Integrating and Sharing Transportation Data

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Presentation by
Said Ismail, LADOTD
Robert Piane, Deighton Associates
Presentation Agenda

- Background data integration issues in LADOTD
- Benefits of integrated data
- Framework for integration and sharing of data.
Pavement Management in LADOTD

- Pavement management is a planning and programming tool
- LADOTD has maintained and utilized a robust PMS since 1991
- Data management and network analysis
- PMS remains self-contained and independent.
Increased Importance of PMS

- Increasing costs and declining funding
- Focus shifting from expansion to preservation
- Significant investment in pavement management data
- Pavement management information is of interest to all LADOTD engineers
- Sharing of information is essential.
Other Data Sharing Issues

- PMS designed to satisfy state level
- District needs and data are not considered
- District Level data unavailable to network analysis
- Accessibility to this data is vital to LADOTD engineers.
Basic Requirements

- Sound technological platform (subscriber and provider)
- Reliable data sources (integrated in background)
- An intuitive user interface
- Users of information not users of system.
The Tools Available

- Management Systems
  - PMS – Condition and Program Recommendations
  - TATV – Traffic Volumes
  - TAHI – Highway Inventory
  - TOPS – Tracking of Projects
  - TATA – Traffic Accidents
  - Unified LRM (Control Sections)

- GIS
  - ESRI based
  - Well maintained

- Enterprise data hub
  - dTIMS CT Enterprise
  - Robust integration capabilities and LRS if required.
The Basic Framework

- PMS
- Traffic
- Surface Type Log
- Projects
- Accidents

- ODBC Connector
- Hub
- OLE DB Provider

- Report 1
- Report 2
- Report 3
- Report 4
- Report 5

- Hub

- Acc Index
- PCI
- IRI

- LA DOTD

- deighton
Benefits

- Reduction in research and reporting times
- More compressive inventory, condition and event data
- Flexibility to incorporate new assets or updated events
- Validation of data is maintained at source
- Intuitive map based U/I.
Accident Report Example