NavVis VLX 2 and 3 in an Open Urban Environment

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Summary of the Study

The report provides a comparative study of NavVis's mobile mapping systems, VLX 2 and VLX 3, conducted in an open urban environment. The results demonstrate that both systems deliver surveying performance with high precision, resolution, and efficiency, maintaining reliability even under variable conditions.

One of the key advantages of VLX systems lies in their ability to significantly reduce fieldwork time compared to conventional surveying methods. This efficiency not only enhances productivity but also technician safety by minimizing risks associated with data collection in potentially hazardous environments. Furthermore, comprehensive project coverage minimizes the need for returns to the field.

The ease of sharing collected data through the Ivion platform promotes collaboration with clients and stakeholders, simplifying communication and decision-making. This feature also enhances operational efficiency by eliminating the need for physical travel to on-site meetings.

It is important to note that while VLX systems offer numerous advantages, they may not be suitable for all situations, especially for highly detailed or flatness or verticality analysis. However, in the context of overall structural analysis, they prove to be effective tools.

In conclusion, this study confirms that NavVis's mobile mapping systems, the VLX, are high-performing tools that provide a fast and efficient alternative to traditional surveying methods. Their appropriate use maximizes the benefits of these systems in various mapping and topographic survey applications, while promoting a more efficient and secure approach to urban planning and construction projects.