Challenge

• Integrating economic, environmental, and community needs into the delivery of transportation projects requires effective and collaborative decision making.

Solution

• A Web resource that supports systematic, collaborative decision making.
PlanWorks Benefits

• Identify and overcome barriers when plans and projects hit delays.

• Access information about decisions in planning and project development.

• Diagnose barriers and provide strategies for improved collaboration.

• Integrate emerging topics into decision-making.
PlanWorks Based on Real-World Experience

• Compile lessons learned from case studies of successful delivery of 23 large and complex capacity expansion projects from across the United States

• Validate and expand research by engaging experienced professionals in multi-agency workshops (State DOTs, MPOs, FHWA, Federal resource agencies)

Result: Systematic and collaborative approach designed by practitioners for practitioners
Success Factors Identified from Research

1. Collaborate with agency partners and the public
2. Use performance measures and evaluation criteria
3. Structure decision making/use a formal process
4. Integrate transportation decision making with land use and environmental issues
5. Link phases of the transportation decision-making process
6. Manage risks
Tool for Research Dissemination

- Freight
- Expedited Project Delivery
- Economic impacts
- Ecological Approach to Mitigation
- Community Visioning
- Public-Private Partnerships
- Performance Measures
- Greenhouse Gases

“Decisions that stick”
Better informed collaborative decisions
PlanWorks

https://fhwaapps.fhwa.dot.gov/planworks/
What is PlanWorks?

- Web Resource
- Supports Collaborative Decision Making
- Built Around Key Decision Points
  - Long-range Planning
  - Programming
  - Corridor Planning
  - Environmental Review
- Four Major Components
  - Decision Guide
  - Assessments
  - Applications
  - Library
Decision Guide
Key Decisions

Long Range Transportation Planning

Description:
The scoping key decision involves a broad assessment of the data, decisions, and relationships to consider, acquire, or make throughout the entire long range transportation plan (LRTP) process. Decisions made at the scoping key decision in long range planning inform both corridor planning and environmental reviews by establishing the baseline information that will dictate those subsequent processes. This is a key point to form new or acknowledge existing relationships with partners in transportation decision-making and other decision-making processes such as land use, natural environment, human environment, capital improvement, and safety and security.

Basics:
The first table describes the purpose and anticipated outcome of a key decision. If the decision is federally mandated, the purpose and outcome will relate to the legal intent.

The second table describes roles for key partners with legal decision-making authority in the transportation process. The roles indicate the influence a partner can have on a decision, and show each partner where their input is most needed. For a full understanding of roles see the Partner Portal.

Purpose
To develop a common understanding and reach agreement on the LRTP process, including all information relevant to transportation, community, and the environment. This includes stakeholders to engage, roles and responsibilities, tools and data sources to be used, timelines, and public involvement plan.

Outcome
Documented agreement on the LRTP process and its elements, including transportation conformity in nonattainment and maintenance areas. This agreement can be used as a foundation when starting the corridor planning and environmental review processes. Confirmation that the transportation process is in agreement with the larger community plans and programs.

<table>
<thead>
<tr>
<th>Partner</th>
<th>Role Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPO</td>
<td>Decision Maker</td>
<td>Ensures LRTP development that is broadly inclusive and considers both the human and natural environment of the region.</td>
</tr>
<tr>
<td>FHWA/FTA</td>
<td>Advisor</td>
<td>Ensures the process is inclusive and meets federal requirements.</td>
</tr>
</tbody>
</table>
Assessments

Partner Collaboration

When to use this assessment:
Transportation plans and projects are at risk when collaboration is missing or ineffective, but specific barriers are often hard to identify. It is easy to misdiagnose the problem and spend valuable resources on the wrong solution. This assessment is intended to pinpoint where process or team dynamics are not supportive of collaboration.

Before using this assessment consider:
- **Who makes up the team?** Individuals from your agency or partner agencies who participate in decision making.
- **What are the roles of individual team members?** Each team member will participate in the process as an advisor, observer or decision maker.
- **What is the process?** The steps that lead toward a final decision and approval. The steps are usually controlled by requirements or common practice.
- **What is the existing situation?** The current planning process which includes past experiences or pre-existing relationships that may affect how team members engage.

Stakeholder Collaboration

When to use this assessment:
This assessment reflects the viewpoint of those who do not have decision making authority, but clearly have an interest in the outcome. It is useful for a transportation practitioner hoping to improve stakeholder collaboration or as a self-assessment by stakeholders who want to increase their understanding and improve their ability to communicate effectively.

