FACERS Legislative Meeting Daytona Beach November 20,2008

Crash Data Management and Analysis (CDMS)

Bob Wallace, P. E., AICP Demian Miller, AICP Charles Shultz



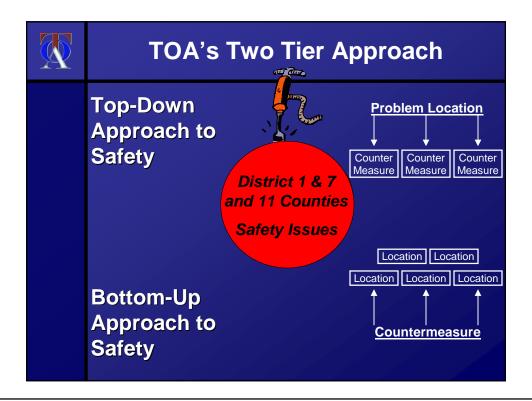
November 20, 2008

Tindale-Oliver & Associates, Inc. Today's Discussion Clients and Service Areas Why TOA's Safety Team Questions and Answers







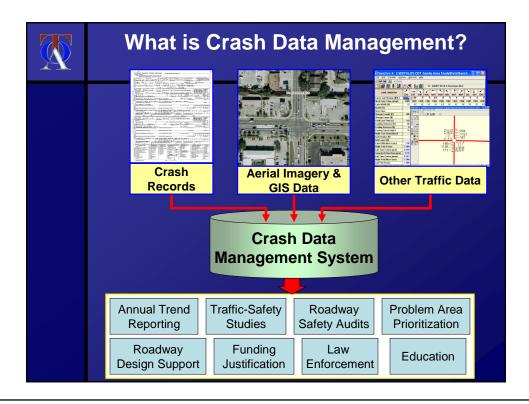




Tindale-Oliver's Safety Approach

Data Driven Analysis TOPICS:

- □ CDMS What is It?
- ☐ How Does CDMS Support Safety
- □ Data and Analysis Tools
- ☐ Data and Analysis = Projects





Tindale-Oliver's Safety Approach

Data Driven Analysis TOPICS:

- ☐ CDMS What is It?
- **☐** How Does CDMS Support Safety
- □ Data and Analysis Tools
- ☐ Data and Analysis = Projects

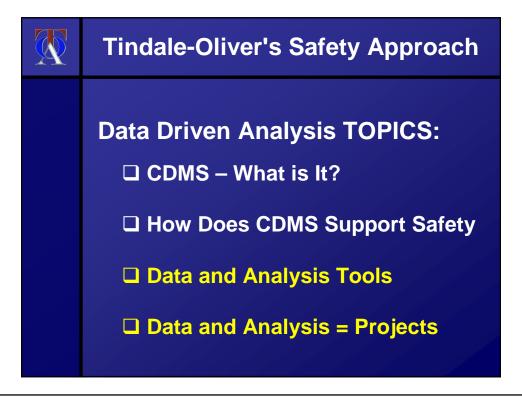


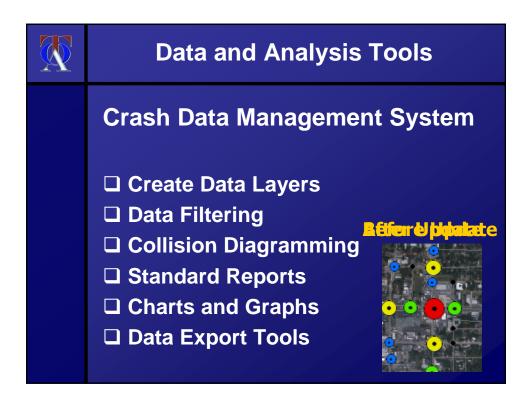
How Does CDMS Support Safety?

