What is ERP?

- Enterprise Resource Planning System
- Also Known as

- Basically the Modernization and Integration of the ALL of the State’s Computer Systems, including:
  - Financial Systems
  - Procurement System
  - Human Resources
  - Payroll
  - Transportation Management System
Phased Implementation
Transportation Suite

- Being Developed by AgileAssets
- Includes Systems for:
  - Safety Management
  - Transportation Asset Inventory
  - Right of Way / Utility Management
  - Transportation Operations Management
  - Real Estate / Facilities Management
  - Fleet
AgileAssets® Asset Management Suite

- Comprehensive Transportation Asset Management System
- Modular Framework
- Centered around Core Functionality
What is a Safety Management System?

A Comprehensive Means of Managing Safety – in Our Case…

Highway Safety
Why do we need a Safety Management System?

- Each Year, on the State’s Public Streets & Highways:
  - More than 330 People Die
  - More than 14,000 Additional People Receive Injuries
  - 1,400 of those Injuries are Incapacitating
Why do we need a Safety Management System?

- SAFETEA-LU
  - Made Safety a Core Program
  - Doubled Highway Safety Funding
  - Required the Development of a Strategic Highway Safety Plan

- MAP-21
  - Continued Safety as a Core Program
  - Doubled Highway Safety Funding
  - Streamlined the Highway Safety Improvement Program Process
  - Added Performance Measures & Targets
  - Requires Additional Coordination of Highway Safety Related Plans/Programs
Goals for West Virginia’s Safety Management System

- Ability to Conduct More Comprehensive Safety Analysis than Ever Before
  - Bigger Bang for our Buck
  - Better Analysis of Safety Improvement Effectiveness
- Ability to Conduct Analysis per Highway Safety Manual Recommendations / Guidelines
- Easily Tie “Safety” Data Together with Data from other wvOASIS Modules
  - Transportation Asset Inventory
  - Transportation Operations Management
  - Capital Project Management System (CPMS)
Agile Assets’ Safety Management System

First State Deployment

Features:

- Asset Performance Management
  - Safety Related Database(s)
- Planning Processes
  - Network Analysis
  - Benefit / Cost Analysis
  - Project Analysis / Evaluation
  - Grants Management
Phased Implementation – Phase B
Live as of January 21, 2014

- Safety Related Databases:
  - Crash Records
  - Citations
  - Horizontal & Vertical Curve Data
Phased Implementation – Phase B
Live as of January 21, 2014

Planning Processes:
- Network Analysis
  - Peak Search
- Sliding Window
- Simple Ranking
Phased Implementation – Phase B
Live as of January 21, 2014

Planning Processes:
- Benefit / Cost Analysis
  - Links to the National Crash Modification Factor Clearinghouse
- Project Analysis / Evaluation
  - Profile Viewer
- Heat Maps
- Before & After Snapshots
Heat Maps
Safety Analyst Module:
100% Configurable to the Volume 1 of the Highway Safety Manual
Phased Implementation – Phase B
Live as of January 21, 2014

- Integration with Additional Phase B Functionality
  - Linear Referencing System
  - GIS Mapping Components
  - Transportation Asset Inventory
    - Roadway Inventory
    - Barrier
    - Pavement Markings
    - Signs
    - Ditches
Phased Implementation – Phase E
Go-Live Scheduled for July of 2015

Safety Related Databases:
- EMS Run Data
- State Trauma Registry Data
- DMV Driver Database
  - Licenses
  - Convictions
- DMV Vehicle Registration Database
Phased Implementation – Phase E
Go-Live Scheduled for July of 2015

- Cradle to Grave Project Management Processes with Phases for:
  - Proposed
  - Recommended
  - Scheduled
  - Authorized
  - Completed

- Ability to handle
  - Infrastructure Projects
  - Non-Infrastructure Projects
Phased Implementation – Phase E
Go-Live Scheduled for July of 2015

- Planning Processes:
  - Integration with CPMS
    - Direct Submission of Projects from SMS – “Recommended” Status
    - Receipt of Project Data/Status Updates
      - Scheduling
      - Funding
      - Obligation
  - Additional Project Analysis / Evaluation
Phased Implementation – Phase E
Go-Live Scheduled for July of 2015

- Planning Processes:
  - Grant Management Functionality
    - Used by:
      - Governor’s Highway Safety
      - Commission on Drunk Driving Prevention
  - Allows Electronic Grant:
    - Application
    - Evaluation
    - Awarding
    - Expenditure & Outcome Analysis
Phased Implementation – Phase E
Go-Live Scheduled for July of 2015

- Integration with Additional Phase E Functionality
  - Transportation Asset Inventory
    - 79 Assets in Addition to Phase B, including:
      - Highway Railroad Grade Crossings
      - Construction Projects & History
      - Signals
      - Lighting
      - ITS
      - Full Implementation of All MIRE Data Elements
      - Additional Roadside Features