



Integrating and Sharing Transportation Data

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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

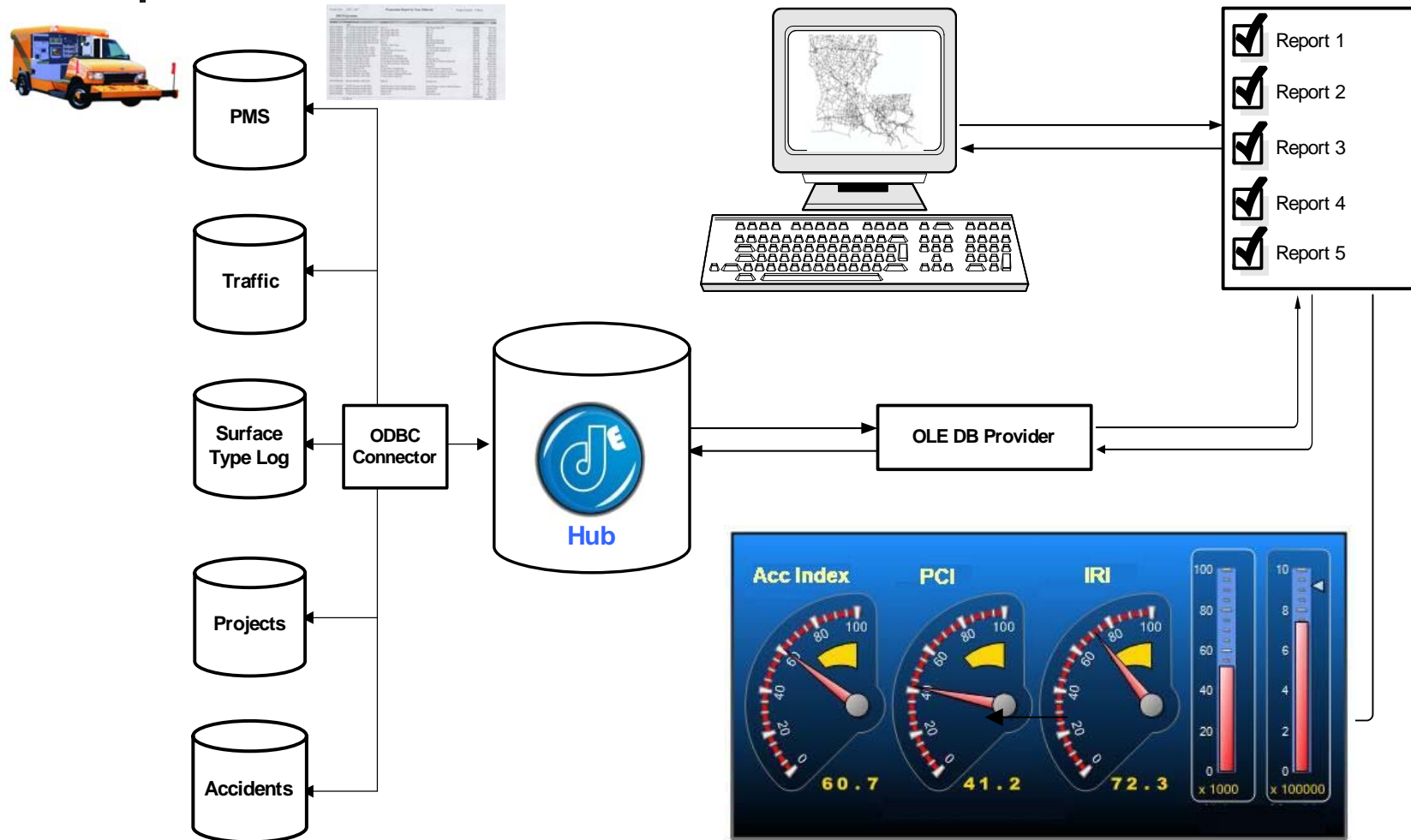
- Sound technological platform (subscriber and provider)
- Reliable data sources (integrated in background)
- An intuitive user interface
- Users of information not users of system.



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





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

The screenshot displays the ArcMap interface with a road network. A summary report window is open for route 423-01, showing the following data:

dTIMS CT Summary Accident Report	
Printed Date:	3/22/2005
Last modified:	3/22/2005
Report Description:	
423-01	
Urban Accidents	83
Rural Accidents	0
Total Accidents	83
ADT	52,400.00
PCI	3.28
IRI	104.77
Avg Highway Speed	25.00
Avg ROW Width	79.73