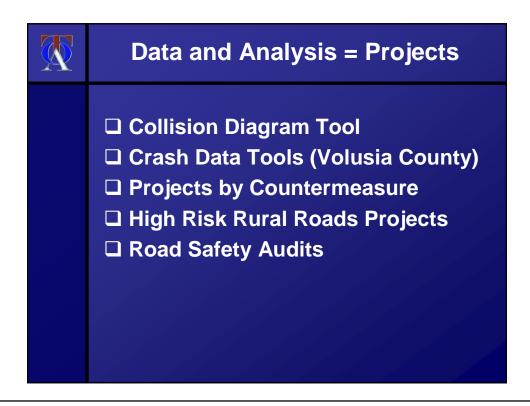
- ☐ Crash Data is Used For
 - □ Road Safety Audits
 - □ Safety Studies
 - Roadway Design Support
 - Benefit Cost Calculations
 - ☐ Project Prioritization
 - ☐ Funding Justification

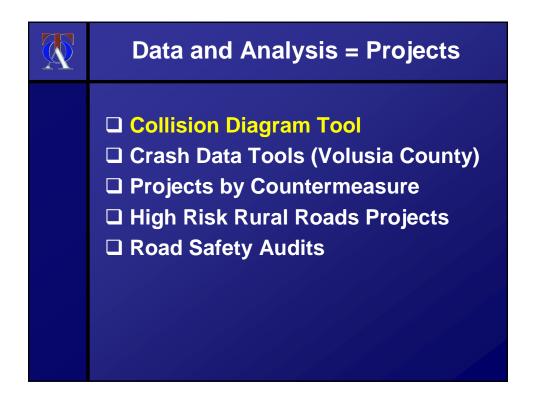


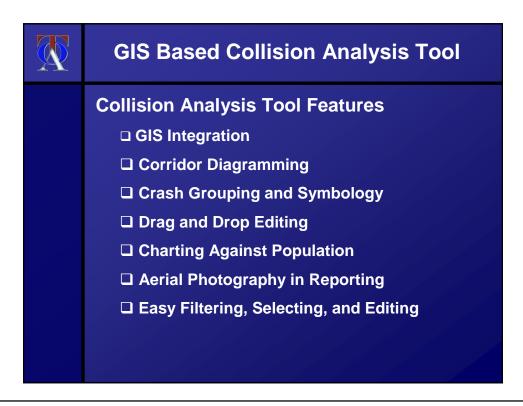


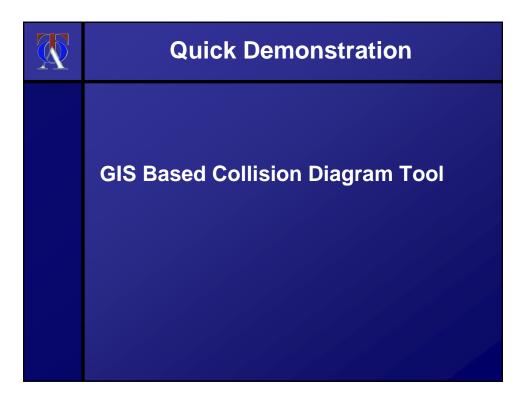


