

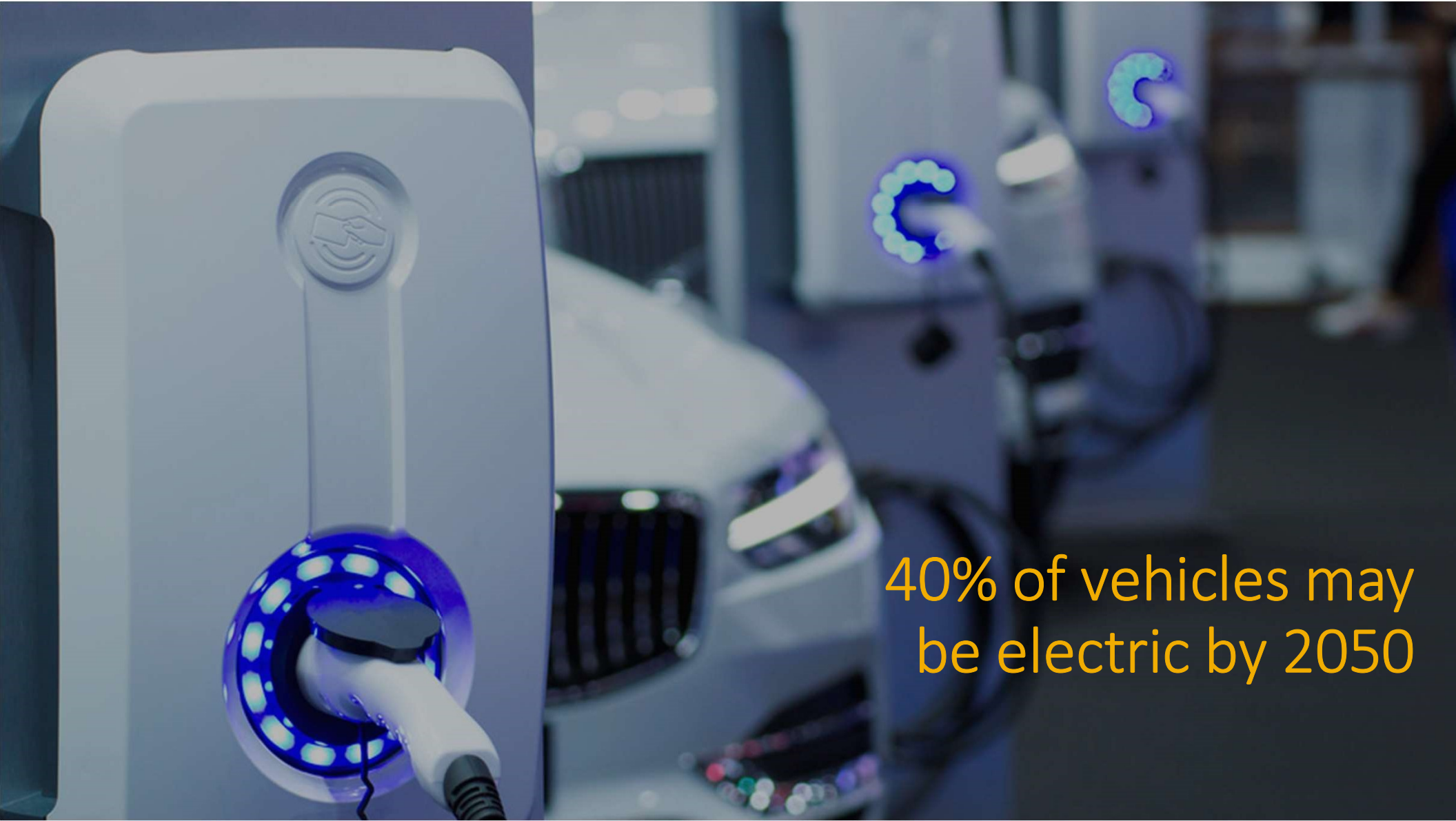
# Impact of EV and Hydrogen Vehicles to the State Highway Fund

January 27, 2022





AS NEW VEHICLES EMERGE/REVENUES WILL DECLINE



40% of vehicles may be electric by 2050





## Vehicle Registrations in Kansas

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<b>Total Registered Vehicles</b>	<b>1,970,913</b>
<b>Total Electric and Hybrid Vehicles</b>	<b>6,763</b>
<i>Electric Vehicles</i>	<i>3,679</i>
<i>Hybrid Vehicles</i>	<i>3,084</i>

