ATLANTA REGION
PLAN 2040

# A PERFORMANCE-BASED APPROACH TO PLAN DEVELOPMENT AND IMPLEMENTATION

ARC
ATLANTA REGIONAL COMMISSION

Presentation Outline

- PLAN 2040 Overview

- Developing The Regional Agenda

- Creating the Regional Transportation Plan

- Managing the Regional Transportation Plan

PLAN 2040 Overview

- Integrated Regional Transportation Plan (RTP) and regional comprehensive plan

- Coordinated investment strategies to address
  - Transportation
  - Environment
  - Land Use
  - Economy
  - Aging
  - Housing

- Complimentary technical framework for RTP development and management
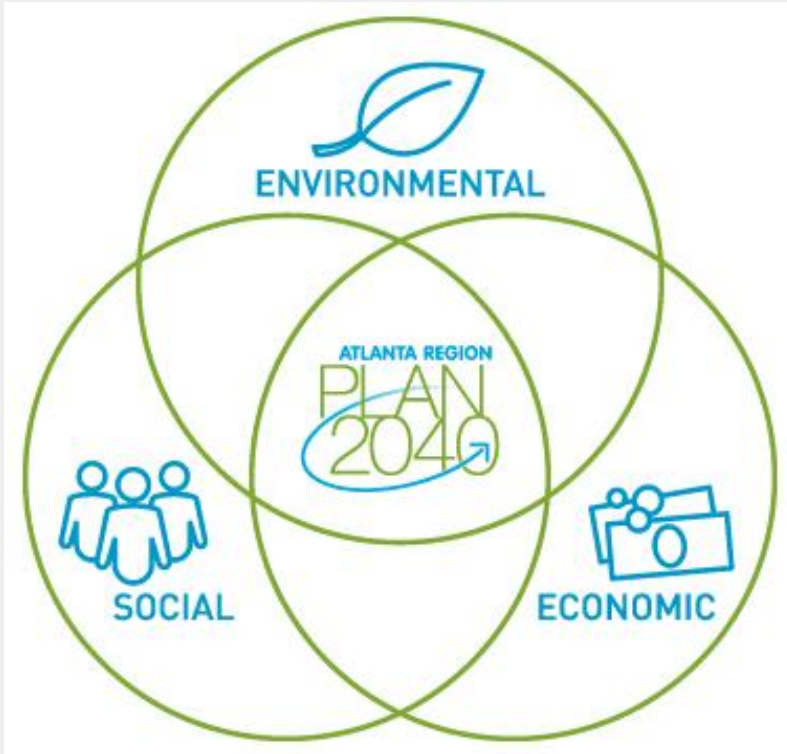
Visionary leadership for sustainable growth by balancing environmental responsibility, economic growth, and social needs while maximizing benefits to all

PLAN 2040 Vision

Lead as the global gateway to the South

Encouraging healthy communities

Expand access to community resources

DEVELOPING THE REGIONAL AGENDA

Regional Agenda

- Required by Georgia DCA

- Process for defining strategies that influence regional growth and development

- Foundation for PLAN 2040
  - Increased awareness of how land use is linked to transportation system performance in Atlanta
  - Understanding of land use characteristics that improve travel conditions and create positive environment for living, working, and traveling in region

Regional Agenda
Regional Assessment

- Key input into development of PLAN 2040 Vision

- Identified critical findings to frame needs of the region

- Informed more detailed scenario analysis
  - Impact of various growth patterns on system performance

PLAN 2040
FRAMEWORK
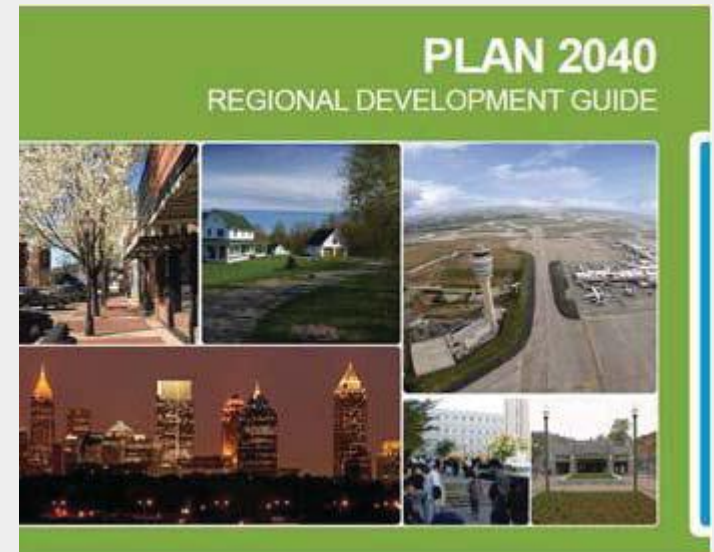
Regional Agenda
Regional Assessment (continued)

- ## Shaped PLAN 2040 Goals and Objectives
  - – Articulate desired outcomes
  - – Organizing principles for plan development

Vision
Visionary leadership for sustainable growth by balancing environmental responsibility, economic growth, and social needs while maximizing benefits to all

Goals
Goal #1: **Lead as the Global Gateway to the South (addressing the economy)**

Goal #2: **Encourage Healthy Communities (addressing the environment)**

Goal #3: **Expand Access to Community Resources (addressing social needs)**

Objectives
- **Increase mobility options for people and goods**
- **Foster a healthy, educated, well-trained, safe, and secure population**
- **Promote places to live with easy access to jobs and services**
- **Improve energy efficiency while preserving the region's environment**
- **Identify innovative approaches to economic recovery and long-term prosperity**

Regional Agenda
## Regional Development Map and Guide

- Unified Growth Policy Map (UGPM) to address growth
  - Areas – predominant land use patterns
  - Places – concentrated uses, greater detail within Areas

- Guide to define narrative and detail for UGPM Areas and Places

PLAN 2040
REGIONAL DEVELOPMENT GUIDE

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Regional Agenda
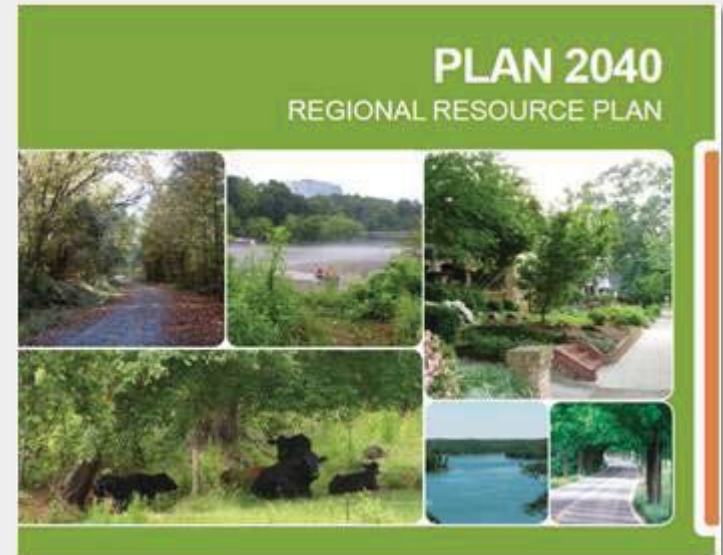## Regional Development Map and Guide
(continued)

