Lidar**Lion**

software platform for 3D laser surveying

the Context

Geographical Surveying has been an important element in the development of human environment. Used only as a method for map making, it evolved as one of the main means of planning in transport, communication and navigation systems. The painful process using various kinds of measurement tapes, gave way to modern methods with the introduction of devices such as total stations.

Recent years has seen still better technologies such as Areal Imaging and Laser based 3D scanners, which shifts the actual survey process from on-premise to off-premise using computers. A global collaboration is now possible where the actual process of measurement and marking can be outsourced to remote locations. A general trend is to scan the entire area using mobile or areal lidars and transmit the 3D data to remote engineering process outsourcing centres (EPOs) for doing the measurements.

A few key stake holders are involved in this process: Surveying companies who takes the contract, Scanning field staff who collects data by driving mobile Lidar vehicles, Project managers who split the work and track, EPO workstation users who do actual measurements on computers, industry specific analysers who process the EPO's measurements for a specific need which the survey is indented for.
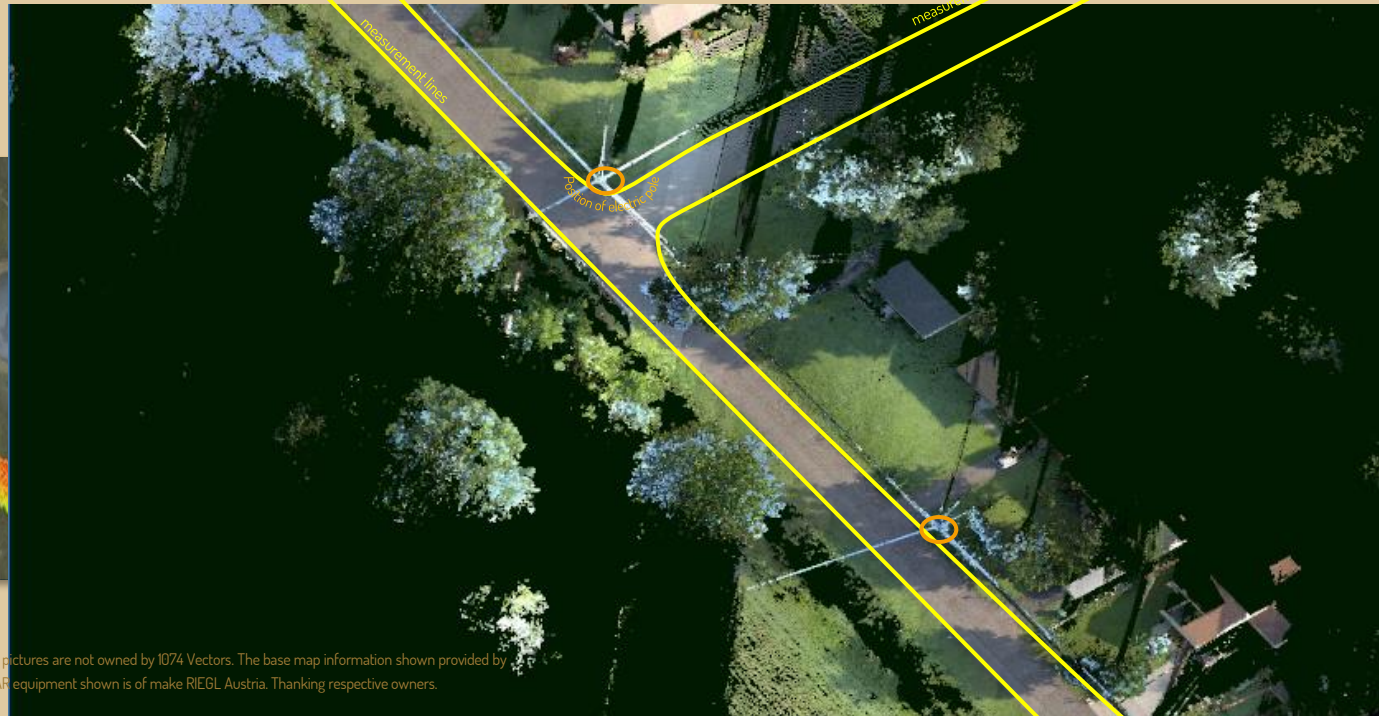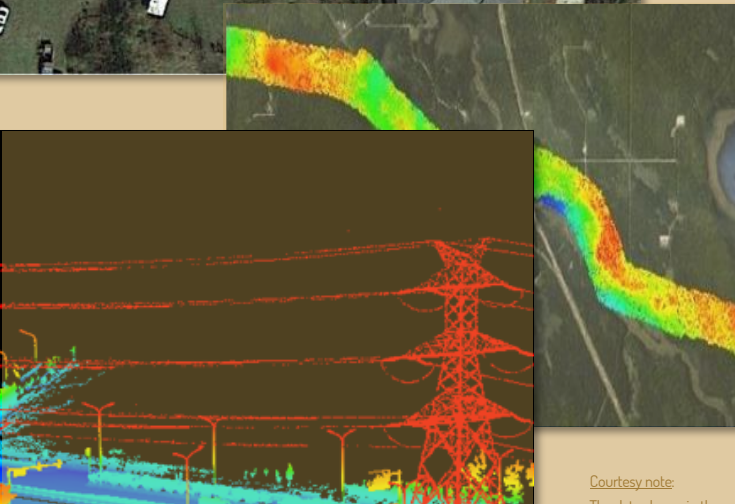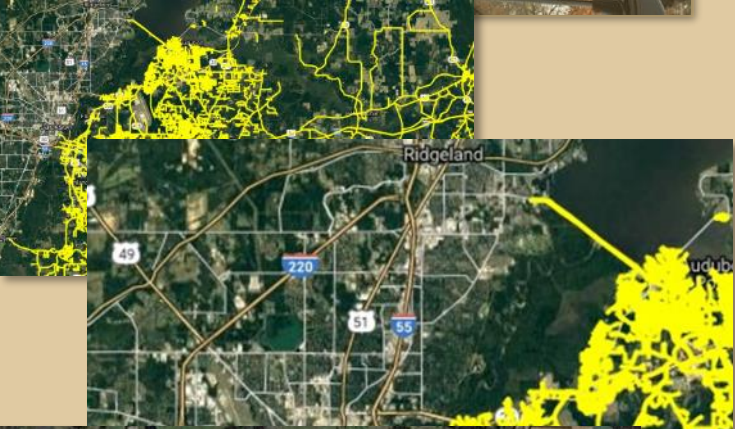
Even though the on-premise data capture methods have improved, the software tools are yet to catch up with this change, forcing the GIS EPO centers to use generic 3D CAD packages, spread sheets and e-mail suites, which does not assist the stake holders much whether in management process, 3D visualization or computation.

