# **Strategic Transportation Investments Division Updates**

**TSITE Summer Meeting** July 30, 2021



Steve Allen Director **Strategic Transportation Investments Division** 

# **Outline**

- IMPROVE Act Update
- Executive Order 1
- State Industrial Access (SIA) Program Update
- Safety Update





# IMPROVE Act Update





# **IMPROVE Act Update**

- 1. IMPROVE Act Overview and Reports Developed since 2017
- 2. IMPROVE Act Cost Estimates
- 3. Changes implemented since the IMPROVE Act passed
- 4. Some Unique IMPROVE Act Projects





#### **IMPROVE Act – Quick Facts**

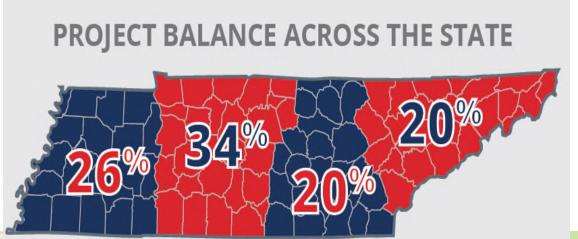
- Improving Manufacturing, Public Roads, Opportunities for a Vibrant Economy
- 962 Projects
- IMPROVE Act took effect July 1, 2017
- State's tax on gasoline was 21.4 cents per gallon in 2016
  - In 2017 increased by 4 cents
  - In 2018 increased by 1 cent
  - In 2019 increased by 1 cent
  - 2020 increased by \_\_\_\_\_?
  - 2021 increased by \_\_\_\_\_?

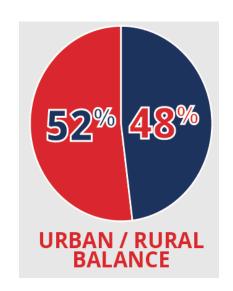


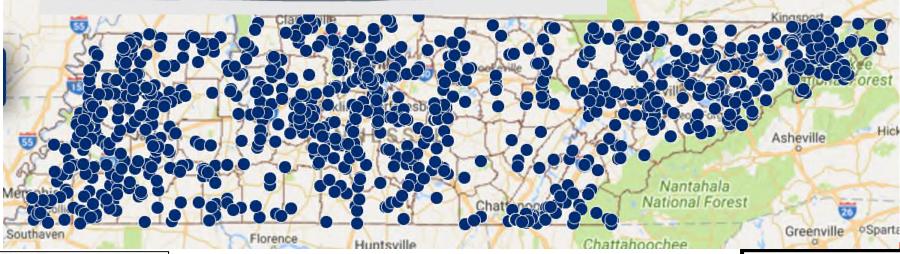


#### **Original Estimated Cost to Complete**

962 projects totaling \$10,507,484,522









#### **Cost Estimates**

- Currently we assume 5% per year for inflation
- Bridge TIRs provide current year estimate and an inflated 5yr cost estimate
- Larger Projects (Tech Reports and IARs) current year,
   5yr, and 10yr inflated cost estimates





# **Original Estimated Cost to Complete**

- \$10,507,484,522 2017
- Assuming 5% Inflation per year
- \$12,772,000,000 2021 (Rounded to Millionth)

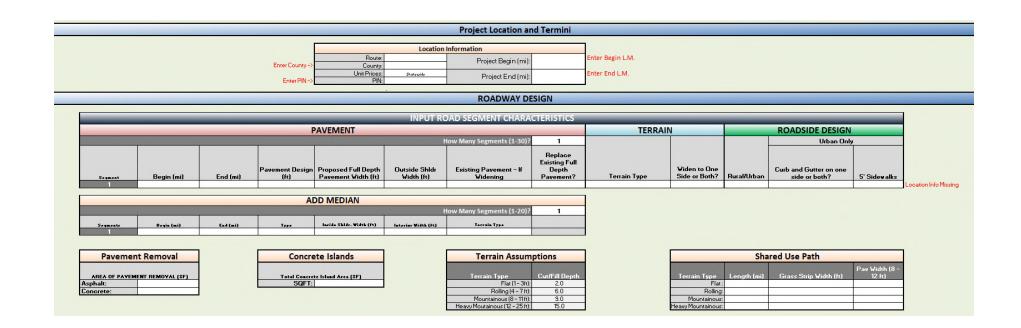
# **Cost Comparison (Original and STID)**