- Provided regional growth strategy critical for developing RTP
  - Evaluation of transportation investments
  - Identification/ enhancement of transportation programs
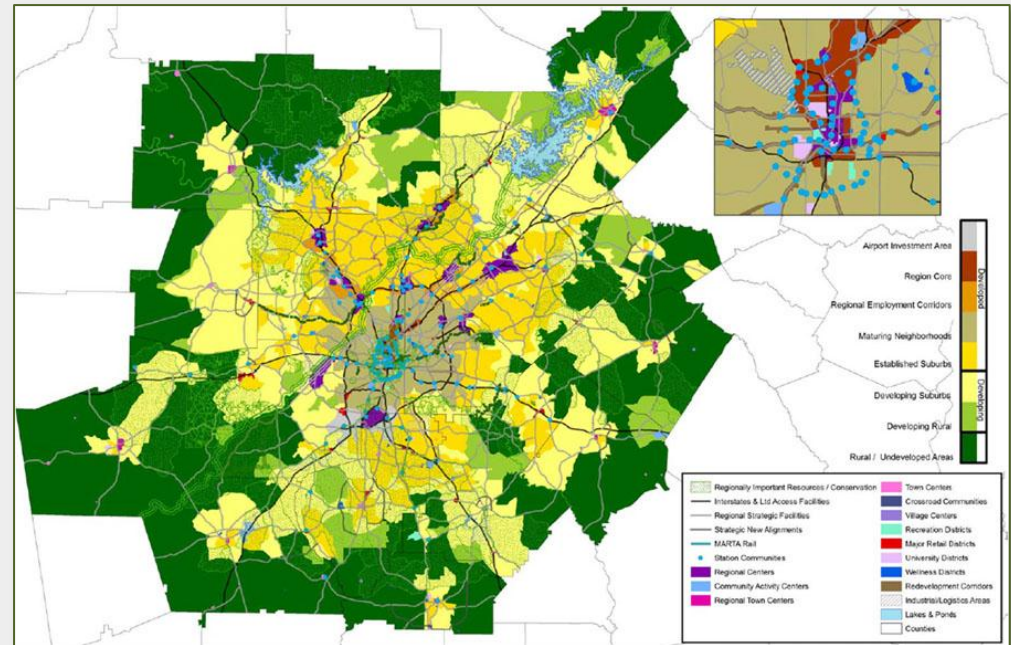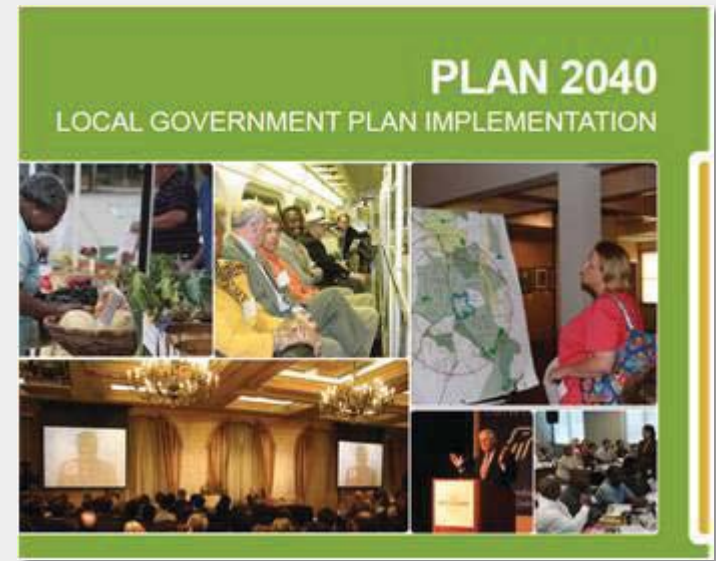
Regional Agenda
Regional Resource Plan

- Describes how planning and resource agency actions will be coordinated

- Defines how regionally important resources will be managed

PLAN 2040
REGIONAL RESOURCE PLAN

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Regional Agenda
Local Government Plan Implementation

- Performance standards for local governments

- Linked to implementation of Regional Development Guide/UGPM
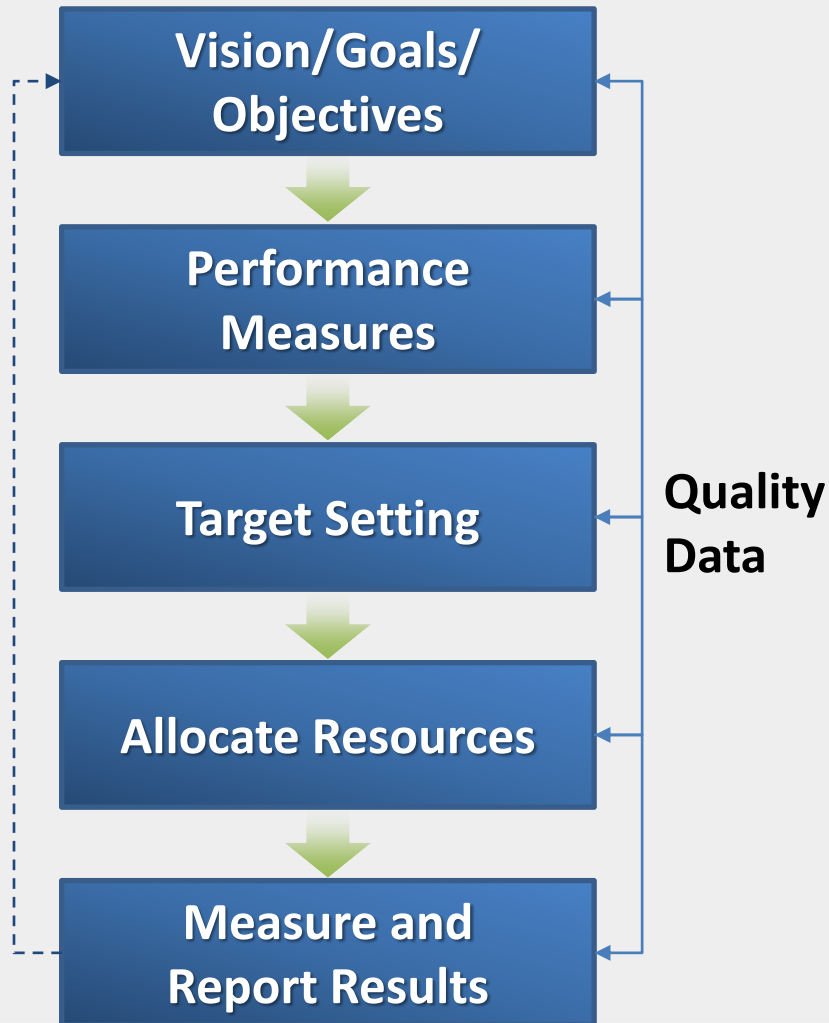
Regional Agenda
Implementation Program

- Five-year work program to implement PLAN 2040

- Implementation actions across all ARC Departments/Divisions

Creating the
Regional Transportation Plan

Performance-Based Planning Process

**Vision/Goals/
Objectives**

↓

**Performance
Measures**

↓

Target Setting

↓

Allocate Resources

↓

**Measure and
Report Results**

Quality
Data

Plan Development
Creating the RTP

Plan Management
Delivering the RTP

RTP Emphasis Areas

RTP Emphasis Area	PLAN 2040 Objectives				
	Mobility Options for People and Goods	**Healthy, Educated, Well-Trained, Safe, and Secure Population**	**Residential Choice in Locations Accessible to Jobs and Services**	**Energy and Resource Efficiency while Preserving Region's Environmental and Critical Assets**	**Innovative Approaches to Economic Recovery and Long-Term Prosperity**
Mobility	X				X
Connections and Access	X	X	X		X
Safety		X			
Economic Growth		X	X		X
Community/ Environment		X	X	X	
State of Good Repair				X	

RTP Performance Framework

- More detailed performance methods used to evaluate investment options for RTP

- Organized around four Key Decision Points (KDP), each of which impacts the allocation of projected transportation revenue

- Allows ARC to communicate steps in plan development and highlight which are influenced by performance assessment

