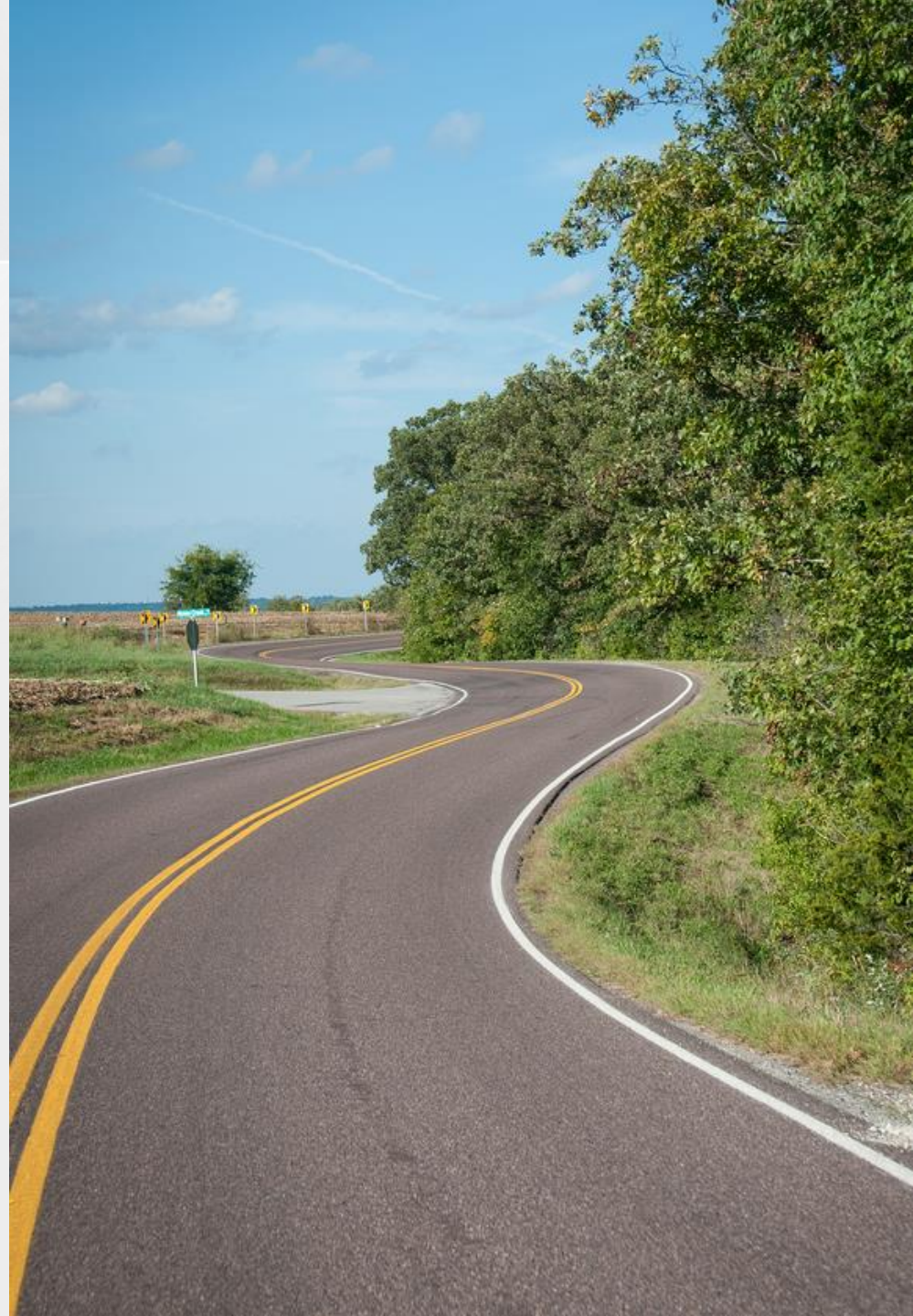


University of Missouri Engineering Forum

Ed Hassinger, Chief Engineer
Missouri Dept. of Transportation

Beyond Engineering:

Looking beyond design and construction to the public involvement, funding, and innovations that are part of public infrastructure.



