Setting the Stage for the Future: Greater Owensboro Area 2065

Year of Planning Summit
July 17, 2014
What does Planning provide???

- Data Management - HIS data, GPS Roadway centerlines
- Traffic and Classification Counts
- Transportation Systems - Roadway Classification, NHS, Truck Routes, Coal Haul
- Mapping - GIS, State Map, County Maps
- Traffic Forecasting and Modeling
- Freight and Intermodal Planning
- Air Quality Analysis
- Statewide, Regional, and Metropolitan Planning
- Project Planning
Area Development Districts
Metropolitan Planning Organizations
MPOs have responsibility for planning in their areas

- 50,000+ population
- Over 200,000 are Transportation Management Areas and get dedicated funding
- Policy and Technical Committees
- Develop Long Range Plans and Transportation Improvement Programs
- Coordination with the Cabinet
- Plans and Programs must be fiscally constrained
- Many Federal Regulations affect projects in these areas
Statewide, Regional, and Metropolitan Planning

- 15 Area Development Districts (ADDs)
- 9 Metropolitan Planning Organizations (MPOs)
- KY Statewide Rural Transportation Planning Program first established through the ADDs in November of 1994.
- First Statewide Transportation Plan in 1995, most recent update is 2006
- Statewide Transportation Planning Process incorporated the MPOs in 2000.
- ADDs and MPOs have Committees that oversee the transportation planning processes in their areas
Planning Documents

- **TIP**
  - Transportation Improvement Plan
  - Fiscally constrained
  - Covers Owensboro MPO Area

- **STIP**
  - Statewide TIP

These Documents only look 6 Years Out
2040 Metropolitan Transportation Plan

This is a federally required continuing comprehensive Transportation Plan

Last Published in 2010 (for 2040), and next published in 2015 (for 2040)
Planning Documents
2040 Metropolitan Transportation Plan

- Prepared by Owensboro MPO (out of GRADD)
- Public Involvement is a necessary step
- Driven by TAC Committee
  - Transportation Advisory Committee
- Approved by the Policy Committee
2040 Metropolitan Transportation Plan

1. US 60 Bypass Extension
2. Southtown Blvd. (Carter Rd. to US 431)
3. KY 54 Widening
4. Roundabout
5. KY 279 Bridge Replacement
6. Widen KY 81 to 4 Lanes to roundabout
7. Old Hartford Rd./Fairview Dr. Int.
8. Settles Road – Reconstruction
9. Goetz Drive – Reconstruction
10. Thruston Dermont KY 54 to Hayden Road
Another Planning Document - LRSTP

KYTC prepared document:

- Long
- Range
- Statewide
- Transportation
- Plan
Population Change
2000 - 2010

LRSTP

Source: United States Department of Commerce, Bureau of the Census
KENTUCKY TRANSPORTATION AT A GLANCE

120 Counties
15 Regional Area Development Districts (Rural Planning) / 9 Metropolitan Planning Organizations / 12 KYTC Highway Districts
2010 Census Population of 4,339,367
Land area of 39,728 square miles

Airways (2013)
- 6 air carrier airports
  - 5 passenger air carrier airports including two int'l airports
  - 1 unscheduled passenger air carrier airport
- 53 general aviation airports
- Over 10.2 million passengers annually
- Over 5.53 million tons of air cargo transported annually
- Only state that is headquarters for 2 major air cargo companies

Highways (2013)
- Over 79,321 miles of public roads and streets (2012)
- 10 interstate highways and ten state parkways
- 27,625 miles of state-maintained highways
- 47.2 billion vehicle miles of travel annually (2012)
- 3,691 miles of Federal/State Truck Network in Kentucky with an average of 14% trucks on this network
- Over 14,000 bridges including 9,000 state-maintained bridges
- 3,294 miles on the National Highway System
- 2,989,812 licensed drivers with 120,203 being CDL holders
- 275 million tons of freight hauled by truck annually (2011)
- 487 miles of Trans American bike route US-BR-76

Public Transportation (2013)
- 25 rural public transportation services
- 9 urban bus/transit systems
- Regional coordinated human service delivery program with 15 regions
- Over 31 million passengers annually
- Approximately 3 million elderly and disabled passengers annually