PLAN 2040 RTP Performance Framework

Projected Revenue

$

(Federal, State, Local)

| KDP1 | Road Preservation (Existing System) | Transit Preservation (Existing System) | Management and Operations | Transit Expansion | Road Expansion | Bicycle and Pedestrian Expansion | Other/ARC Programs |

| KDP2 | | | PLAN 2040 Policy Filter | PLAN 2040 Policy Filter | PLAN 2040 Policy Filter | PLAN 2040 Policy Filter | |

| KDP3 | | | | Transit Expansion Project Evaluation | Road Expansion Project Evaluation | | |

| KDP4 | Programmatic Funding | Programmatic Funding | Line Item Projects and Programmatic Funding | Selected (Line-Item) Projects | | Line Item Projects and Programmatic Funding | Programmatic Funding |

KDP = Key Decision Point

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ATLANTA REGION PLAN 2040

PLAN 2040 RTP Performance Framework

Projected Revenue

$

(Federal, State, Local)

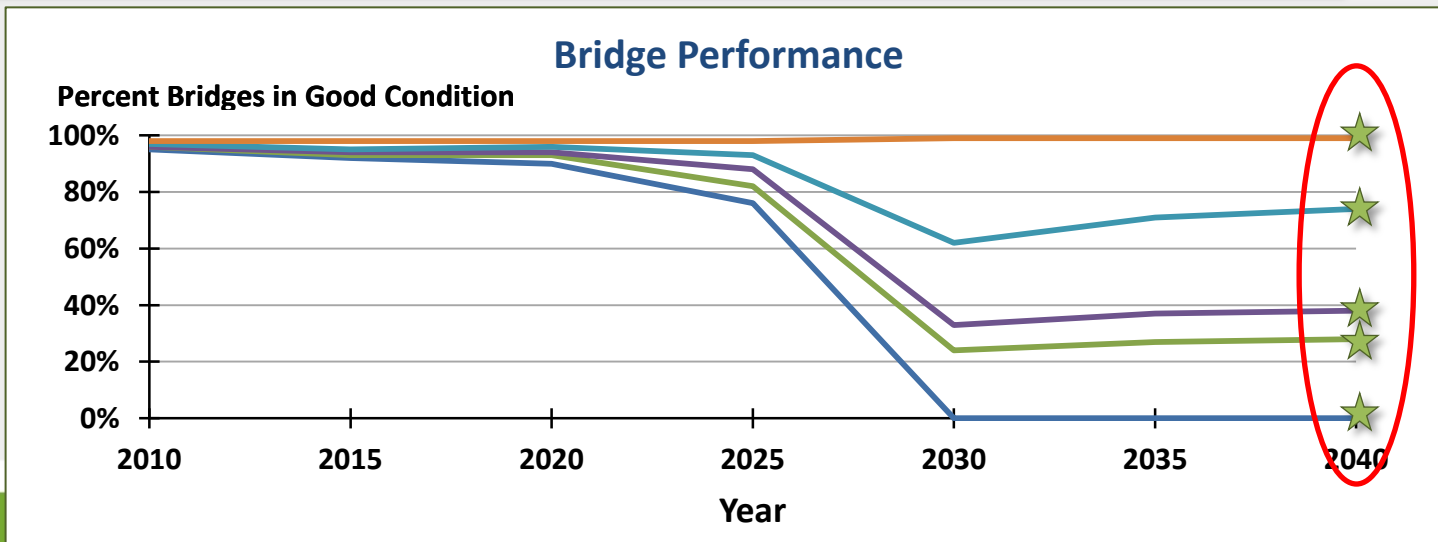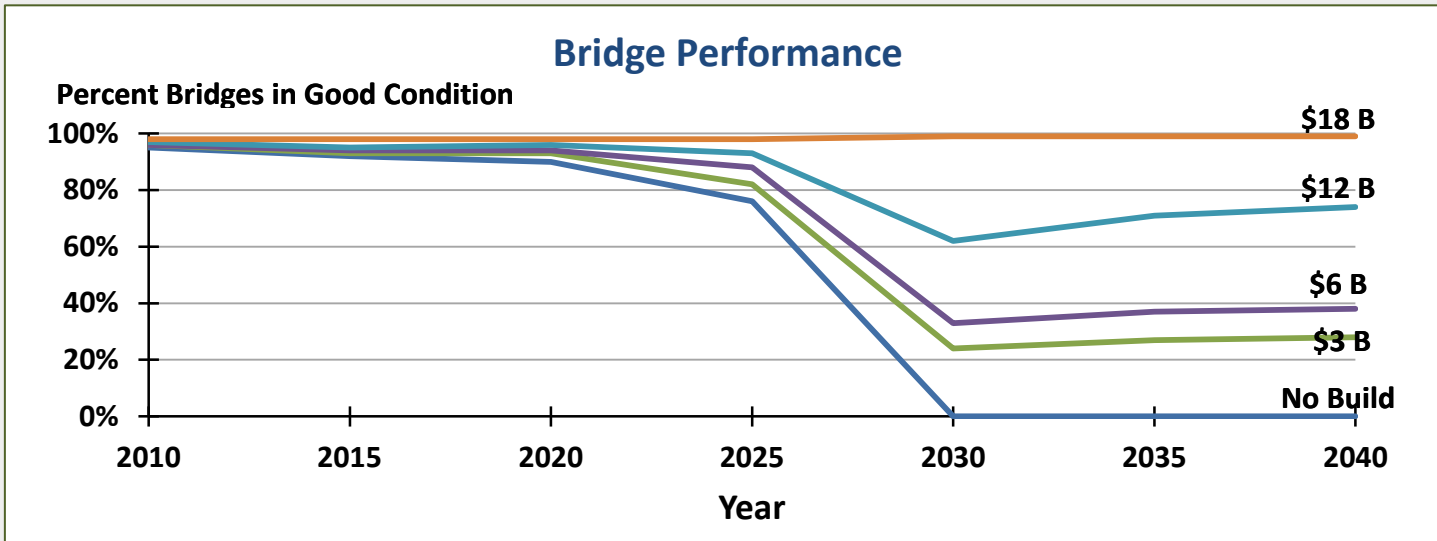| KDP1	Road Preservation (Existing System)	Transit Preservation (Existing System)	Management and Operations	Transit Expansion	Road Expansion	Bicycle and Pedestrian Expansion	Other/ARC Programs
KDP2			PLAN 2040 Policy Filter	PLAN 2040 Policy Filter	PLAN 2040 Policy Filter	PLAN 2040 Policy Filter	
KDP3				Transit Expansion Project Evaluation	Road Expansion Project Evaluation		
KDP4	Programmatic Funding	Programmatic Funding	Line Item Projects and Programmatic Funding	Selected (Line-Item) Projects		Line Item Projects and Programmatic Funding	Programmatic Funding

Implementing KDP1

- How much should be spent across transportation programs?
  - Define programs
  - Establish performance measure for each program
  - Evaluate relationship between funding and future performance
  - Develop potential funding scenarios
  - Facilitate a discussion on the preferred scenario

Implementing KDP1 (continued)

- Programs reflect similar project types

- Align with previous RTP programs, but more mode specific
  - Road preservation (existing system)
  - Transit preservation (existing system)
  - Management and operations
  - Transit expansion
  - Road expansion
  - Bicycle and pedestrian expansion

Implementing KDP1 (continued)