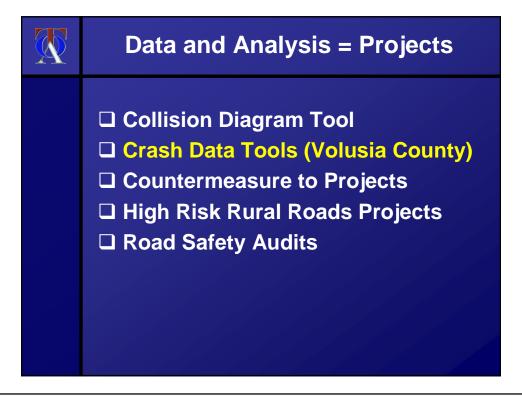


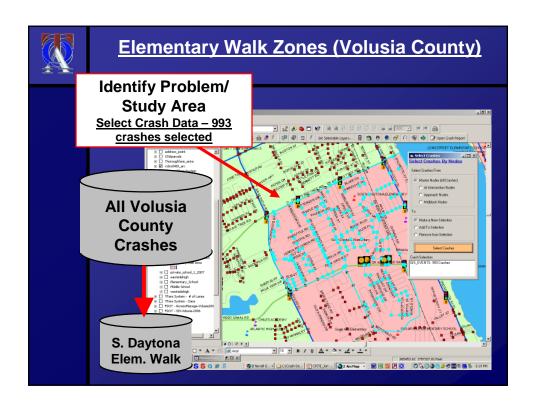


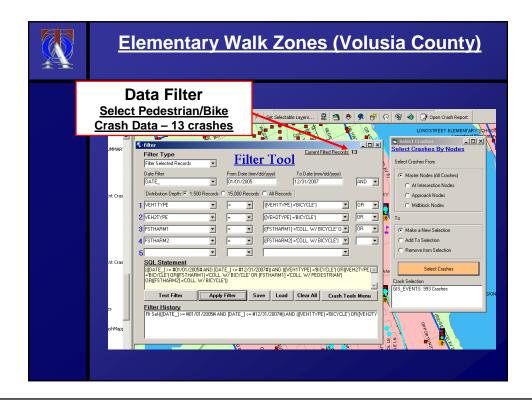


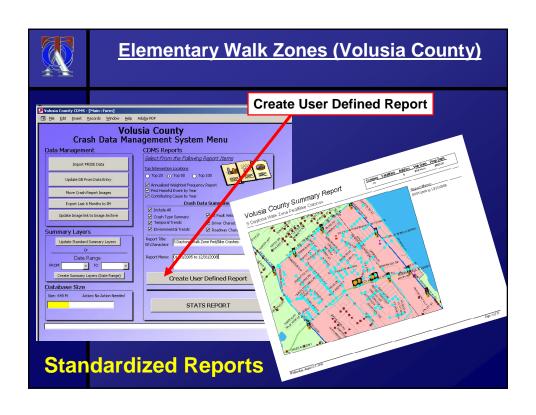


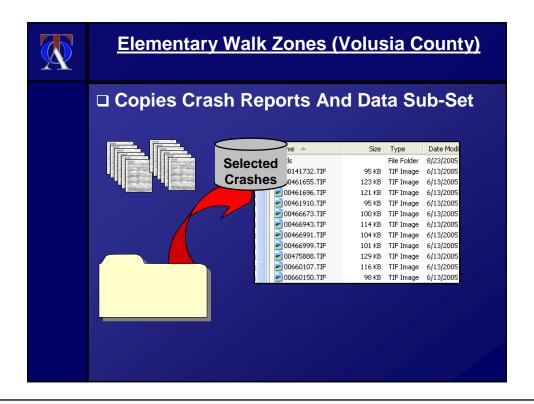


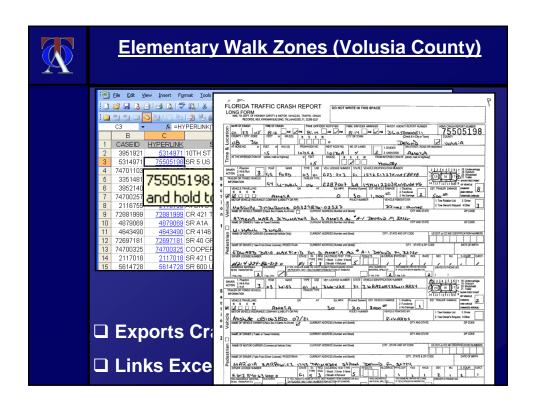


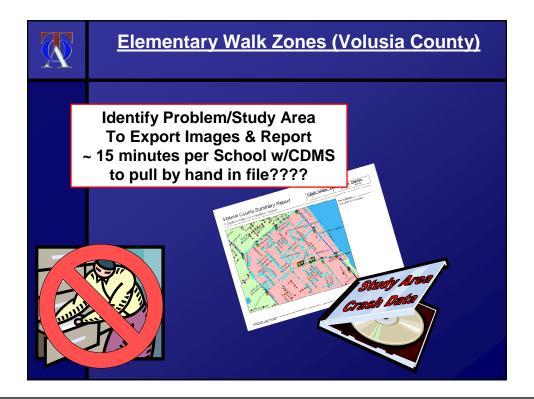














Data Driven Analysis to Projects

Elementary Walk Zones (Volusia County)