- Reviewed the cost estimates for 28 Tech Reports
  - Total Original IA Budget = \$1.2 Billion
  - Total Tech Report Estimate = \$1.9 Billion
- Already approximately \$700 Million over Budget
- 962 Total IA Projects





#### **STID Cost Estimates**







# **STID Cost Estimates**

DESCRIPTION	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	IOIAL
Construction Items				
Pavement Removal	\$0	\$0	\$0	\$572,400
Asphalt Paving	\$0	\$0	\$0	\$18,993,400
Concrete Pavement	\$0	\$0	\$0	\$0
Drainage	\$0	\$0	\$0	\$1,246,800
Appurtenances	\$0	\$0	\$0	\$3,572,200
Structures	\$0	\$0	\$0	\$31,691,700
Fencing	\$0	\$0	\$0	\$0
Signalization	\$0	\$0	\$0	\$0
Railroad Crossing or Separation	\$0	\$0	\$0	\$0
Earthwork	\$0	\$0	\$0	\$19,167,900
Clearing and Grubbing	\$0	\$0	\$0	\$0
Seeding & Sodding	\$0	\$0	\$0	\$161,100
Rip-Rap or Slope Protection	\$0	\$0	\$0	\$0
Guardrail	\$0	\$0	\$0	\$671,900
Signing	\$0	\$0	\$0	\$76,100
Pavement Markings	\$0	\$0	\$0	\$295,600
Maintenance of Traffic	\$0	\$0	\$0	\$701,300
Mobilization (5%)	\$0	\$0	\$0	\$3,857,500
Other Items = 10%	\$0	\$0	\$0	\$8,100,800
Const. Contingency = 10%	\$0	\$0	\$0	\$5,741,700
Construction Estimate	\$0	\$0	\$0	\$94,850,400
Interchanges & Unique Intersections				
Roundabouts	\$0	\$0	\$0	\$0
Interchanges	\$0	\$0	\$0	\$4,500,000
Right-of-Way & Utilities	LOCAL	STATE	FEDERAL	TOTAL
	0%	0%	0%	TOTAL
Right-of-Way	\$0	\$0	\$0	\$1,145,700
Utilities	\$0	\$0	\$0	\$0
Preliminary & Construction Engineering and Inspection				
Prelim. Eng. 3%	\$0	\$0	\$0	\$3,014,900
Const. Eng. & Inspec. 10%	\$0	\$0	\$0	\$10,049,600
Total Project Cost	\$0	\$0	\$0	





# **STID Progress with IA Projects**

- Tech Reports and IARs (since 2017):
  - Completed: 35
  - Under Development: 28
  - Remaining Reports: 6
- Bridge TIRs (since 2017):
  - Completed: 109
  - Under Development: 24
  - Remaining Reports: Unknown (562 Total within IA)

