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geoverse™



WHAT WOULD IT MEAN IF YOU COULD IN LESS THAN A SECOND

ACCURATE, REAL-TIME 3D DATA VISUALISATION.

Geoverse[™] delivers instant, interactive access to your entire point cloud data set from any computer – regardless of size – in less than a second.

Geoverse™ is the new software package that is purpose-built for the Geospatial industry. It allows Geospatial professionals to visualise unlimited quantities of point cloud data from LiDAR, photogrammetry or any other data source.

Geoverse™ point cloud rendering is based on Euclideon's revolutionary Unlimited Detail (UD) technology. This technology is able to handle the vast amounts of LiDAR data — which can be produced at rates of up to two million points per second — in a way previously unimaginable on normal computers

The Geospatial industry has vast quantities of unmanageable point cloud data; data difficult to store, challenging to deliver and time consuming or impossible to visualise.

Euclideon's UD technology features a 3D search algorithm that can render unlimited quantities of point cloud data in real-time. As the technology efficiently grabs only one point for every screen pixel, it can display models of previously unimaginable sizes at interactive frame-rates.

Using Geoverse™, data from any of the standard industry formats is converted by Euclideon's Unlimited Detail technology, reducing the file to 5-20% of the original size. This data can be installed on a local computer for single use or anywhere on the network for multiple users to access. Load times for data sets of any size or location are less than a second.

UNLIMITED OPPORTUNITIES

- Render all of your point cloud data, all at once no size limit.
- Reduce the file size to 5-20% of the original with native data conversion.
- Store data centrally and stream over the network.
- Reduce load times to less than a second regardless of data size.
- Run it on entry level desktop computers and laptops.
- Accommodate stereoscopic display.





INFINITE POWER. UNLIMITED POTENTIAL.

Geoverse[™] empowers you to fly through your entire geographically accurate, real-time 3D models at lightening fast speeds as if you are actually there.

ACCURATE MEASUREMENTS & INTERACTIVE PRESENTATIONS

Effortlessly visualise your data, create presentations, take accurate real-time measurements and have discussions from your LiDAR of real-world locations as though you were actually there.

The simple interface enables you to fly around your data in real-time at very high speeds in full resolution — and the size of the model no longer matters with Euclideon's UD technology.

MEMORY COMPACTION

Geoverse™ compacts data to between 5-20% of its original .LAS file size — saving significant space on your server and resulting in less data that needs to be streamed over the network or from the hard drive where it is stored.

This compression doesn't impact performance or the quality of the data. Euclideon's UD technology actually uses the data in its compressed format. It doesn't affect the image at all — compression only removes points if they occupy the same space.

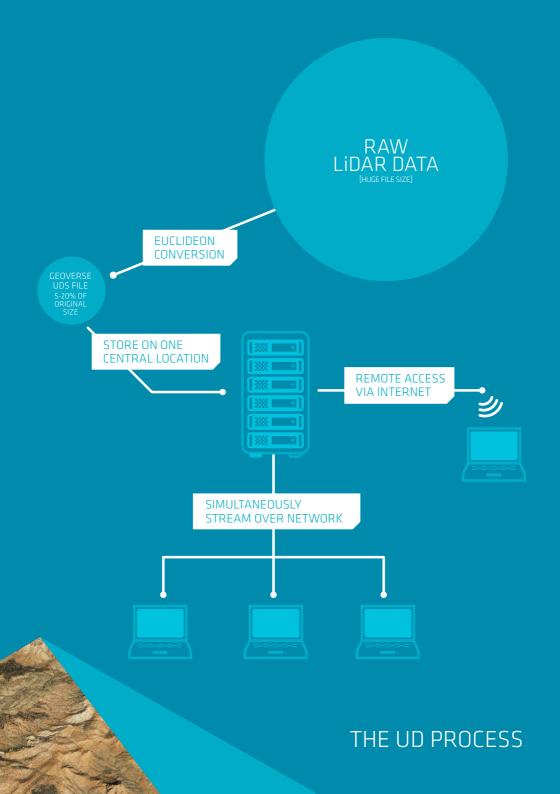
Instead of loading point cloud data into RAM, Euclideon's Unlimited Detail algorithm streams the data straight from the hard drive which enables files of unlimited size to be opened instantaneously, in ultra high resolution.

RUNNING ON A NETWORK

Previously, due to the vast size of data sets, LiDAR data had to be installed on every computer that needed to use it. These models are often multiple gigabytes and costly to update and store.

With Geoverse™, you only have to put the data on one computer in the building and all other users can stream it from that one computer.

This centralised storage of data cuts costs considerably, improves security and simplifies administration. It also becomes possible to archive historical sets of LiDAR data taken at different points in time.



UNLIMITED DETAIL	Unprecedented detail with over 1 million point cloud atoms per virtual cubic inch.
INSTANT ACCESS	Load any size model in less than a second, direct from the hard drive using a standard laptop.
CENTRAL STORAGE	Place your data in one place on the network and stream simultaneously to multiple users; no need to copy onto every computer.
SEE ALL YOUR DATA	See all of your data, all at once in ultra high resolution; no need to chop your data into pieces.
5-20% OF THE ORIGINAL DATA SIZE	Compresses the original scan data file size making it much easier to store and manage.
COMMUNICATE IN 3D	View spatial concepts in 3D as if you're standing there; fly through camera controls allow easy viewing and measuring.
ACCURATE MEASURING	Take measurements at the precision of the data set and display data on base maps.
EASY TO USE INTERFACE	User friendly 'drag and drop' interface.
RUN ON A BASIC LAPTOP	No need for special hardware or super-computers.
SIMPLE INTEGRATION	Overlay map data with KMLs direct from Google Earth or elsewhere or overlay data onto base maps, including OpenStreetMap and Bing Street, Aerial & Hybrid Maps.
SMART PRESENTATIONS	Create annotated presentations with bookmarks and labels.
REAL-TIME ACCESS	Visualise all your data in real-time without the need for lengthy offline renders.



SMART PARTNERING. SMARTER TECHNOLOGY.

Euclideon specialise in providing agile enterprise solutions that improve productivity and the usability of large volumes of point cloud data.

Partnering with industry leaders, scanning companies and end-users, Euclideon continues to develop technology to enhance our ground-breaking Geoverse™ solution. Our qualified team will work with you to develop integrated tailored solutions to achieve both local and global efficiency objectives.

In 2010, Euclideon received one of the largest government grants to commercialise Unlimited Detail with the first offering being Geoverse TM .

Our UD algorithm has featured in most of the world's technology based media (New Scientist, Popular Scientist, Game Informer, and Rolling Stone), and is set to transform the world's experience of 3D data visualization.

Based in Brisbane, Euclideon's team consists of Australia's top programming and graphics experts, and an executive board comprising of:

- Bruce Robert Dell
 CEO and inventor of UD Technology
- Chairman David Merson former Head of Mincom*
- Scott McTaggart former Head of Oil and Gas, Mincom*

*Mincom became Australia's largest software developer. With revenues of \$200M, 1,200 staff and 20 offices around the world, Mincom enjoyed global leadership in asset management in mission critical industrial applications.

BOOK A FREE DEMONSTRATION

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