

Oklahoma DOT's Geographical Resource Intranet Portal (GRIP) v2



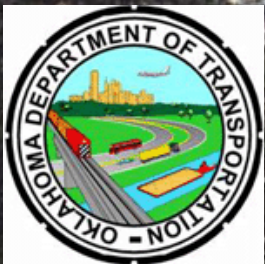
Expanding the Enterprise

Presented by
Jay Adams from ODOT

&

Jesse Jay from GeoDecisions

March 17, 2003



GRIP is a 3-Year project that includes:



- ✿ **Planning for and executing a GIS Transition**
- ✿ **Data Modeling & Implementing an Inventory Data Entry Application**
- ✿ **Enhancing the HPMS Submittal Processes and Procedures & Enhancing LRS Management**
- ✿ **Designing and Building a Web Application**



The GRIP Web Application



- ✿ **Is an online decision support tool**
- ✿ **Is available to all ODOT employees**
- ✿ **Allows users to simultaneously access many different types of data from multiple business functions**
- ✿ **Combines enterprise data with maps and GIS data without special request**



GRIP Software



- ✿ **MS Windows 2000 Server with IIS**
- ✿ **Intergraph Web Enterprise**
- ✿ **Bentley LRSx**
- ✿ **Oracle Spatial**
- ✿ **MS Internet Explorer**
- ✿ **Active CGM Control**
- ✿ **Visual Basic**



GRIP Accomplishments



- ✿ **Improved Communications and Relationships with Better Understandings of Goals and Functions Across Divisions**
- ✿ **Improved Decision Making and Response Times for Critical Processes and Situations**
- ✿ **Improved Use of Time (\$) and More Proficient Workflows**
- ✿ **Improved Data Awareness & Data Integrity**



GRIP V2



- ✿ Added 3 additional databases, 12 more thematics and complex reports needed by ODOT workforce
- ✿ Enhanced Web Map design with ability to analyze multiple databases in single maps and more friendly user options to make analysis more productive
- ✿ Added better map generation abilities and more code descriptions for easier understanding of data
- ✿ Completed GIS operations transition from MGE & Informix/DB2 to GeoMedia Professional & Oracle Spatial and Map generation workflows for production



GRIP Thematic Maps & Reports



- ✿ Surface Type
- ✿ AADT
- ✿ Access Control
- ✿ Functional Class
- ✿ Number of Lanes
- ✿ Terrain Area Type
- ✿ NHS
- ✿ Last Maintenance Date
- ✿ Outside Shoulder Type
- ✿ ROW
- ✿ Toll Roads
- ✿ Divided Roads
- ✿ Defense Route
- ✿ STRAHNET
- ✿ Mileage Reports
- ✿ Surface Condition Rate
- ✿ Capacity Adequacy
- ✿ Shoulder Condition
- ✿ Foundation Condition
- ✿ Total Condition Rate
- ✿ Total Design Rate
- ✿ Total Sufficiency Rate



GRIP Thematic Maps & Reports



- ✿ Deficient Curve & Grade
- ✿ Deficient Passing
- ✿ Deficient Sight Distance
- ✿ Minor Structure Hzds
- ✿ Muni Rated Roads
- ✿ Rural Rated Roads
- ✿ Const Wrk Prgm 3-Yr
- ✿ Under Construction
- ✿ Future ROW 5-Yr
- ✿ Future Utilities 5-Yr
- ✿ Future Maintenance
- ✿ Railroad Crossings
- ✿ Straight Line Diagrams
- ✿ Pavement IRI
- ✿ Pavement PSR
- ✿ HPMS Universe
- ✿ HPMS Sample
- ✿ Severity of Crash
- ✿ Collision Rate Analysis
- ✿ Speed Zones
- ✿ Bridge NBI Rating
- ✿ Bridge Inspection Reports
- ✿ And more



Demonstration



ODOT
GRIP
Geographical Resource Intranet Portal **v.2**

INVENTORY 2001 NEEDS STUDY REPORT PROGRAMS & PROJECTS CRASH/TRAFFIC ENGINEERING BRIDGE PAVEMENT MANAGEMENT HPMS AT-GRADE RAIL CROSSING

[What's New](#)
[Help](#)
[Contact Us](#)



GRIP Thematic Maps & Reports



- ✿ Deficient Curve & Grade
- ✿ Deficient Passing
- ✿ Deficient Sight Distance
- ✿ Minor Structure Hzds
- ✿ Muni Rated Roads
- ✿ Rural Rated Roads
- ✿ Const Wrk Prgm 3-Yr
- ✿ Under Construction
- ✿ Future ROW 5-Yr
- ✿ Future Utilities 5-Yr
- ✿ Future Maintenance
- ✿ Railroad Crossings
- ✿ Straight Line Diagrams
- ✿ Pavement IRI
- ✿ Pavement PSR
- ✿ HPMS Universe
- ✿ HPMS Sample
- ✿ Severity of Crash
- ✿ Collision Rate Analysis
- ✿ Speed Zones
- ✿ Bridge NBI Rating
- ✿ Bridge Inspection Reports
- ✿ And more

