Transportation Research and Innovation in Virginia

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Rapid Evaluation
Elastomeric Concrete Plug Joints: A New Bridge Deck Joint System

• Conventional bridge deck joints cost less than 0.5% of bridge construction cost.
• Nearly all of them are observed to leak within 3 years.
• Leading cause of beam end, abutment, bearing, and pier deterioration.

Now VDOT has a new durable joint system that does not leak.
Automated Virginia
# Innovation and Technology Transportation Fund

## Improve Safety
- Regional Multimodal Mobility Program
- I-95 Active Traffic Management
- Virtual ATM
- I-64 Afton Mountain Safety Improvements
- Data Analytics for Safety
- Worker Alert
- Cybersecurity Upgrades for Operations

## Reduce Congestion
- Regional Multimodal Mobility Program
- Performance Parking
- I-95 Active Traffic Management
- Virtual ATM
- Arterial Operations Dashboard
- Signal Controller Connectivity
- I-64 Afton Mountain Safety Improvements

## Improve Traveler Information
- Regional Multimodal Mobility Program
- Performance Parking
- I-95 Active Traffic Management
- I-64 Afton Mountain Safety Improvements
- Data Analytics for Safety
- Worker Alert
- Customer Service Bots

## Enhance Emergency Response
- Signal Controller Connectivity
- Data Analytics for Safety
- Worker Alert

## Improve Mobility
- Hanover Specialized Transit
- MicroTransit Pilot
Thank you.

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