SHIFT 2020 Advisory Committee

John Moore, Amanda Spencer and Eileen Vaughan Kentucky Transportation Cabinet



Role of the SHIFT Advisory Committee

- To have an understanding of the SHIFT Tool & Process
- To make recommendations for improvement

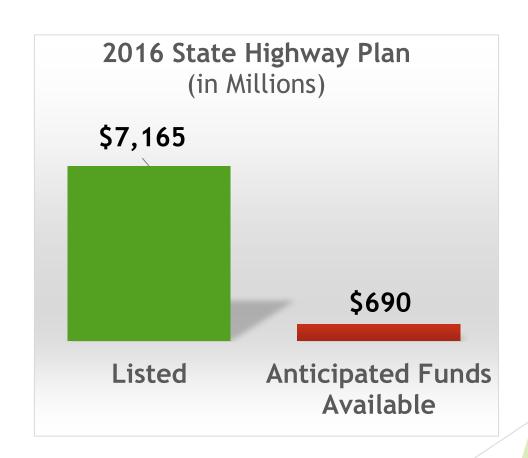
Please consider...

- Is it understandable how this information aids in our goal for a defensible, logical, comparative tool?
- Have we missed any important evaluation metrics that would better inform the outcome?
- Are the criteria weights appropriate to effectively compare needs?
- How can we best communicate this information to you, your colleagues, and your constituents?



2016: Projects Vastly Exceeded Funding

- More than 90 percent of the state-funded projects in the Highway Plan didn't have state dollars to pay for them
- Kentucky had <u>10 TIMES</u>
 as many state-funded
 highway projects
 budgeted as dollars
 available





SHIFT Kentucky Ahead

Strategic

Highway

Investment

Formula for

Tomorrow





Prioritize Limited Funding

- Collect objective data
- Prioritize using SHIFT formula
- Invite input, adjustments by local, district leaders
- Provide transparency
- Deliver reliable, dependable plan for spending





Focus on Safety and Improvements

PROJECTS INCLUDED

- Safety Improvements
- Road Widening
- Reconstruction
- New Routes and Interchanges

PROJECTS OUTSIDE

- Rural and Municipal Aid
- Maintenance Work
- Federally Dedicated Projects (CMAQ, TAP, HSIP,...)
- MPO Dedicated Projects



Sponsorship (Current)

District	# to Sponsor				
1	51				
2	55				
3	47				
4	52 71				
5					
6	52				
7	65				
8	45				
9	40				
10	35				
11	37				
12	32				

	# to			
ADD	Sponsor			
BARREN RIVER	40			
BIG SANDY	23			
BLUEGRASS	66			
BUFFALO TRACE	16			
CUMBERLAND VALLEY	38			
FIVCO	16			
GATEWAY	18			
GREEN RIVER	23			
KENTUCKY RIVER	30			
KIPDA	21			
LAKE CUMBERLAND	43			
LINCOLN TRAIL	29			
NORTHERN KENTUCKY	23			
PENNYRILE	41			
PURCHASE	36			

MPO	# to Sponsor
Bowling Green	10
Evansville	6
Louisville	51
KYOVA	10
Lexington	22
OKI	26
Owensboro	8
Radcliff	13
Clarksville	3



Formula Components



Safety



Asset Management



Congestion



Cost/ Benefit





Component Objectives

Safety

- > Evaluate the project's crash history.
- > Evaluate the roadway characteristics of the project area.

Congestion

> Evaluate capacity issues in the project area.

Economic **Growth**

- Quantify the project's economic competitiveness or accessibility/connectivity at a countywide level.
- > Measure the impact on the freight network within the project area.

Benefit / Cost

> Evaluate the expected benefits in dollars of travel time savings and safety benefits against the project costs.

Asset Management

Evaluate the pavement and bridge issues within the project limits.



Two Phase Prioritization

Statewide Mobility (Central Office)

Focus → Address Congestion and Bottlenecks

Eligible Projects

- -Statewide type Projects (Interstates/NHS)
- Selection 100% Data
- Projects Programmed prior to Area Planning Input

District Impact (ADD,MPO,HDO)

Focus →

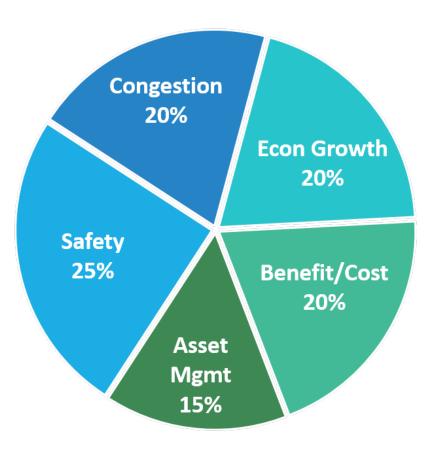
Improve Connectivity within Districts

Eligible Projects

- -Projects Not Selected in Statewide Mobility Category
- -District Projects
- Selection based on 70% Data & 30%
 Area Planning Input



