



PlanWorks

Better planning. Better projects.

Association of Metropolitan Planning Organizations
October 2015

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U.S. Department of Transportation
Federal Highway Administration



SHRP2 SOLUTIONS
TOOLS FOR THE ROAD AHEAD

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

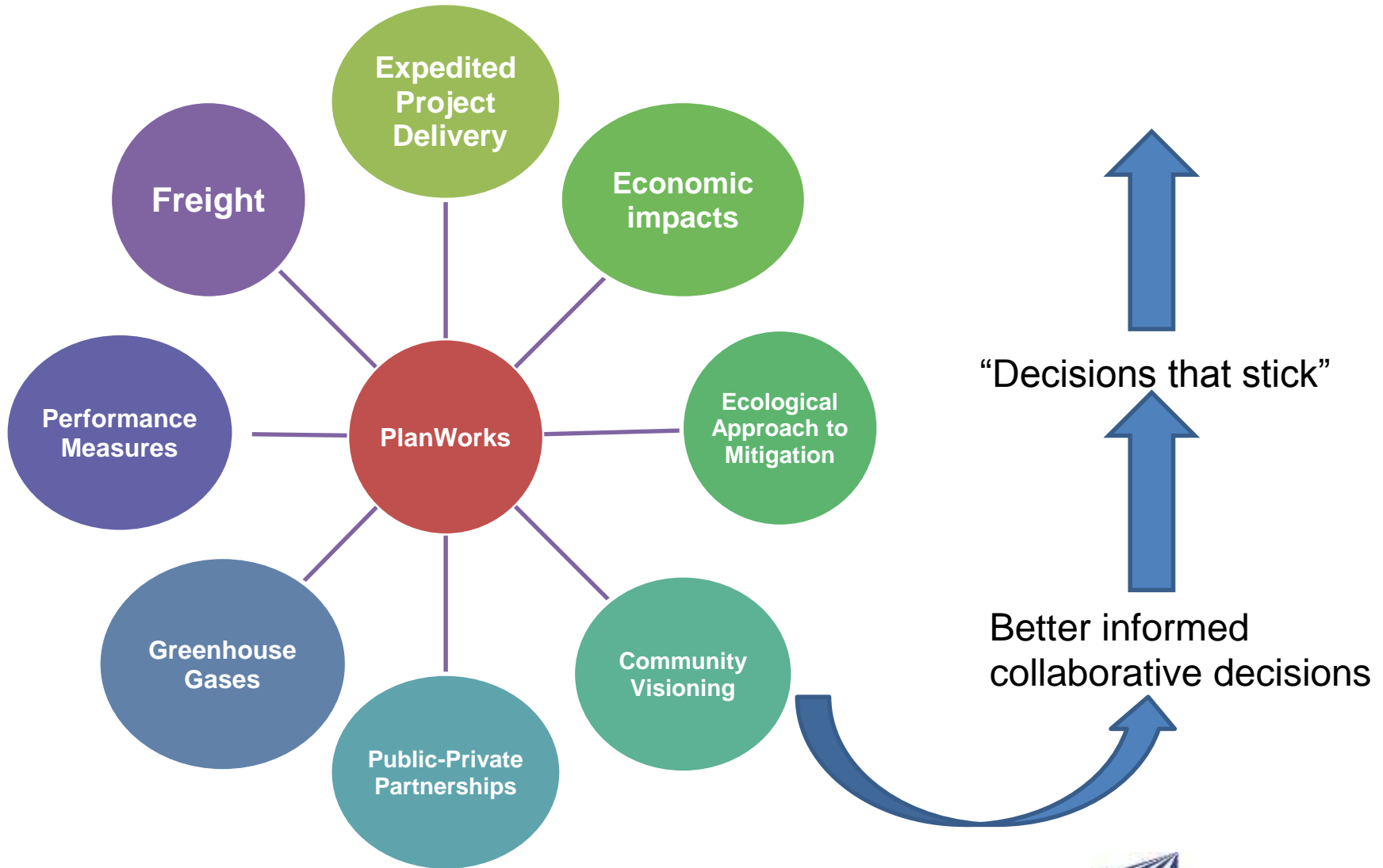


Success Factors Identified from Research

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



PlanWorks

The screenshot shows the PlanWorks website interface. At the top, there is a dark blue header with the U.S. Department of Transportation Federal Highway Administration logo and navigation links: About, Programs, Resources, Briefing Room, Contact, and Search FHWA. Social media icons for Facebook, Twitter, YouTube, and LinkedIn are also present. Below the header is a large banner image of a winding road through a mountainous landscape. The PlanWorks logo, featuring a stylized green leaf and the text "PlanWorks Better planning. Better projects.", is positioned in the top right of the banner. Below the banner is a navigation bar with green buttons for Home, Decision Guide, Assessment, User Portals, Applications, Library, and Glossary. The main content area is divided into three columns. The first column, titled "Decision Guide", contains three items: "Long Range Transportation Planning" with a road icon, "Programming" with a document icon, and "Corridor Planning" with a road icon. The second column, titled "Applications", features a large green "P3" icon with an arrow pointing to a circular graphic containing four smaller icons: a road, a dollar sign, a leaf, and a recycling symbol. The third column, titled "How do I get started?", contains the text "Please answer a few questions to help us guide you to the information most applicable to your needs." and a green "Go »" button. At the bottom of the page, there is a URL and the SHRP2 SOLUTIONS logo.

U.S. Department of Transportation
Federal Highway Administration

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PlanWorks
Better planning. Better projects.

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Decision Guide

- Long Range Transportation Planning
- Programming
- Corridor Planning

Applications

P3

How do I get started?

Please answer a few questions to help us guide you to the information most applicable to your needs.

Go »

<https://fhwaapps.fhwa.dot.gov/planworks/>

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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

Long Range Transportation Planning