Building a Consensus



- Addressing the need
- Finding the solution
- Working with partners



Building a Consensus

- Public Involvement
- Transparency
- Communication – early and often



Finding the Funds

- Missouri's Stark Reality –
 - Dwindling fuel tax revenue
 - Insolvent Federal Highway Trust Fund
 - Inflation limits purchasing power

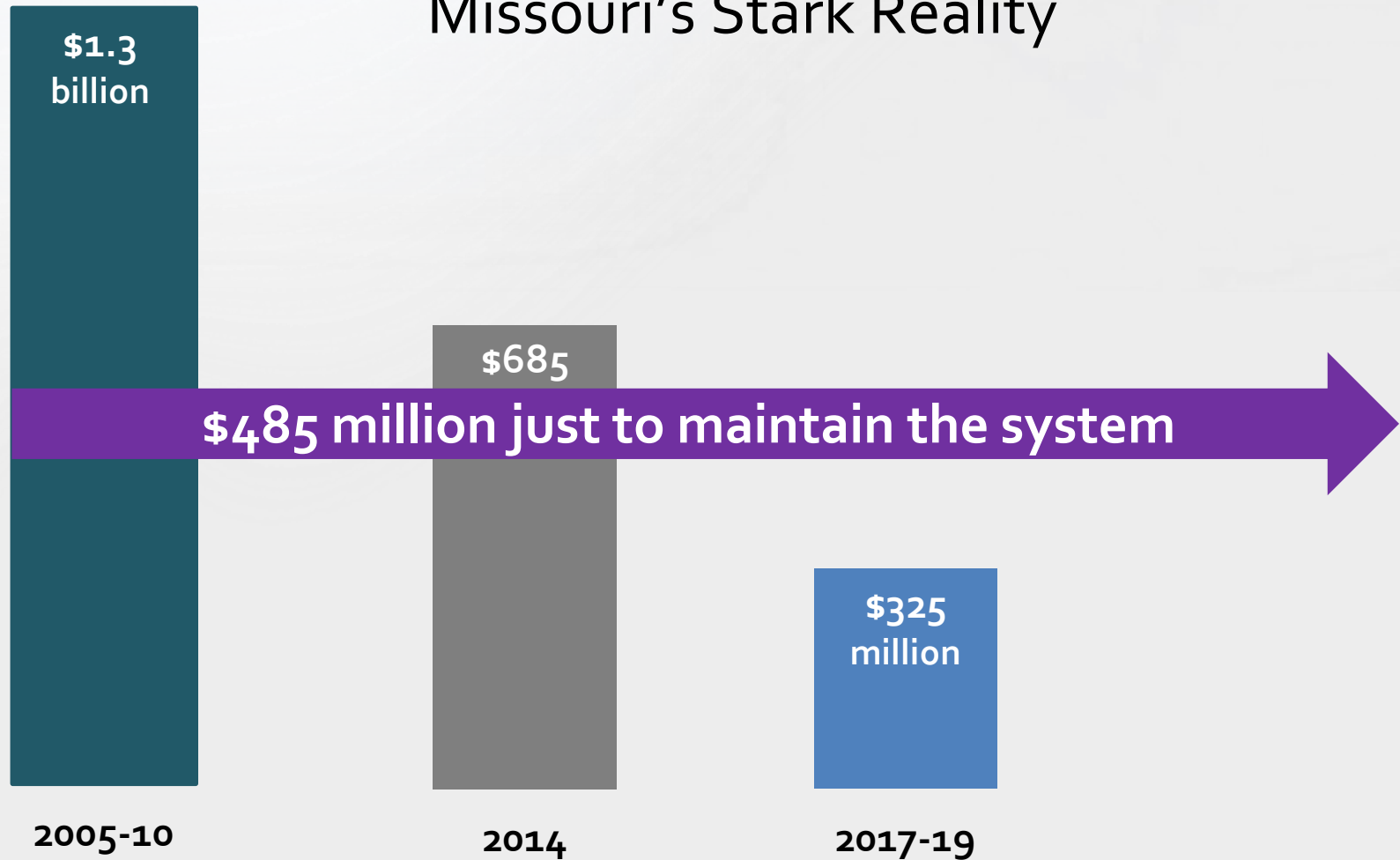
MISSOURI HAS MORE STATE HIGHWAY MILES
THAN KANSAS AND ILLINOIS COMBINED



BUT WITH ONLY 1/3 OF ILLINOIS' REVENUES

Finding the Funds

Missouri's Stark Reality



Innovations – Project Delivery

- Design Build
- Alternative Technology Concepts
- Add Alternate Bidding



Safe & Sound Bridge Program



Rte. 5 Shared-Four Lane, Camden



I-70 Mississippi River Bridge, St. Louis



I-64, St. Louis



kclcon Bridge, Kansas City