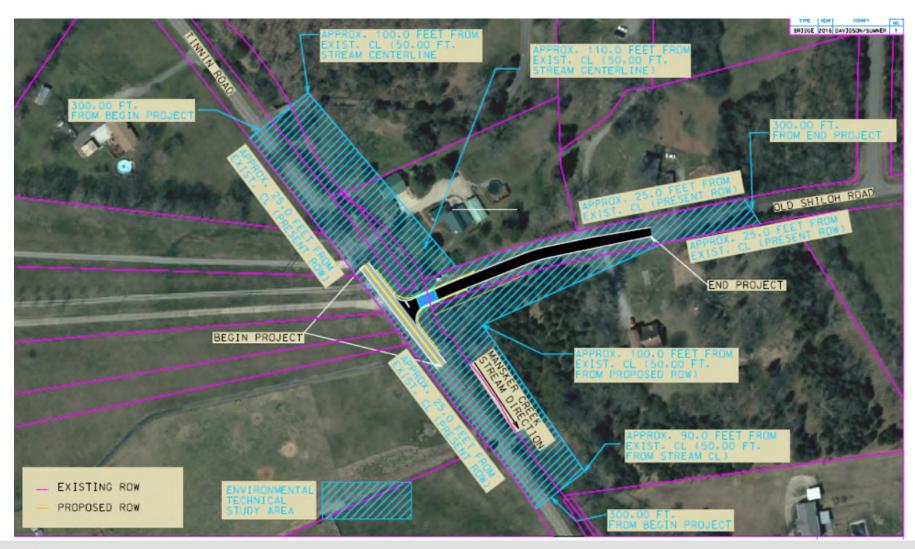
#### **ETSA**

- Environmental Technical Study Area
- Including for the following projects:
  - Bridge TIRs
  - Tech Reports
  - IARs
  - RSA's requiring design plans





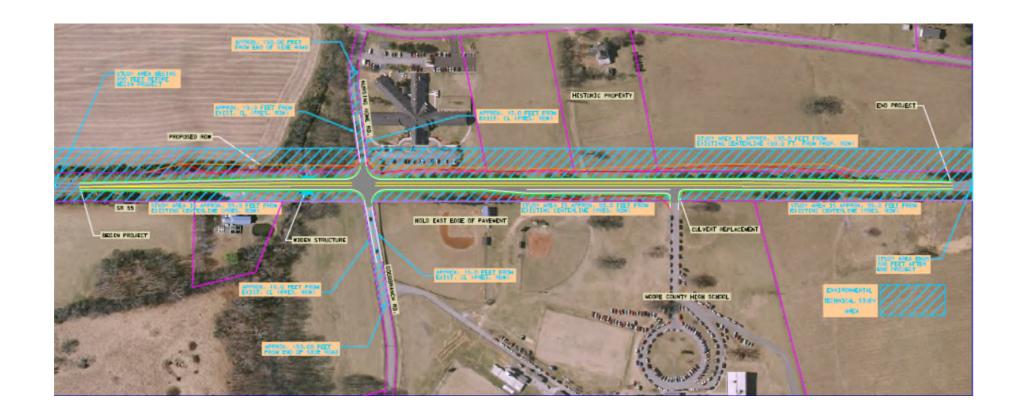
# **ETSA**







# **ETSA**







# **Other Improvements**

- Improved coordination within TDOT and Local Officials
- Internal Project Tracking
- Additional Hires
- Higher percentage of in-house work
- Where we are going:
  - ORD
  - Vissim
  - HSM