| | | | | | | | | | |
|-----------------------------------------|-----------------------------------|------------------------------------------------------------|----------------------------------------------|----------------------------------------|-----------------------------|---------------------------------|----------------------------------------|-----------------------------------------------|----------------------|
| LRP-1 Approve Scope of LRTP Process | LRP-2 Approve Vision and Goals | LRP-3 Approve Evaluation Criteria, Methods and Measures | LRP-4 Approve Transportation Alternatives | LRP-5 Approve Financial Assumptions | LRP-6 Approve Strategies | LRP-7 Approve Plan Scenarios | LRP-8 Adopt Preferred Plan Scenario | LRP-9 Make Conformity Determination by MPO | LRP-10 Adopt LRTP |
| LRP-11 Make Conformity Determination | | | | | | | | | |

Programming

| | | | | | | | | |
|---------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------|----------------------------|---------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------|
| PRO-1 Approve Revenue Source | PRO-2 Approve Methodology for Identifying Project Costs and Criteria for Allocating Revenue | PRO-3 Approve Process for Review from Adopted Plan Scenario or Solution Set | PRO-4 Approve Project Prioritization | PRO-5 Rank Scenarios on Draft LRTP | PRO-6 Adopt LRTP by MPO | PRO-7 Approve LRTP Consistent with Incorporation into Draft LRTP | PRO-8 Rank Scenarios on Draft LRTP | PRO-9 Approve LRTP with respect to Local Constraints |
|---------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------|----------------------------|---------------------------------------------------------------------|---------------------------------------|---------------------------------------------------------|

Corridor Planning

| | | | | | | | | |
|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------|
| CRP-1 Approve Scope of Corridor Planning Process | CRP-2 Approve Problem Statement and Objectives | CRP-3 Approve Goals for the Corridor | CRP-4 Rank Scenarios on Scope of Environmental Review and Analysis | CRP-5 Approve Evaluation Criteria, Methods and Measures | CRP-6 Approve Range of Solution Sets | CRP-7 Adopt Preferred Solution Set | CRP-8 Approve Evaluation Criteria, Methods and Measures for Identification of Impacts | CRP-9 Adopt Strategy for Implementation |
|-----------------------------------------------------|---------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------|---------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------|

