



## Descartes Labs

# Descartes Labs: A Living Atlas on Google Cloud Platform and Intel® Xeon® Scalable Processors

Descartes Labs is building a living atlas of the world by applying machine learning to satellite imagery and other massive data sets, such as weather data, pricing and customer data. The solution is based in the cloud, which means it can scale storage for the massive data sets and scale compute capability to enable analysis results and data to be returned more quickly. Handling petabytes of data, compression is hugely important for packaging the data in usefully sized files and for driving down storage costs. With Intel® Xeon® Scalable processors, provided in the Google Cloud Platform\*, Descartes Labs was able to accelerate its compression using Intel® Advanced Vector Extensions 512 (Intel® AVX-512).

“We chose the Intel Xeon Scalable platform for its performance. We found that we could recompile our code without needing to make any code changes to take advantage of Intel AVX-512.”

**Tim Kelton, co-founder and head of cloud operations, Descartes Labs**

### Products and Solutions

[Intel® Xeon® Scalable processors](#)  
[Intel® Advanced Vector Extensions 512](#)

### Industry

Technology

### Organization Size

51-200

### Country

United States

### Partners

[Google Cloud](#)

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