# Unique Projects





# **Rutherford SR-10 BTIR over CSX RR**







### **Rutherford SR-10 BTIR over CSX RR**







# **Rutherford 5-Interchange Tech Reports**







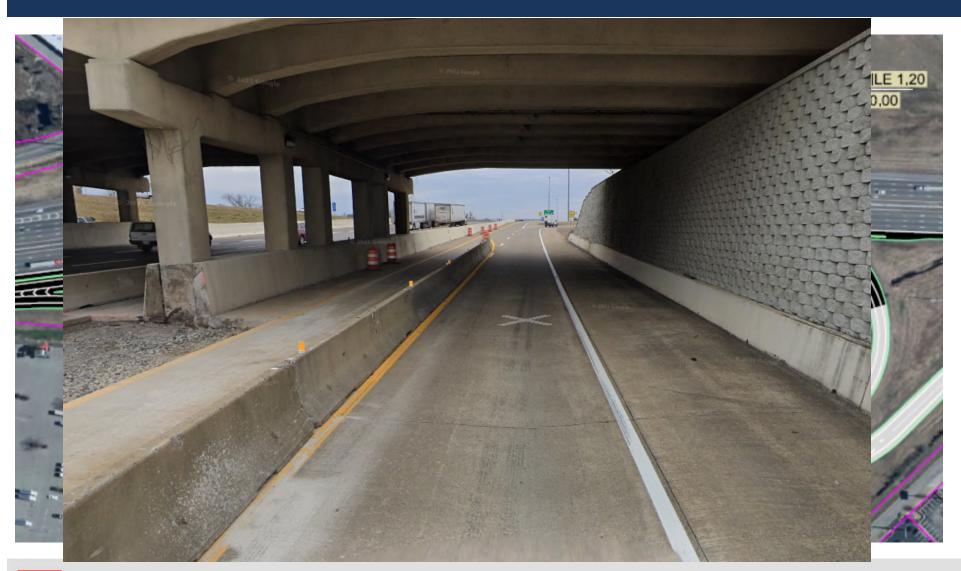
# I-24 Exit 66







# I-24 Exit 66







# Executive Order 1 Supporting Rural TN





#### **Executive Order 1**

- Signed January 23, 2019
- Requires
  - Statement of Rural Impact
  - Recommendations for Serving Rural Areas
- Involves all Executive Branch Departments
- Governor's Priority
  - TN is rapidly growing, but rural areas still have challenges





#### **TDOT's Initiative**

- Commissioner Bright and staff traveled across the state
  - Met with local officials from all counties to discuss concerns
- Governor's Rural Opportunity Summit (August 2019)
  - Commissioner Bright and Steve Allen attended







# **TDOT's Initiative (cont.)**

- STID compiled all items discussed
  - Infrastructure improvements, maintenance activities, safety enhancements, and economic development opportunities
- TDOT sent status updates to local officials on October 23, 2019
- By September 1, 2020, 75 requests had been completed for a total investment of \$55.8 million





# **Evolving Process**





#### **Statewide Initiative**

#### Rural Enterprise Management

 State's avenue for facilitating enterprise-wide accountability for the Governor's priority of supporting rural TN

#### Rural Commissioners Group

Comprised of 12 state departments that meet quarterly





























# **Rural Commissioner's Group**

#### Four Objectives

- Reducing Programmatic redundancy
- Increasing cross-department and federal collaboration
- Enhancing and creating new ways of assisting communities through innovation and disruption
- Partnering with communities to enhance state and local alignment
- Main goal is to increase coordination and improve efficiency

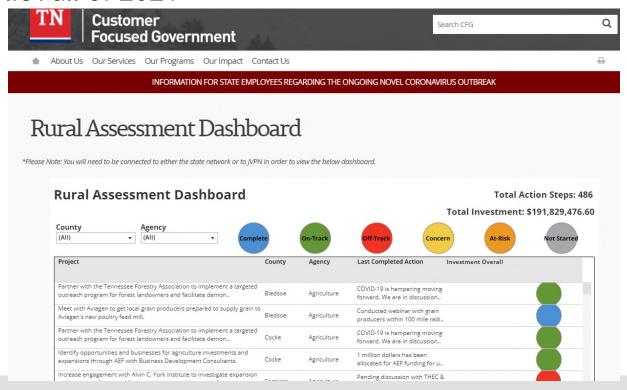




# Statewide Initiative (cont.)

#### Rural Assessment Dashboard

- Shows tracked priority projects and investments
- Currently only viewable by State Employees, but is expected to be Public Fall of 2021







#### Rural Assessment Dashboard

#### FY21 updates

- 12 agencies currently working on 503 projects
  - Spread out among 11 distressed and 4 at-risk communities
- \$201,022,742 has been invested in action steps to date
- 67 projects are Complete, and 393 projects are On-Track
- 7 projects are at-risk of not being completed
- 10 projects are off-track
- 12 projects have concerns
- 14 projects have not been started





#### **TDOT's Action Items**

#### TDOT FY 21 Updates

- 19 projects are On-Track
- 1 project is off-track
- 11 projects have concerns
- 4 projects have not been started