- Performance versus funding trend lines establish relationship between performance impact of each program, given certain funding levels
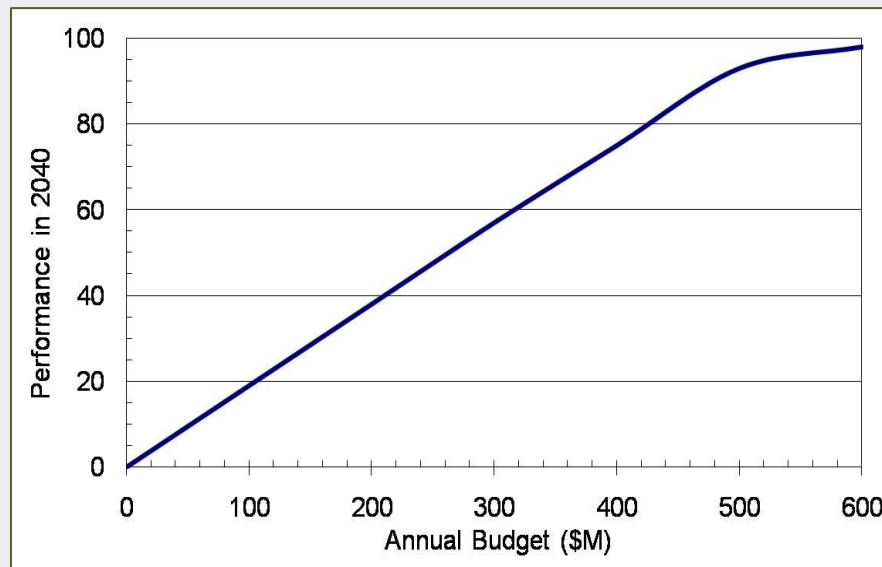
Implementing KDP1 (continued)

- Emphasis for RTP placed on system preservation, given feedback at July ARC Board Retreat

- Trend lines developed for pavement and bridge conditions in region

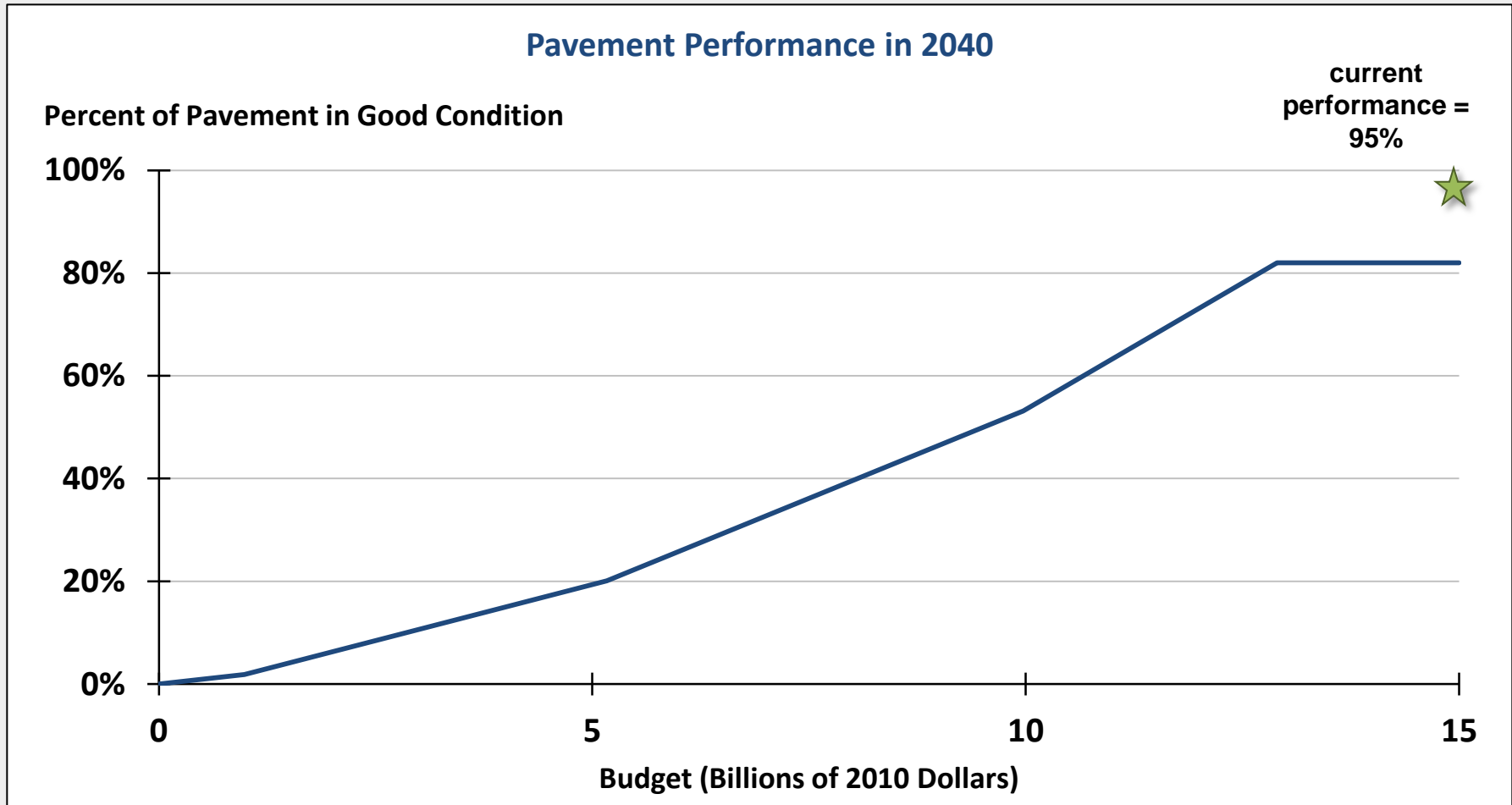- Helped shape a "preservation first" policy discussion for RTP and define specific, needed funding levels for system maintenance

Implementing KDP1 (continued)

Bridge Performance

Percent Bridges in Good Condition

- $18 B
- $12 B
- $6 B
- $3 B
- No Build

Bridge Performance

Percent Bridges in Good Condition

Implementing KDP1 (continued)

Bridge Performance in 2040

Percent Bridges in Good Condition

current performance = 95%

**Budget
(Billions of 2010 Dollars)**

Implementing KDP1 (continued)

Pavement Performance in 2040

current performance = 95%

Percent of Pavement in Good Condition

Budget (Billions of 2010 Dollars)
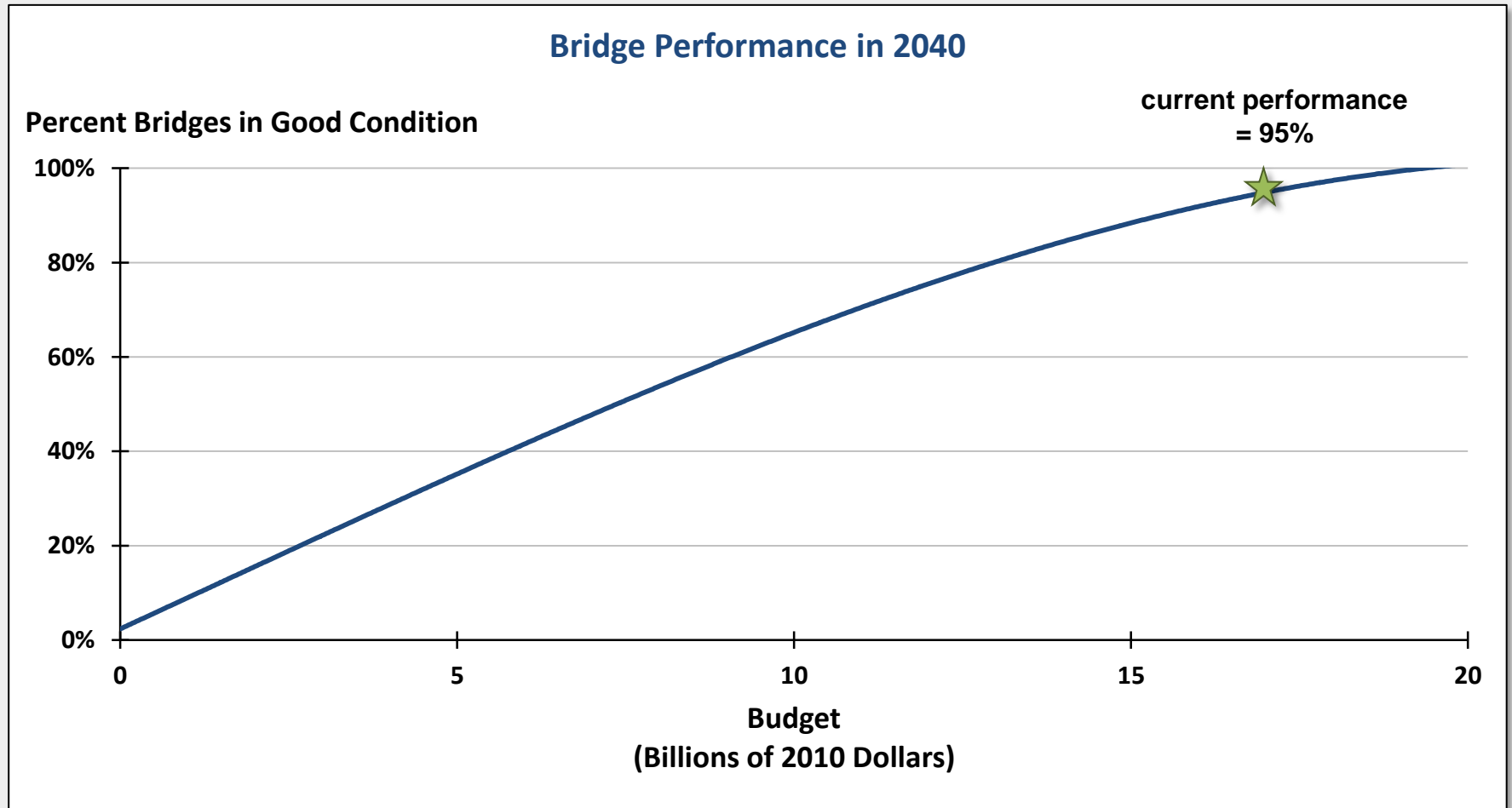
Implementing KDP1 (continued)

