 2050



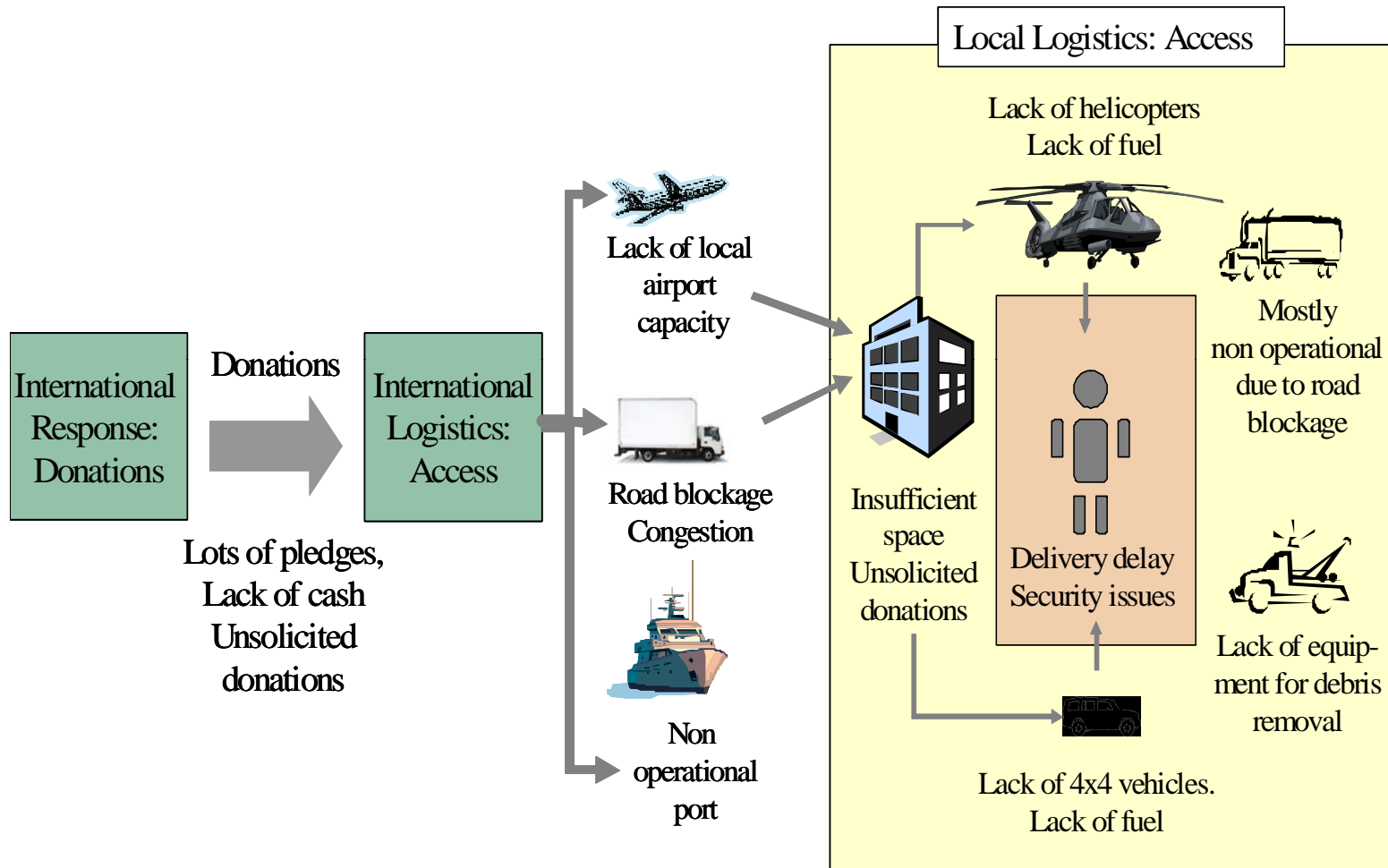
SOURCE: WORLDMAPPER.ORG



# THE BIG ECONOMIES OF THE FUTURE ARE MOST AT RISK FROM CLIMATE CHANGE



# A Challenging Response: Haiti



Source: Van Wassenhove, Pedraza Martinez and Stapleton (2010)

# Definition of a Successful Response

**“A successful humanitarian operation mitigates the urgent needs of a population**

***with a sustainable reduction of their vulnerability***

**in the shortest amount of time and with the least amount of resources”**



Source: ICRC.org

# A New World and Major Challenges

- Population growth and climate change will lead to ***more small and medium sized disasters*** (storms, floods, droughts)
- More than 50% of the world population lives in cities: this will lead to ***large urban disasters*** with a very different nature
- How and where should humanitarian organizations ***build capabilities to react to this new world***
- What do we ***learn from the big ones***: Asian Tsunami, Katrina, Haiti, Pakistan (***prepare better, build back better***)
- There is a ***huge opportunity here for research in supply chain management to support decision making***