Waterways (2013)
- 95 million tons of cargo transported (2012)
- 1,269 miles of navigable waterways
- 12 public riverports (7 active and 5 developing)
- Over 100 private terminals
- 10 ferry operations
- 14 locks and dams for navigation
- 8th in the nation for tons moved on waterways (2012)

Railways (2011)
- 13 freight railroads: 5 Class I, 1 regional, and 7 local
- 2,648 miles of railroad track (2013)
- 267 million tons carried by rail annually through Kentucky
- 2,038 Highway-Railroad at-grade crossings
- 4 Amtrak stations + 1 Amtrak bus to rail station
- 11,016 Amtrak passengers annually (2013)
As shown in Figure 4.2 A, the work that the KYTC conducts in pursuing its mission moves in a continuous cycle rather than a linear path. This process links the four main areas of transportation system development and maintenance -- planning, design, construction and operations -- to deliver a safe, efficient, environmentally sound and fiscally responsible transportation system that facilitates safe and efficient movement of people and goods.

A knowledge-driven process based on valid, broad-based input is essential to the effective decision-making required to address the maintenance and improvement of Kentucky’s transportation system. This input comes from political, public and technical sources as graphically displayed in Figure 4.2 B.

Analysis of the existing system’s form and function as well as the impacts of anticipated improvements is the primary source of technical input. Political input includes guidance, as well as financial support, from state and national political leadership. Public input is generated from all users of the system, including those citizens in communities which are directly affected by proposed improvements.

4.3 Public Input Process

The concerns of Kentucky residents and business partners were of prime importance in the development of the state’s 2014 Long Range Statewide Transportation Plan. The KYTC solicited their input to ascertain their principal transportation needs over the coming twenty years and produced a policy-based plan addressing them. The KYTC undertook an extensive

Figure 4.3 A – KYTC “Your Turn” Survey Logo engagement process that included a statewide public survey and the participation of three focus groups the association of these groups is shown in Figure 4.2 B.

From January 9 through February 25, 2013, the KYTC conducted its “Your Turn” survey to collect citizens’ concerns, issues and comments regarding the transportation system in the Commonwealth of Kentucky. Figure 4.3 A shows the KYTC survey logo associated with the public outreach effort. This survey served as the first public involvement activity for the update of the LRSTP. The survey was available in on-line and paper formats in both English and Spanish. An awareness campaign was conducted through print, social and broadcast media, and through direct community contacts to procure a statewide response that reflected the varying demographics of the state.
Input is what fuels the process!
Sources of input into the project identification, prioritization and development process

**Political Input:**
State & national administration goals, financial capabilities, etc.
- Congressional Members
- Local Officials
- Governor
- State General Assembly Members

**Technical Input:**
Existing conditions, future trends, environmental impacts, etc.
- MAP 21 Federal Transportation Bill
- KYTC District Offices
- KYTC Central Office
- Affected State & Federal Agencies

**Public Input:**
Community goals, issues and concerns, etc.
- Metropolitan Planning Organizations
- Area Development Districts
- Freight Generators & Haulers
- Private Transportation Providers
- Pedestrians
- All Citizens regardless of race, age, gender, income and ability
- Motorists
- Transit Riders
- Bicyclists

Figure 4.2.7 - KYTC Public Engagement Process
LRSTP

Federally mandated plan done every 6 to 7 years.
Explains how we move toward getting transportation items in the future.
2014 Draft Long Range Statewide Transportation Plan

New Life, New Future - Click to play video

- 2014 Draft Long Range Statewide Transportation Plan (LRSTP)  (Please review the draft LRSTP before completing the LRSTP Survey at the secondary link between May 7, 2014 - June 23, 2014.)
Unscheduled Needs List

Listing of unfunded project ideas
Cataloged and prioritized every 2 years.
Unscheduled Projects List (UPL)

- First established in 1988
- Over 2,500 projects
- $63 billion +
- Over 8500 miles of roadway
- Have a Project Identification Form for most projects
**Transportation Needs Funnel**

*Knowledge Driven: Technical, Public & Political Input*

- **Inactive Projects Necessary?**
- **Needs Project ID Form (PIF)**
- **Is It an Immediate need?**
- **Active Unscheduled Needs (UNL)**
  - **High Priorities (Base List)***
- **Prioritization**
  - Planning
  - Design
  - Right of Way
  - Utilities
  - Construction
  - DNA: Data Needs Analysis
- **District Transportation Plan Process (DTP)**
  - Top 30 Projects
- **KYTC Recommended Six Year Highway Plan**
- **Approved Six Year Highway Plan**

*Note: These "high" priority projects of the Base List are determined from the Consultation Process, both externally & internally. The identification of these "Base List" projects takes into consideration historical rankings & current demand conditions.*
Unscheduled Needs List

- Prioritized Locally
- Prioritized Regionally
- Prioritized at the District Office
Technical Advisory Comm.

