

THE DRIVE TO AUTOMATE TRUCKING

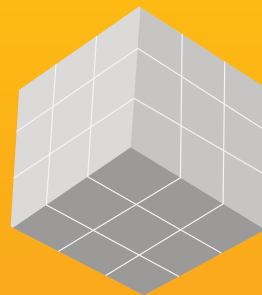
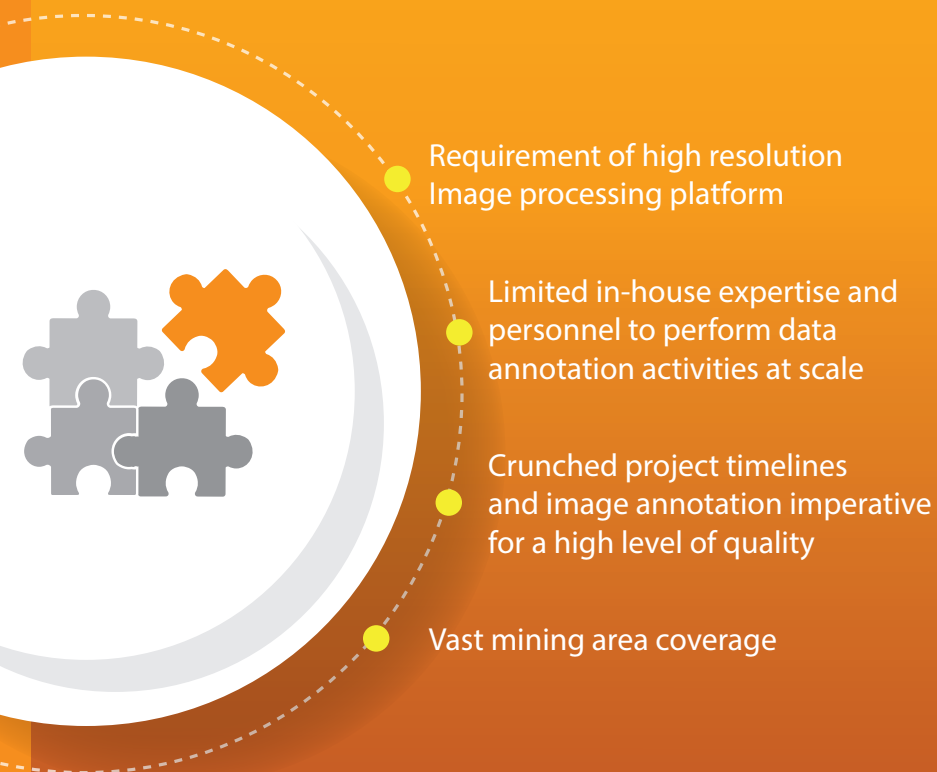
Annotating thousands of images for a machine learning model, at rapid scale.

The client is a
global leading mining
and resources company.



CHALLENGES

The client wanted to deploy autonomous trucks in its mines. Towards this end, they needed to create a training dataset for their machine learning model, but faced the following challenges:



SOLUTIONS

Infosys BPM deployed a geographic information system (GIS) team consisting of experienced and expert annotators who:

- ▶ Collaborated with a data annotation platform partner using a hybrid model for streamlined execution
- ▶ Designed and developed annotation guideline to accommodate client customization
- ▶ Followed an implement > learn > refine process methodology
- ▶ Identified and extracted multiple scenario and key features
- ▶ Performed annotations using client-defined class categories and specifications
- ▶ Utilized the partner's automation platform to significantly enhance the efficiency and quality of the annotations
- ▶ Validated completeness and correctness of annotated images
- ▶ Leveraged a 2-tier quality approach to ensure final deliverables to highest quality



BENEFITS

The Infosys BPM team's GIS domain expertise enabled several successful outcomes for the client that included:



- ▶ A machine learning approach for image classification
- ▶ Adherence to the client's category definitions, annotation specifications, quality targets
- ▶ An enhanced machine learning model for autonomous trucks to detect objects and constructions in real time



10000
Aerial Images annotated



>99.5%
Quality Labeling of mine objects



100%
Adherence to delivery timelines



20%
Savings due to in-house QC

For more information, contact infosysbpm@infosys.com

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