Agenda

- Introductions
- Plan Purpose
- Plan Approach and Engagement
- Vision, Goals, and Objectives
- Trends and Opportunities
- Next Steps
2050 LRTP
Why Now?

So much has changed since the last plan...

» Federal Transportation Bills: MAP-21 and the FAST Act

» Multiple new transportation initiatives in West Virginia

» Evolution in the interaction of technology and transportation, demographic and economic shifts, and new areas of uncertainty (COVID-19)

» New planning and programming tools, data, and priorities
2050 LRTP
Role of Stakeholder Teams

- **Shape Planning**
  Help set a course for the next 5+ years of planning

- **Keep it Relevant**
  The plan should be consistent with state priorities

- **Leverage Resources**
  Build plan from existing data, tools, and plans

- **Look Forward**
  A forum to address challenges and seize opportunities

- **Share the Story**
  With partners to build awareness and market WV
2050 LRTP
Purpose - Guiding Principles

- Meet Federal requirements and establish best-practices for long-range planning
- Coordinate across WVDOT Divisions to ensure a multimodal plan supporting the movement of people and goods
- Engage stakeholders for policy and technical direction
- Deliver a transparent and accessible planning process for the public

Framework to address the current condition of the multimodal transportation network

Blueprint for future multimodal transportation investments
2050 LRTP
Purpose - Value

BUILDS from prior and current planning and creates a family of interconnected plans

SETS INTO MOTION an implementation process that is realistic and helps meet performance goals

OWNERSHIP by leadership and staff to help maintain organization focus and manage resources

POSITIONS WVDOT to proactively manage internal and external factors

PROVIDES a guide for long-term investment policies, programs, and projects
2050 LRTP
Purpose - Plan Lifecycle

LRTP helps connect the planning – programming – performance cycle

» Long-range plan goals, measures, and needs

» Long-range plan strategies and programs

» Connected to:
  ▪ Strategic planning,
  ▪ Programming, and
  ▪ Performance management
2050 LRTP
Approach – “Family of Plans” for WVDOT

WVDOT Mission, Vision and Goals

Planning
- LRTP
- Safety
- Freight
- Parkways
- Bicycle
- Transit
- Rail
- Aviation
- MPOs

Programming
- LRTP
- STIP
- MPO TIPs

Performance
- LRTP
- Safety
- Asset Management (Highways, Transit)
- Federal Reporting

WVDOT Mission, Vision and Goals
- 2050 LRTP
- Approach – “Family of Plans” for WVDOT
2050 LRTP Approach

1. State of the System
   - Plans and Programs
   - Vision, Goals, Objectives
   - Asset Condition
   - System Performance

2. Trends, Drivers, Opportunities
   - Economics
   - Demographics
   - Funding
   - Technology
   - Environmental

3. Future Needs, Revenues, Priorities
   - Medium & Long-Term Multimodal Needs
   - Revenue Forecasts
   - Program/Project Prioritization

4. Policies, Strategies, Trade-offs
   - Multimodal Priorities
   - Funding
   - Trade-offs
     - Preservation
     - Safety
     - Mobility
     - Reliability

5. Implementation Plan
   - Monitor Progress
   - “Family of Plans”
   - Benefits

Stakeholder and Public Engagement

2050 LRTP Approach

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2050 LRTP
Working Schedule

2020

Phase 1

Phase 2

Phase 3

2021

Round 1

Round 2

Round 3

Phase 4

Phase 5

WVDOT Goal to Complete by June 2021

2050 LRTP
Addresses Federal requirements and documents the LRTP process, recommendations, and prioritized strategies and projects

Implementation
WVDOT approach to put the 2050 LRTP into motion
Ensure that the Plan is transparent and accessible to stakeholders, residents, and businesses and enables input to steer plan outcomes

**STAKEHOLDERS:** Leadership Team & Policy and Technical Team
- Review Plan findings and provide direction
- Ensure the Plan supports WVDOTs mission and WV's economy and quality of life
- Provide insight that helps WVDOT create a comprehensive and implementable Plan
- Foster Plan awareness with Federal, state, regional and local partners

**PUBLIC:** WV Citizens, Businesses, and Interest Groups
- Awareness for all citizens (consistent with public participation laws, guidelines)
- Target hard to reach populations and [Title VI](#) communities
- Ability to review material and provide input
- Transparency into decision making
- Provide a voice
2050 LRTP Engagement