I-44 & Kansas Expy Interchange, Springfield

Innovations – Managing the System



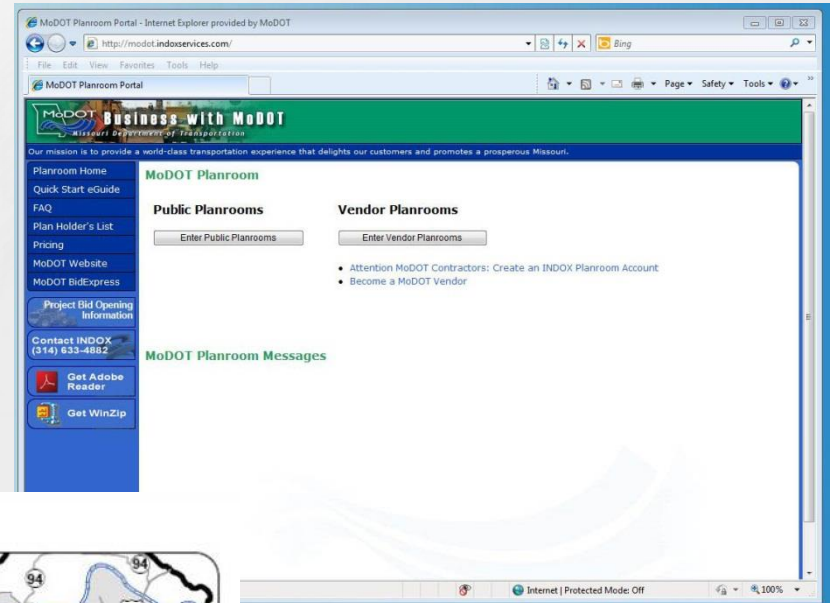
- Adaptive signal control
- Coordinated arterials, freeways, work zones, incidents



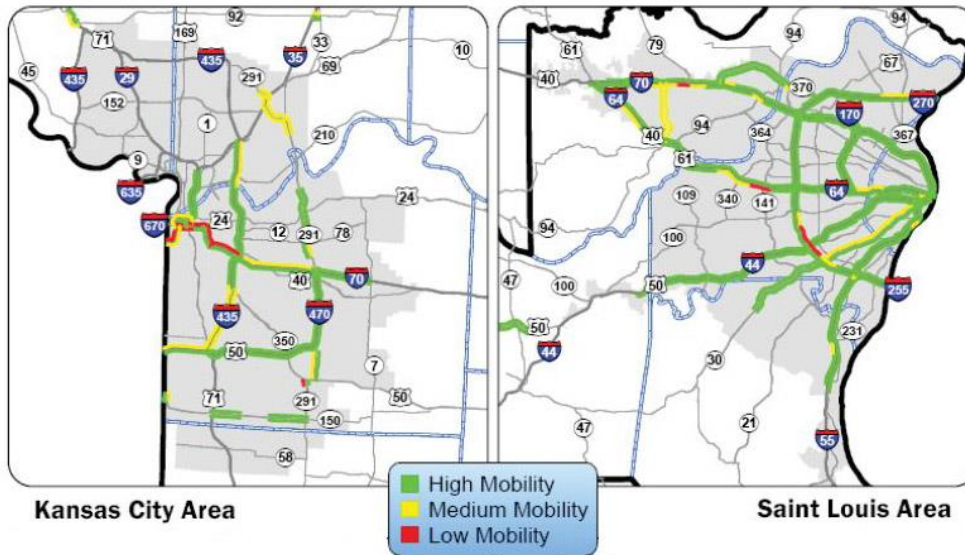
Innovations – Intelligent Compaction



Innovations – Technology, Electronic Plans



AM Mobility

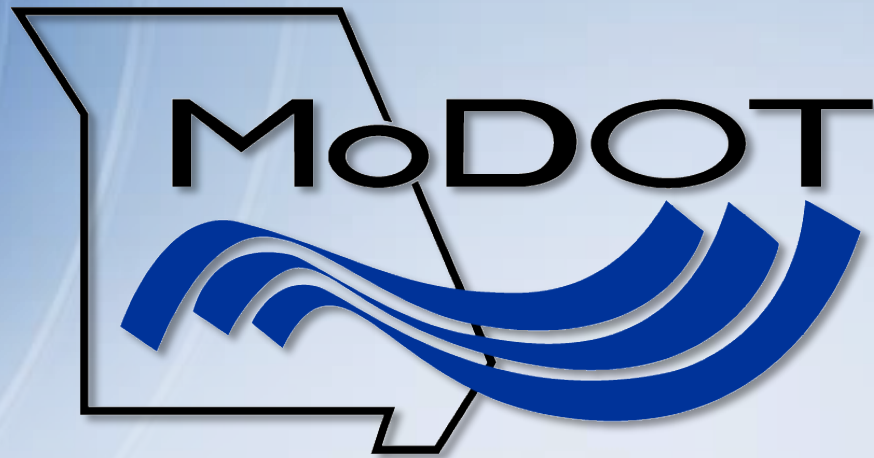


Freight in Missouri

- Missouri freight is expected to increase from 600 million tons in 2011 to an estimated **1 billion tons** in 2014
- 2012 Missouri freight exports totaled **\$13.9 billion**
- Every \$1 invested in transportation generates **\$4 in economic activity**
- Improved transportation system can lower transportation costs and help **create more jobs**

One company's example:





Questions?

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