- City Manager
- City and County Engineer
- Reps of Fiscal Court
- OMPC
- Owensboro Transit
- GRADD
- Riverport
- Airport
- Chamber of Commerce
- OMU
- OPD
- Sheriff’s Dept.
- RWRA
- Kenergy
- KYTC
Unscheduled Projects

Unfunded Project Ideas
Current Projects in Owensboro/Daviess County
Current Projects

- Owensboro Bypass Extension
- 2 Sections totaling $72,900,000
- 4.8 new miles of fully controlled US 60.
- 1.5 mile of new KY 603/Pleasant Valley
- 2 new interchanges
- Etc....
US60 (Bypass Ext.)

- Dependent on a weather and progression......
  - Open to all traffic ....
  - Both Directions....

- **September 2014**

- Continued work in 2015.....
US60 (Bypass Ext.)

**Lighting**

- KY 54 Interchange
- Pleasant Valley/KY603 Interchange
- KY 144 Interchange
- Traffic Signal area of KY 603

*(Traffic Signal will be removed)*
KY 54

- 5.6 Miles
- US60 (Bypass) to Jack Hinton
- 7 Lane
- 5 Lane
- 3 Lane
- 2 Lane
- Bonus – Restripe bridge over bypass for 3 lanes inbound dropping 3rd lane on WB on-ramp
KY 54 - Schedule

- Construction in current Highway Plan shown in 2018
- R/W acquisition beginning possibly in summer/fall 2015
Other Projects

KY 144

- Reconstruct portion of KY 144 in vicinity of Pleasant Valley Rd.
- Expected letting Spring/Summer ‘15
Other Projects

Reconstruct Fairview at KY 298

- Currently in Design
- R  SPP  2015
- U  SPP  2015
- C  SPP  2017
Other Projects

KY 1456
Address Substandard Roadway Geometrics from KY 54 to Hayden Rd.

- D  SPP  2015
- R  SPP  2016
- U  SPP  2016
- C  SPP  2018
Other Projects

KY 81

Extend the Current 4 Lanes to the Roundabout

- D  SPP  2015
- R  SPP  2016
- U  SPP  2017
- C  SPP  2017
Other Projects

KY 3143 (Fairview Drive)
Widen to 3 Lanes with Curb and Gutter from KY 3335 to KY 54

- D SPP 2016
- R SPP 2017
- U SPP 2017
- C SPP 2018
Other Projects

**US 60**

Reconstruct to address flooding issues

- D  STP  2014
- R  SPP  2015
- U  SPP  2015
- C  SPP  2016
Bridges in Current Hwy Plan

- 3 in Daviess County
- All bridges inspected by KYTC D2
- Replacement Plan is in place separate from planning process
Thanks for your attention!

Kevin McClearn, P.E.
Chief District Engineer
District 2
Kentucky Transportation Cabinet
Traffic Counts
How do I get involved?

- Talk to Elected Officials on all levels
- Attend Public Meetings and comment positively or negatively
I-69 Spur, I-66/I-65 Spur, and US 60 Connection
Strategic Planning Corridor Study:
Henderson – Owensboro – Bowling Green, KY

Greater Owensboro Chamber of Commerce

Kevin McClearn, P.E.
Chief District Engineer
Kentucky Transportation Cabinet – District 2
Opening Comments

Kevin McClearn – Kentucky Transportation Cabinet

http://transportation.ky.gov/Planning/Pages/Planning-Studies-and-Reports.aspx
I-69 Spur, I-66/I-65 Spur and US 60 Strategic Planning Study