Phase 3

October to January

Virtual

» Listening sessions/workshops for federal, state, and local partners
» Develop project website to provide information, facilitate review of Draft and Final content, surveys/polls
» Stakeholder surveys

Phase 4

February to April

Virtual & In-Person

» Coordinate with MPOs/ RPCs to identify events and locations across the state
» Attend up to 10 events/locations to discuss LRTP, solicit feedback, and answer questions
» Continue to use virtual platforms
2050 LRTP State of the System

WVDOT Role and Partnerships
Mission, organization, family of plans, programs and partnerships

Aviation
Bicycle and Pedestrian
Freight
Highways
Public Transportation

Describe the system, explain why it is important to WV, highlight key performance trends, and share current plans and programs

Each presented through executive summary style fact sheets

Backup with a detailed technical document with reference materials (for stakeholders, technical audiences)

Target completion and posting to website by November
Existing Network
Existing network, facilities, statistics, and general overview

Why is it Important
Support of economic development, quality of life, tourism, health and safety, and/or other observed/potential benefits

Trends
Federal and statewide trends for that mode

Current Plans and Programs
Overview of existing plans and programs in West Virginia

Challenges, Drivers, and Opportunities
Current challenges and opportunities in West Virginia
2050 LRTP Goals – Objectives – Measures

WVDOT Mission
Plan Visions/Goals
Federal Goals/Factors
Peer State Plan Goals

Goals

What Guides Us?

Objectives

How Are We Going to Get There?

Measures

How Are We Going to Make Decisions?

How Are We Going to Track Performance?
System Condition, Efficiency & Fiscal Sustainability
Maintain transportation infrastructure in a state of good repair and manage lifecycle costs, efficiently deliver projects, programs and services, and explore alternative and sustainable funding mechanisms.

Safety and Security for All Users
Reduce transportation fatalities and serious injuries across all modes and improve the safety, security, and resilience of the multimodal transportation network for all users.

Economic Vitality & Freight Movement
Strengthen the ability of communities and industries to access national and international trade markets, retain and grow existing WV statewide and regional economic focus sectors, and support regional economic development that will diversify WV’s economy.

Multimodal Mobility, Reliability & Accessibility
Facilitate multimodal mobility and connections for all users allowing residents and visitors to have modal options for reliable and affordable access to opportunities, including employment, education, health care, and recreation.

Livable & Healthy Communities
Create transportation systems that promote healthy lifestyles, operate efficiently and cleanly, protect the natural environment, and maintain access for residents and visitors to experience WV’s natural and cultural destinations.
Support the **economic vitality** of the United States, the States, metropolitan areas, and nonmetropolitan areas, especially by enabling global competitiveness, productivity, and efficiency;

Increase the **safety and security** of the transportation system for motorized and non-motorized users;

Increase **accessibility and mobility of people and freight**;

Protect and enhance the **environment**, promote **energy conservation**, improve the **quality of life**, and promote consistency between transportation improvements and State and local planned growth and economic development patterns;

Enhance the **integration and connectivity** of the transportation system, across and between modes throughout the State, for **people and freight**;

Promote efficient **system management and operation**;

Emphasize the **preservation** of the existing transportation system;

Improve the **resiliency and reliability** of the transportation system and reduce or mitigate stormwater impacts of surface transportation; and

Enhance **travel and tourism**.