#### Reasons for Concern

- Lack of funding
- Environmental concerns





# **Moving Forward**

- Governor's Quarterly Rural Newsletter
- Community Action Items for FY 22
  - Updated County Designations
  - 20 total projects
- Coordination with local officials yearly





# State Industrial Access (SIA) Program Update





### **SIA Program**

- Assists in providing connections for new or upgrading industries
- Typically allotted \$30 million per year
- Utilizes a Cost/Benefit Ratio to determine eligibility
  - Includes factors such as capital investment, annual payroll, and jobs created





### **Project Timeline**

- At candidate phase, STID turns around a concept and cost within 2 weeks
  - Missing data such as forecasted traffic, region input, or others could delay our delivery
- From project approval to letting is approximately 28 months
- Construction takes approximately 12-18 months





## **Current Projects**

- 65 current Active and Candidate projects
- Since 2010, 157 projects have been completed
  - 71,349 jobs created
  - \$17.5 billion capital investment
  - \$301.2 million invested by the state

- Example project already completed:
  - Tufting Court in Davidson County
  - Completed 8/30/2019 for just over \$500,000





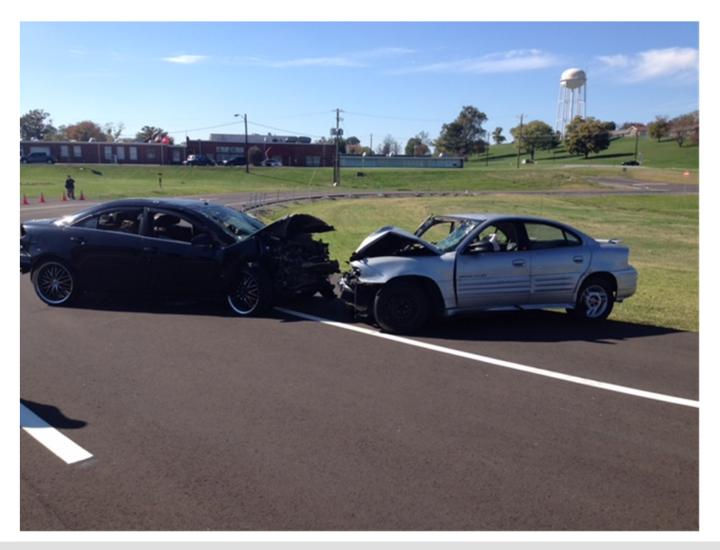


# Safety Update





# Traffic Incident Management Facility







# Traffic Incident Management Facility







# Traffic Incident Management Facility







#### **TDOT HSIP Funding**

Highway Safety Improvement Program (HSIP) (~\$50 million/year)

Road Safety Audit (RSA)

(~\$25-30 million/year)

- STID Project Safety Office
- Operations Division
- Multi-modal Division
- Statewide resurfacing program (~\$10-15 million/year)
- Spot Safety (~\$4 million/year)
- Tennessee Highway Safety Office





