



# GEORGIA TECH Health & Humanitarian Logistics Center

A Unit of the Supply Chain & Logistics Institute



Özlem Ergun  
Co-Director and  
Associate Professor

The opportunities in humanitarian response and world health are vast. Constrained resources, uncertainty in demand and supply, and many other variables in these settings make quantitative analysis and mathematical modeling excellent tools for decision support.



Pinar Keskinocak  
Co-Director and  
Associate Professor

With the goal of improving the human condition through advanced science and technology the Stewart School of Industrial and Systems Engineering's Supply Chain & Logistics Institute (SCL) established the **Health and Humanitarian Logistics Center**. The center, led by Professors **Ozlem Ergun, Pinar Keskinocak, and Julie Swann**, facilitates and fosters research, education, and multi-organizational collaboration.



Julie Swann  
Co-Director and  
Associate Professor

**Projects/Applications:**

- disease modeling and intervention strategies
- modeling and optimizing hospital/clinic operations
- healthcare policies
- allocation of scarce resources for improved health outcomes or emergency response
- preparing and planning for disasters and developmental aid
- disaster response (emergency and long term)
- recovery and mitigation

Example projects include ones with CARE, CDC, and the United Nations.

**Outreach:**

- Develop meetings, workshops, and conferences to bring together organizations to enhance collaboration and knowledge sharing.

*Through a variety of projects, the Health and Humanitarian Logistics team aims to have a positive impact on the world by improving the multi-billion dollar health and humanitarian sectors.*

**Research:**

- Develop or adapt methodologies for solving complex problems in health and humanitarian logistics including forecasting, mitigation strategies, inventory planning, and decentralized decision making.
- Mentor graduate students and develop cross-discipline research collaborations for maximum impact.

**Education:**

- Integrate health and humanitarian problems in undergraduate and graduate classes.
- Develop executive education courses for NGOs and other organizations.
- Prepare educational materials (e.g., case studies or simulation games) based on NGO, company, or military efforts (such as The Home Depot and Waffle House case studies).

The Health and Humanitarian Logistics Center's research contributes to the delivery of healthcare and the planning and execution of humanitarian operations by promoting knowledge about the best network designs, response plans, interventions, or policies that ultimately improve the well-being of individuals and society, with reductions in cost where appropriate. In addition, the research often requires new modeling or algorithm developments, and it results in new theoretical insights that apply across many sectors. Working with the Health and Humanitarian Logistics Center is a direct way to have a positive impact on the world.



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