

Integration of Road Inventory and Traffic Counting Programs



Highway Statistics Section

- ◆ Traffic Statistics Unit
- ◆ Highway Inventory and Systems Unit



Traffic Statistics Unit

- ◆ Traffic Projection/Forecast Group
- ◆ Traffic Publications Group
 - Reports
 - County Traffic Flow Maps
 - Interstate Flow Maps
 - Seasonal and Year to Year Factors
- ◆ Traffic Counting Unit



Traffic Counting Unit

- ◆ Weigh-in-Motion Sites (WIMs)
- ◆ Continuous Count Sites (ATRs)
- ◆ Permanent Coverage Count Sites (PCC)
- ◆ Coverage Count Programs
- ◆ Special Count Programs
 - INDOT – Project Specific Request
 - MPO Counting
 - RPO Counting



Highway Inventory and Systems Unit

- ◆ Functional Classification System
- ◆ Highway Performance Monitoring System (HPMS)
- ◆ Road Inventory
 - 93,800 miles
 - ◆ 11,200 – State Jurisdiction
 - ◆ 66,600 – 92 Counties
 - ◆ 16,000 – 570 Towns and Cities



Problems/Challenges

◆ Existing Computer Programs

- Mainframe programs created in 70s
- Difficult to modify or expand

◆ Processes

- Coverage count program utilized lotus as interface between counter and mainframe
- Many versions of the same inventory
- Need for versatility



Problems/Challenges cont.

- ◆ Reorganization
- ◆ Resources
 - More data
 - Cannot add people

75% - Data Collection

25% - Validating/Analyzing Data



TRAFFIC – TRADAS by Chaparral

- ◆ traffic data collection
- ◆ summarization, reporting
- ◆ public database
 - WIM and ATR operational for over a year
 - Coverage Counts
 - ◆ Completed initial trials
 - ◆ June 1, 2002 full implementation



Road Inventory –Highways by Exor

- ◆ integrated highways management software
- ◆ Supports multiple linear referencing methods
- ◆ allows complete geographic information system (GIS) functionality
- ◆ Can be web based



Traffic Manager by Exor

- ◆ Bridge from Tradas to Exor Network Manager
 - Apply Traffic section data to the inventory
 - Allows flexibility as to what data to bring over. (ADT, AADT, Truck percentages, peak hour data, etc)



Additional Information

Kirk B. Mangold

Highway Statistics Section Manager

Division of Program Development

Indiana Department of Transportation

317-233-3690

kmangold@indot.state.in.us

