

*Utilizing
RIEGL multi-platform
LiDAR for efficient
data capture –
assisting public safety,
streamlining forensic
investigations*

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Geospatial World Forum

January 2018



Innovation in 3D

OUTLINE: LIDAR IN PUBLIC SAFETY

- Specialist Public Safety & Forensics support
- Multi-platform tools
TLS, UAV, MLS, ALS
- Proven advantages of *RIEGL* LiDAR
- Seamless Fusion of Data
- Worldwide Usage:
 - *Expressway Authorities US,*
 - *Victoria Police, Australia*
 - Swiss Police
 - Metropolitan Police, UK
 - ...



PUBLIC SAFETY AND FORENSICS

- Documenting Crime scenes has moved on since this sketch was produced!

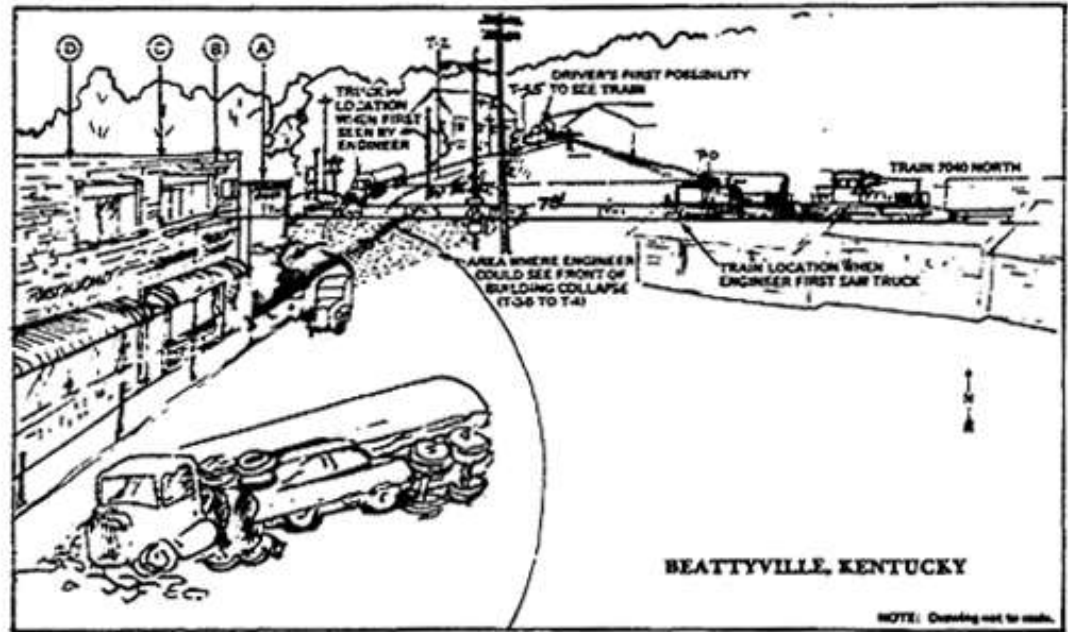


Figure 2. Artist's conception of accident site.

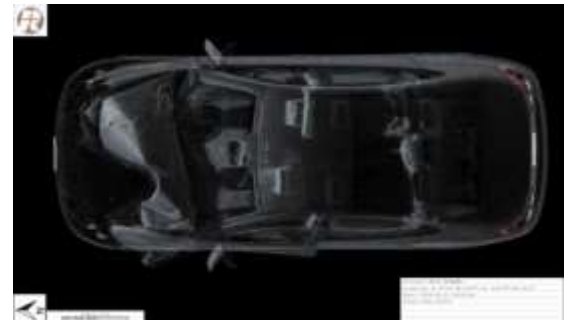
LIDAR FOR FORENSICS INVESTIGATIONS

- Versatile, robust, IP64 rated.
- Intuitive operation
- Simple, Targetless, one-touch workflows
- User customisable operation – good for road surfaces and detailed areas for evidence
- Fast initial set-up & scan position moves
- Rapid objective data capture, rapid imaging
- Options on range / speed to match application
- RiSOLVE software and **On-board** automatic registration
- Records poor quality returns
e.g. Tyre Marks & black shiny surfaces...
- Faster scene clearance, reduced officer fatigue,
free up resources earlier
- TIME IS MONEY – LIDAR is reducing road closure times



LIDAR FOR FORENSICS INVESTIGATIONS

- RiSOLVE: automatic target-less registration
- Simple to use – single buttons for main operations
- Rapid results from field to Office
- Useable tools (e.g. terrain filter, rain filter, etc.)
- Animation & screen shots to highlight the data
- Produced in 1000's of court cases across UK, Switzerland, Australia, USA etc



DEPLOYMENT FOR SECURITY PLANNING



Swiss Police –
security scanning
ahead of major
Skiing events



DEPLOYMENT VP-1 WITH VZ-400i

RIEGL VP-1 Helicopter Pod in action for disaster management and accident investigation



DEPLOYMENT AT SCENES OF AIR CRASHES



Light aircraft crash scenes
Note the heavy rain and poor conditions



DEPLOYMENT AT SCENES OF RAIL CRASHES



Conclusion

- LiDAR has become a proven, accepted technology by authorities worldwide for forensic and public safety applications
- LiDAR is offering more complete scene capture for investigations, in less acquisition time
- Planning and Pre-Event Deployment increase public safety
- Time savings benefit the individual and the society as a whole



Thank you!
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