- ## Key policy questions
  - How do GA's maintenance expenditures compare to other states?
  - Can existing maintenance levels be supported over time, given funding constraints?
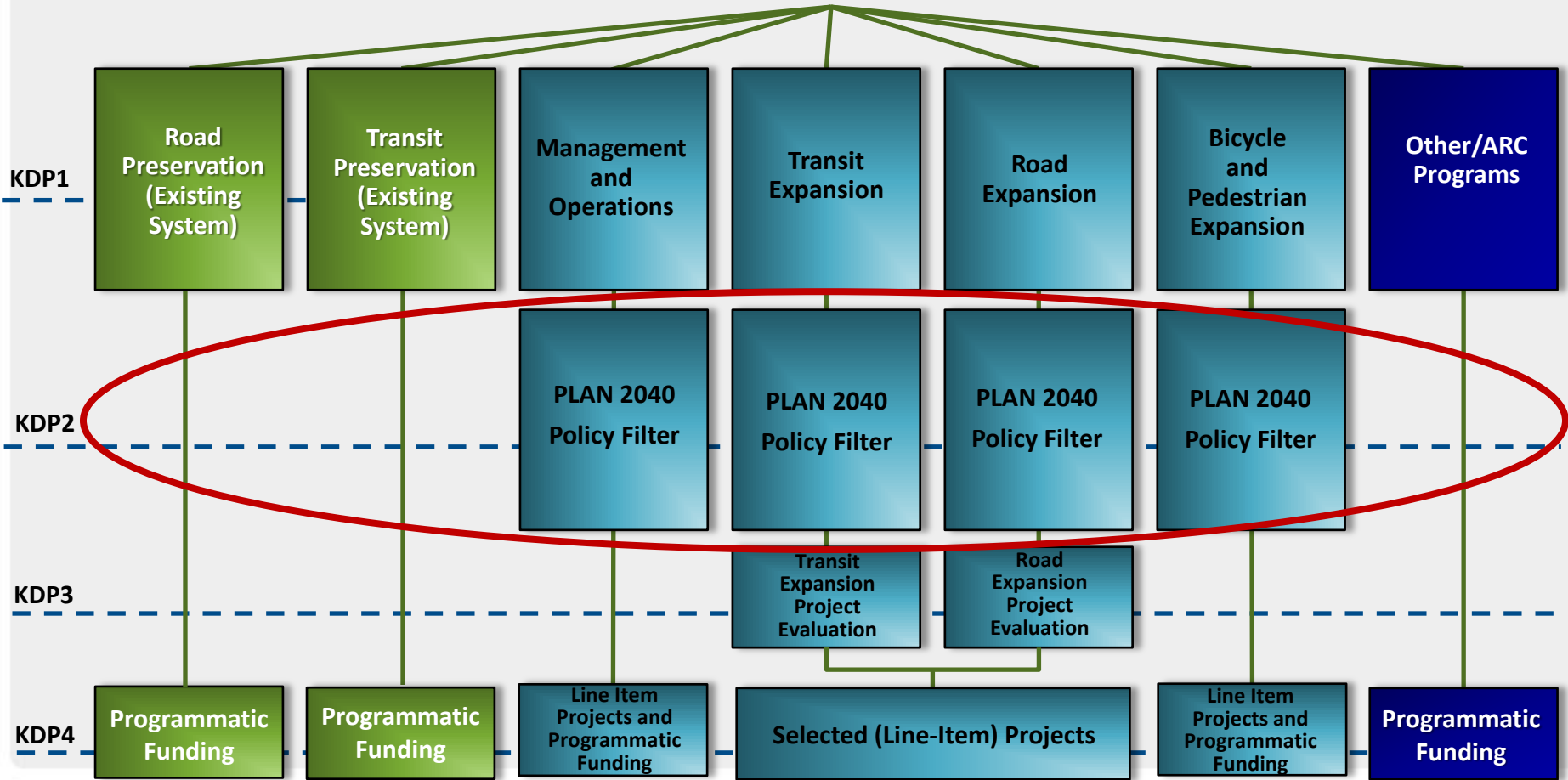
Program Area	1. Current RTP Allocation		2. Maintain Consistency with National Averages		3. More Emphasis on System Expansion	
	Split	Impact	Split	Impact	Split	Impact
Bridge Preservation	19%		39%		29%	
Pavement Preservation	20%		32%		29%	
System Expansion	60%		29%		42%	

PLAN 2040 RTP Performance Framework

Projected Revenue

$

(Federal, State, Local)

KDP1 — Road Preservation (Existing System) · Transit Preservation (Existing System) · Management and Operations · Transit Expansion · Road Expansion · Bicycle and Pedestrian Expansion · Other/ARC Programs

KDP2 — PLAN 2040 Policy Filter · PLAN 2040 Policy Filter · PLAN 2040 Policy Filter · PLAN 2040 Policy Filter

KDP3 — Transit Expansion Project Evaluation · Road Expansion Project Evaluation

KDP4 — Programmatic Funding · Programmatic Funding · Line Item Projects and Programmatic Funding · Selected (Line-Item) Projects · Line Item Projects and Programmatic Funding · Programmatic Funding

