



OTEC 2007  
October 23-24, 2007  
Columbus, Ohio

## Session 23: Leveraging Electronic Plan Data Utilizing Electronic Plan Files in the Field

Panel Discussion

Moderators: Bill Ujvari, ODOT  
Chris Engle, OCA

Panel: Bill Clifford, Kokosing Construction  
Jack Ford, Beaver Excavating  
Jim Wilson, ES Wagner  
Pete Kaz, Trimble Navigation

# Panel Discussion

1. How accurate is today's automated machine control technology?
2. What are some short and long range possibilities of receiving electronic plan data today and in the future in terms of efficiencies?
3. What challenges face the construction industry related to integrating positioning technology within day to day operations?

# Panel Discussion

4. What is the typical investment to equip a fleet of grading equipment with automated machine control technology?
5. Based on your initial investments are your annual maintenance and upgrade costs supportive of expanding this technology to additional machines within your operation?
6. What level of effort is required by the contractor to integrate existing ODOT design files for use in the field?

# Panel Discussion

7. If electronic files are provided, are contractors able to review and translate the files in-house or is a design consultant required to prepare the files for field use?
8. What is the future for survey, engineering, and construction industries related to positioning technology?
9. What types of projects do you typically implement automated machine control? In the future, do you anticipate using these tools on smaller jobs as technology becomes more affordable and common? If so, what types of projects would those be?

# Panel Discussion

10. What effort is involved to set up a project site to utilize machine control?
11. What is the typical rate of return for a grading operation equipped with automated machine control technology?
12. What type of equipment do you currently have enabled with GPS/automated machine control technology (i.e. dozers, graders, pavers, etc)?

# Panel Discussion

13. How should designers prepare for the next generation positioning tools to ensure the electronic design files meet the needs and expectations of the industry?
14. As an agency, what improvements can ODOT make to support this evolving technology?

Final Comments?