NCI GIS Portal for Cancer Research

NCI GIS Portal is a web-based station for interactive mapping and visualization of cancer related geo-spatial data. The portal combines Geographic Information Science (GIS) principles and tools to harmonize relatively large and multi-dimensional datasets, including population-based cancer statistics and behavioral, environmental, clinical, socioeconomic, and policy data.

Spatial Context of Cancer
The spatial context in which people live is an important factor in cancer etiology and outcomes influencing a person’s risk of developing cancer, accessibility and quality of preventive and treatment services, and quality of life after surviving cancer.

Featured Geospatial Tools
Featuring interactive mapping and visualization of cancer related geo-spatial data.

NCI Cancer Atlas
An interactive digital atlas that enables users to generate geographic maps of cancer rates, risk factors for cancer, screening statistics, and other geographically based data related to cancer.

Cancer Map Stories
A set of narratives that use map-based explanations to explore various cancer-related topics.

Animated Historical Cancer Atlas
A tool that allows the users to animate smoothed age-adjusted death rates over time and view them at the national or state level.

Tobacco Policy Viewer
An interactive web resource for mapping, query, and download of historical smoke-free policy data in the United States.

Source: NCI GIS Portal for Cancer Research (gis.cancer.gov)
Spatial Databases

Cancer Surveillance Data

Behavioral Risk Factor Data

Environmental Exposure Data

Data on Locations of Medical Services

Built Environment, Food Sources, Obesity, and Energy Balance Data

Data on Populations and Social Determinants

Geospatial Reference Data

UV Exposure

Making an objective measure of individual UV exposure for the continental United States for the study of environmental risk factors for melanoma.

GeoFLASHE

Augmenting the Family Life, Activity, Sun, Health, and Eating (FLASHE) survey results with contextual data about residential and school neighborhoods.

ADOPT

Accumulating Data to Optimally Predict Obesity Treatment

Core Measures: Environmental Domain

Providing a set of environmental data layers for obesity research.

For more information, please contact: GIStools@imsweb.com