Environmental Review/NEPA Merged with Permitting

| | | | | | | | | | |
|----------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------|-------------------------------------------------------------------------|---------------------------------------------|--------------------------------------------------|-------------------------------------------------------|------------------------------------------------|----------------------------------------------|
| ENV-1 Rank Scenarios on Scope of Environmental Review | ENV-2 Approve Scope of Intent | ENV-3 Approve Purpose and Need/Reach Consistent with Project Purpose | ENV-4 Rank Scenarios on Study Area | ENV-5 Approve Evaluation Criteria, Methods and Measures | ENV-6 Approve Full Range of Alternatives | ENV-7 Rank Alternatives to be Carried Forward | ENV-8 Approve Final EIS with Conceptual Mitigation | ENV-9 Approve Resource Agency Public Notice | ENV-10 Approve Preferred Alternative LRTP |
| ENV-11 Approve Final Administrative Determination | ENV-12 Rank Scenarios on Accessibility and Mitigation for the LRTP | ENV-13 Approve Final EIS | ENV-14 Approve the Record of Decision | ENV-15 Rank Permit Decision and Approve Accessibility and Mitigation | | | | | |

Decision Guide

 Long Range Transportation Planning

 Programming

 Corridor Planning

 Environmental Review/NEPA Merged with Permitting

Key Decisions

- Home
- Decision Guide
- Assessment
- User Portals
- Applications
- Library
- Glossary

Home / Decision Guide / LRP-1: Approve Scope of LRTP Process

Long Range Transportation Planning

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- 11

- Overview
- Policy Questions
- Stakeholder Inputs
- Data
- Links to Decisions
- Examples
- Integrated Planning
- Special Topics

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 review 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, timeframes, 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.

| Partner | Role Type | Description |
|----------|----------------|------------------------------------------------------------------------------------------------------------------------|
| MPO | Decision Maker | Ensures LRTP development that is broadly inclusive and considers both the human and natural environment of the region. |
| FHWA/FTA | Advisor | Ensures the process is inclusive and meets federal requirements. |

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.

[Go to Assessment](#)

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.

[Go to Assessment](#)

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 identify 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.

[Go to Assessment](#)

Assessments (continued)

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Home / Assessment / Expediting Project Delivery

Expediting Project Delivery

Please respond to the following statements based on your current situation. The assessment takes only a few minutes, and you can skip any section. Once finished, click **View Result** tab to see the summary report with your results and all strategies are available there.

To take the assessment offline as an individual or as a group, download the **Assessment Statements**   .

Assessment **View Result**

View Result

Reset Assessment

Avoiding Policy Decisions Through Continual Analysis ³

| | Disagree | Mildly Agree | Moderately Agree | Strongly Agree | N/A |
|-------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|
| Project decisions are delayed or protracted due to unexpected requests for additional analysis or for more information. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

Conflicting Resource Values ³

| | Disagree | Mildly Agree | Moderately Agree | Strongly Agree | N/A |
|-------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|
| Conflicts between resource values and/or between the advocates for those resources delay project decision-making. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

Difficulty Agreeing on Impacts/Mitigation ³

| | Disagree | Mildly Agree | Moderately Agree | Strongly Agree | N/A |
|-------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------------------|
| Stakeholders are critical of the project's adverse effects. | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input type="radio"/> | <input checked="" type="radio"/> |

Applications

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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

Greenhouse Gas

Overview

The GHG Technical Process

The Decision Guide and GHG Planning

Examples from Practice

The transportation Decision Guide is a framework of key decisions required by law or regulation or which have become part of successful practice. These decisions require action by those empowered to make the final decisions about plan adoption, funding priorities or project implementation. Technical information is used at each of these key decisions to inform decision-makers. Technical steps and key decisions are related through the flow of data and analysis.

To understand how the GHG technical process relates to transportation decision making, click on the steps below. Hover over individual key decisions for a snapshot of this relationship. Key decisions that are greyed-out have no specific relationship to greenhouse gas.

