TxDOT Funding and Accelerated Construction Program

RANDY C. HOPMANN, P.E.
DIRECTOR OF DISTRICT OPERATIONS
In 2015, the state demographer estimated that Texas’ population could potentially double by 2050.
Anticipated sources of additional funding for new construction

Additional funding to be allocated as part of the 2017 UTP for Fiscal Years 2017-2026 include:

- $10.2 billion of traditional State Highway Funds (SHF) from:
  - FAST Act.
  - End of Diversions from the SHF.
  - Remaining unallocated funds in future years of the UTP.
- $6.3 billion anticipated from Proposition 1 (Prop 1).
- $21.8 billion anticipated from Proposition 7 (Prop 7).
- TOTAL: $38.3 billion over 10 years.
## Anticipated performance priorities and outcomes

<table>
<thead>
<tr>
<th>Top performance priorities</th>
<th>Anticipated performance outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address safety</td>
<td>Reduce crashes and fatalities</td>
</tr>
<tr>
<td>Preserve assets</td>
<td>Maintain and preserve system/asset conditions</td>
</tr>
<tr>
<td>Target congestion/urban mobility needs</td>
<td>Mitigate congestion and improve reliability of system</td>
</tr>
<tr>
<td>Enhance regional connectivity corridors</td>
<td>Enhance connectivity and mobility</td>
</tr>
<tr>
<td>Focus on strategic priorities (energy sector, trade, and economic development)</td>
<td>Enhance economic development opportunities; facilitate movement of freight and international trade</td>
</tr>
</tbody>
</table>
### Future Transportation Funding: The $70 billion 2017 UTP

<table>
<thead>
<tr>
<th>UTP Funding Categories</th>
<th>Anticipated Funding Distributed Over 10 Years of UTP by Category ($ Million)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Category 1 - Maintenance &amp; Rehabilitation</td>
<td>UTP Base: $11,157</td>
</tr>
<tr>
<td>Category 2 - Metropolitan &amp; Urban Corridor Projects</td>
<td>$1,334</td>
</tr>
<tr>
<td>Category 3 - Non-Traditional Funding</td>
<td>$4,572</td>
</tr>
<tr>
<td>Category 4 - Connectivity (Rural)</td>
<td>$429</td>
</tr>
<tr>
<td>Category 4 - Connectivity (Congestion)</td>
<td></td>
</tr>
<tr>
<td>Category 5 - Congestion Mitigation/Air Quality (3 MPOs)</td>
<td>$2,169</td>
</tr>
<tr>
<td>Category 6 - Bridge Programs</td>
<td>$2,709</td>
</tr>
<tr>
<td>Category 7 - Metropolitan Mobility &amp; Rehabilitation (Large MPOs)</td>
<td>$4,241</td>
</tr>
<tr>
<td>Category 8 - Safety Programs</td>
<td>$1,887</td>
</tr>
<tr>
<td>Category 9 - Transportation Alternatives Program</td>
<td>$500</td>
</tr>
<tr>
<td>Category 10 - Special Federal Programs</td>
<td>$557</td>
</tr>
<tr>
<td>Category 11 - District Discretionary</td>
<td>$1,540</td>
</tr>
<tr>
<td>Category 11 - District Discretionary (Energy Sector Initiative)</td>
<td></td>
</tr>
<tr>
<td>Category 12 - Strategic Priority Projects</td>
<td>$763</td>
</tr>
<tr>
<td>Category 12 - Strategic Priority (Congestion Initiative)</td>
<td></td>
</tr>
<tr>
<td><strong>Total Allocated Funds</strong></td>
<td><strong>$31,858</strong></td>
</tr>
</tbody>
</table>
Future Transportation Funding: The $70 billion 2017 UTP

- Unified Transportation Program (UTP) adopted by the Texas Transportation Commission on August 25, 2016.

- First, priority of future funding: statewide maintenance of state highway and road system, safety and bridges $24.2 billion total, with $6.9 billion added.

- Increased funding for rural connectivity $6.6 billion total with $6.2 billion added.

- Congestion relief initiative funding, including “Texas Clear Lanes” of $22.5 total with $21.2 billion added.

- Additional $4 billion added to strategic priorities.
Accelerated Construction Program - Public Trust and Economic Considerations

- Accelerated Construction Program

  - Public Trust
    - Expect improvements
    - Minimize time delays
    - Maximize Safety

  - Direct Cost Impacts
    - TxDOT
    - Contractor

  - Indirect Cost Impacts
    - Delays
    - Economic Costs
    - Business Costs

- All costs are eventually borne by taxpayers
Accelerated Construction Program - Safety and Economics

- Remember who are our customers.
- Reduce Work Zone Duration to improve safety.
- Reduce user delays and associated costs:
  - Time
  - Fuel
- Safer for the workers and the traveling public.
- Better for the economy.
- Environmental enhancements.

- **User cost savings exceed direct construction costs.**
Accelerated Construction Program - Reduce Construction Time

- Alternative Contracting Methods and Concepts
  - Accelerated Bridge Construction
    - Precast bridge components
    - Roll-in bridges
  - Accelerated Road Construction
    - Material Selection
    - Equipment Innovations
    - Construction Phasing
    - Traffic Control

Using ABC construction methods cuts road closure time by 90 percent
Accelerated Construction Program - Reduce Construction Time

- Alternative Contracting Methods and Concepts
  - A+B Bidding
  - Milestones
  - Lane Rentals
  - Include Utility Adjustments

- Considerations
  - Workforce Considerations
  - Incentivize Contractors

- Accelerated Construction Not for All Projects
Next Steps for the Accelerated Construction Program

- Texas A&M Transportation Institute (TTI) is working on a report from the Accelerated Road and Bridge Construction Workshop held in late July.

- TxDOT will develop a policy with guidelines for the Accelerated Construction Program.

- TxDOT and TTI will execute a contract to conduct regional workshops around the state for contractors, suppliers, consultants, and employees. Workshops will:
  - Introduce the concept.
  - Discuss the importance.
  - Emphasize that decisions begin in the planning and design phases.
  - Share best practices.
  - Do not sacrifice quality.
  - Facilitate innovation.

- Execute with Integrity!
Public Expectations for Project Delivery

- Broader economic justification
  - Starting Construction (groundbreaking) not good enough.
  - Focus on completing construction (ribbon cuttings).
  - **Get In, Get Out and Stay Out!**

- Win, win, win…
  - Traveling Public
  - Contractors
  - TxDOT
  - State Economy

- **Right Concept at the Right Time!!!**
Funding and Accelerated Construction Program

Randy C. Hopmann, P.E.
TxDOT Director of District Operations
Randy.Hopmann@txdot.gov
(512) 936-9514