- Audubon Parkway:
  - Pennyrile Parkway in Henderson to US 60 in Owensboro

- Natcher Parkway:
  - I-65 in Bowling Green to US 60 in Owensboro

- US 60 - Owensboro:
  - Audubon Parkway to Natcher Parkway
I-69 Spur, I-66/I-65 Spur and US 60 Strategic Planning Study

Scope of Work

- Inventory existing conditions
- Evaluate Safety and Operational Considerations
- Define Interstate criteria
- Identify deficiencies relative to Interstate criteria
- Develop estimated costs for needed improvements
- Develop recommendations and estimated costs for needed improvements
- Document findings
Key Findings

- **Deficiencies**
  - Interchanges
    - Previous Toll Plaza
    - Control of Access
    - Ramp Entrance
  - Vertical Alignment
    - Ramp Divergence Angle > Max
    - Ramp Tapers Length < Minimum
  - Interchange Spacing
    - Bridge barrier walls do not meet current safety criteria
    - Mainline Bridge Lateral Clearance
    - Overpass Vertical Clearance
    - Vertical Alignment / Stopping Sight Distance
Improvement Strategies

- **No Build**

- **Necessary Upgrades and Spot Safety Improvements**
  - Addresses key safety and operational concerns
  - Requires Design Exception/Variance for deficiencies

- **Fully Compliant Reconstruction**
  - Addresses key safety and operational concerns
  - Improve deficiencies to meet interstate criteria
Design Exception and Variances Process

- Design Exception
  - FHWA 13 Controlling Criteria

- Design Variance
  - AASHTO / Common Practice Criteria

- Design Exception/Variance requires a formal detailed analysis for safety and operational consideration
  - Further analysis of identified deficiencies will be required before Design Exceptions/Variances can be approved by the FHWA

- FHWA requires application that documents the design exception process
Interstate Designation Option 1
I-69 Spur - Audubon Parkway

- Preliminary Total Costs Estimate
  - Necessary Upgrades and Spot Safety Improvements Strategy - $14.0 million
  - Fully Compliant Reconstruction Strategy- $14.7 million

- Dependent on I-69 designation
**Interstate Designation Option 2**

**I-66/I-65 Spur - Natcher Parkway**

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<tr>
<th>Segment Description</th>
<th>Length (miles)</th>
<th>Total Costs (million)</th>
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<tbody>
<tr>
<td>Owensboro to Western KY Parkway (Natcher Parkway)</td>
<td>37.1</td>
<td>$20.85 - $24.15</td>
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<td>Total</td>
<td>26.1</td>
<td>$19.67 - $25.41</td>
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<td>Western KY Parkway to Bowling Green (Natcher Parkway)</td>
<td>11.0</td>
<td>$25.69 - $25.86</td>
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<td>Total</td>
<td>70.2</td>
<td>$66.21 - $75.87</td>
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</table>

- **Fully Compliant Reconstruction Strategy** - $75.9 million
- **Necessary Upgrades and Spot Safety Improvement Strategy** - $66.2 million

**Preliminary Total Costs Estimate**

- Ranges from $66.2 million to $75.9 million
Interstate Designation Option 3
I-69 Spur - Audubon Parkway & US 60

- Preliminary Total Costs Estimate
  - Necessary Upgrades and Spot Safety Improvements Strategy - $66.2 million
  - Fully Compliant Reconstruction Strategy - $87.2 million
- Dependent on I-69 designation
Interstate Designation Option 4
I-66/I-65 Spur - Natcher Parkway & US 60

- Preliminary Total Costs Estimate
  - Necessary Upgrades and Spot Safety Improvements Strategy - $117.4 million
  - Fully Compliant Reconstruction Strategy - $148.3 million
High-Level Overview of I-67 Corridor

Study Limits
High-Level Overview of I-67 Corridor

Scope of Work

- Inventory existing conditions
- Determine and evaluate deficiencies
- Identify potential improvements to satisfy Interstate criteria
- Develop preliminary estimated costs for needed improvements
- Document findings
High-Level Overview of I-67 Corridor

- Key Findings and Deficiencies
  - Interstate Access Control
  - Interchange Access Control
  - Mainline Bridge Lateral Clearance
  - Interchange Configuration (US 60/ Natcher Parkway)
I-69 Spur, I-66/I-65 Spur and US 60
Henderson, Daviess, Ohio, Butler, and Warren Counties

• Questions & Comments?