



# 9th International Conference on MANAGING PAVEMENT ASSETS (ICMPA9)

## Evolution and Benefits of Web Based Viewers for Pavement Data

*D.J. Swan (Presenter)*  
*Michael Slack*  
*Fugro Roadware*



# 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?



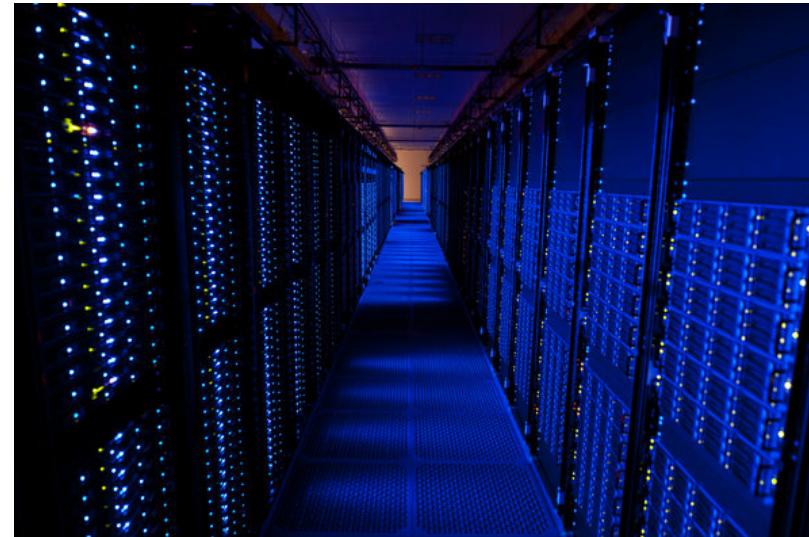
# Problems With Pavement Data

- 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



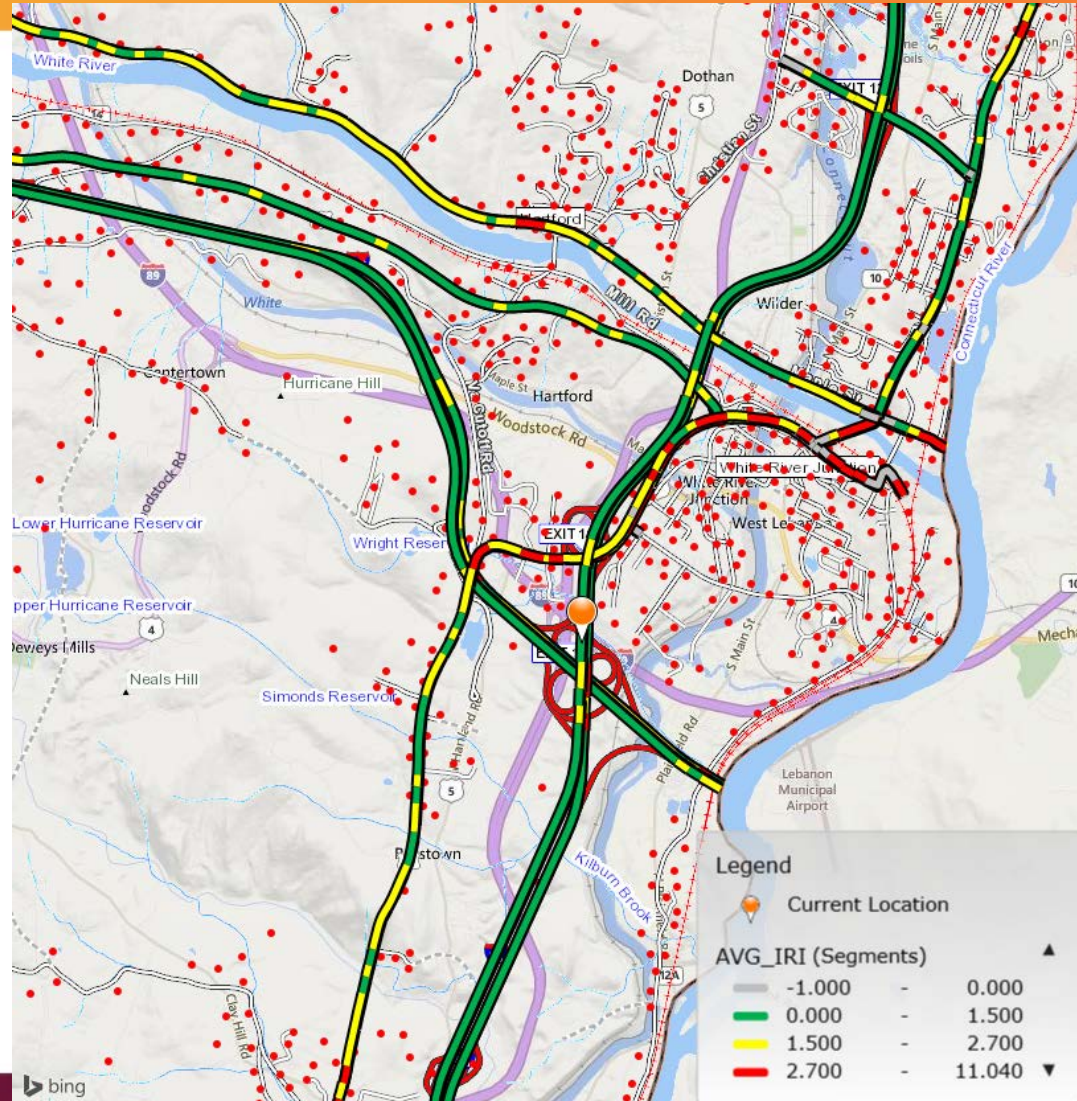
# Information Available

- Right of Way Images



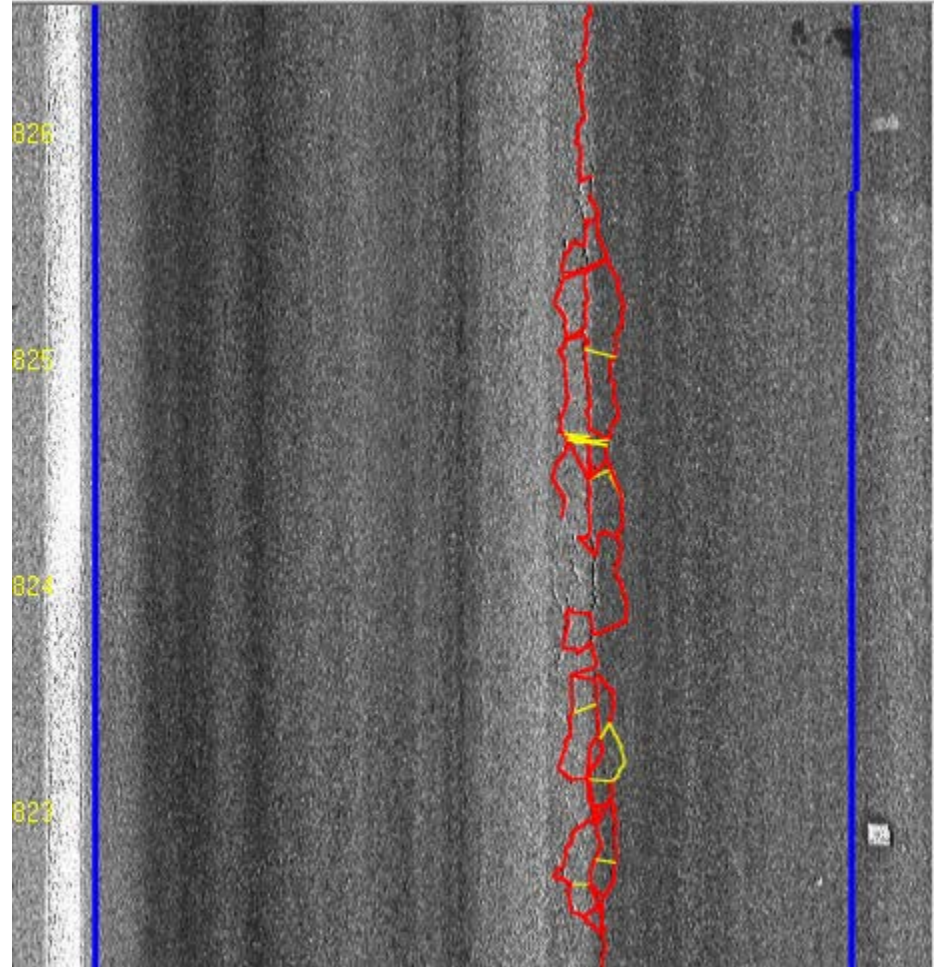
