

Augmenting Societal Impact with a Translation-Optimized Public Health Forecasting Platform

A local-level forecasting platform that empowers public health officials with data-driven, coordinated outbreak response

Request an introduction



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Background

Seasonal influenza imposes a \$11B annual burden in the U.S., causing millions of hospitalizations and tens of thousands of deaths. While the CDC's Emergency Operations Centers (EOCs) coordinate outbreak response globally, no equivalent tool exists for state, county, or city health offices. Local decisions are often made with limited data, leading to inefficient use of resources and preventable morbidity and mortality.

Tech Overview

Developed by researchers at Lehigh University, DECISIONCAST is a browser-based software platform that acts as a local-level EOC. It integrates real-time surveillance data, advanced disease modeling, and collaborative decision-making tools to generate actionable, consensus-driven forecasts for public health officials.

Unlike dashboards or forecast hubs, DECISIONCAST translates outbreak data into coordinated interventions tailored to specific communities. The system is HIPAA-compliant, designed for secure deployment, and leverages AI to provide clear explanations of forecast results.

Benefits

- Enables evidence-based, data-driven decisions at the local level
- Translates forecasts into actionable public health interventions
- Improves coordination and consensus among officials
- Reduces healthcare costs by preventing morbidity and mortality
- HIPAA-compliant, secure, and scalable for public sector adoption

Applications

- State, county, and city health departments
- Pandemic preparedness and response (e.g., influenza, H5N1, COVID-19)
- Hospitals and healthcare systems
- Public health research and training programs

Learn more about this opportunity

About Inpart

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