PROJECT ACTIVITIES

DATA ACQUISITION
In partnership with health agencies, we are continuously adding new public health and related datasets from the U.S. and around the world.

DATA INFRASTRUCTURE
We are developing new algorithms to digitize, standardize, integrate, store, and disseminate public health data.

ANALYTICS
We are creating innovative analytical tools to add value to public health data ranging from visualizations to computational models.

ADVOCACY
Many barriers currently limit the availability of public health data for research and policy. We are advocating for better data availability through education and outreach, training, and consulting.

Cover photos courtesy of the Centers for Disease Control and Prevention (photographers James Gathany, Greg Knobloch, Cade Martin, Amanda Mills) and the U.S. Department for International Development
DATA FOR HEALTH

The Project Tycho™ database provides open access to U.S. weekly notifiable disease data that have been reported by cities and states from 1888 to the present. These data could never be used before, but they are now freely available at www.tycho.pitt.edu due to a recently completed, massive data digitization and integration effort at the University of Pittsburgh Graduate School of Public Health.

USES FOR PROJECT TYCHO™ DATA

- Scientific analysis of disease patterns
- Studies on the history of public health
- Innovative data visualizations
- New Web applications for disease data
- Education on disease eradication
- Training in disease data analysis
- Student homework, essays, and theses
- Media information
- Application by health industry
- Disaster impact assessments
- Pandemic preparedness
- Exploration by the general public

DATA FOR RESEARCH

The Project Tycho™ resources provide surveillance data for the advancement of science and technology through research applications.

Open access is provided to these data at three levels:

LEVEL 1 DATA
These are the most complete data that have been standardized for a specific study, including data on smallpox, polio, measles, mumps, rubella, hepatitis A, pertussis, and diphtheria.

LEVEL 2 DATA
This level includes all data that have been standardized so far, excluding data that have not yet been processed. These data include 47 diseases reported from 1888 to the present.

LEVEL 3 DATA
This level includes all raw data that will be made available upon request but that are not ready for analysis. These data include all 56 diseases and 72 disease subcategories reported from 1888 to the present for a large variety of locations.

DATA FOR EDUCATION

The Project Tycho™ datasets are a new resource of historical disease information for use in education and training at all levels on the history of diseases and public health in the U.S. as well as for homework, essays, and theses.

DATA FOR POLICY

Disease data provided by the Project Tycho™ database can be used to benchmark public health interventions and to assess the impact and effectiveness of new interventions through analysis and modeling, providing a wealth of information for policy makers and funding agencies.

WWW.TYCHO.PITT.EDU

All data are freely available to explore and download from the Project Tycho™ Web site. These data can be used for any purpose as long as the Pitt Public Health project is cited.

Visit now to start using the data!