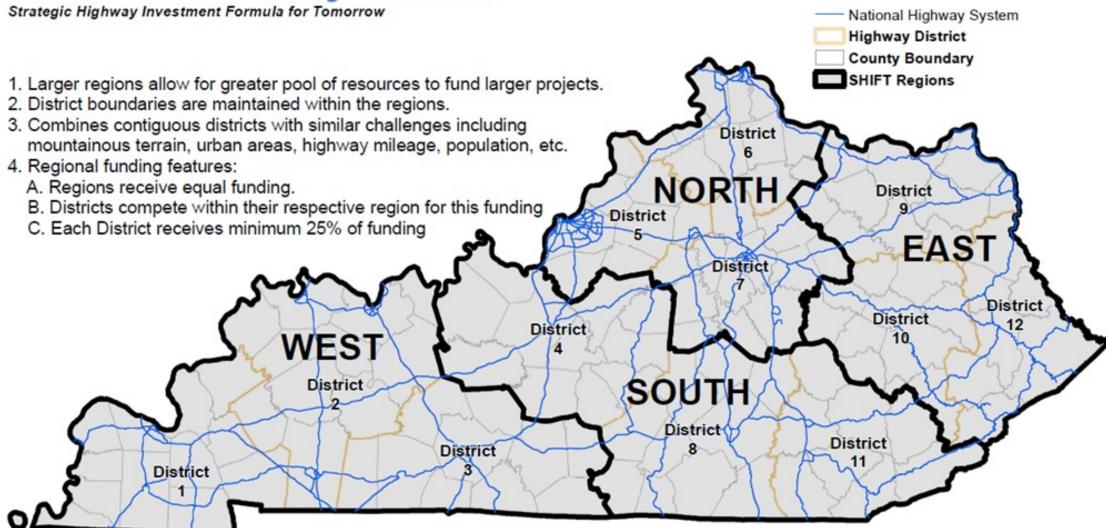
Funding Formula (Current) Statewide Regional







SHIFT Kentucky Ahead





2018 Plan SHIFT Results

495 Safety and Mobility Projects
 85 Relate to Ferry Operations and Various Funding
 303 Originate from SHIFT

State Funds Less Over-programmed

Silver Lining

Flexibility

Improvement over previous Plans



Tuning the Engine



SHIFT 2020

Improving Formula Components



Safety



Asset Management



Congestion



Economic Growth



Cost/ Benefit



SHIFT 2020 Workgroup

Program Management

3 Highway District Offices

Maintenance

State Highway Engineers Office

Highway Safety Improvement

Program

2 Metropolitan Planning Organizations

Highway

Design

Planning

2 Area Development Districts

Technical Advisors

~ 40 KYTC staff and KTC staff



Advisory Committee

SHIFT Workgroup PLUS representatives from:

- KY House of Representatives
 - KY Senate
 - KY League of Cities
 - KY Association of Counties
 - KY Judge-Executive Association





- Partnered with the Kentucky Transportation
 Center on a research project to incorporate
 new Highway Safety Manual methods.
- More accurate reflection of safety concerns in project areas.





- Incorporate Pavement Distress Index in pavement assessments.
- Improve assessment of pavement conditions in project areas.





- Partnered with the Kentucky
 Transportation Center to incorporate
 speed data in congestion measures.
- More accurate assessment of congestion in project areas.





- Improvements in the Kentucky Statewide Model will improve the quality of the TREDIS economic model analysis.
- Refinements in the freight component will capture more freight impacts such as bottlenecks.





Improved Travel Time Savings analysis.
 Reviewed current modeling, non-modeling methods.

Improved Safety Benefit analysis.
 Identified several new improvement types and adjusted the Safety Benefit Factors for Kentucky.

SHIFT 2020 Schedule

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	Phases and Timing	Fall 18	Winter 18-19			Late Summer 19	Fall 19	Winter 19-20	Spring 20
	Refine SHIFT								
	Sponsorship								
	Data Verification								
	Statewide Prioritization								
	Regional								
	Prioritization State Highway Plan								
	Development								
	Governor's Recommended SHP								
	Enacted SHP								



SHIFT 2020 Benefits

Data-Driven

Objective

Transparent

Collaborative

Dependable



SHIFT 2020 Let's get moving



Group Discussion

- Is it understandable how this information aids in our goal for a defensible, logical, comparative tool?
- Have we missed any important evaluation metrics that would better inform the outcome?
- Are the criteria weights appropriate to effectively compare needs?
- How can we best communicate this information to you, your colleagues, and your constituents?
- Questions/Suggestions?