The WVDOT Planning Process
Agenda

• Planning Division Components
• Statewide Planning
• Components of the Process
• Handoff Points
• Alphabet Soup of Acronyms
Planning Division Components

• Geospatial Transportation Information (GIS)
• Research
• Grants
• Environmental Planning
• Planning
• Design Study
• Visualization
• Traffic Modeling and Analysis
Planning Division Components con’t

• Traffic Counting
• Performance Measures
• Local Public Agency (LPA) Oversight
• State and County Maps
• HPMS submission
Statewide Planning

• Visualization Unit
• Design Study Unit
• Regional Planning Unit
Visualization Unit

- Assists in the Project Development Process
  - Public Involvement
- Landscape Architecture / Site Design
  - Safe Transportation for Every Pedestrian (STEP)
- Photographic Documentation
Visualization Unit

• Assists in the Project Development Process – Public Involvement
Visualization Unit
• Landscape Architecture / Site Design

WVDOH FALLEN WORKER MEMORIAL
- PEA DETAILS:
  - BRIDGE SPANS WILL BE I-70/19 W & OLD MARKET
  - BRIDGE SPANS WILL BE HOLLOW I-70/19 W & OLD MARKET
  - BRIDGE SPANS WILL BE HOLLOW I-70/19 W & OLD MARKET
  - LOW MAINTENANCE TRAILS, BIKES, AND ENCLOSURES
  - BRIDGE DESIGN WILL AVOID WATER EROSION
  - BRIDGE IS LOCATED IN A WAVE FORM CALLED A SAUCER
  - WHITE & YELLOW FLOWERS WILL FACE BICKERING

PLAN VIEW

SOPHIA TOWN PARK

ELKINS RAIL TRAIL CONNECTOR
ALTERNATIVE B-C 1

Planning Division
Visualization Unit

• Photographic Documentation
Design Study Unit

• Preliminary Engineering Studies
• Planning and Environmental Linkage (PEL)
• Grant Engineering Review
• Project Management
• Coal Resource Transportation System (CRTS)
Regional Planning Unit

• Statewide Planning
• Statewide Long Range Transportation Plan (SWLRTP)
• Planning Studies
• MPO Coordination/Oversight
• Bicycle/Pedestrian Coordinator
• Transportation Investment Generating Economic Recovery (TIGER), Infrastructure for Rebuilding America (INFRA), Federal Land Access Program (FLAP), Congestion Mitigation Air Quality (CMAQ)
Coordination Amongst Units

• Grants
  • Environmental Planning Unit
  • Design Study Unit
  • Regional Planning Unit
Coordination Amongst Units

• Design Study Unit
  • Environmental Planning Unit
  • Regional Planning Unit
  • Visualization Unit
  • Traffic Modeling/Analysis Unit
Coordination Amongst Units

- Regional Planning Unit
  - Environmental Planning Unit
  - Design Study Unit
  - Visualization Unit
  - Traffic Modeling/Analysis Unit
Coordination Amongst Units

• Traffic Modeling/Analysis Unit
  • Design Study Unit
  • Visualization Unit
  • Regional Planning Unit
Statewide Long Range Transportation Plan

- Multimodal
- Performance Planning
- Transportation Asset Management Plan (TAMP)
- Performance Measures/Targets
- Revenue Projections
- Historic List of Unfunded Projects
- Trade off Analyses
- Benefit Cost Ratios
Rural vs Urban Planning

- 11 Regional Planning and Development Councils (RPDCs)
- 8 Metropolitan Planning Organizations (MPOs)
Rural

• RPDC have in their Mission to do Transportation Planning
• Small Urban Plans
  • Marion County
  • Raleigh County
  • Harrison County
  • Mercer County
Rural

• Statewide Multimodal Long Range Transportation Plan (SWLRTP)
  • Benefit to Cost (B/C)
  • Mobility
  • Safety
  • All Modes

• Freight Plan
  • National Freight Network
    • Urban and Rural

• Bicycle Connectivity Plan
Urban

• MPOs
  • Federally Mandated to do Transportation Planning in Areas < 50,000
  • Transportation Management Area (TMA) < 200,000
    • Sub Allocation of Funds Surface Transportation Block Grant (STBG) and Transportation Alternative (TA)
  • Unified Work Program (UPWP)
  • Transportation Improvement Program (TIP)
  • Statewide Transportation Improvement Program (STIP)
  • Long Range Transportation Plan (LRTP)
  • Air Quality Conformity
TIP

- Collaboration with State and MPO
- Consistent with LRTP
- Four Years in Duration
- Federally Funded Projects or Regionally Significant
- Groups Small Projects (Small Bridges, Slips, Slides, Paving, RPMs, Guardrails, TA Grants, etc.)
- Air Quality Conformity for Nonattainment or Maintenance Areas
STIP

• Consistent with SWLRTP
• Must Contain Projects in TIPs
• All Other Rural Federal and Regionally Significant Projects
• Fiscal Constraint Kept
• Four Years + Two for Information Purposes
UPWP

• Work Elements for MPOs
• Budget for MPOs
• Reporting Component
• Annual Certifications
LRTP

• Planning for at Least a 20 Year Planning Horizon
• Fiscally Constrained
• Unfunded Need
• Revenue Forecast by WVDOH
• Expansion/Capacity Adding Projects
• Updated Every 4 or 5 Years
LRTP

• Travel Demand Modeling
  • Travel Times
  • Land Use
  • Population and Employment
  • Trip Purpose
  • Roadway Network
  • Conformity Determination
  • Calibration/Validation
What Do WE Do With This Stuff

Transportation Need Identification

LRTP → Modeled → TIP/STIP → AQ Conformity

Constrained Plan → TIP/STIP

Handoff to Engineering Division

Planning Environmental Linkage
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