

# Case Study: Geo-location Services and Software Firm



## Client Requirements

The Gartrell Group is a software and services firm located in Portland, OR, focused on helping people better understand and fully capitalize on the role that location plays in their business. They work closely with customers to boost their location intelligence with GIS Hosting, GIS systems integration, or GIS application development. Gartrell had a need for improved performance as well as cost reduction efficiencies related to their core geographic information system (GIS).

## Atmosera Solution

In partnership with Microsoft, Atmosera enabled the Gartrell Group to see a 90% improvement in the amount of time it takes to run tile caching operations by utilizing Nvidia Tesla K80 Cuda GPU Acceleration on NC-series Azure virtual machines deployed and managed with Windows Virtual Desktop. Through this partnership, Atmosera was able to mobilize the GIS industry to no longer be dependent on local GPU and hardware, by offering a new and more powerful virtualized solution in addition to improving the performance of existing virtual solutions.

## Value Delivered

- 90% improvement in the amount of time it takes to pre-process and cache data.
- Windows Virtual Desktop (WVD) allows for greater cost-control and less up-front cost, as these powerful machines can be deallocated when not in use.
- More sophisticated than standard Remote Desktop Services deployments, WVD can be accessed via browser and is highly scalable, ensuring high performance when it's needed most.