STIP Development

Machelle Watkins, MoDOT Transportation Planning Director
Statewide Planning Partner Meeting
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Missouri Transportation Funding
FISCAL YEAR 2018 (Dollars in Millions)

Total Revenue $2,605

Missouri User Fees and Other Revenue (Gas Tax) $1,582

Federal Revenue (Gas Tax) $1,011

Missouri General Revenue (Income Tax) $12

Cities and Counties Other State Agencies Revenue, HWY Patrol & License Plate Reissuance
State = $277
Federal = $116
$393

Other State Agencies
$261

Debt Payment
$290

State Roads and Bridges
Federal = $835
State = $736
$1,571

Multimodal
Federal = $60
State = $18
Gen. rev. = $12
$90

Missouri Transportation Funding
FISCAL YEAR 2018 (Dollars in Millions)
Total Expenditures
$2,602

- Construction Program
  $956
  - Contractor Payments: $784
  - Program Delivery*: $128
  - Design Consultants: $40
  - Right-of-way Acquisitions: $4
- Road & Bridge Expenditures
  $1,566
- Maintenance*
  $463
  - Fleet, Facilities and Info Systems
    $79
  - Admin*
    $52
  - Highway Safety Programs*
    $16

**Includes salaries, wages, and fringe benefits.**
Total Expenditures
$2,602

**Road & Bridge Expenditures**
$1,566

- Cities and Counties $393
  - State = $277
    - Federal = $116
  - Other State Agencies $261
- MO Dept. Of Revenue $20
- License Plate Reissuance $4
- MO State HWY Patrol $237

**Construction Program**
$956
- Contractor Payments: $784
  - Program Delivery*: $128
  - Design Consultants: $40
  - Right-of-way Acquisitions: $4
- Roadway: $232
- Equipment and Utilities: $86
- Winter: $43
- Roadside: $41
- Bridge: $26
- Insurance: $19
- Incident Management: $7
- Other: $9

**Maintenance**
$463
- Fleet, Facilities and Info Systems $79
- Admin* $52
- Highway Safety Programs* $16

**Operations**
$3,046
- Internal Operating Costs*: $24
- Capital Improvements: $8
- Information Systems Investments: $20
- Fleet Investments: $27

**STIP**
$956

- Contractor Payments: $784
  - Program Delivery*: $128
- Design Consultants: $40
- Right-of-way Acquisitions: $4
- Roadway: $232
- Equipment and Utilities: $86
- Winter: $43
- Roadside: $41
- Bridge: $26
- Insurance: $19
- Incident Management: $7
- Other: $9

**Aviation**
$37

**Transit**
$35

**Rail**
$13

**Multimodal**
$92
- $3 Multimodal Internal Operating Costs*
- $2 Port-Waterways
- $1 Freight
- $1 STAR Fund Loan Program

*Includes salaries, wages, and fringe benefits.
Construction Program Funds Distribution
(Fiscal Year 2018 Amounts)

- Total Construction Program Funds: $1,146 Million
- Special Programs: $189 Million
  - Cost Share and Partnering Funds
  - Transportation Alternatives
  - Open Container Penalty
  - Asset Management Deficit
- Total Distributed Construction Program Funds: $957 Million
Construction program funds are allocated annually to districts using the following formula:

**Total Distributed Construction Program Funds**

- **Safety**
  - $35 Million
  - (Includes $6 Engineering)

- **Taking Care of the System**
  - $435 Million
  - (Includes $79 Engineering)

- **Flexible**
  - Remaining Funds

Note:
- Amounts include engineering costs

- $3 million distributed for statewide program
- $32 million distributed based on three-year crash rates
- $310 million distributed based on amount of highway travel, bridge size and highway miles
- $125 million distributed for statewide interstate and major bridge needs
- Distributed based on population, employment and highway travel

*In 2018, $487 million of Flexible funds were distributed, of which $363 million was used for taking care of our system.*
Funding Distribution History

- Established current categories in 2003
- Last updated Taking Care of the System amount in 2006 – increased from $400 million to $435 million
- Increased Safety from $25 million to $35 million in 2016
- $10 million Asset Management Deficit Program added in 2017
Revised Construction Program Funds Distribution
(Fiscal Year 2022 Amounts)

- Total Construction Program Funds: $1,169 Million
- Special Programs: $142 Million
  - Cost Share and Partnering Funds
  - Transportation Alternatives
  - Open Container Penalty
- Engineering: $176 Million
  - MoDOT staff costs
  - Consultant costs
- Total Distributed Construction Program Funds: $851 Million
Revised Construction Program Funds Distribution
(Fiscal Year 2022 Amounts)

Construction Program Funds
$851 Million

Safety
$29 Million
- $2 million distributed for statewide program
- $27 million distributed based on fatalities and serious injuries on state highways

Asset Management
$677 Million
- $94 million major bridge funding distributed directly to districts
- Remaining $583 million based on asset management plan. Distributed based on highway travel, bridge size and highway miles.

System Improvements
$145 Million
- Distributed based on population, employment and highway travel.

Note:
Amounts do not include engineering costs and district share of debt service for GARVEE debt payments.
Funding Distribution Factors
Fiscal Year 2022

Current Factors:
- Safety %
- Taking Care of the System %
- Flexible %

New Factors:
- Safety %
- Asset Management %
- System Improvements %
Asset Management

- Rolling 10-year plan
- District Specific Plans
- Clearly indicates the funding needs to maintain system goals
Major Roads

- 5,546 Miles = 16% of System
- Travel Total = 76%
- Pavement Goal = 90%
  - Currently = 92%
- Cost $120,500/lane mile
- Treatment Type = 85-95% Preventive MT
Minor Roads

- 17,166 Miles = 51% of System
- Travel Total = 22%
- Pavement Goal = 80%*
  - Currently = 81%
- Cost = $37,700/lane mile
- Treatment Type = 100% Preventive MT

* Based on current funding level
Low Volume Roads

- 11,147 Miles = 33% of System
- Travel Total = 2%
- Pavement Goal = 70%*
  - Currently = 73%
- Maintained by MoDOT Maintenance

* Based on current funding level
Bridges – 10,385 total

Major Bridges = 208

Typical Bridges = 10,177

<table>
<thead>
<tr>
<th>Typical Bridges</th>
<th>Avg Cost/sq ft</th>
<th>% of Work</th>
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</thead>
<tbody>
<tr>
<td>Replacements</td>
<td>$279</td>
<td>16%</td>
</tr>
<tr>
<td>Redeck</td>
<td>$89</td>
<td>11%</td>
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<tr>
<td>Other(PM/Rehab)</td>
<td>$35</td>
<td>73%</td>
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</tbody>
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Bridge Goal: 900 Poor Condition Bridges (at current funding level)

Currently: 922 Poor Condition Bridges
922 Poor Bridges
10-Year Major Bridge Needs
Asset Management Needs
Fiscal Year 2022
(Dollars in Millions)

- Maintain System Conditions = $583
- Major Bridges = $94
- Total = $677
Summary of Changes

- Beginning in fiscal year 2022, revise Taking Care of System (TCOS) amount to match asset management plan needs.
- The new Asset Management category will include:
  - Statewide funding for all major bridges
  - Distributed funding for other asset management needs.
- Asset Management needs for 2022 is $583 million, which will increase 3% annually for inflation. This amount will be distributed using current TCOS factors, except major bridges will be removed from bridge square footage.
- The Asset Management amount will be reviewed and updated, if necessary, annually.
- Rename Flexible Funds category to System Improvements.
- Discontinue Asset Management Deficit Program.