SR2S Status:

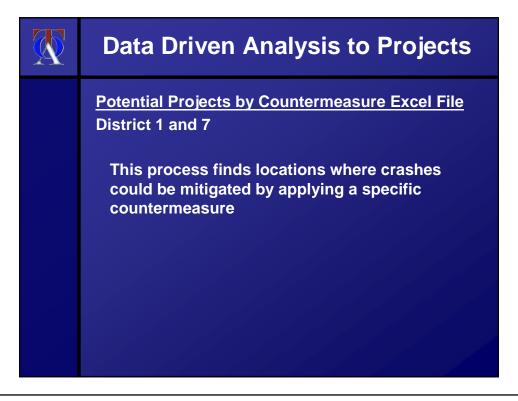
- 9 applications submitted past 3 years
- 3 approved (\$888,725)
- 1 awaiting Feasibility approval

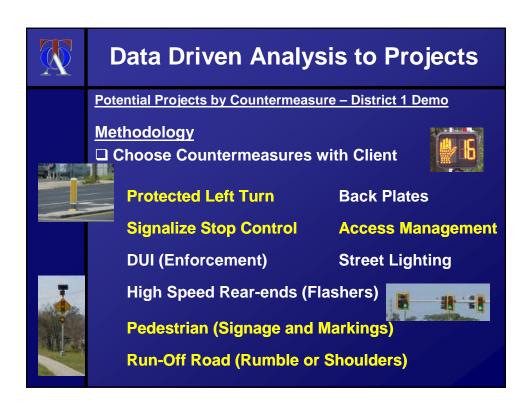


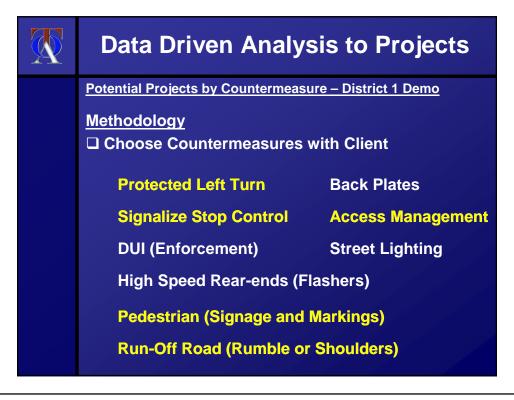
Quick Demonstration

FDOT Formatting With Export Tool











Data Driven Analysis to Projects

Potential Projects by Countermeasure – District 1 Demo

Methodology

☐ Define Crashes that Could be Mitigated for all selected Countermeasures

Protected Left Turn for Example

Traffic Control = 'TRAFFIC SIGNAL'

First Harm = 'ANGLE' OR 'LEFT-TURN'

Site Location = 'AT INTERSECTION'
Vehicle Movement = 'MAKING LEFT TURN'

SQL:

SELECT CASEID FROM Reports_Table WHERE (TRFCONT1 ='TRAFFIC SIGNAL')
AND (FSTHARM1 = 'ANGLE' OR FSTHARM1 = 'LEFT-TURN') AND (SITELOC = 'AT
INTERSECTION') AND (F_VEHMVMT= 'MAKING LEFT TURN' OR N_VEHMVMT =
'MAKING LEFT TURN')