Before using this assessment consider:
- **Who is a stakeholder?** Anyone with an interest in the outcome of the transportation decision including governmental agencies, non-governmental organizations, community groups and private citizens.
- **Who is already at the table? Who needs to be at the table? Who is missing?** Ensuring that those stakeholders who want to be at the table and those that need to be at the table are identified and engaged.
- **What is the process?** Stakeholders may have different contributions in the development of transportation plans or improvement projects.
- **What is the existing situation?** Past experiences or pre-existing relationships that may affect how stakeholders engage and participate.

Expediting Project Delivery

When to use this assessment:
The goal of transportation agencies is to conduct an efficient planning and project development process without sacrificing broad-based support for the outcome. There are many constraints to streamlined project delivery, and this assessment helps identify those that are present or may be anticipated. Corresponding strategies are provided to help overcome these constraints.

Before using this assessment consider:
- **When should the assessment be taken?** This assessment is useful before a project begins to identity potential challenges or during an active project to diagnose issues.
- **Who makes up the team?** These are individuals from your agency or partner agencies who participate in decision making.
- **What are the roles of individual team members?** Each team member will participate in the process as an advisor, observer or decision maker.
- **What is the existing situation?** Past experiences or pre-existing relationships that may affect how team members and stakeholders engage.
Assessments (continued)
Applications

- Public-Private Partnerships
- Linking MPO Planning and NEPA
- Performance Measures
- Stakeholder Collaboration
- Visioning and Transportation
- Land Use and Smart Growth
- Natural Environment and Integrating Eco-Logical
- Safety and Security
- Economic Development
- Freight
- Streamlining a Bottleneck Project
- Linking Planning and Operations
- Air Quality Conformity
- Capital Improvement
- Human Environment
- Greenhouse Gas
Applications
Freight
Visioning

Visioning Components
- Reaching Stakeholders
- Considering Communities
- Forming Partnerships
- Tracking Commitments

Vision Guide
Preparation
- Why are we doing this?
- What has been done?
- What is important?
- What are our resources?
- Who will we involve?
- What is our approach?
- Approve Scope

Creation
- Where are we now?
- Where are we going?
- Approve Goals
- Where do we want to be?
- How will we get there?
- Adopt Future(s)

Implementation
- How will we realize our vision?
- How will we stay on track?
- Approve Indicators and Commitments
- What have we accomplished?
- How will we maintain our vision?
- Adopt Update Process
Performance Measures

Performance Measure Checklist

This Measures Checklist lists all of the factors and measures included in the web tool. Checked boxes indicate those measures and factors that you have selected for inclusion in a report. The measures you have selected on the factor pages are indicated here, and changes you make to this page will show up on other pages (i.e., if you select the mobility factor, measures included in that factor will be selected when you visit the Mobility page).

The View Report allows you to view or print a report containing your selections, when printed, all the collapsed information will be shown during export.

If you select the 'Include all Case Studies' box, case studies for the selected measures and relevant factors will be included at the end of the report.

因素 | 指标
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#### 运输
- **Mobility**
  - Reduce Recurring Congestion - Improves Travel Time
  - Reduce Delay
  - Trip Travel Time
  - Travel Time Index
  - Volume to Capacity Ratio
  - Level of Service
  - Reduce Traffic Volume
  - Vehicle Miles Travelled
  - Mode Share
- **Reliability**
  - Reduce Non-Recurring Congestion
  - Travel Time Reliability (Buffer) Index
  - On-Time Trip Reliability
  - Throughput Efficiency
  - Incident Duration
  - Crash Analysis
- **Accessibility**
  - Provide residents access to regional centers
  - Job Accessibility
  - Destination Accessibility
  - Provide businesses access to market resources
  - Labor Force Accessibility
  - Market Accessibility
  - Improve or maintain transportation equity
  - Environmental Justice Accessibility Impact
- **Safety**
  - Improve Safety
- **Ecosystem, Biodiversity, and...**
  - Maintain or improve ecological functions of potentially affected ecosystems or habitat areas
  - Loss of Habitats
  - Natural Resource Plan Consistency

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环境
Tools Menu
How Do I Get Started?

How do I get started?

Please answer a few questions to help us guide you to the information most applicable to your needs.
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Visit: https://fhwaapps.fhwa.dot.gov/planworks/Home

SHRP2 website  
http://www.fhwa.dot.gov/goshrp2/