Reference Links

- [Estimating GHG Emissions from Travel Efficiency Strategies](#), US EPA
- [Local Government Operations Protocol](#), ICLEI
- [Urban Transportation Emission Calculator](#), Transport Canada
- [GHG Analysis Techniques for Transportation Projects](#), AASHTO

Greenhouse Gas Technical Process Steps

Collect Information

Define Goals and Measures

Identify Options

Evaluate Options

Select Preferred Option

The Full Decision Guide ▼

Long Range Transportation Planning

| | | | | | | | | |
|--------------------------------------|-------------------------------------------|------------------------------------------------|---------------------------------------------|------------------------------|--------------------------|-------------------------------|--------------------------------------|--------------------------------------|
| LTP-1 Assess Regional LTP Process | LTP-2 Assess/Define Goals and Measures | LTP-3 Assess/Identify Options (MPO/ATA/MSB) | LTP-4 Assess/Transportation Alternatives | LTP-5 Assess/Plan/Measure | LTP-6 Assess/Strategy | LTP-7 Assess/Plan/Estimate | LTP-8 Assess/Reduce/Plan/Estimate | LTP-9 State/Develop/Calculate/MSB |
| LTP-10 Assess/Estimate GHG | LTP-11 State/Estimate/Calculate/MSB | | | | | | | |

Programming

| | | | | | | | | |
|----------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| PRG-1 Assess/Program/Estimate | PRG-2 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | PRG-3 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | PRG-4 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | PRG-5 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | PRG-6 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | PRG-7 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | PRG-8 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | PRG-9 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB |
|----------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|