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## Registration Fees in Kansas

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Electric Vehicles	\$50
Electric-hybrid & Plug-in hybrid vehicles	\$100

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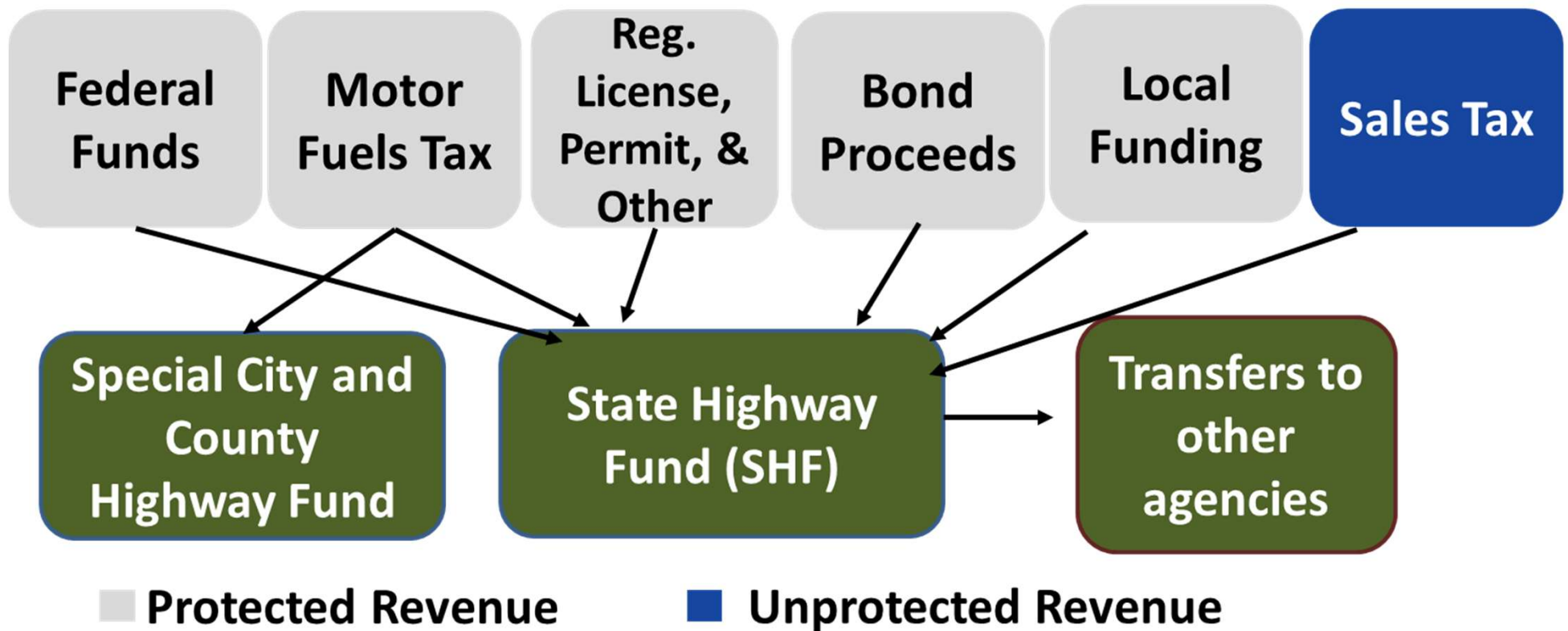


