

# Leica Geosystems

World leader in  
spatial measurement





■ No matter the task, scope or environment, Leica Geosystems supplies the solutions that help professionals get it right.



# Trust. More than a feeling. A fundamental difference.

Every day, tens of thousands of professionals put their trust in Leica Geosystems and in the projects that our solutions help them develop. Projects come in every shape and size – from building a bridge or an office tower to manufacturing an aircraft or race car, from making the maps to taking the measurements that help us understand and improve the world we live in.

However diverse their projects, our customers have one thing in common: their successes, profits, businesses, jobs – even their lives and the wellbeing of others – depend on getting it right. They depend on precise and

accurate measurements, performed efficiently, reliably and consistently.

These professionals put their trust in their measurements – and in our measurement and spatial technologies. With so much at stake, there's no room for errors or for compromise.

That's a responsibility we take seriously and that's why we are proud they choose Leica Geosystems – when it has to be right.

- when it has to be **right**

**Leica**  
Geosystems



# **Success.** Helping you shape the future and the world we live in.

Leica Geosystems is focused on our customers' success. Our solutions help professionals capture, analyse, work with and understand spatial information. Leica Geosystems' products and services are trusted for their dependability and ability to increase productivity, and they have been for close to 200 years.

A range of highly advanced core technologies – EDM (Electronic Distance Measurement), GPS/GNSS technology, 3D laser scanning, tilt and angle measurement and point cloud generation and analysis are applied to the needs of a wide range of industries.

The resulting comprehensive portfolio of products and services coupled with a dedication to customer service and support generates innovative solutions that open up new opportunities for our customers' growth.

In a complex world, Leica Geosystems customers measure success in many different ways because every project is different, none is routine, and all are important. We are proud that our measuring, positioning and analysing solutions have contributed to some of the world's most exceptional projects.

- In the following spectacular projects and in the thousands more our customers complete each year, precise, accurate measurements play a critical role. So we measure our performance through our customers' success.



### The first exact 3D scan of Mont Blanc ice cap

Reaching the top of Mont Blanc, Europe's highest peak, is a formidable challenge even to the most experienced alpinists. Strong winds and snowfall at the summit constantly cause altitude and volume fluctuations to the mountain's ice cap. This motivated a team of expert surveyors to take on the mountain's challenge and every two years determine the actual variations of the ice cap using the latest in measurement technology. The team, consisting of two surveyors from Leica Geosystems France and the Chartered Land Surveyors, based in France's Upper Savoy region, decided to make the first ever 3D laser scan of the shape and volume of this legendary glacier using the Leica Nova MS50 MultiStation.



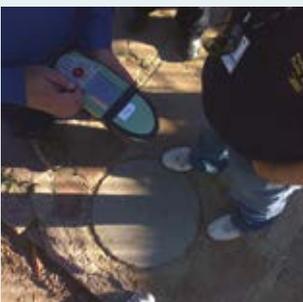
### Extending the vision

Nottingham, a city best known for its lace-making heritage and the legend of Robin Hood, laid foundations for its future prosperity with an expansion to its existing tram network using Leica PaveSmart 3D. One of the least car-dependent cities in the UK, the local council's investment in clean, convenient public transport is helping to attract sustainable new businesses and employment opportunities, whilst supporting the commitment to achieve a 26% reduction in carbon emissions by 2020. Convenient new routes offer increased mobility for a growing working age population, which is estimated to be approximately 512,000 across the city region.



### Precise dimensions from measurement to installation

To be able to fulfill the individual wishes of its customers quickly and reliably, cabinetmakers Fried AG, based in Bever near St. Moritz (Switzerland), need to keep their computer technology up-to-date. The company concentrates on interior architecture and the manufacture of built-to-order kitchens, doors and cupboards to the specific requirements of its customers. Measuring the existing dimensions on site with the Leica 3D Disto is an easy task for Fried AG and helps the company to produce customers' orders precisely, from measurement to milling.