**System Condition, Efficiency & Fiscal Sustainability**

**Safety and Security for All Users**

**Economic Vitality & Freight Movement**

**Multimodal Mobility, Accessibility & Reliability**

**Livable & Healthy Communities**
### 2050 LRTP Draft Goals and Objectives

<table>
<thead>
<tr>
<th>Goal</th>
<th>Objectives</th>
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</thead>
<tbody>
<tr>
<td><strong>System Condition, Efficiency &amp; Fiscal Sustainability</strong></td>
<td>Maintain the existing multimodal transportation system in a state of good repair</td>
</tr>
<tr>
<td></td>
<td>Invest in innovative technologies and efficient program delivery strategies</td>
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<td></td>
<td>Explore new and sustainable revenue options</td>
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<tr>
<td><strong>Safety and Security for All Users</strong></td>
<td>Reduce fatalities and serious injuries on the multimodal transportation system</td>
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<td></td>
<td>Decrease incident clearance time and recovery</td>
</tr>
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<td></td>
<td>Manage a resilient and redundant transportation network</td>
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<tr>
<td><strong>Economic Vitality &amp; Freight Movement</strong></td>
<td>Improve intermodal freight connections</td>
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<tr>
<td></td>
<td>Address bottlenecks and first-mile/last-mile access</td>
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<tr>
<td></td>
<td>Expand access to economic activity centers and emerging industries/clusters</td>
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<tr>
<td><strong>Multimodal Mobility, Accessibility &amp; Reliability</strong></td>
<td>Manage recurring congestion and improve reliability on the highway system</td>
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<tr>
<td></td>
<td>Enhance multimodal transportation accessibility to key destinations and jobs</td>
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<tr>
<td></td>
<td>Create new opportunity for access to key destinations and jobs for underserved or disadvantaged populations</td>
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<tr>
<td><strong>Livable &amp; Healthy Communities</strong></td>
<td>Reduce emissions and mitigate environmental impacts</td>
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<td></td>
<td>Coordinate land use and transportation decisions</td>
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<td></td>
<td>Promote and improve bicycle and pedestrian infrastructure</td>
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</tbody>
</table>
Please rank the five goals by level of importance to you, based on your role at your agency/organization on a scale of 1 to 5 (5 is highest).

1st: System Condition, Efficiency & Fiscal Sustainability
2nd: Safety and Security for All Users
3rd: Economic Vitality & Freight Movement
4th: Multimodal Mobility, Reliability & Accessibility
5th: Livable & Healthy Communities
Please rank the five goals by level of importance to you, as a citizen of West Virginia on a scale of 1 to 5 (5 is highest).

1st: System Condition, Efficiency & Fiscal Sustainability
2nd: Safety and Security for all Users
3rd: Multimodal Mobility, Reliability & Accessibility
4th: Livable & Health Communities
5th: Economic Vitality & Freight Movement
2050 LRTP

Trends, Drivers, Opportunities

» Introduction/Context
Why is this relevant to WV’s transportation and economic future?

» Where Are We Today?
What is WV’s current position relative to our peers and the nation?

» Where Are We Going?
Where might the future take us based on current research and projections, both in WV and through regional and national perspectives?

» Future Direction and Opportunities
How might WV create opportunities from these trends and how can it avoid or mitigate possible risks?
# 2050 LRTP
Trends, Drivers, Opportunities

<table>
<thead>
<tr>
<th>Example Issues</th>
<th>Education</th>
<th>Public Health</th>
<th>Tourism</th>
<th>Resiliency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Demographics</strong></td>
<td>Access to transportation related fields through trade schools</td>
<td>Specialized programs and access for at risk communities, including seniors</td>
<td>Access for all WV resident groups to recreation opportunities</td>
<td>Maintain access to services during disruptions/events</td>
</tr>
<tr>
<td><strong>Economics</strong></td>
<td>Retaining and building a highly skilled, specialized workforce</td>
<td>Transportation access to foster private investment in research and development</td>
<td>Distribution facilities/systems enhancing access to WV products</td>
<td>Diversifying workforce and economy, resilient to market shocks</td>
</tr>
<tr>
<td><strong>Technology</strong></td>
<td>Broadband access, particularly for rural communities, transportation field tech. programs</td>
<td>Support for broader tele-health and UAS technology to support medical supply access</td>
<td>Autonomous shuttles and other technology enhancing access to tourist destinations</td>
<td>Data and transportation information/management system security</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td>Programs fostering awareness/pride in WV resources</td>
<td>Programs and infrastructure that support healthy lifestyles</td>
<td>Preserve and protect natural and cultural resources and recreation destinations</td>
<td>Protect natural and cultural resources through environmental BMPs and resilient systems</td>
</tr>
<tr>
<td><strong>Funding</strong></td>
<td>New workforce education programs for transportation services, maintenance</td>
<td>Pilot programs for transportation and health connections</td>
<td>Support to existing and future programs that promote recreation, tourism</td>
<td>Alternative and more sustainable revenue sources</td>
</tr>
</tbody>
</table>

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Are These Your Top Issues?  What Else?

1. Population Change + More Seniors
   Revenue challenges, more on-demand mobility services

2. Commuting & Travel Pattern Shifts
   Change in peak periods, increase telecommute, higher seasonal travel given more outdoor tourism

3. Public Education
   Access for rural populations, transportation physically links facilities as technology supplements to provide robust training for the next generation transportation workforce

4. Public Health
   Strengthen access to rural healthcare facilities and healthy food, support recreation to promote healthy lifestyles, seamless transportation improves traffic safety
Please score the importance of these four issues to assessing needs and developing strategies for the LRTP on a scale of 1 to 5 (1 lowest, 5 highest).