**No vehicles registered as hydrogen in Kansas.**

**No hydrogen fueling stations in Kansas – currently only in California and Hawaii**

# How does Kansas fund transportation?

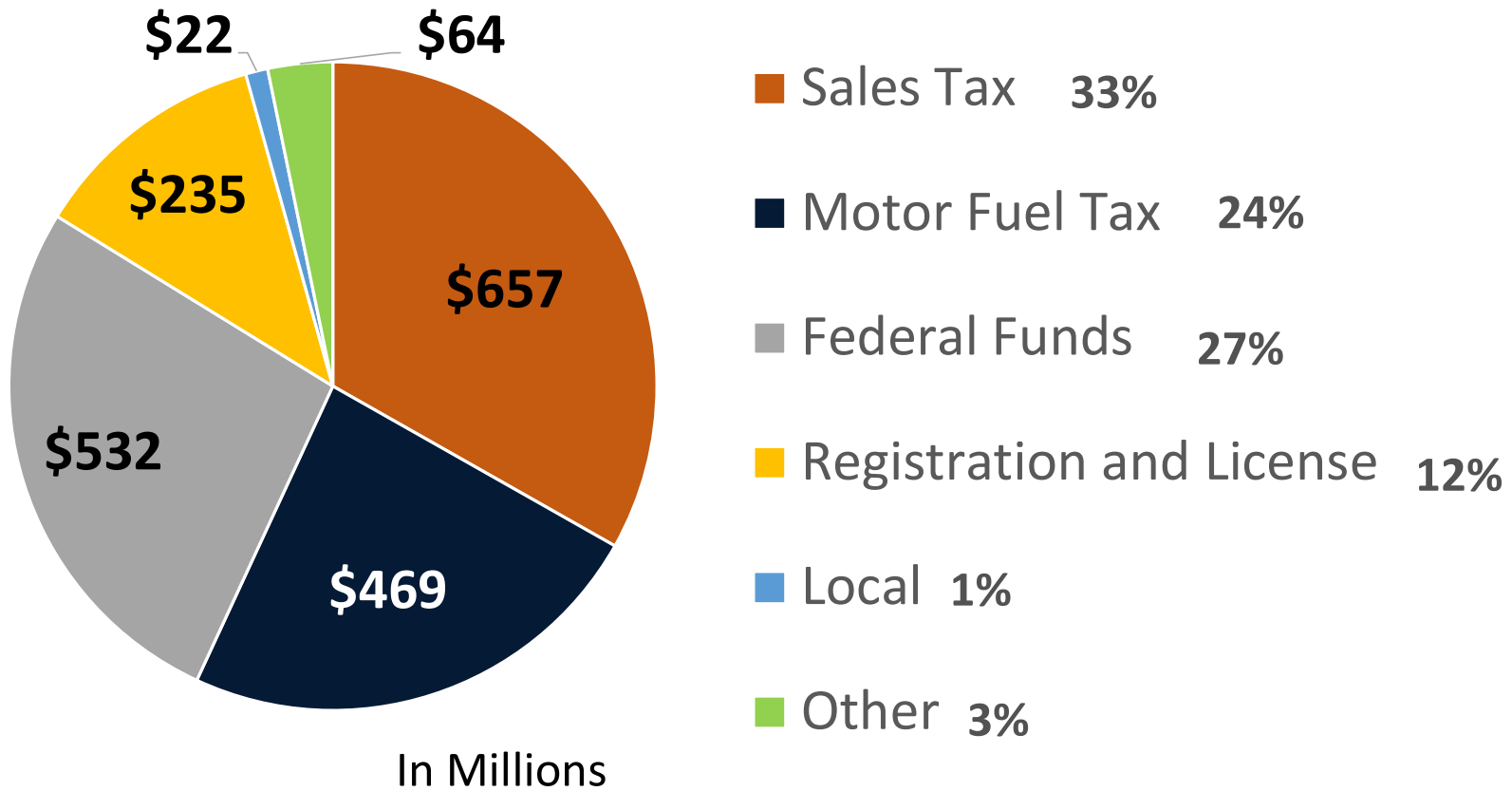
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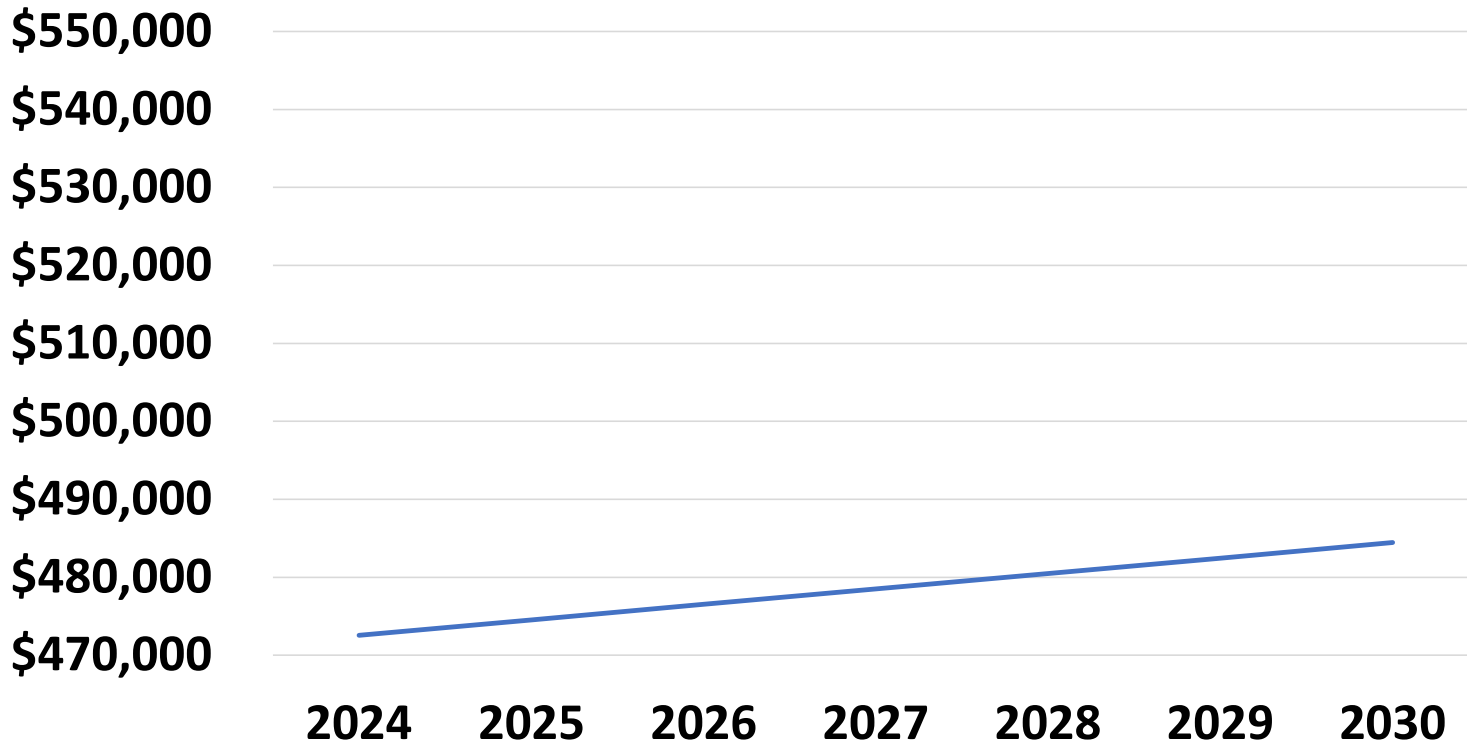