# Information Available

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



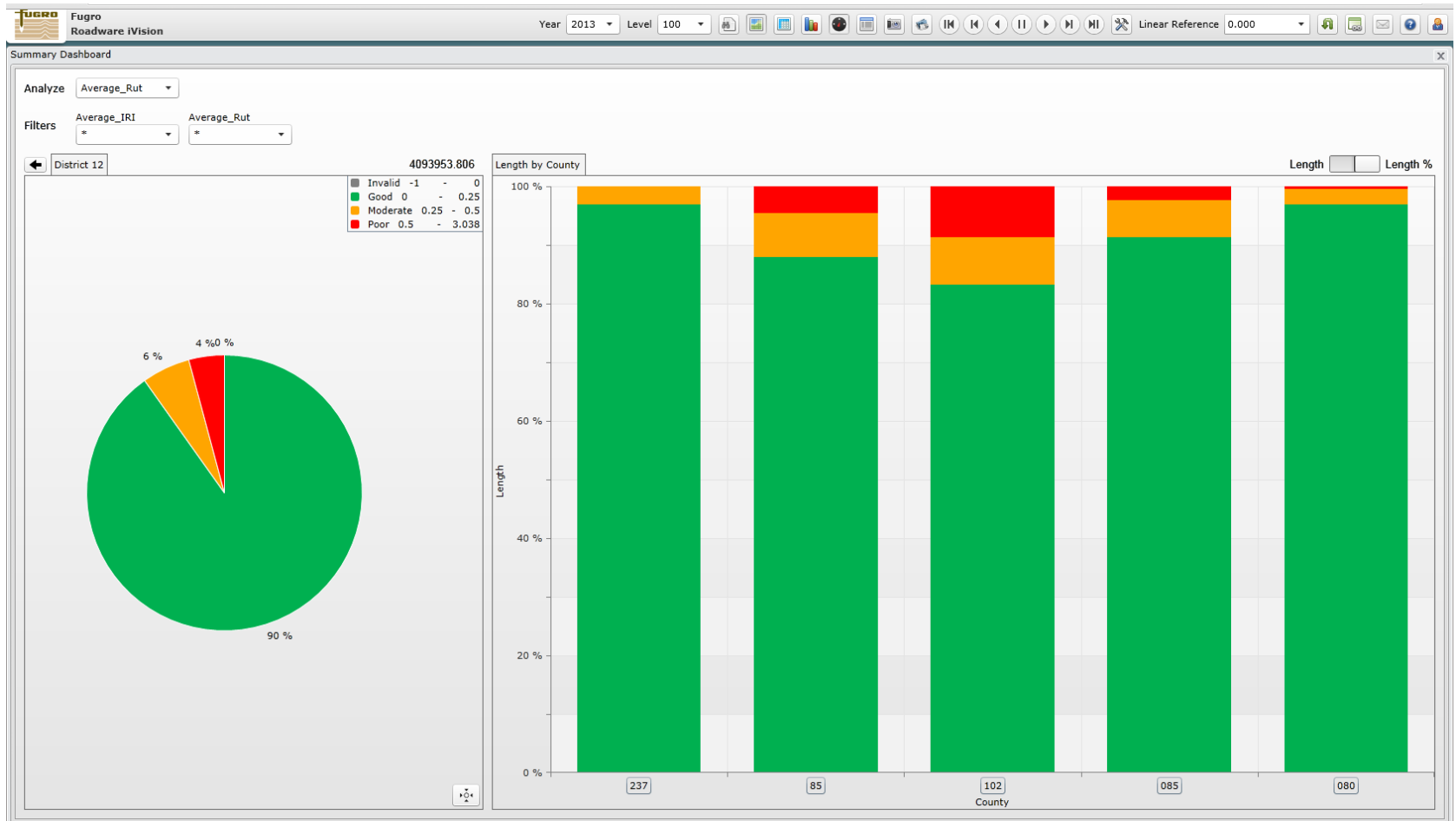
# *Information Available*

- Detailed distress maps

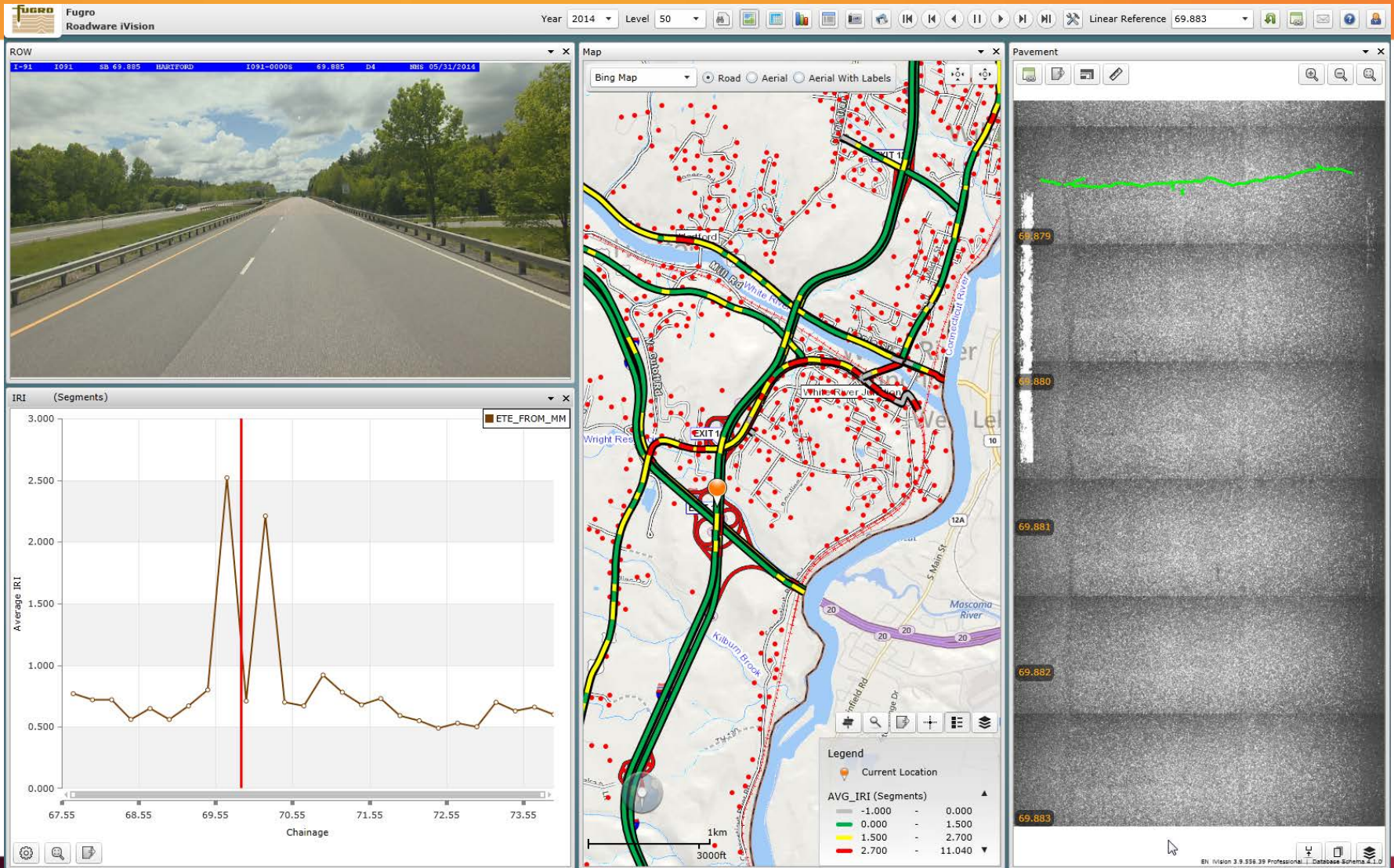




