

## High Precision Navigation Maps for Plant and Research Facility Premises

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Press release from: [LOGIBALL GmbH](#)

LOGIBALL, a specialist for navigation maps and solutions, has developed a new process that enables high precision navigation maps to be created from flying altitudes of 50 to 100 meters that have a positioning accuracy down to twenty centimeters. This process opens up a number of new application possibilities for businesses. It enables navigation maps to be created for facility premises, such as chemical or industrial parks, that take detailed account of all infrastructure features and which can then be used for mobile unit navigation by fire fighters, maintenance crews, incident services, etc. Vehicles and industrial robots can thus be controlled autonomously, or precise interfaces can be created between indoor and outdoor navigation within facility premises. This process could also be used in the automotive industry to create high precision navigation maps for test driving sites, which could then be employed for product testing or for developing new intelligent driver assistance systems (ADAS).

The company uses a special lab vehicle equipped with quadcopters from Microdrones, located in Siegen, Germany, as well as with high performance surveying and processing technology of their own design and build. The LOGIBALL Map Engineering Team is thus able to prepare the navigation maps on site immediately after collecting the data.

The process has been validated by LOGIBALL, initially on a test site with an area of roughly 3 km<sup>2</sup>. The navigation map itself was sponsored by the state government of North Rhine Westphalia within the scope of its NavitestNRW project, and it even exhibited a positioning accuracy down to two centimeters for some sections of the site. Further expansion of the system is planned, in which LIDAR (Light Detection And Ranging) systems, an innovative laser measuring device and other sensors will be employed for the lab.

LOGIBALL, located in Herne, Germany, specializes in engineering navigation maps and solutions in the B2B segment. Our focus lies in our self-developed GND SUITE, a software tool that processes international navigation data in all business processes. This tool provides selected industries such as the automotive, telecommunications, IT, service providers, utilities, logistics, retail as well as research and development the flexibility to develop individual applications from one single navigation database. LOGIBALL's portfolio comprises of standard products for business navigation as well as developing and quality assuring European navigation maps for the business and consumer sector.

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