# FY 2022 Revenue Sources – (All Funds)

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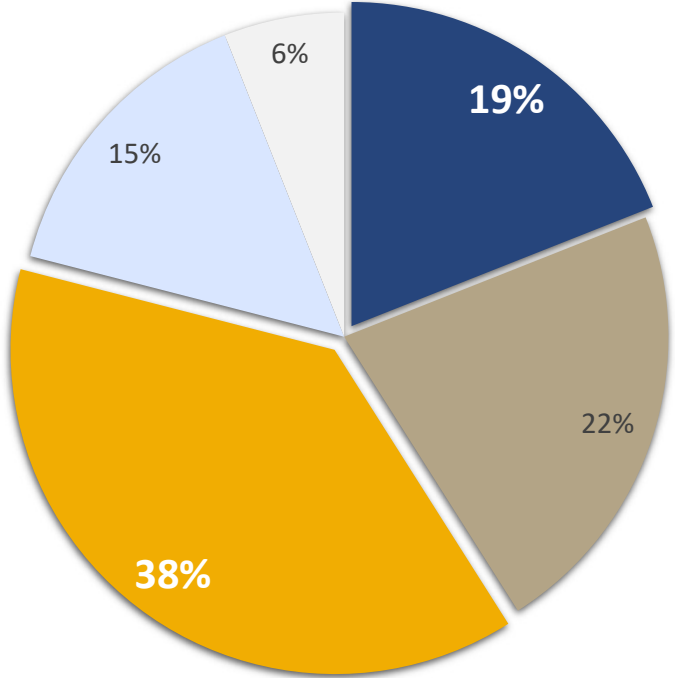
# Motor Fuel Tax Revenue Projections