KDP = Key Decision Point

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Implementing KDP2

- What projects should be considered for funding within each program?
  - Review potential projects for consistency with PLAN 2040 policy
  - Advance only those projects consistent with plan
  - Only applied to programs that yield line item investments
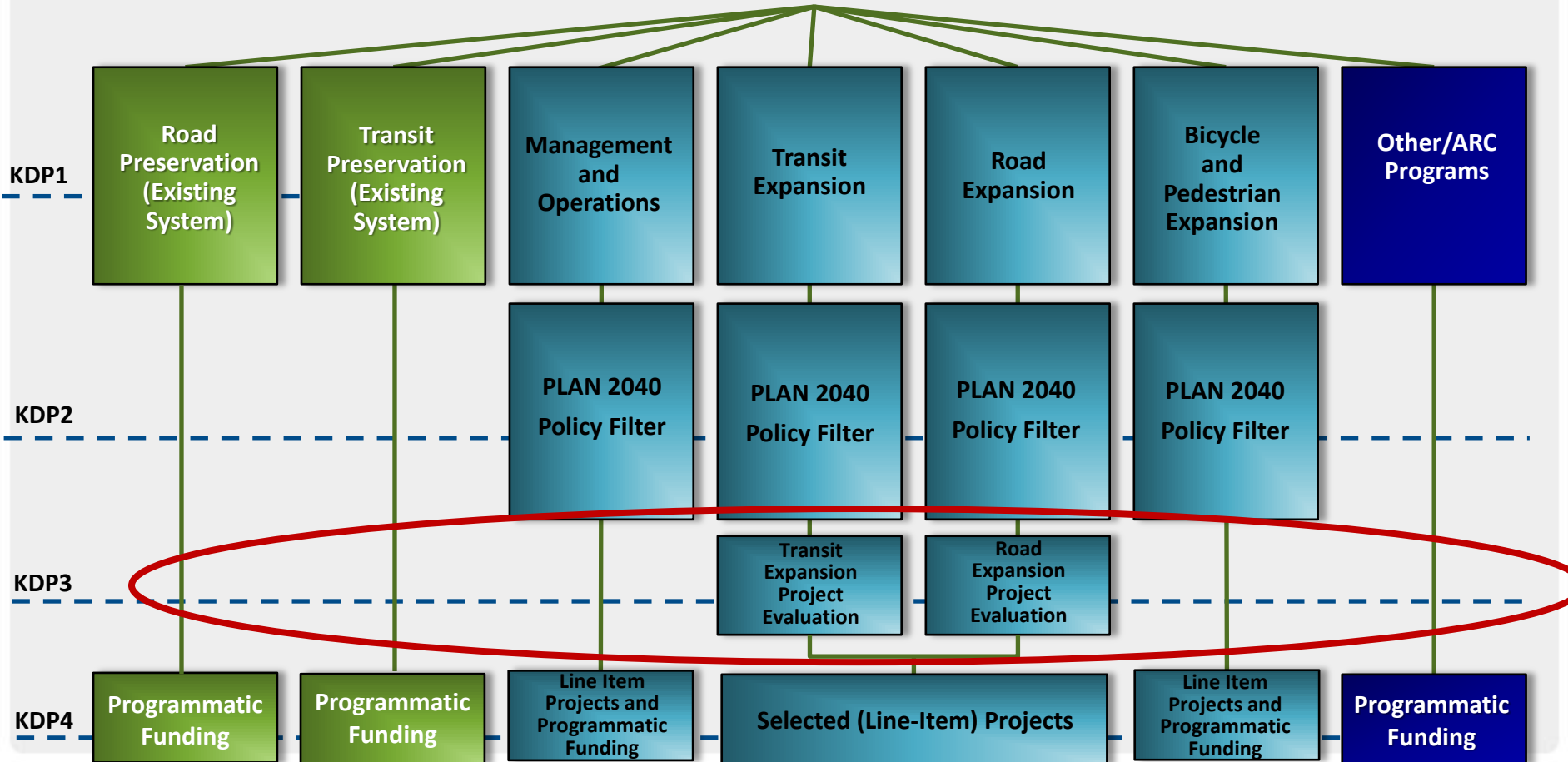
Implementing KDP2 (continued)

- Transportation systems review
  - Regional Strategic Transportation System, Concept 3, ASTRoMaP, Bike/Ped Network

- UGPM consistency
  - Project type by UGPM area type
  - Project scope by UGPM place type

- Additional consideration
  - Project in pipeline
  - Statewide Strategic Transportation Plan
  - Safety need

PLAN 2040 RTP Performance Framework

Projected Revenue

$

(Federal, State, Local)

KDP1	Road Preservation (Existing System)	Transit Preservation (Existing System)	Management and Operations	Transit Expansion	Road Expansion	Bicycle and Pedestrian Expansion	Other/ARC Programs

KDP2 — PLAN 2040 Policy Filter | PLAN 2040 Policy Filter | PLAN 2040 Policy Filter | PLAN 2040 Policy Filter

KDP3 — Transit Expansion Project Evaluation | Road Expansion Project Evaluation

KDP4 — Programmatic Funding | Programmatic Funding | Line Item Projects and Programmatic Funding | Selected (Line-Item) Projects | Line Item Projects and Programmatic Funding | Programmatic Funding

KDP = Key Decision Point

Implementing KDP3

- How should projects be evaluated for funding priority?

- Guiding principles for evaluation criteria
  - Vital few
  - Easy to communicate, transparent
  - Existing, readily available data and tools
  - Draw on existing methods and measures
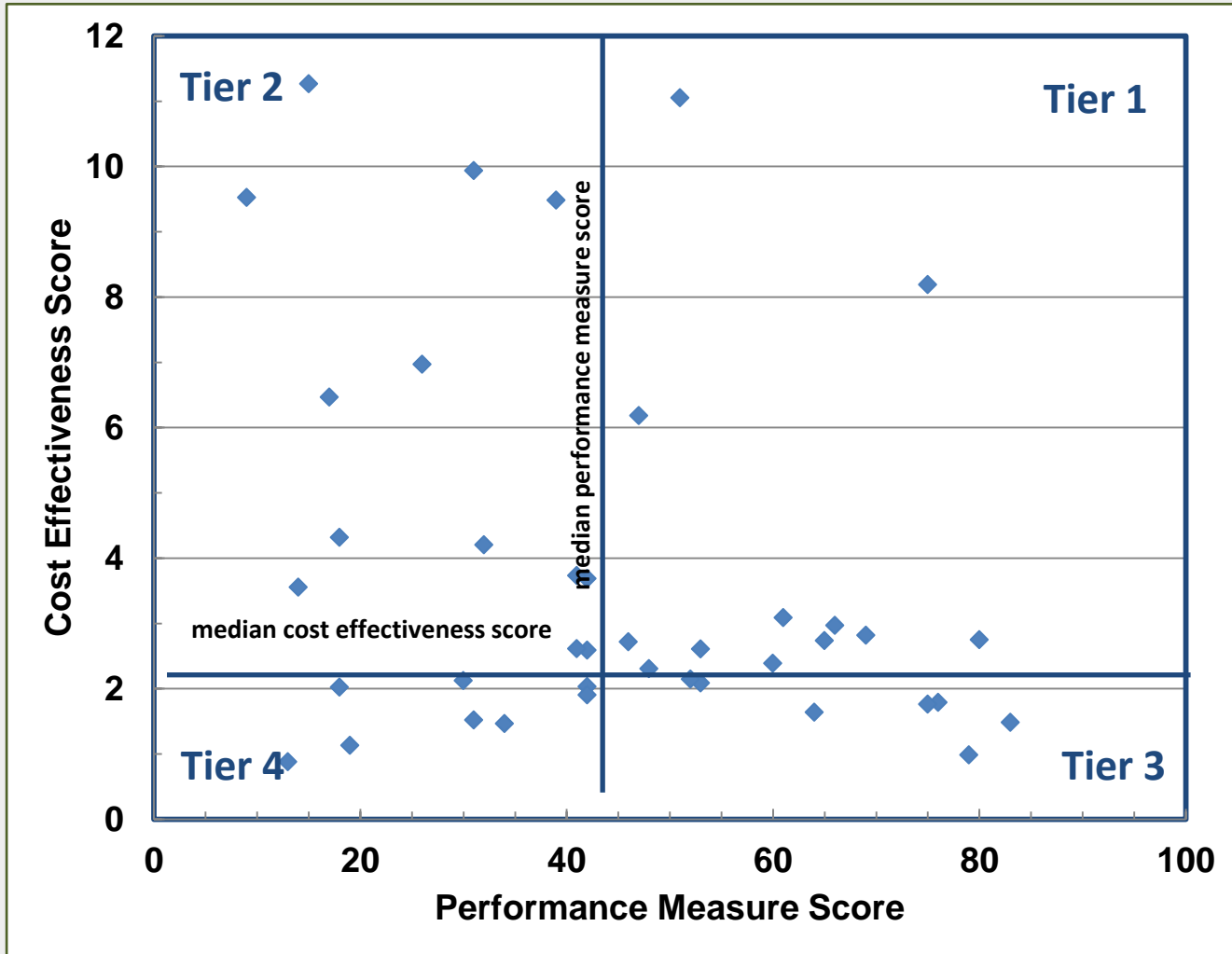 - Link to RTP Emphasis Areas
  - Emphasis on sustainability