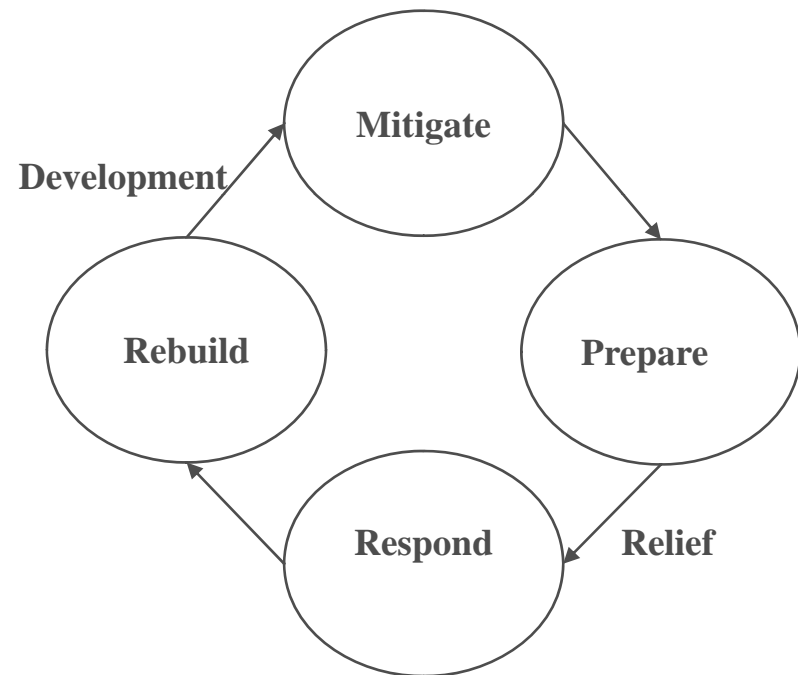
# Increased and Different Case Load, Less and More Constrained Funding

- ***Coordination and rules of the game:***  
Increasing role of military, business, donors, technology and social media
- ***Data is the beast:***  
scenario and risk analysis, determine needs
- ***More “Uneasy Alliances”:***  
Need to build more local capacity  
Need to build back better  
Do no harm (footprint)
- ***New types of disasters:***  
more medium-sized disasters (floods, storms, draughts) and more large urban disasters
- ***Beware of perverse effects of funding***
- ***Prepare with a lifecycle approach:***  
preposition (network design), debottleneck/prioritize, unsolicited goods, anticipation of recovery

# INSEAD HRG

## Research areas

- **Logistics of disaster preparedness and disaster response**
- **Multi-sector partnerships**
- **Environmental impact of humanitarian operations**
- **Global healthcare supply chains**
- **Fleet management in the humanitarian sector**

