Evolution and Benefits of Web Based Viewers for Pavement Data

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Presentation Overview

- The problem of pavement data
- Evolution of web based viewers
- Types of data available
- Sharing data with everyone
- What is next for this data?
Problems With Pavement Data

• Typical deliveries include:
  ▪ Database tables
  ▪ Image/Data Storage
    • ~1 GB / mile for images
    • ~1 GB / mile for Lidar
  ▪ External Terabyte hard drives with ROW and Pavement Images
  ▪ Reports / maps
Availability of Historic Data

• Few agencies were able to store multiple years of images
  ▪ Too much data for IT departments
  ▪ Costly to store and backup
  ▪ Not always available to remote locations
• Often only available within the PMS group
Web Viewers

- Web viewers have changed the way people access all kinds of data
  - Single data location
  - Widely viewable
  - Secure and traceable
Information Available

- Right of Way Images
Information Available

- Condition Maps
- Custom scales
- Additional assets
- Satellite/Aerial images
Information Available

• Detailed distress maps
Summary dashboards
All in One Interface
Hosting Alternatives

• Website can be housed within secure intranet
• Agency monitors the server and maintains the database
• Externally hosted
Potential for Future Development

- Making data available in realtime
- Incorporation of more data streams
- Mobile viewing in the field
- More interactive to report field conditions / maintenance
Conclusions

• The more people that can view the data, the more value you will get out of it
• The faster you can get the data, the better
• Web based viewers are becoming widely available and work well with existing IT infrastructure
QUESTIONS

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