

5.2.2 Data Acquisition for Better Roads -- Best Practices & New Technologies

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Commercial land base data is changing for the better, due to innovative processes, practices, sources, new technologies, and the convergence of technologies. The Montgomery County Ohio LBRS project is one specific case and there are many others. The project benefited from the improvement of internal process efficiencies, best practices in GIS, and through the use of new mobile mapping technologies, while providing more options to transportation officials to manage their assets better. This session will discuss specific projects, how these changes influence the commercial data products of today, and how government and commercial enterprises will benefit from this and similar projects in the years ahead.

Background: Recent data acquisition projects in the past few years provide striking examples of how commercial land base data is changing for the better, due to innovative processes, practices, sources, and new technologies;

- 1) Commercial vendors applying new compilation methods / standards / practices --
 - a. Partnering with governments to produce land base "frameworks" that provide a more common understanding of location,
 - b. Increasing / leveraging all sources of data in the marketplace, broadening and deepening the spectrum of data available, enabling commercial providers to offer higher-quality data that is helping government to better manage their road assets and solve business problems, while helping consumers make better decisions.
 - c. Improving data standards and practices to make data capture more efficient, less problematic, and more strategically focused to enable better data currency,
- 2) The development of new and converging technologies that are influencing the data products that come to market:
 - a. Personal navigation devices -- who are using them, how are they being used, and their potential to be leveraged to improve data for government infrastructure management.
 - b. How the convergence of commercial technologies are forging new ways to improve the quality and frequency of commercial data for transportation management:
 - * Passive data collection in consumer devices,
 - * Active & passive data collection with commercial companies and in the public sector.
 - * New data collection technologies that will produce commercial data products with more 3D and elevation data.

This session will discuss specific data collection projects and how the utilization of new technologies and best practices in these projects influence the commercial data products of today, and help both government and the private sector.