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TECHNOLOGY
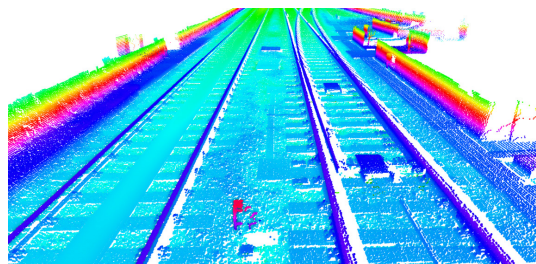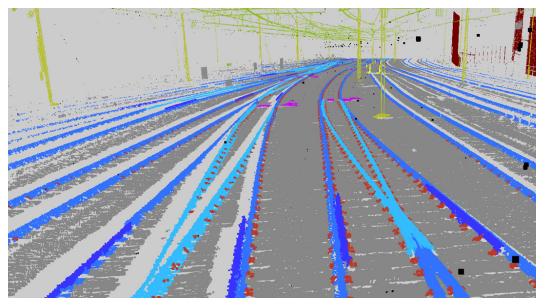
Classification of objects in the railway environment

Challenge

The railway infrastructure operator had extensive data generated from mobile mapping using trains. A solution was sought to automatically identify objects such as rail switches, signals, axle counters and noise barriers in the railway environment.

Solution

With the help of machine learning, the objects were recognized and evaluated according to the requirements of the railway infrastructure operator. The automatically identified objects were matched with inventory data.

Result

The railway infrastructure operator now has access to a complete classification of all its assets. It is further possible to apply the analysis to data collected of a wider area and be used for regular inspection purposes.

- **Automated detection of objects such as switches, signals, axle counters and noise barriers in the rail environment**

- **Machine learning for object recognition and analysis**

- **Matching with inventory data**