### Advancing water utility assets

Porto Alegre, the capital of the Brazilian state of Rio Grande do Sul, is home to approximately 1.5 million residents. DMAE, Municipal Department of Water and Sewer, is responsible for the management, supply, treatment and distribution of water and the collection and treatment of sanitary sewage. With the responsibility to oversee and maintain the existing services whilst also steadily seeking to expand and improve the network capability, DMAE captured, collected and recorded asset and attribute information to a new and precise level of accuracy with the Leica Zeno 10.



## **Scope.** Covering the globe. Spanning your workflow.

Leica Geosystems' customers are active across a wide spectrum of industries, and what our customers measure is equally diverse. Sometimes it's a single point, a height above sea level, the distance between two walls. Sometimes, many points are involved, as complex objects are positioned and assembled with millimetre-level precision or an entire building face is scanned to create a 3D drawing. Sometimes, a complete city must be captured and analysed to create accurate maps, multilevel representations and 3D fly-through models.

### **From measurement to map to model**

Like no other company, Leica Geosystems offers solutions for all these needs. From a painter calculating paint volumes to an engineer designing a bridge to a surveyor optimising wireless phone tower coverage. Leica Geosystems' solutions encompass a workflow that transforms raw data into useful information, turning measurements into maps and maps into models that capture the real world. With the broadest range of competencies within the geomatics industry, Leica Geosystems delivers a comprehensive range of



Leica Geosystems provides hardware that captures everything from individual points at a survey site to mass data from airborne sensors and 3D laser scanners.



Leica Geosystems specialises in software to extract visual features from aerial imagery and to identify deviations from design.

capture      reference      measure      analyse      present

Leica Geosystems offers solutions that reference measurements against a wide range of data sources, including building plans, GIS databases, topographical maps and CAD CAM systems.

Leica Geosystems delivers a range of tools to work with spatial information such as photogrammetric analysis of imagery or engineering projects.

Leica Geosystems delivers advanced software solutions to present spatial information - often in 3D - such as city models, as-built models of structures, site surveys, and preservation projects.



■ From a single point to a 3D scan of a complex structure, we bring accuracy, reliability and innovation to every step of the workflow.

products that work together in a complete, end-to-end workflow. Systems that integrate and operate consistently allow our customers to work faster, more efficiently and more productively.

Not every Leica Geosystems customer operates across the entire workflow; many have specialised needs within one phase. All benefit, however, from the breadth of expertise we offer, the depth of our research, and the commitment to each other's success. Our customers recognise the advantage of sourcing solutions from a single supplier who can meet their

needs - both today and tomorrow, as demands change, business expands, and activities grow more complex.

Working together with these professionals, we solve problems, develop new ideas and invent new technologies. It is this collaboration that ultimately shapes Leica Geosystems' products and services, drives our customers' businesses and improves the world in which we all live.

- when it has to be **right**





# Depth. We measure our performance.

Leica Geosystems is committed to understanding customers' needs and to exceeding their expectations. Increasingly, geospatial solutions encompass more than products, hardware or software; today's customers demand comprehensive solutions that include an extensive range of services, too.

## **Uniquely responsive**

Many companies have been Leica Geosystems customers for decades. In fact, the typical Leica Geosystems user is fiercely loyal and reluctant to use alternatives. What lies behind this loyalty is an appreciation of the significant role customer service and support play in the success of every project. Our customers trust us to keep their equipment up and running all the time.

Not that support means dependence – increasingly, our offerings empower customers to execute processes themselves that they traditionally outsourced.

Along with support for all of our own products, Leica Geosystems is also a recognised leader in support for a wide range of third-party geospatial software products.

## **Uniquely focused**

Leica Geosystems has established an enviable reputation for high-quality products, and we are constantly investing to maintain this leadership position. We have never compromised quality, striving to deliver the maximum value over the life of our products. Leica Geosystems' customers understand the difference, and recognising the importance of consistent, accurate measurements, they choose us for reliable results and dependable service every time.

As a company, we take an especially broad view of quality in the belief that minimising the environmental impact of all our activities is also a reflection of the ever higher standards that we aim for.