# **Road Safety Audit/Initiatives**

#### Safety Projects: year/total -let/cost

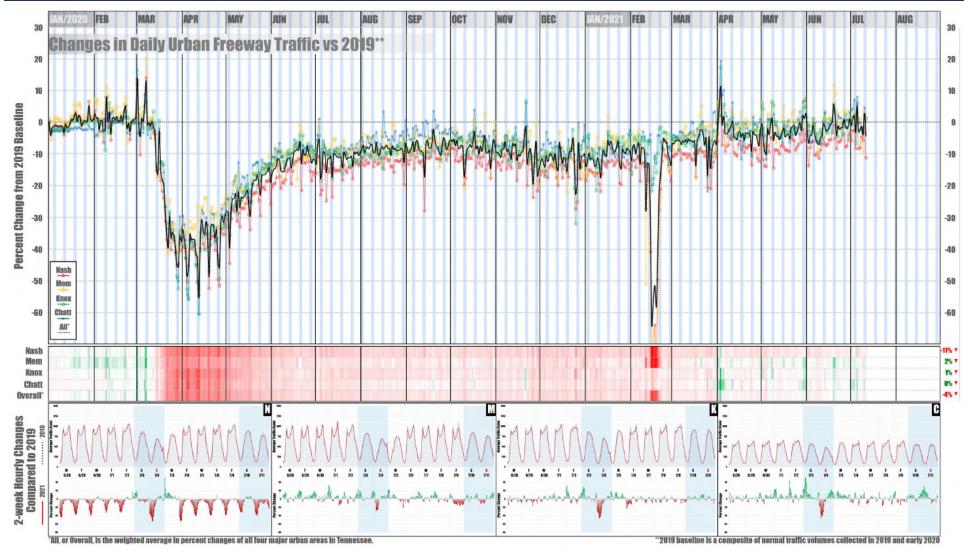
•	2016	92 - total Safety Projects let to contract	Cost: \$23,242,490
•	2017	111 - total Safety Projects let to contract	Cost: \$61,528,220
•	2018	86 - total Safety Projects let to contract	Cost: \$38,636,530
•	2019	50 - total Safety Projects let to contract	Cost: \$49,541,600
•	2020	85 - total Safety Projects let to contract	Cost: \$38,575,100

Total: 424 let to contract Cost: \$211,523,940





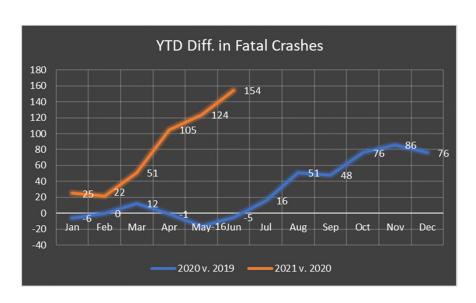
# **Tracking Traffic During COVID-19**

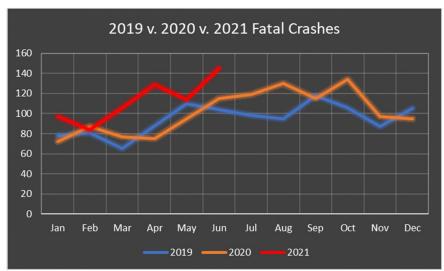






## Fatal Trends 2019 v. 2020 (TN FARS 7/13/21)





	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Total
2019	78	81	65	88	110	104	98	95	118	106	87	105	1135
2020	72	87	77	75	95	115	119	130	115	134	97	95	1211
2021	97	84	106	129	114	145	-	-	-	-	-	-	675
YTD Difference	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YTD Diff
2019-2020	-6	6	12	-13	-15	11	21	35	-3	28	10	-10	<b>76</b>
2020-2021	25	-3	29	54	19	30	-	-	-	-	-	-	154





## **Work Zone Crashes**

Т							
	2018	2019	2020	<b>2021</b> (as	of 6/9/21 report)		
Total WZ Crashes	1930	1971	1709	744		1000	
Injuries	793	900	612	318		800 — 700 — 500 — 400	
Fatalities	20	20	17	5		300 — 200 —	













#### **National Trends**

**US National Library of Medicine National Institute of Health - Study** 

- Coronavirus disease 2019: What could be the effects on road safety?
- Usually, economic decline causes decreases in Travel and Exposure thus reducing the risk of collisions
- COVID-19 pandemic has impacted driver behavior with increased stress, more "free" (idle) time, increased consumption of alcohol and drugs, and greater opportunities for speeding and stunt driving, which have the opposite effect on road safety
- California Highway Patrol issued almost 2500 citations for driving over 100 mph from mid-March to mid-April 2020, an 87% increase over 2019
- In the United States, there was a 30% increase in drivers speeding in excess of 100 mph





# Thank You!

# Questions & Comments





#### **Contact Information**

#### Steve Allen, Director

Strategic Transportation Investments Division

Tel: (615) 741-2208

E-mail: Steve.Allen@tn.gov