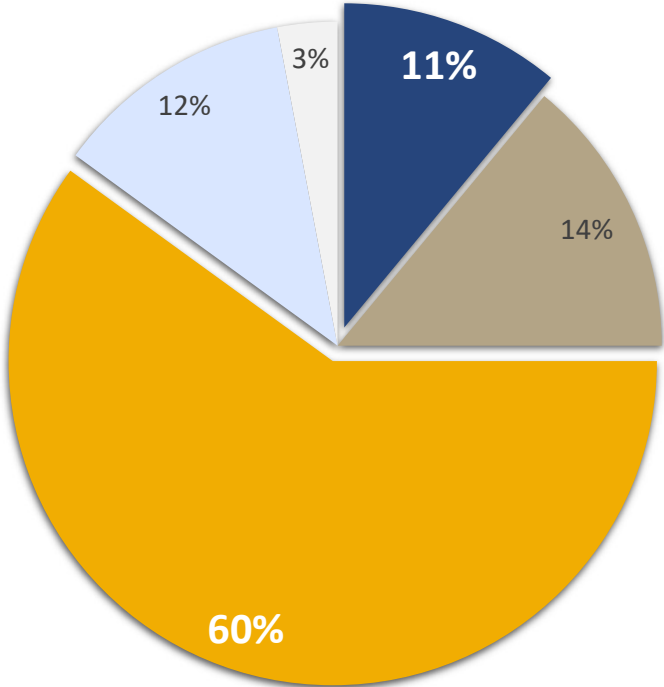
**Projected  
growth is  
less than 1%**

# Transportation Funding is Changing

Revenue Mix in FY2021



Revenue Projection for FY2045



- State Motor Fuel Taxes
- Federal Fuel Taxes & Fees
- State Sales Tax
- State Driver & Vehicle Fees
- Local Construction



## What are other states doing?

- Many implemented increased registration fees
- Many exploring a Road Usage Charge (RUC) through pilots and studies
- Vermont looked at adding a tax on electricity used to charge EVs at public charging stations
- Colorado and Pennsylvania are considering a flat tax on all E-commerce transactions, at the point of sale



## What are other states doing, cont.

In Utah, owners of electric and hybrid vehicles have two options:

- Pay an alternative fuel flat fee during annual vehicle registration
  - Electric - \$123
  - Plug-in Hybrid - \$53.25
  - Gas Hybrid - \$20.50

**OR**

- Enroll in the Road Usage Charge program
  - Charged 1.5 cents per mile up to the alternative fuel flat fee amount.
  - Depending on the number of miles driven, people may pay less by enrolling in Utah's Road Usage Charge program.

