Hey there! We got some news!

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**Technology** 

HERE and Flynex map the airspace for autonomous

drones

In the context of the common EU drone regulation coming into effect on July 1st,

FlyNex and HERE Technologies collaborate to map the airspace in 3D for the very

first time.

Hamburg, 16.06.2020 - HERE Technologies, a location data and technology platform, and FlyNex, a startup

specialized in drone flight planning, are mapping German airspace in 3D. The "DaViLus" (Data Visualization of the

Airspace structure) mapping project is supported by the German Ministry for Transport and Digital Infrastructure.

The results are available free of charge at https://davilus.flynex.de.

This map relies on location data from HERE. With its highly accurate 3D object data in the lower airspace, HERE is

best positioned to power the development of a map that enables unmanned aircraft, such as drones, to safely

maneuver through densely populated environments with potential obstacles, such as cityscapes.

FlyNex is a leading expert when it comes to planning unmanned drone flights. The company has already enabled

a German utility provider to conduct maintenance flights of its power grid with drones, replacing a time-

consuming and costly process. Usually, utility poles and the power grid have to be inspected by maintenance

teams that physically access each individual pole or fly over them with helicopters. Using drones saves 90% of the

time the manual process would take and saves up to 70% of the costs.

The combination of these two areas of expertise, precise 3D mapping and accurate location information with the

ability to plan autonomous drone flights efficiently, was key for making the DaViLus project a success.

The need for precise lower airspace data is there

Many are familiar with 3D representations of the road network, however, similar maps do not yet exist for the

lower airspace. Unmanned aerial vehicles, such as drones, have to be able to locate themselves, taking into

Seite 1 von 3

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account multiple constraints. Just as for any other aircraft, there are no-fly zones which drones are not allowed

to penetrate. In contrast to human-piloted aircraft, unmanned flights require precise information – exact position,

height, shape - of objects on the ground, such as buildings, bridges, trees, streetlamps or billboards. DaViLus is

now offering these highly precise location-based datasets that are essential for an unmanned drone to navigate

autonomously through the airspace.

"As the drone use case nicely shows, as soon as something moves, it needs location intelligence to do so efficiently

and safely. With FlyNex, we are expanding to the skies the location expertise we have acquired on the road", says

Mark Yao, Director Product Management for 3D at HERE Technologies.

"With our 3D map of the lower airspace, drones and unmanned flight systems can now move safely. We are proud

to be able to offer navigation options for commercial drones for the first time, enabling companies to move

forward in creating new services utilizing autonomous flying drones," explains Andreas Dunsch, CEO of FlyNex

GmbH.

The NBS Northern Business School gGmbH and its Institute for Unmanned Aerial Systems (IuS) from Hamburg is

also supporting this project.

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About FlyNex

Located in Leipzig, Hamburg, and San Francisco, FlyNex is the leading solutions provider for commercial drone applications. With its software solution, FlyNex

covers the entire spectrum of commercial use cases for unmanned air systems. Based on its experience from industrial and commercial drone projects, FlyNex

helps to develop standards and guidelines for future-proof drone operations, for example collaborating with the German Institute for Standardization (DIN) and

the German Aerospace Center (DLR).

About HERE Technologies

HERE, a location data and technology platform, moves people, businesses and cities forward by harnessing the power of location. By leveraging our open platform,

we empower our customers to achieve better outcomes – from helping a city manage its infrastructure or a business optimize its assets to guiding drivers to their

destination safely. To learn more about HERE, please visit www.here.com and http://360.here.com.

About the Institute for Unmanned Aerial Systems

At the end of 2014, the NBS decided to intensify the research activities of the still young Northern Business School (NBS). Based on the focus areas of economics,

psychology, law, and security research already accumulated at the NBS, the field of unmanned systems was quickly recognized as a rapidly developing research

area, which from a perspective similar to that of the NBS is still completely underdeveloped. The institutions established in the field of drone research focus

primarily on technical aspects, although the economic facets of the enormous growth market of unmanned systems are ignored.

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Seite 3 von 3