



## FACTS AT A GLANCE

**Company:** Dutch Kadaster

**Web site:** [www.kadaster.nl/](http://www.kadaster.nl/)

**Description:** Dutch Kadaster is the national land registry and mapping agency for the Netherlands. Kadaster registers the country's land parcels and makes cadastral maps and data available to businesses, government organizations, and the public. Registered goods include not only immovable properties, such as land, houses, and apartments, but also moveable properties, such as ships and aircraft. The organization also contributes to the welfare and prosperity of developing countries by providing expertise on land administration.

**Employees:** 1,900

**Industry:** Government

**Country:** The Netherlands

## PRODUCTS USED

- GeoMedia® product suite
- TerraShare® product suite

## KEY BENEFITS

- Easy access to visualized information
- Support of implementation of land reallocation system
- Data provided in an open, collaborative environment

## DUTCH KADASTER LEVERAGES GEOSPATIAL SOLUTIONS FOR COMPLETE LAND INFORMATION MANAGEMENT

**Intergraph® Solution Supports Spatial Data Infrastructure, Other Key Initiatives in the Netherlands**

### IDENTIFYING GOALS

Every square inch of land is a valuable asset in the Netherlands. The western European country has a population of more than 16 million. However, the country itself is small, with a total area of 41,526 square kilometers (16,485 square miles). Thirty-five percent of its land is below sea level.

Geospatial information plays a vital role in managing the Netherlands' more than eight million parcels of land. Dutch Kadaster is the national land registry and mapping agency for the country. Its activities include land surveying, registration, and consolidation; mapping; triangular reference networks; and information services. The organization wanted to replace its outdated legacy information system and replace it with a state-of-the-art system to implement the new Dutch Land Consolidation Act (WILG). In addition, it wanted a system citizens could use to easily access geospatial data.

### OVERCOMING CHALLENGES

- Provide citizens with easy access to visualized information and services
- Develop Web services to build a spatial data infrastructure (SDI) for the country
- Implement a geospatial solution to manage the country's new land reallocation system

### REALIZING RESULTS

Kadaster has worked with Intergraph® since 2006 using the GeoMedia® and TerraShare® product suites to gather, store, and display large quantities of geospatial data, as well as aerial, satellite, and other imagery. The agency selected Intergraph as its partner for geospatial solutions after a European tendering process. Intergraph offered the best solution for Kadaster, both in functionality and cost-effectiveness. Kadaster uses Intergraph technology to help implement the WILG, which involves trading pieces of land to consolidate property holdings. For example, the government can use geospatial data to help plan a railroad and find the best solutions for exchanging land holdings. The Intergraph system makes it easier for Kadaster to make decisions on value propositions and the exchange of land parcels.

Kadaster also plans to leverage the geospatial data through Web services and create a national geoportal, the first step toward a SDI for the country. Intergraph's open product platform allows Kadaster to share geospatial data with other governments, businesses, and the public. Following international standards, such as the Open Geospatial Consortium (OGC®) and the Infrastructure for Spatial Information in Europe (INSPIRE), Intergraph technology helps Kadaster respond to more than 20 million requests for information each year. Register data includes topography, parcels, buildings, addresses, companies, and people.

"We provide an enormous amount of data and information to real estate agents, notaries, and different governmental agencies," says Arco Groothedde, a member of the executive board of Dutch Kadaster. "More and more citizens also want to have this information directly. We need to provide good solutions to our citizens and customers because this helps us get in position to create a true, great spatial data infrastructure for our country."

Groothedde says the key to a successful SDI is a collaborative environment where data is exchanged and interoperable among different organizations. Intergraph's SDI applications enable Kadaster to provide easy access to the combined data.

Beyond managing the complex land administration procedures of the Netherlands, Kadaster also provides consulting services to help fight poverty in other areas of the world. The agency uses Intergraph's Land Information Management solutions in

more than 50 international land administration projects. Land ownership is an important facet of economic growth in developing nations. Land information management geospatial solutions can help countries plan a new highway, expand housing projects, and identify flood-prone areas.

## MOVING FORWARD

Kadaster realizes the value geospatial solutions provide. It plans to continue to integrate its total workflow with Intergraph's SDI application. The developing SDI will enable the Netherlands to exchange data with other countries. The organization also views geospatial solutions as much more than simply geographic information. A complete geospatially integrated network would cross over into multiple areas, including public safety, water management, spatial planning, the environment, poverty reduction, and more. Kadaster envisions using geospatial information as a tool for a wide number of applications, such as remotely controlling farms, finding safe places to build, locating people in burning buildings, and discovering new bird migrations.

"We see thrilling new trends and geospatial technologies, such as 3D visualization," says Groothedde. "Our customers expect us to give them all the information they need and for it to be presented in a visualized way. We are providing this with solutions from Intergraph."

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## ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data into understandable visual representations and actionable intelligence. Intergraph's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph

PP&M provides enterprise engineering software for the design, construction, and operation of plants, ships, and offshore facilities. Intergraph SG&I provides geospatially powered solutions to the defense and intelligence, public safety and security, government, transportation, photogrammetry, utilities, and communications industries.

For more information, visit [www.intergraph.com](http://www.intergraph.com).