# What is KDOT doing: Adding a Midwest perspective



Rural Communities

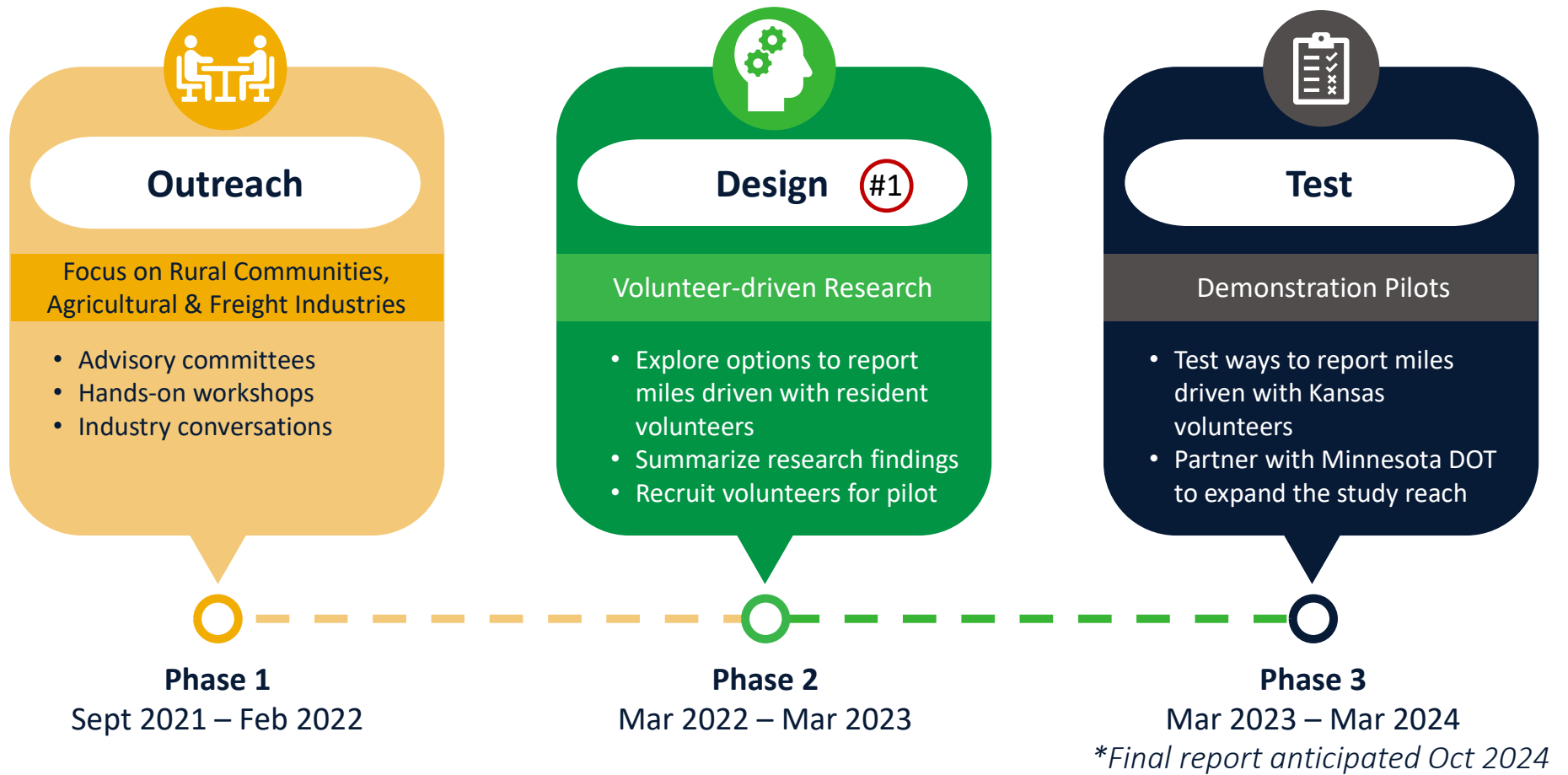


Agriculture  
Industry



Commercial Trucking

# MIDWEST ROAD USAGE CHARGE (RUC) STUDY



# BIL funds

## Annual Funding Increase

**HIGHWAYS: \$89 million**

Federal-aid highway funding

**BRIDGES: \$45 million**

Funds targeted for bridges in poor/fair condition.

**ELECTRIC VEHICLE INFRASTRUCTURE: \$8 million**

Charging infrastructure, education & outreach

**RURAL TRANSIT: \$3.7 million**

KDOT administers rural transit funds

**TOTAL \$145.7 million**



**Discretionary Grant Programs**





## \$2.5 Billion in Discretionary Grants for EV Charging

- **\$1.25 B for Community Grants**
  - Prioritizes:
    - Rural areas
    - Low/Moderate income neighborhoods
    - Communities with low-ratio of private parking spaces or high ratio of multi-unit dwellings



# Initial EV effort: funded by VW Settlement

## Strategic locations

<b>Project Sponsor</b>	<b>Station Location</b>
Mitten, Inc.	I-70: Oakley – Mitten’s Travel Center
Triplett, Inc.	I-70: WaKeeney – 24/7 Travel Store
Francis Energy LLC	I-70: Russell – Fossil Station Convenience Store
Triplett, Inc.	I-70: Abilene – 24/7 Travel Store
Triplett, Inc.	I-70: Maple Hill – 24/7 Travel Store
Francis Energy LLC	I-35: Matfield Green service area – EZ Go #73
Francis Energy LLC	I-35: Belle Plaine service area – EZ Go #75



**Thanks to local utilities for supporting these projects**



## This is a step forward, but more work remains

### **BIL Focus:**

- ▶ Focus on providing charging infrastructure for long-trips,
- ▶ Established corridors
- ▶ Making sure all communities have access to infrastructure

### **More work needed:**

- ▶ How to we make residential-charging easier, more feasible to more people
- ▶ New to this, more partnerships needed.
- ▶ Education



## Questions around the future of gas tax

- Privacy
- Cost to collect
- National, regional, local systems interoperability
- EV and hybrid incentives
- Manufacturers required to sell
- Urban and rural equity
- Ease of use
- Change is hard
- Induction charging
- New technologies



*Thank you for thinking about the future  
because it's messy*

