



# Infosys, HERE Technologies and Shields demonstrate 3D network planning solution to slash costs of 5G build-out

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**Mobile World Congress, Barcelona** – Infosys, HERE Technologies and Shields today announced that they are collaborating on a powerful and cost-effective way to perform 5G network design and deployment.

The new solution, to be demonstrated at MWC this week, is designed to help enterprises including mobile network operators (MNOs) save both time and money when performing 5G radio frequency planning. The companies estimate that it would enable enterprises to reduce the time to identify real estate acquisition for 5G small cells as well as cut the cost of RF design by more than 40%.

The solution is a unique blend of technologies. It embeds machine learning software and a service delivery framework from Infosys; expertise in RF and C-RAN (cloud radio access network) design from Shields; and large, precise, scalable 3D datasets derived from terrestrial LiDAR and other remote sensed content from HERE.

The expertise of HERE in extracting features and 3D derivative objects such as poles, trees, terrain models, and buildings lends a new level of precision to RF planning for 5G mmWave networks that far surpasses the accuracy of conventional GIS data.

That means greater efficiency in the mmWave RF planning process. More accurate network planning takes the guesswork out of transmitter selection and placement. It also enables MNOs to cut costs by significantly reducing the number and length of physical site-surveys. With network design tasks taking just a few days, MNOs can more quickly perform upgrades, install new equipment, add capacity or respond to environment changes.

Nitesh Bansal, SVP and Global Head Engineering Services, Infosys said:

“With our focus on helping enterprises in time to market for 5G technology, Infosys and our partners – HERE Technologies and Shields – are introducing new services for designing 5G for every street and corner. Infosys is continuously working to build and innovate new solutions to help accelerate 5G wireless introduction and make it ‘ready to use’ for enterprises everywhere.”

Gerrit van Dijken, Chief Technology Officer at Shields, said:

“I’m very proud of what the team have achieved. I believe the solution solves a number of problems for the RF planning process as the industry moves into mmWave network roll-out and will be of great value to our operator customers. I’m looking forward to the continued partnership with HERE and Infosys to bring this solution to market.”

Michiel Verberg, Senior Manager, Strategic Partners, HERE Technologies said:



“The combined HERE, Infosys and Shields solution will enable centralization and streamlining of many of the traditionally labor and time-intensive tasks associated with 5G cell site selection via the 3D digital site survey. It’s a cost-effective means to simplify 5G RF engineering and network planning processes. This accelerates time to service not only for MNOs but enterprises looking to build out 5G in factories, ports and other sites. We are excited by the prospect of continuing to collaborate with these talented partners as we design the next generation of small cell mobile networks on behalf of our clients all over the world.”

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About Infosys Ltd

Infosys is a global leader in technology services and consulting headquartered in India, enabling clients in 45 countries to create and execute strategies for their digital transformation. From engineering to application development, knowledge management and business process management, Infosys helps clients find the right problems to solve, and to solve them effectively. A team of 200,000 innovators across the globe bring their imagination, knowledge and experience across industries and technologies to every project they undertake. For media enquiries, please contact Infosys’s public relations team at: [PR\\_Global@infosys.com](mailto:PR_Global@infosys.com)

About Shields

Shields is a privately-owned company founded in 1979 with regional headquarters in the U.K. and North America, dedicated to improving telecom operator networks through the use of innovation, quality, value and unparalleled service. Shields supports telecom operators with their equipment infrastructure and technical/on-site services' needs. For more information, please visit <https://www.shields-e.com>

About HERE Technologies

HERE, the Open Location Platform company, enables people, enterprises and cities to harness the power of location. By making sense of the world through the lens of location, we empower our customers to achieve better outcomes – from helping a city manage its infrastructure or an enterprise optimize its assets to guiding driver to their destinations safely. To learn more about HERE, including our new generation of cloud-based platform services, visit: <http://360.here.com> and [www.here.com](http://www.here.com)