



FUTURE

BEYOND ENGINEERING



Mobile Mapping
Leica Pegasus - Two Ultimate

X E D N I

Features
No. 1

Applications
No. 2

External Reference
No. 3

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The Leica Pegasus - Two Ultimate System is a mobile reality capture system, consisting of a LIDAR profile, four side cameras, a 360 ° camera, two rear pavement cameras, a GNSS and IMU unit, which can be mounted on any vehicle (car, train or boat).



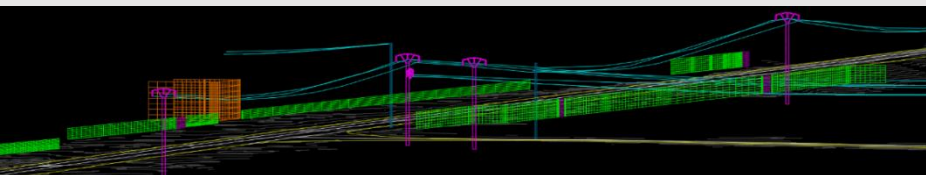
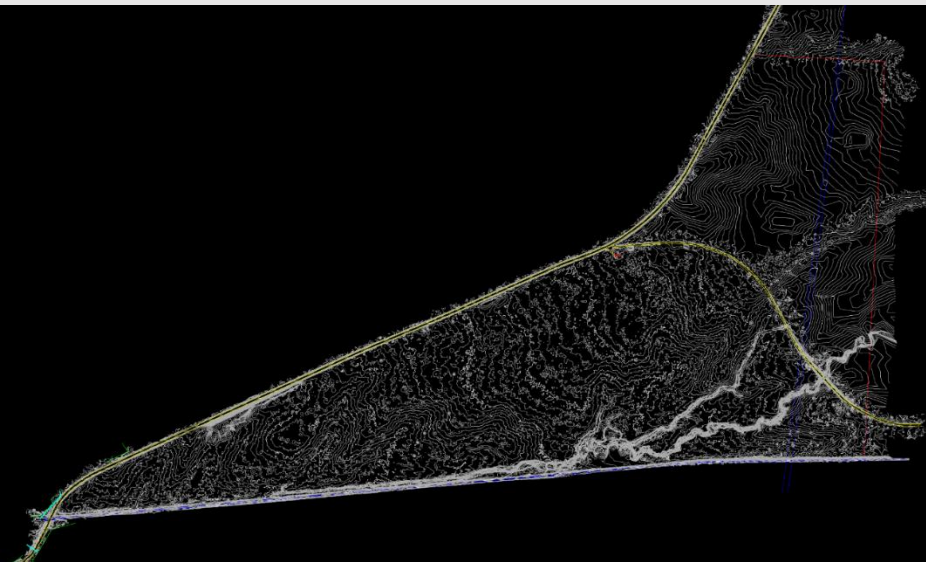
01 - FEATURES



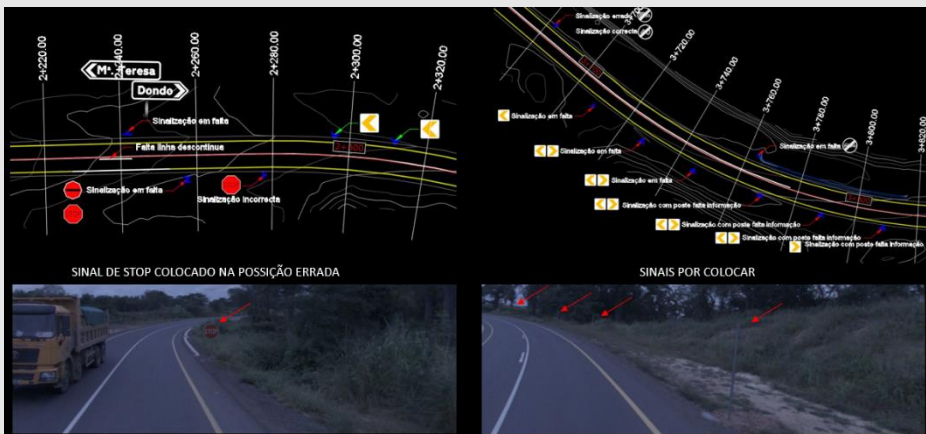
- The LIDAR profilometer allows the capture of a coloured point cloud from the combination with the 360 ° image, of high precision and detail at an approximate distance of 120 meters;
- The side cameras of 12 Mp capture high resolution flat images, adjusted, calibrated and seamless, allowing direct analysis, as well as information extraction, such as obtaining measurements and dimensions;
- The 24 Mp 360 ° camera, mounted on a telescopic pillar, allows to obtain spherical images that offer a panoramic view around the vehicle;
- The adjustable pavement cameras with 12 mm lenses capture an image directed along a road, tunnel or railroad, allowing a detailed analysis of pathologies;
- With Leica Pegasus Two Ultimate it is possible to obtain spatial data, of high precision, usable in the most varied platforms and studies.

