LiDAR - Corridor Mapping

Sample Data
LiDAR data is ideal for mapping and monitoring corridors.

Above is a point cloud classified by elevation and intensity of return.
Important elements can be classified and separated.
At high density even more detail can be classified.
Power lines and towers can be vectorized from LiDAR data.
Vegetation and other encroachments are detected and classified using LiDAR. That data can be verified using aerial photography.

See our Photography Sample
Dense LiDAR elevation data is perfect for mapping and monitoring levee corridors. The comprehensive nature of LiDAR confidently surpasses a simple cross section survey.
LiDAR data can be combined with survey or PIG data to develop comparison profiles and perform depth of cover analysis for existing pipelines.

The black line represents the surface profile as derived from LiDAR. Notice the water barriers on the downslope.

The green and red line represents survey data collected and verified by a third party. Areas of red indicate non-compliance with minimum depth of cover.
PAR logs an in-flight static control session using a survey grade GPS unit. The ground control for this process is monumented and tied to NGS control near the job site. Also, an OPUS solution is processed after the flight, and RTK/VRS ground truthing control is collected.
PAR utilizes the latest Aerial Photography and LiDAR technology from Leica Geosystems®.

Utilizing the Leica RCD 30, PAR can capture highly accurate multispectral aerial imagery at various resolutions ranging from 1” to 1’ GSD.

Through the implementation of high rate airborne GPS and IMU data collection, the need for ground control is significantly diminished, and for mapping grade projects, eliminated altogether.

With LiDAR and aerial acquisition, the possibilities are vast. Many industries have realized the power of this technology and its ability to save them time and money while maintaining unbeatable accuracies.

Data Applications:
- Aerial Facility Inventory
- Construction Progress Monitoring
- Disaster Damage Assessment
- Elevation Contour Lines
- GIS Analysis
- Levee Elevation Data
- Pipeline/Power Line/Railroad Corridor Mapping
- Planimetric Mapping
- Route Selection Support
- Survey Support
- Volumetric Calculation
- Watershed Analysis

Three-dimensional surface modeling has countless applications. Surface models are used for construction planning and design, hydrological models, digital canopy (tree height) models, geological studies and much more.

The PAR team works together with our clients to produce a completely customized product that fits the end user’s needs.

From producing inputs for your next CAD project, to full CAD basemap development and GIS analysis, PAR can get the job done.

The staff at PAR has extensive experience in surveying, GIS, mapping, and CAD. PAR is a full service company for geospatial solutions.

PAR can save you time, and money. When site access and ground conditions are slowing progress for time sensitive work, PAR can get the job done with proven speed and accuracy. Our company structure is lean and built to operate with the highest efficiency; therefore, we can tackle projects as small as 50 acres while remaining cost effective. The end result is a fast, accurate, and reliable product.
Precision Aerial Reconnaissance, LLC is a service disabled veteran owned small business based out of Bossier City, LA.

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