Implementing KDP3 (continued)

RTP Emphasis Area	Project-Level Performance Measure (Roadway)	Project-Level Performance Measure (Transit)
Mobility	Vehicle hours delay	Transit trips Boardings Passenger miles
Connections/Access	Volume to/from activity center	Transit trips to/from activity centers
Safety	Crash ratio	Crash reduction
Economic Growth	Medium/heavy truck volume Proximity to economic development area	Employment accessible within 45-minutes by transit
Community/ Environment	Proximity to environmentally sensitive areas	Proximity to environmentally sensitive areas
State of Good Repair	N/A	Interface with existing systems

Implementing KDP3 (continued)

- Project evaluation for road and transit capacity expansion only (100 point scale)

- Benefit/Cost calculated (roadway)
  - Fuel costs as function of fuel usage and speed
  - Future maintenance costs
  - Criteria pollutant and greenhouse gas emissions

- Surrogate B/C for transit
  - Project points divided by total project cost
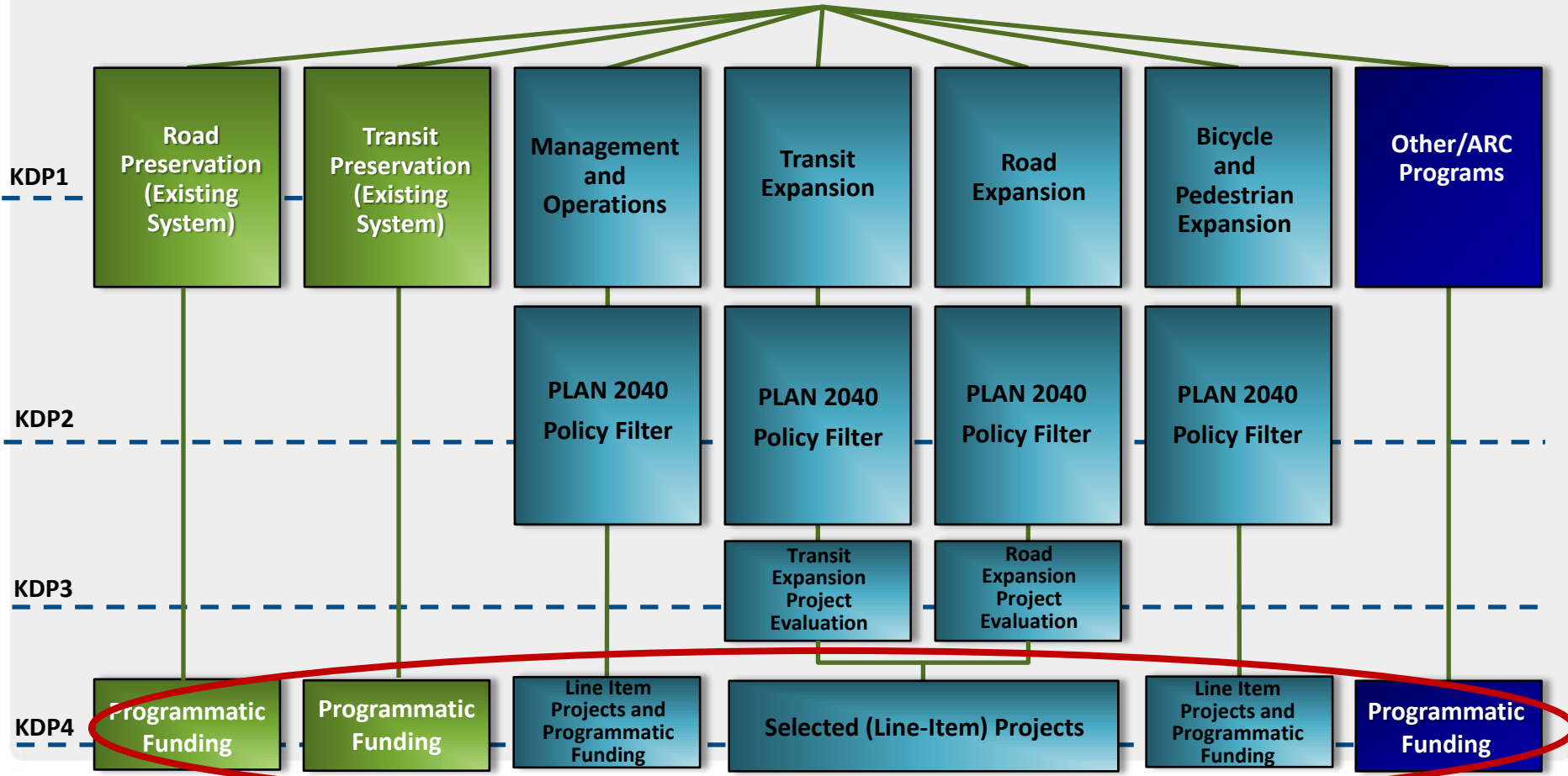
Implementing KDP3 (continued)

# PLAN 2040 RTP Performance Framework

Implementing KDP4

- How should project results be combined?
  - Map high-performing projects for each program
    - Projects mapped by score, B/C, and tier
    - Overlaid against other planning criteria (e.g., Equitable Target Areas, LCI areas)
  - Prioritize cost-effective projects with positive performance impact and complimentary benefits across other programs
  - Evaluate draft plan

Implementing KDP4 (continued)

RTP Emphasis Area	Plan-Level Performance Measure
Mobility	Average commute time
Connections/Access	Activity/employment center travel shed
Safety	Crash rate
Economic Growth	Jobs/GDP Cost savings
Community/Environment	NO_x, VOC, $PM_{2.5}$, and GHG
State of Good Repair	Percent of system in good repair