# ance through our customers' results.

## Uniquely innovative

The unparalleled commitment of Leica Geosystems' research and innovation is reflected in our history of "world's firsts":

- 1921 First portable opto-mechanical theodolite
- 1925 First aerial photography camera
- 1969 First infrared-based distancer
- 1984 First GPS for surveying
- 1991 First industrial laser tracker
- 1993 First handheld laser distance meter
- 2004 First universal GPS/TPS system - Leica System 1200  
First mobile CMM - Leica T-Probe and Leica T-Scan
- 2005 First total station with integrated GPS - Leica SmartStation
- 2008 First future proof GNSS system - Leica GPS1200+
- 2009 First handheld laser distance meter with digital color display and tilt sensor - Leica DISTO D5
- 2011 First airborne laser scanner with 500 KHz pulse rate - Leica ALS70
- 2012 First 3D laser scanner with WFD technology - Leica ScanStation P20
- 2013 First MultiStation - Leica Nova MS50

- 2015 First Self-Learning Measurement Instruments - Leica Nova MS60, Leica Nova TS60, Leica Viva TS16

In total, Leica Geosystems holds more than 2,000 patents, many of them registered in the past decade.

## Uniquely trusted

Leica Geosystems' commitment to innovation and quality has a single goal: understanding and supporting the customer's workflow. The results are a product portfolio, a service offering, and a comprehensive range of solutions that are unique in the market.

In turn, these customers have rewarded Leica Geosystems with their trust. Every day, in a million different ways, we continue to strive to earn that trust, wherever, whenever it has to be right.

- when it has to be **right**

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# Reliable. Capturing reality. Shaping the future.

ACTIVE customer care 

From its start in a small Swiss town almost two centuries ago, Leica Geosystems has established a tradition of quality, innovation and dedication to customer satisfaction.

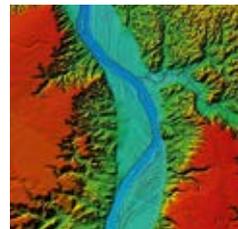
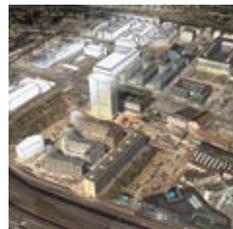
#### **Building on a heritage of excellence**

International and Swiss at the same time, today Leica Geosystems is a global enterprise with more than 3,800 employees serving customers in some 120 countries. Those customers tell us they continue to work with Leica Geosystems because of our truly exceptional support and service.

It's a concept we call Active Customer Care - a true partnership, a commitment to the trust customers

place in Leica Geosystems. From education and training, through ongoing support, to assistance in keeping equipment in top condition - around the clock and around the globe - Leica Geosystems guarantees productivity and performance.

We're proud of those who make this promise come true - the people of Leica Geosystems. A highly educated, unusually talented team that spans the globe, dedicated to customer success, and committed to excellence. A team that applies its expertise and ingenuity to create innovative technologies, develop outstanding products, and deliver exceptional customer service.



### Creating a better world, day by day

We're impressed by our customers, both current and yet to be, the professionals who use Leica Geosystems' solutions daily, with whom we work to solve problems and create new solutions. Your achievements - be they dams, homes, maps, automobiles, pipelines, parking decks, precision tools, models, theme parks, nature preserves or any one of a myriad of other projects - are what shape the future and lend significance to what we do.

All around the globe, wherever mankind is measuring, improving and protecting the world, Leica Geosystems' solutions are there. We are proud to be the partner you trust - when it has to be right.

- We pride ourselves on our partnerships with our customers - working together to shape the future.

- when it has to be **right**



## Leica Geosystems –when it has to be right

Revolutionising the world of measurement and survey for nearly 200 years, Leica Geosystems creates complete solutions for professionals across the planet. Known for premium products and innovative solution development, professionals in a diverse mix of industries, such as aerospace and defence, safety and security, construction, and manufacturing, trust Leica Geosystems for all their geospatial needs. With precise and accurate instruments, sophisticated software, and dependable services, Leica Geosystems delivers value every day to those shaping the future of our world.

Leica Geosystems is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications.

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