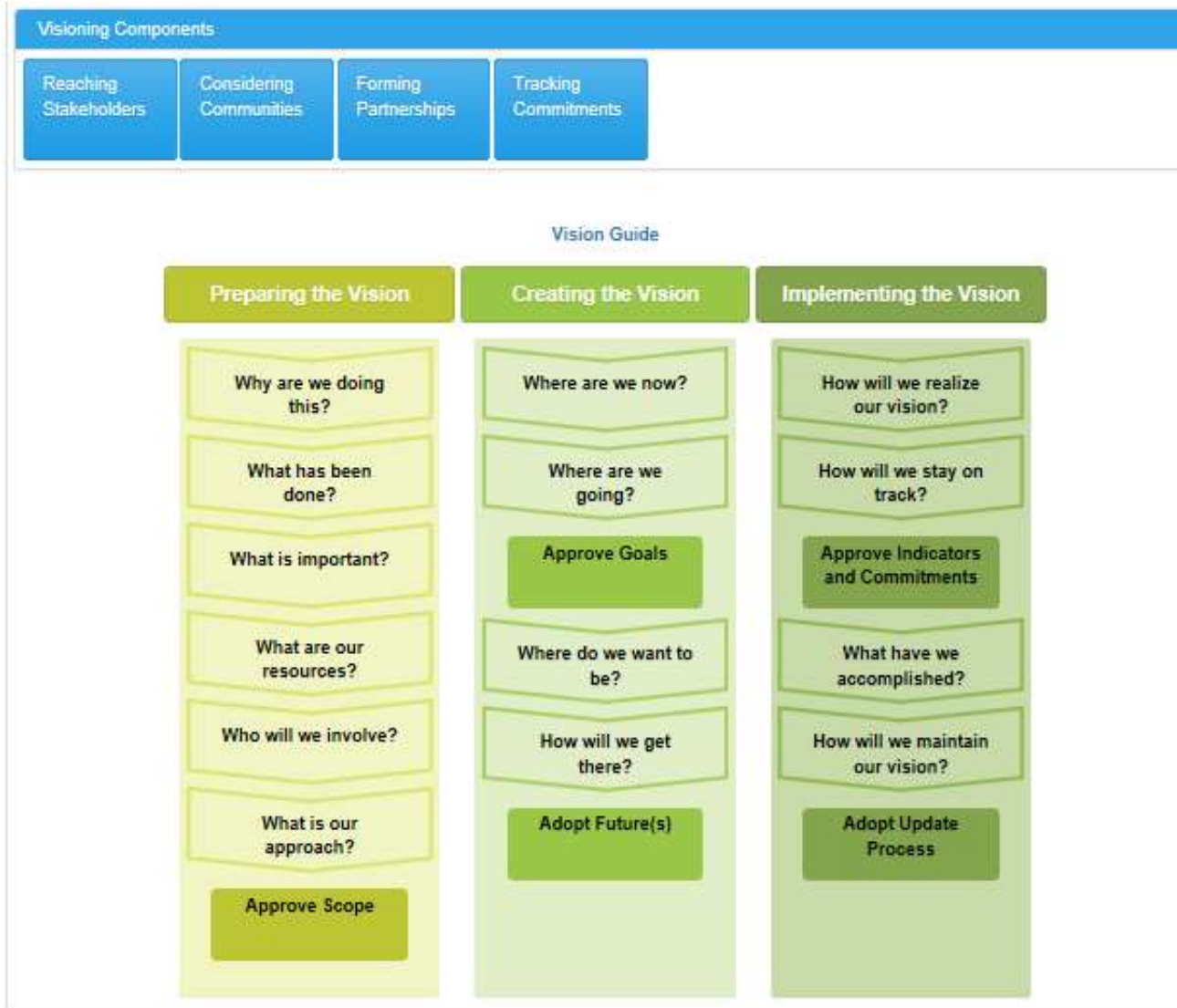
Comprehensive Planning

| | | | | | | | | |
|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|
| CMP-1 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | CMP-2 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | CMP-3 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | CMP-4 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | CMP-5 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | CMP-6 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | CMP-7 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | CMP-8 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB | CMP-9 Assess/Program/Estimate/Reduce/Program/Estimate/Calculate/MSB |
|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|

Freight

| Long Range Transportation Planning | | | | | | | | | |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------------------|--|
| LRP-1 Approve Scope of LRTP Process | LRP-2 Approve Vision and Goals | LRP-3 Approve Evaluation Criteria, Methods and Measures | LRP-4 Approve Transportation Outlook/Issues | LRP-5 Approve Financial Scenarios | LRP-6 Approve Strategies | LRP-7 Approve Plan Scenarios | LRP-8 Approve Selected Plan Scenarios | LRP-9 Make Corridor Determination by WPC | |
| LRP-10 Approve LRTP by WPC | LRP-11 Make Corridor Determination | | | | | | | | |
| Programming | | | | | | | | | |
| PBD-1 Approve Revenue Sources | PBD-2 Approve Methodology for Identifying Critical Needs and Criteria for Identifying Scenarios | PBD-3 Approve Check List/Down List Allocated Plan Scenarios for Solution Set | PBD-4 Approve Program Constraints | PBD-5 Seek Consensus on Draft LRTP | PBD-6 Adopt LRTP by WPC | PBD-7 Approve LRTP by Governor and Legislature into Draft LRTP | PBD-8 Seek Consensus on Draft LRTP | PBD-9 Approve LRTP with Associated Final Corridor | |
| Corridor Planning | | | | | | | | | |
| COR-1 Approve Scope of Corridor Planning Process | COR-2 Approve Problem Statements and Objectives | COR-3 Approve Goals for the Corridor | COR-4 Seek Consensus on Scope of Environmental Issues and Analysis | COR-5 Approve Evaluation Criteria, Methods and Measures | COR-6 Approve Range of Solution Sets | COR-7 Adopt Preferred Solution Set | COR-8 Approve Evaluation Criteria, Methods and Measures for Identification of Projects | COR-9 Adopt Priorities for Implementation | |
| Environmental Review/NEPA Merged with Permitting | | | | | | | | | |
| ENV-1 Seek Consensus on Scope of Environmental Review | ENV-2 Approve Work of Plans | ENV-3 Approve Purpose and Needs/Needs Consensus on Project Purpose | ENV-4 Seek Consensus on Study Area | ENV-5 Approve Evaluation Criteria, Methods and Measures | ENV-6 Approve Full Range of Alternatives | ENV-7 Approve Alternatives to be Carried Forward | ENV-8 Approve Draft EIS with Conceptual Mitigation | ENV-9 Approve Response Agency Public Notice | |
| ENV-10 Approve Preferred Alternative / CCPA | ENV-11 Approve Final Administrative Determination | ENV-12 Seek Consensus on Avoidance and Mitigation for the EIS/EA | ENV-13 Approve Final EIS | ENV-14 Approve the Record of Decision | ENV-15 Render Record Decision and Approve Avoidance and Mitigation | | | | |

Visioning



Performance Measures

Overview

Performance Measures and the Decision Guide

Diagnostic Tool

Measure Checklist

Transportation

Environmental

Economic

Community

Cost

Project Development Stages

About this Resource

Performance Measure Checklist

Please do not use your browser's back button to navigate between the factor pages, Diagnostic Tool, View Report, and Measures Checklist links as this does not always work correctly on all browsers. Instead please click on the desired link in page. Also please don't close window when you working on Diagnostic Tool or Measures Checklist, otherwise the checked information in measures checklist will be lost.