# Summary dashboards



# All in One Interface



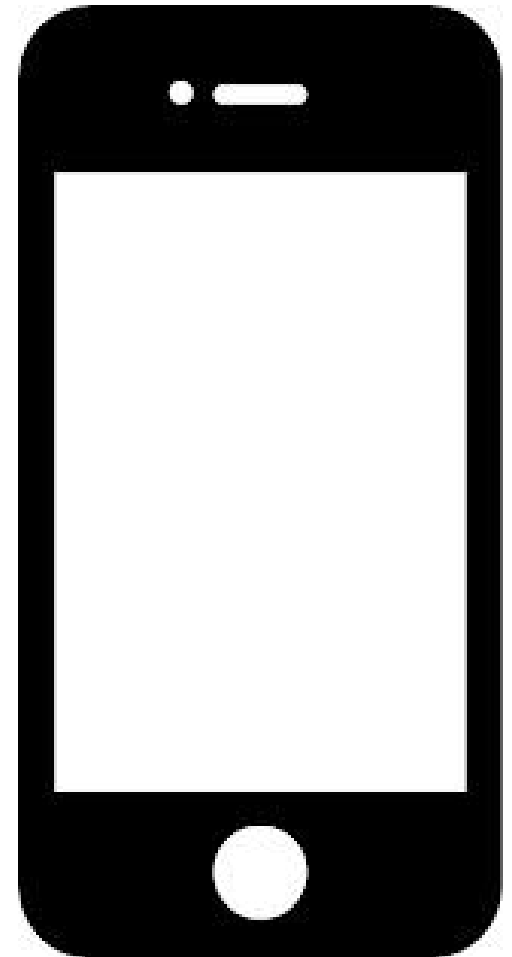
# Hosting Alternatives

- 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

D.J. Swan – [djswan@fugro.com](mailto:djswan@fugro.com)

Michael Slack – [mslack@fugro.com](mailto:mslack@fugro.com)