



GINDEX

Web-based Gindex™

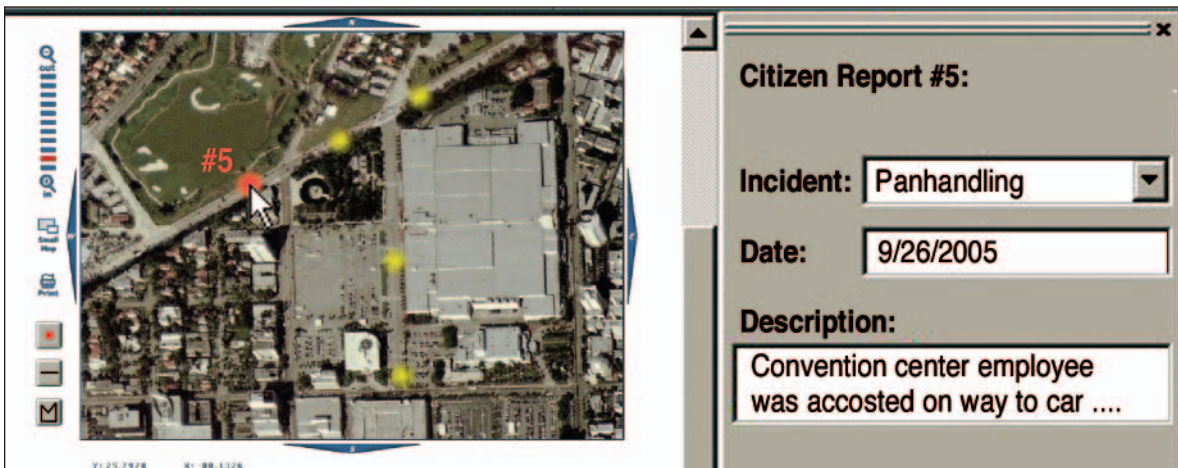
A new way to collect spatial data

What is Gindex™?

Gindex™ is a cutting-edge data collection tool that allows you to collect spatial data using the web. Users interact with an intuitive map interface to identify locations they wish to describe. Cities, streets, topographic maps, and aerial photos are available to help users identify their location on the map. Users can also pan and zoom in and out of the map.

What makes Gindex™ different?

Gindex™ is a web-based digitizing system that doesn't require installation of any desktop GIS tools. It can be added to text-based or form-based data collection sites to allow users to enter locations directly through a browser. Unlike typical web-based GIS that only allow queries and displays of existing data, Gindex™ allows web users to enter new location-based data. Since Gindex™ is web-based, it allows your distributed user base to enter data from anywhere.



Users of the Gindex™ data collection system can click on the map to report new incidents. Yellow dots indicate previous reports.

(continued)



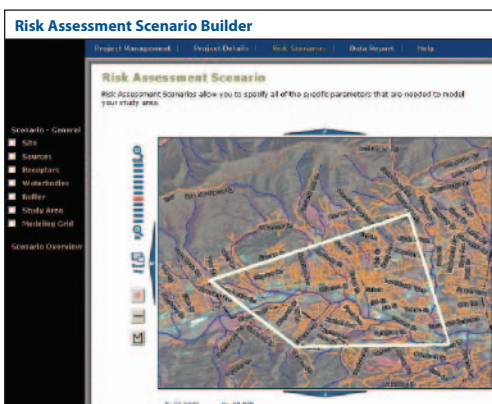
Benefits of Gindex™

- Accessible via a standard web browser
- Inexpensive spatial data collection
- Easy to use
- Provides data visualization
- Centralized data storage facilitates collaboration
- Promotes informed decision-making
- Can be integrated with existing tools

What kinds of data can Gindex™ collect?

Gindex™ allows users to place points, lines, and polygons on the map. Users can also enter important information about each shape, such as an identifier, description, and other information relevant to the event being described.

Gindex™ can also be used in the field on web-enabled portable devices. This is useful for sampling, monitoring, and inspection



Existing risk assessment application using Gindex™ for site delineation.

operations. Data collected using Gindex™ is then instantly available for collaborative use, evaluation, and analysis. Data collected using Gindex™ can also be linked to other types of information such as addresses, census blocks, or other spatial units that link to additional attributes.

Where is the data stored?

Gindex™ is a spatial data collection system, but where the data is stored is up to you. Gindex™ data must be stored in a spatially enabled database. You can host this type of database within your own organization, or RTI International can host the data for you.

Is the data secure?

Gindex™ data can be secured using industry standard web security techniques. All data hosted at RTI will be secure, and RTI will work with organizations that wish to store the data themselves to ensure security.

How can the data be used?

Using Gindex™ to collect spatial information allows you to conduct powerful spatial analysis. For example, if law enforcement agencies used Gindex™ to collect information about vandalism, they could then perform cluster analyses to identify hot spots and see where to increase patrols. Businesses could use information collected using Gindex™ to analyze markets in order to identify potential customers and competitors. Gindex™ could also be a powerful tool for use in identifying areas affected by hazardous waste spills.

Enhance existing data collection applications

Gindex™ can be used as an add-on to existing data collection systems. For example, if you are collecting information about traffic accidents, you may be collecting descriptive location information such as the nearest intersection or mile marker. Gindex™ allows the user to click on the map where the accident occurred, providing improved accuracy as well as the ability to visualize and analyze the data. The Gindex™ interactive map interface can be added directly to your existing web-based application.

Create a new data collection application

If you are in the process of designing your data collection system, RTI International has a wealth of experience in both desktop and web-enabled data collection systems. RTI can provide design, development, and hosting services for your application. RTI can also team with existing developers to integrate the Gindex™ spatial data collection functionality if desired.

How can I learn more?

If you would like to know more about Gindex™ and how it can be used in your data collection systems, please contact Jay Rineer (919-990-8435, jrin@rti.org) or Abhi Gupta (919-541-6750, agupta@rti.org) at RTI International.

We look forward to speaking with you!