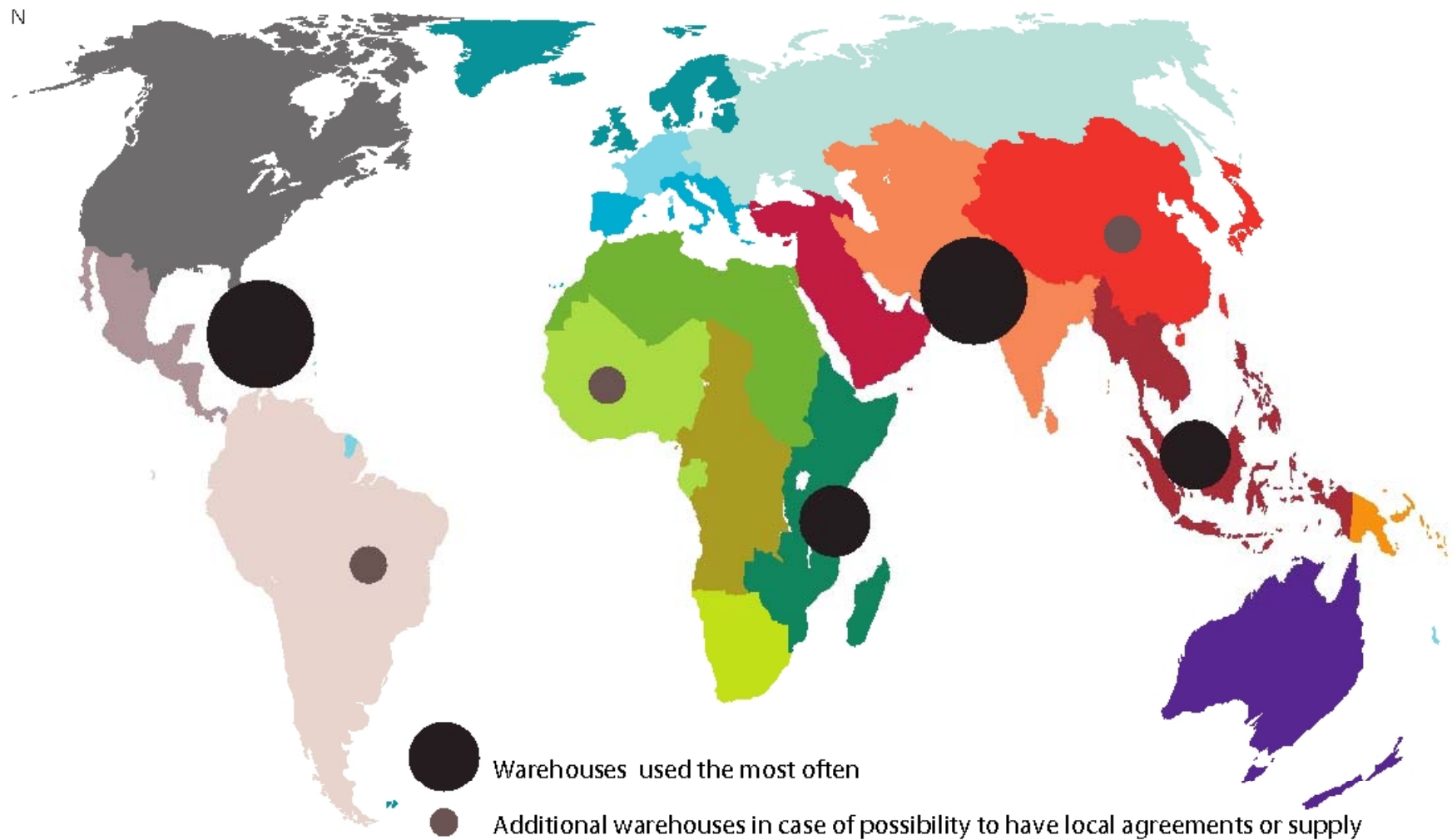


Disaster Management Lifecycle - Tomasini and Van Wassenhove (2009)

**TNT-WFP**  
Partnership  
*Looking for a Partner*



# IFRC Network Design





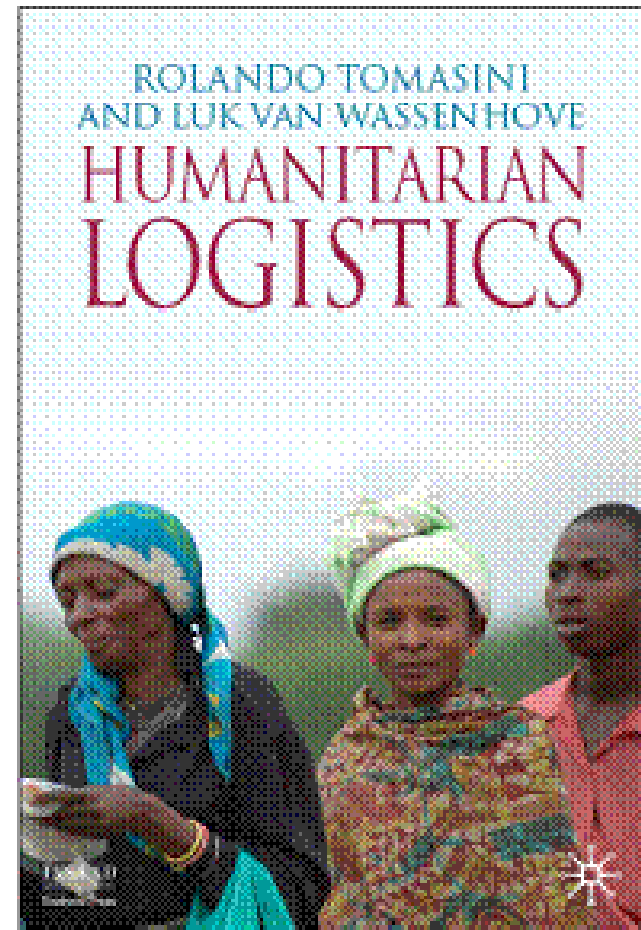
# Field Vehicle Fleet Management in Humanitarian Operations



# INSEAD HRG

## Research and pedagogic output

- **Executive Education Programme**
  - **Management in the Humanitarian Sector**
- **MBA elective course**
- **Humanitarian Logistics book**
- **More than 15 research papers**
- **More than 25 case studies**





# Q & A Discussion

**please visit our website**

**[insead.edu/humanitarian](http://insead.edu/humanitarian)**

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