Constrained RTP = $60.5 Billion

$2.0 Billion, 4%

$15.9 Billion, 26%

$42.6 Billion, 70%
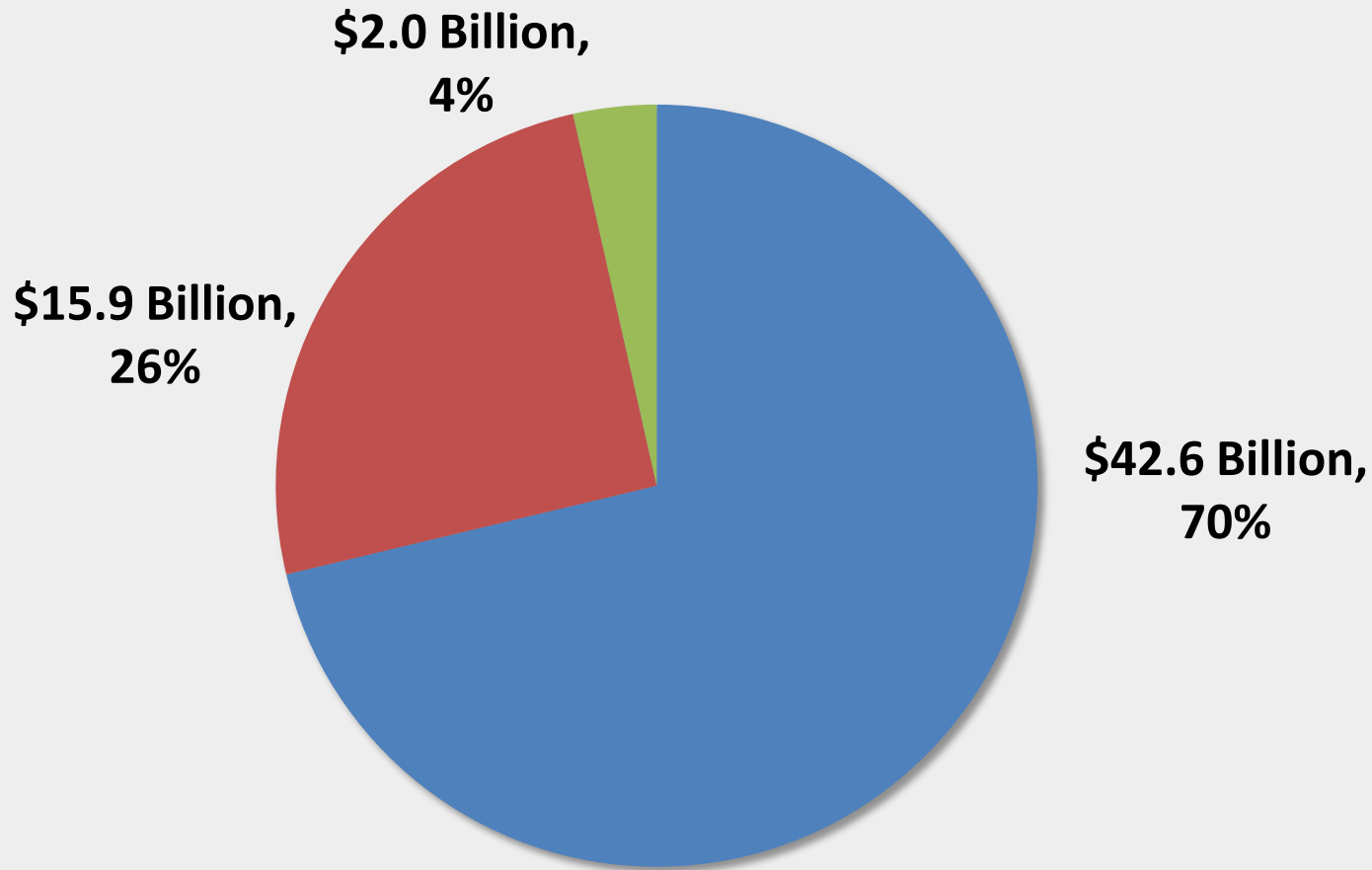
■ Preservation and Optimization ■ System Expansion ■ Demand Management

Managing the Regional Transportation Plan

Annual Plan Management Report

- Is the region doing what it said it would do?

- Are actions having the desired effect?

Tracking Business Practices
(Internal/Agency Success)

Tracking Project Implementation
(Regional/Interagency Success)

Measuring Plan Impacts
(External/Plan Success)

Tracking Business Practices
Internal/Agency Success

- Tracking and reporting ARC actions related to RTP implementation

- Focus on a core set of business practices related to plan delivery

- Early integration of plan delivery concepts

- Monitor success of agency

- Increase ARC's accountability for plan delivery

Tracking Business Practices
Internal/Agency Success (continued)

- To measure agency success in relation to RTP implementation
    - Develop action items for each PLAN 2040 objective
    - Develop implementation scale to measure progress

- Action items link to PLAN 2040 Implementation/Five-Year Work Program

Tracking Business Practices
Internal/Agency Success (continued)

| PLAN 2040 Objectives	Transportation Action Items
Improve mobility options for people and goods	More stringent requirements for CTPs, and other studies funded via PLAN 2040 • Consistency with PLAN 2040 transportation systems and Regional Development Guide • Consideration of complete streets and access management • Detailed action plan and schedule for adopting land use and housing policy into local ordinances that are needed to support improved performance
	TIP Implementation assistance for projects/jurisdictions that have adopted complimentary land use/housing policy
	Improved evaluation methods for bike/ped and operations program areas, consistent with PLAN 2040
	Expand tracking and reporting of project development activities for mobility-related programs
Foster healthy, educated, well-trained, safe, and secure population	Provide other ARC Divisions formal review and comment period for PLAN 2040 updates/amendments prior to public and Federal review
	Expand tracking and reporting of project development activities for safety-related programs
	Incorporate results of PLAN 2040 Health Impact Assessment

Tracking Business Practices
Internal/Agency Success (continued)

PLAN 2040 Objectives	Transportation Action Items
Promote places to live with easy access to jobs and services	Enhanced partnerships with local school boards
	Work with Land Use Division to build housing partnerships in activity center areas to promote housing opportunities that support PLAN 2040 transportation investments
	Expand tracking and reporting of project development activities for access-related programs
Improve energy efficiency while preserving region's environment	Expand tracking and reporting of project development activities for operations-related programs
	Developing interdisciplinary/interagency project oversight teams to better integrate planning-level environmental work with subsequent NEPA activities
	Create Environmental Coordination and Analysis Team within ARC
Identify innovative approaches to economic recovery and long-term prosperity	"Package" project delivery to bring implementation costs down • Transit/MLSP • Complete streets • Maintenance needs
	Pursue non-traditional finance options
	Track planned Federal expenditures against actual Federal expenditures

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Tracking Project Implementation
Regional/Interagency Success

- Tracking and reporting project and program implementation

- Expanded Breaking Ground Report efforts to include
  - Additional five years of TIP plus long-range element
  - More refined project types
  - Programmatic tracking

2010 Breaking Ground

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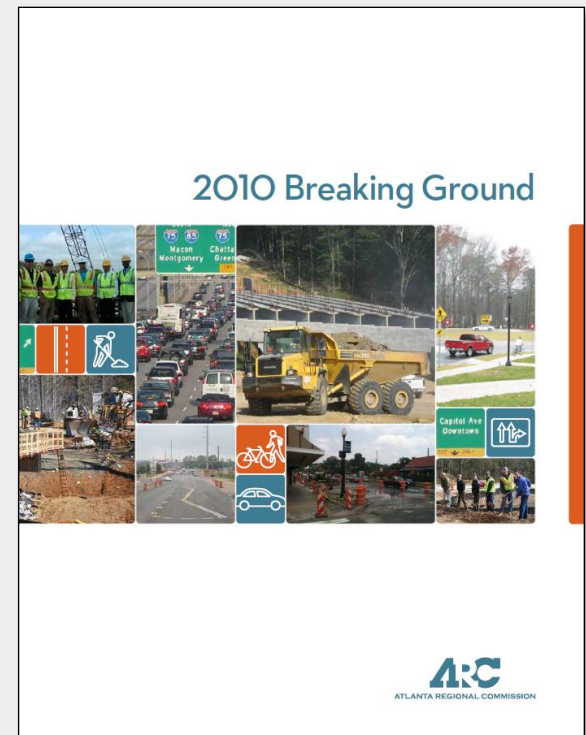
Measuring Plan Impacts
External/Plan Success

- Reporting system conditions/performance

- Evaluate performance impacts of RTP in context of PLAN 2040 goals and objectives

- Targeted measures that are tracked over time

- Address whether projects and programs are having desired effect

- Align with system-level, plan development, performance measures

Measuring Plan Impacts
External/Plan Success (continued)

RTP Emphasis Area	RTP Plan Management Measure
Mobility	Peak-period travel time, sample roadway monitoring network
Connections and Access	Population within 45 minutes travel time (road or transit) of key activity and employment centers
Safety	Number of crashes per 100 million VMT (at regional level for vehicles, bike, and ped)
Economic Growth	Jobs
Community/Environment	Air quality violations VMT per capita
State of Good Repair	Roadway condition rating (pavement and bridge) Transit condition rating (under development)

Plan Management Monitoring and Reporting

- How will information be compiled from the various participants? Where will it be stored?

- What is the timeline for compiling results?

- What format should the results be provided in (hard copy brochure, on-line dashboard, etc.)?

- What is the appropriate feedback mechanism to link monitoring results to internal ARC work program?

Questions?

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