# New Technology for Asphalt Paving

Presented at Alaska Paving Summit 2007

### Agenda

- 1.Introduce Topcon and GPS Alaska
- 2.Overview of Non-Contacting Systems for Asphalt Paving including the Sonic Averaging System
- 3. Current Status of GPS Technology
- 4. New Technology for Asphalt Paving ... Millimeter GPS with Laser Zone
- 5. What's Next?... Site Link

#### **Topcon Statistics**

- Began in 1932
- · Major shareholder: Toshiba
- · Topcon business units:
  - Topcon Positioning
  - Topcon Medical
  - Topcon Industrial & Optics
- Developed many "World's First" products and technology

#### Topcon In The World Marketplace



- Major producer of vision testing, retinal cameras, surgical & electron beam microscopes.
- One of the world's leading suppliers of optical lenses used for reading CD's and DVD's.
- Major supplier of lenses for camera phones.



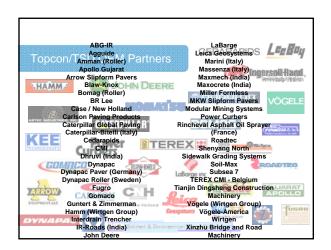






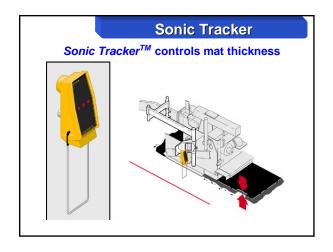


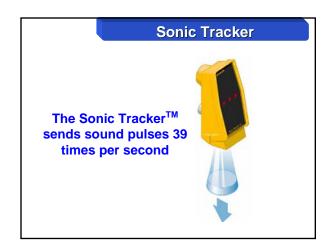


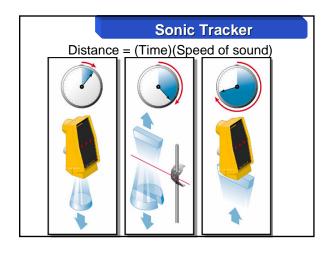












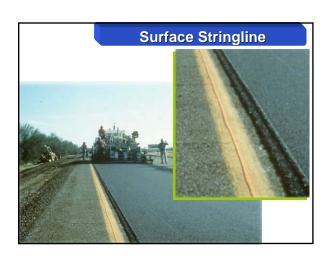




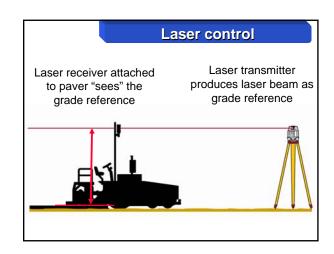








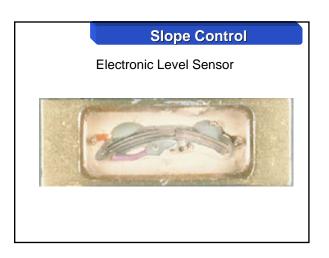


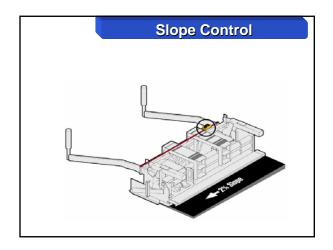


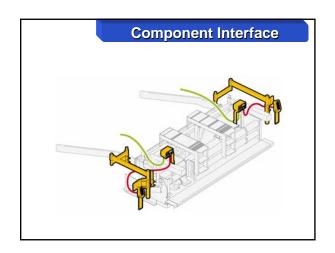


















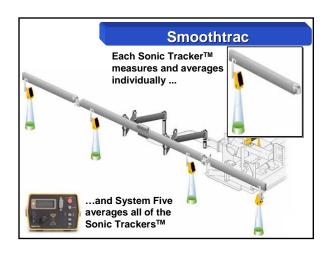


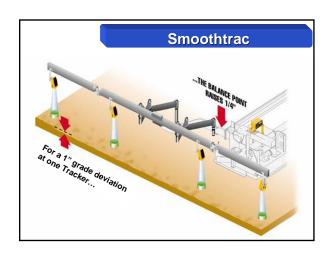


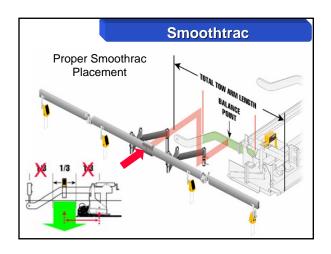


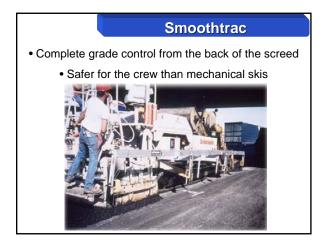












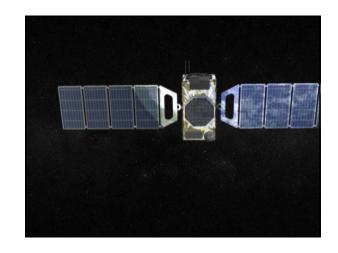




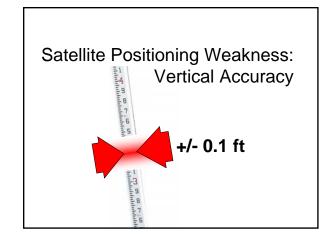


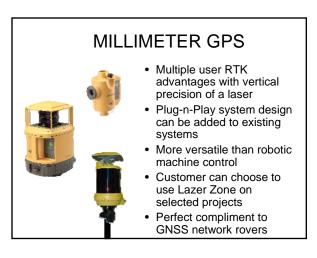


## Current Status of GPS Technology















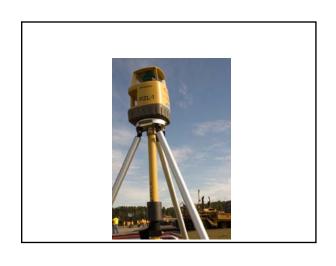
#### MILLIMETER GPS



- Expands Applications for RTK GPS
- Adds precision vertical accuracy capability to existing systems
- Provides significant performance advantage over Robotic Systems
- Building block design offers customers the opportunity for future upgrade















# mmGPS Asphalt





# mmGPS Paving



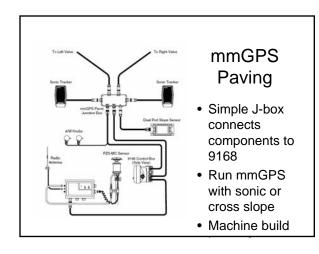
- PZS-MC w/ Sonic/Slope
- Compatible w/ System 5
- Same components as grading equipment
- Eliminate Stringlines
- Control Paver & rover at the same time













Site Communications Technology