- Population Decline + More Seniors: 3.3
- Commuting & Travel Pattern Shifts: 3.4
- Access to Quality Public Education: 3.6
- Addressing Public Health Crises: 3.3
Are These Your Top Issues? What Else?

1. **Enhance Job Creation & Development**
   Workforce training, corporate relocations

2. **Support Freight Movement**
   Deliver food & fuels, provide access to resources, strengthen exports & trade, maintain key routes

3. **Access for Emerging & Expanding Industries**
   Chemical/pharmaceutical manufacturing to support healthcare, outdoor tourism, leveraging technology

4. **Diversify energy sources**
   Increase energy resilience, expand access for suppliers and distributors, promote clean sources
Please score the importance of these four issues to assessing needs and developing strategies for the LRTP on a scale of 1 to 5 (5 is highest).

- Enhance Job Creation & Development: 4.3
- Support Freight Movement: 3.3
- Access for Emerging & Expanding Industries: 3.5
- Diversify Energy Sources: 3.4
2050 LRTP Technology

Are These Your Top Issues? What Else?

1. Bridge the Digital Divide
   Implement “Dig Once” policy to facilitate high speed broadband access to underserved communities

2. Expand Partnerships
   Increase coordination with neighbor states, private sector, Appalachian Regional Commission, and universities

3. Internal Awareness
   Coordinate technology decisions which cut across “silos” and leverage agency performance

4. Do Nothing Implications
   Risk of missed opportunities, potential for higher operator and traveler costs
Please score the importance of these four issues to assessing needs and developing strategies for the LRTP on a scale of 1 to 5 (5 is highest).

- Bridge the Digital Divide: 3.9
- Expand Partnerships: 3.4
- Internal Agency Awareness: 3.6
- Do Nothing Implications: 3.1
Are These Your Top Issues? What Else?

1. Prepare for Environmental Resiliency
   Green infrastructure, asset and network vulnerability assessments, stormwater management

2. Operations and Maintenance of Infrastructure
   Asset management principles, innovative materials and operation technologies

3. Increase Environmental Tourism
   Support improved access to natural lands while fostering protection of resources

4. Enable New Technology
   Environmental benefits of electric and alternative fuel vehicles
2050 LRTP

Environment – Poll Results

Please score the importance of these four issues to assessing needs and developing strategies for the LRTP on a scale of 1 to 5 (5 is highest).

- More Important
  - Prepare for Environmental Resiliency: 3
  - Increase Environmental Tourism: 3.3
  - Enable New Green Technology: 3

- Less Important
  - Operations and Maintenance of Infrastructure: 4.1
2050 LRTP
What’s Next: Phase 3 – Phase 4

Future Needs, Revenues, Priorities

Synthesizes Phase 1 and 2 to help compare scenarios of future transportation revenues to multimodal transportation needs statewide and within urban and rural regions through 2050.

Polices, Strategies, Trade-offs

Considers the differences between future transportation revenues and multimodal investment priorities to help WVDOT use existing and new tools to develop portfolios to attain performance goals.
Phase 3 – Synthesis to compare scenarios of future revenues against multimodal needs

**NEEDS**
Define through models, experts, plans, studies

**REVENUES**
Forecast from current investment plans and emerging options

**GAPS**
Mid- and long-term by system, mode, investment type, goal, or objective

**PRIORITIES**
- Short and long term
- Capital and asset related
- Partner candidates
- Decision criteria
- Performance impacts

**TRADE-OFFS**
Performance outcomes driven by multimodal priorities vs. revenue

**PORTFOLIOS**
- Optimized investment levels
- Prioritized pipeline for future STIPs/TIPs

Phase 4 – Identify most critical policies, programs and projects to meet WV transportation goals
2050 LRTP
Next Steps: October-November

- **LRTP website**
- Refine coordination and engagement plan
- Confirm 2050 LRTP goals and objectives
- Share draft and final *State of the System* fact sheets
- Share draft and final *Trends, Drivers, Opportunities* white papers and fact sheets
- Phase 3/Phase 4 startup

Next meeting: Jan/Feb 2021
(Phase 3 outcomes, Phase 4 strategy development)
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