



PROBLEM There is a need for better tools to predict the spread of global infectious disease threats. Predicting the spread of a disease enables emergency managers and public health officials to conduct increased biosurveillance in targeted areas at high risk. This helps these at-risk areas prepare, thus preventing local outbreaks from reaching epidemic levels.

global airports. Users can filter their search by departing and arriving airport, frequency of flights, number of seats on the plane, levels of connectivity, and number of stops between locations to tightly control their analysis. FLIRT also provides search tools for examining the specific routes and traffic patterns that connect airports to each other. When outbreak locations are identified, FLIRT identifies the locations at highest risk of obtaining sick travelers globally. FLIRT's heat map layer displays the likelihood of disease spread from an outbreak's origin by simulating the flow of passengers through the air transportation network to compute where an infected person will travel.