This **Measures Checklist** lists all of the factors and measures included in the webtool. 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 print, 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.

Measures Checklist
[View Report](#)

Include all Case Studies

Check All | Uncheck All (Check factor will include factor description in report)

| Factor | Measure |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Transportation | |
| <input type="checkbox"/> Mobility | <ul style="list-style-type: none"> • Reduce Recurring Congestion - Improve Travel Time <ul style="list-style-type: none"> <input type="checkbox"/> Recurring Delay <input type="checkbox"/> Trip Travel Time <input type="checkbox"/> Travel Time Index <input type="checkbox"/> Volume to Capacity Ratio <input type="checkbox"/> Level of Service • Reduce Traffic Volume <ul style="list-style-type: none"> <input type="checkbox"/> Vehicle Miles Traveled <input type="checkbox"/> Mode Share |
| <input type="checkbox"/> Reliability | <ul style="list-style-type: none"> • Reduce Non-Recurring Congestion <ul style="list-style-type: none"> <input type="checkbox"/> Travel Time Reliability (Buffer) Index <input type="checkbox"/> On-Time Trip Reliability <input type="checkbox"/> Throughput Efficiency <input type="checkbox"/> Incident Duration <input type="checkbox"/> Crash Analysis |
| <input type="checkbox"/> Accessibility | <ul style="list-style-type: none"> • Provide residents access to regional centers <ul style="list-style-type: none"> <input type="checkbox"/> Job Accessibility <input type="checkbox"/> Destination Accessibility • Provide businesses access to market resources <ul style="list-style-type: none"> <input type="checkbox"/> Labor Force Accessibility <input type="checkbox"/> Market Accessibility • Improve or maintain transportation equity <ul style="list-style-type: none"> <input type="checkbox"/> Environmental Justice Accessibility Impact |
| <input type="checkbox"/> Safety | <ul style="list-style-type: none"> • Improve Safety <ul style="list-style-type: none"> <input type="checkbox"/> Crash Rate <input type="checkbox"/> Crashes |
| Environmental | |
| <input type="checkbox"/> Ecosystem, Biodiversity, and | <ul style="list-style-type: none"> • Maintain or improve ecological functions of potentially affected ecosystems or habitat areas <ul style="list-style-type: none"> <input type="checkbox"/> Loss of Habitats <input type="checkbox"/> Natural Resource Plan Consistency |

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- I-710 Corridor Study - Community-driven Plan for Important Freight Corridor California 
- Route 31 Integrated Land Use and Transportation Plan - Capacity Expansion Consistent with Smart Growth New Jersey 
- Kelly Parkway Planning and NEPA Studies - Balancing Environmental Justice and Economic Development Texas 

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- Greenhouse Gases 3
- Land Use 3
- Livability 2
 - PlaceFit Community Characteristics Database
The PlaceFit Tool provides access to a variety of existing websites based on livability characteristics that may appeal to different lifestyle choices. This investigative tool can help identify communities with various characteristics or for comparing how communities compares to others.
 - Location Affordability Portal
Housing and transportation costs combine to take up almost half of the average household's budget. While housing expenditures are usually easy to determine, transportation costs are much less transparent. The Location Affordability Portal seeks to bridge that information gap in order to help consumers, researchers, and policymakers better understand the impact of transportation costs on affordability.
- Sustainability 1

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.

Go »



For More Information

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Visit: <https://fhwaapps.fhwa.dot.gov/planworks/Home>

SHRP2 website

<http://www.fhwa.dot.gov/goshrp2/>