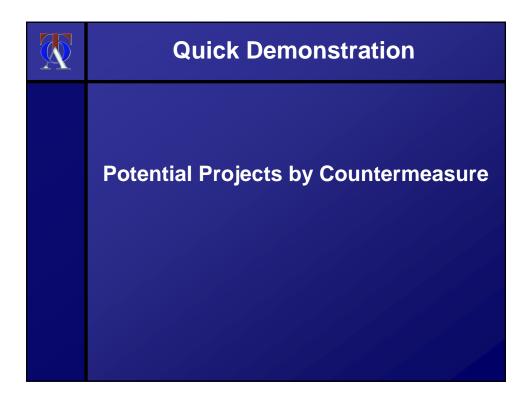


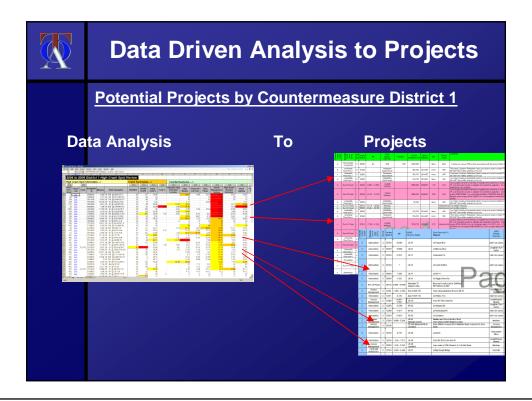
Data Driven Analysis to Projects

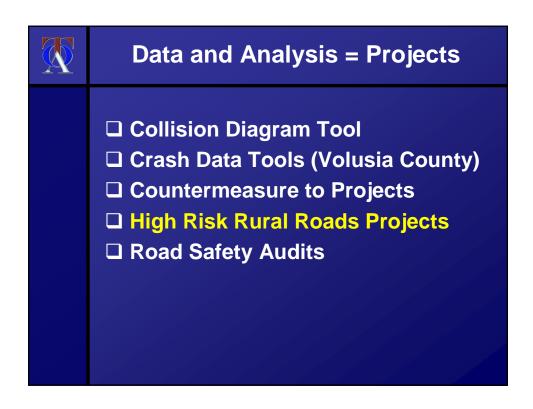
Potential Projects by Countermeasure – District 1 Demo

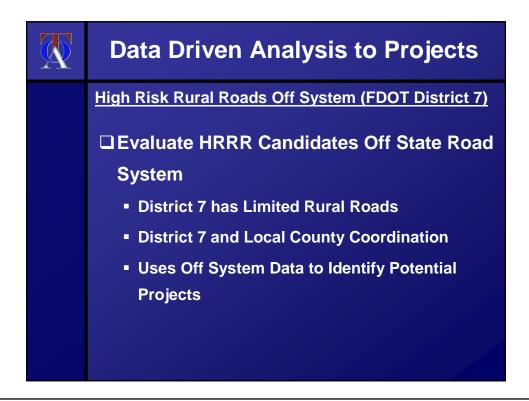
<u>Methodology</u>

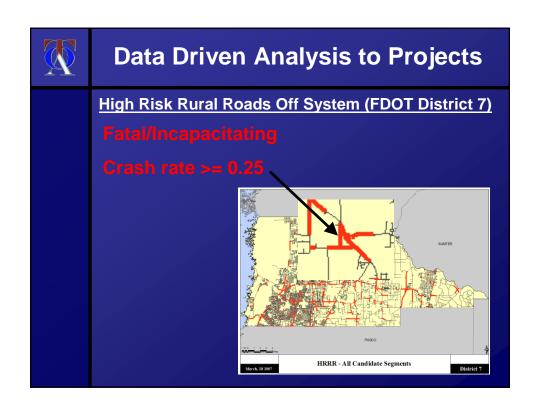
- ☐ Compile/Summarize Crash Data by Intersection
- ☐ Create a Crash Summary Report for Each Location
- ☐ Create User Friendly Deliverable (Macro Excel File)