the Solution

Lidar Lion exclusively addresses the phase between field scanning and industry specific processing. The major features include

- Cloud based project handling, adhering to a defined management process
    - o Multi-EPO work division for surveying companies
    - o Geospatial work allocation, tracking & status reporting for EPO managers
    - o Huge 3D data transfer tagging linked with hard disk couriers.
    - o Work product submission with baselining and versioning.
- 3D software for workstations for marking and measurements
- Optional computing hardware for workgroups to offload graphical processing from EPO workstations.

LidarLion's uniqueness

An exclusive software platform for Lidar based asset mapping, planimetry, corridor mapping. It addresses all post-scanning tasks before application based analysis.

Surveying companies get full picture of project even when it got offshored GIS EPO Centers after field work. EPO companies get LidarLion's 3D graphics software exclusively featured for surveying and mapping. Optionally by plugging Lidar Lion's 3D computing stations to LAN, user workgroups can improve their display performance even in economic PC configuration (both Windows and Linux). In addition to English, the software supports multiple Indic and Chinese languages. This is to help EPO centers to scale up with more users when demand increases. The work product tracking & versioning system embedded in the system assures excellent confidence to the management even when they engage less experienced staff. *Thanks to founder's long working experience with Japanese industries.* Utilizing less expertise manpower in their locality is good for a better workforce planning.

In a nutshell, LidarLion enables accurate results, global collaboration and measurements in internet data store with versioning. All can be done with less geo/3D expertise means high productivity.

What does it mean to the industry? Nothing but more value for the money.
Yes! LidarLion is a game changer in geospatial industry.

www.1074vectors.com/lidarlion
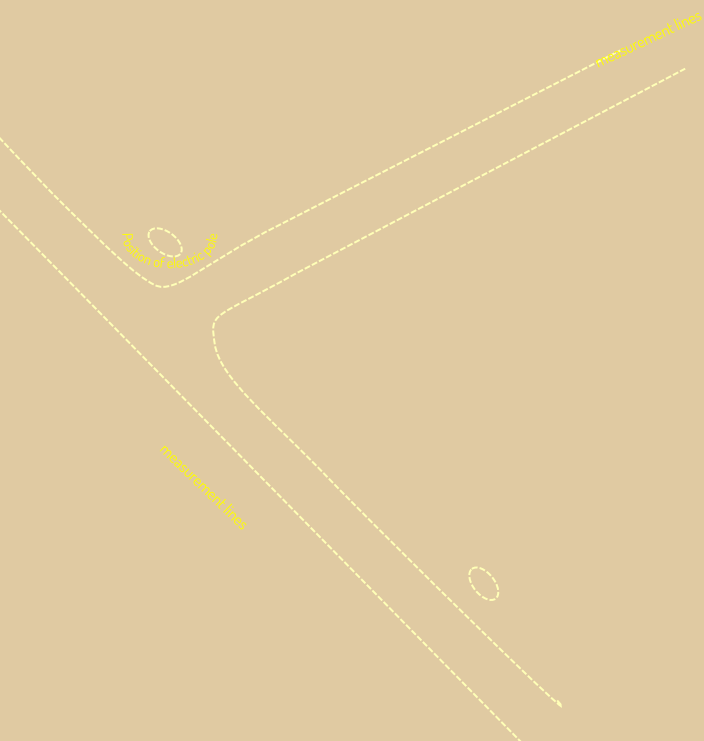
about Company

LidarLion is from 1074 Vectors.

3D is natural dimension to human beings. Each vector in the title '1074 vectors, provide a separate path from a given point in 3D space. As the name denotes, 1074 vectors will be 'representing' 3D with help of computer graphics and geometry.

1074 Vectors focuses in 3D technologies with expertise of:

    Graphics
    Parallel computing
    System software

1074
Vectors

1074 Vectors (p) Ltd
KSUM, Tejaswini
Technopark, Trivandrum
Kerala, India. 695 581

veenusav@1074vectors.com
www.1074vectors.com   +91 98460 10223

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