02 - Applications

- Mapping large areas for modelling and studies

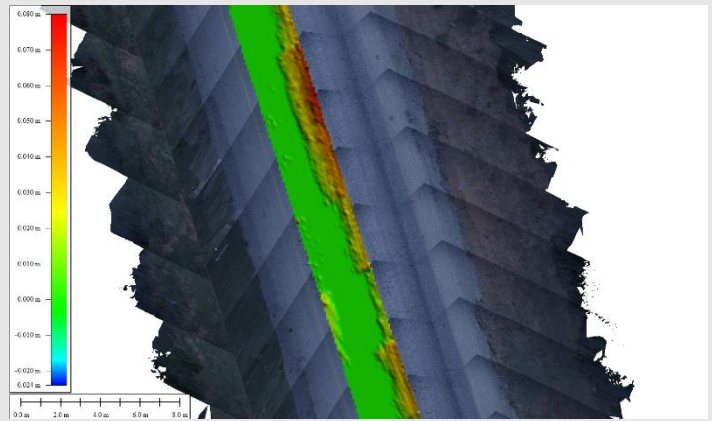


- Horizontal and vertical signalling studies



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Pathology studies

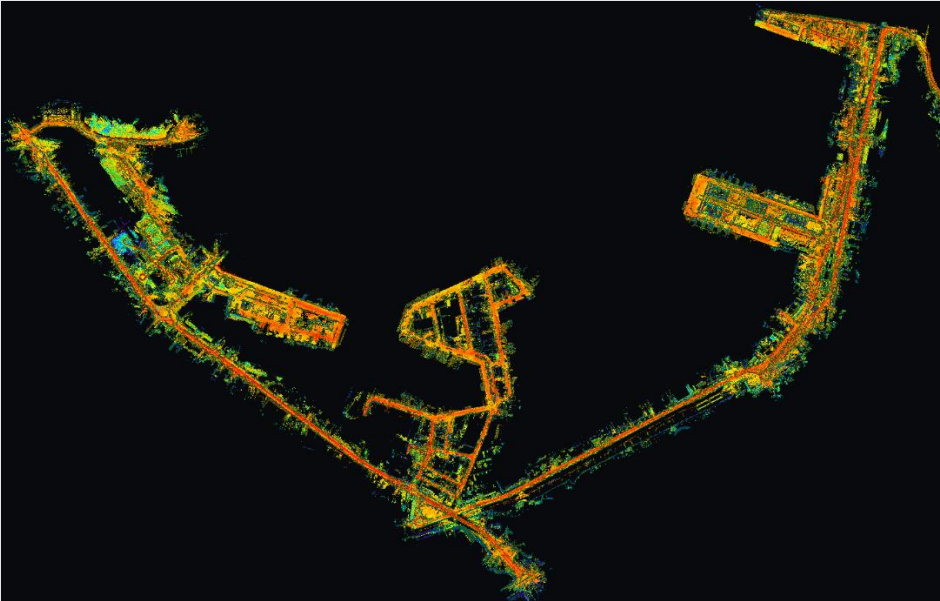


Mapping and modelling of streets and cities and large buildings

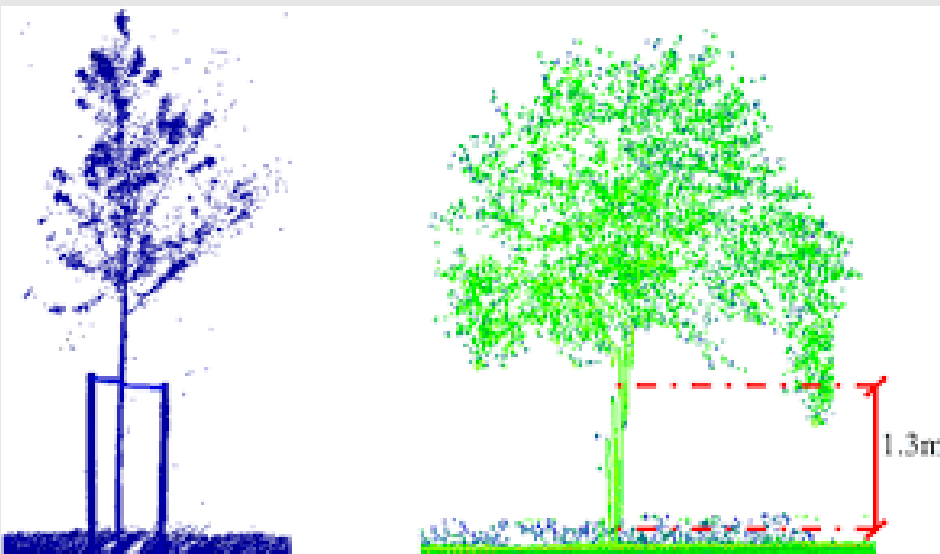


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- Studies in ports and airports



- Studies in mining and quarrying
- Mapping of natural and environmental resources