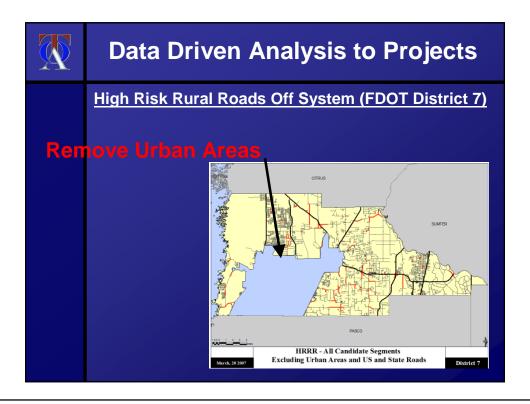


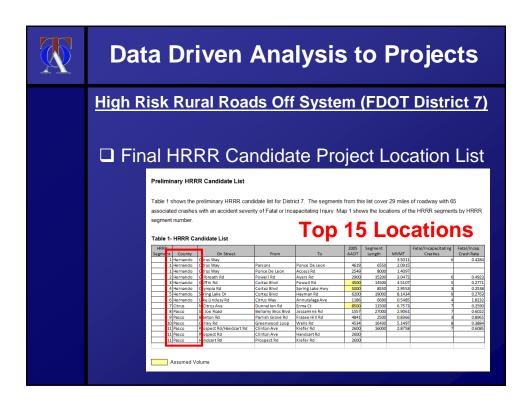


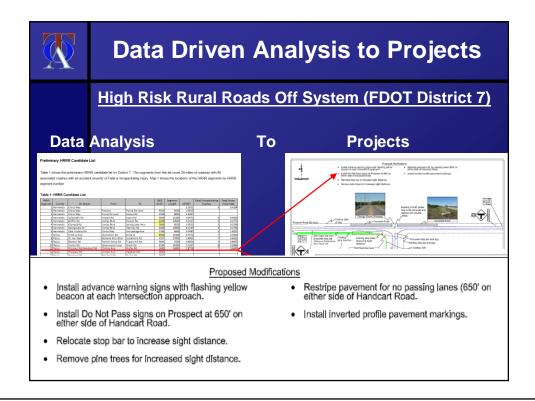




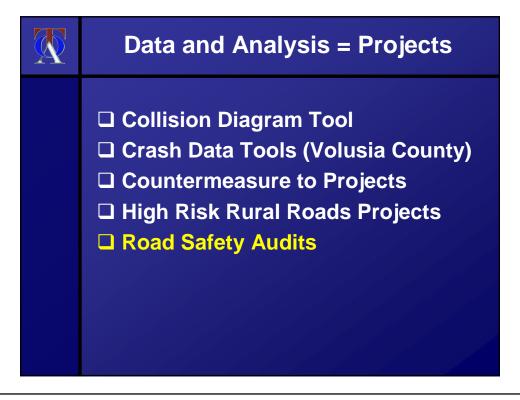




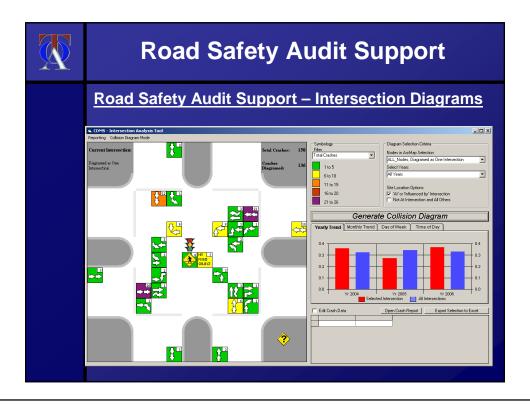




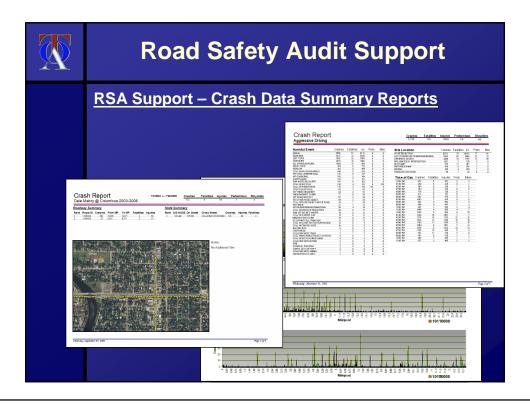


















Thank You

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