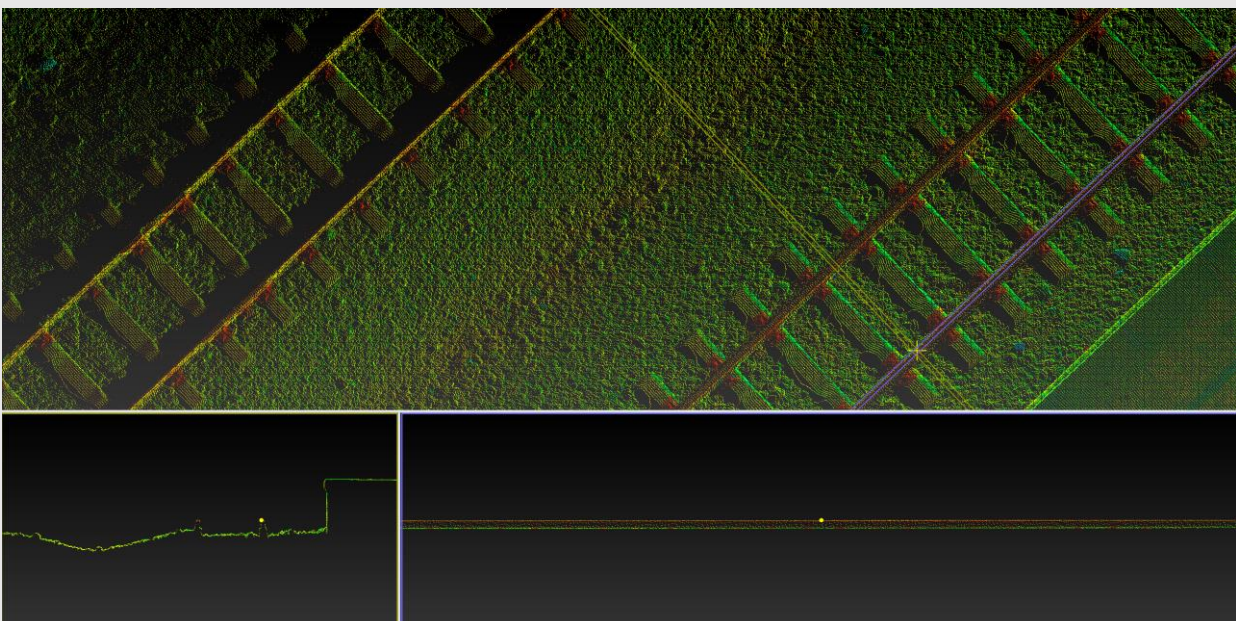


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- Mapping and monitoring of beach and cliff erosion
- Tunnels and works of art

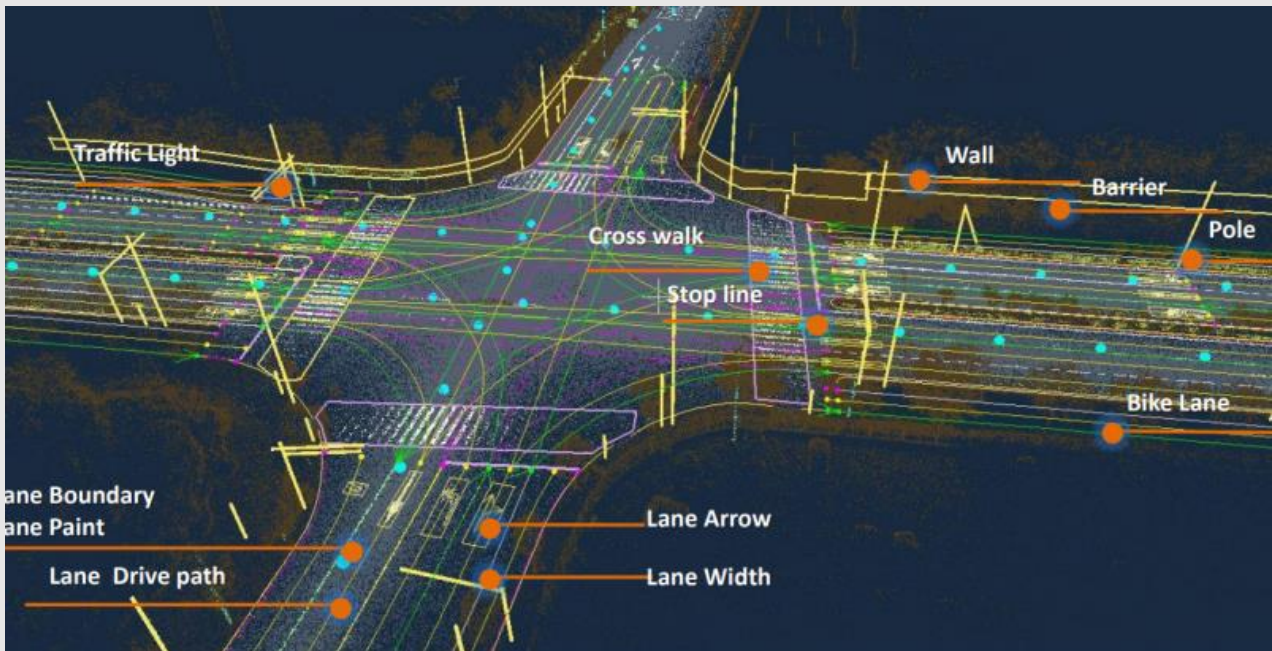


- Acquisition of asset and GIS data
- Railway studies



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- Provision of data for autonomous vehicle mobility



The advantages of using the Mobile Mapping solution are the acquisition of massive data in a fast and versatile way, thus reducing delivery times with the ability to create high-value products, shifting reality and decision-making into the office.



03 - External References

[https://leica-geosystems.com/pt-br/products/mobile-sensor-platforms/capture-platforms/leica-pegasus two-ultimate](https://leica-geosystems.com/pt-br/products/mobile-sensor-platforms/capture-platforms/leica-pegasus-two-ultimate)