Using existing infrastructure for ITS, incident detection and data collection through computer-vision
What is it?

- Advanced technology to analyze video streams
  Tracking vehicles with advanced algorithms
- Uses existing camera architecture
- Purpose for ITS: **Improve, Increase, Grow**
Next-Generation Technology

More Advanced Approach Using Computer-Vision

Comparison:

- **Yields more robust results**

- **Leads to occlusion, spillover, and data errors**
In Action
In Action
In Action
In Action
In Action
In Action
Improve Safety

- Immediate incident notification
  Faster, accurate EMS deployment

- Enable proactive decision-making
  Data-driven analysis; immediate and long term

- Off-site monitoring
  Employees / tech’s need not be in the field
Increase *Efficiency*

- Surveillance cameras already deployed
  Use them as proactive sensors
- No need to replace existing cameras
- Continual improvement
  Seamless technical updates
Grow *in ITS coverage*

- **TrafficVision** is scalable
  - Easily grows along with added cameras
  - Camera type can be chosen by user

- Flexible
  - Monitor any place with existing cameras; natural disasters, special events, construction
  - Works in varying environments
Questions?
Units

**TMC**
- Supports up to 24 video streams
- Designed for use at the TMC
- MPEG-2/4, M-JPEG, H.264 compatible

**TMC Remote**
- In-office recorded video streaming
- Military-grade durability for onsite deployment
- MPEG-2/4, M-JPEG, H.264 compatible
- Analog compatible

**TMC Edge**
- Supports 4 video streams
- Designed for in-cabinet processing; up to +70°C
- MPEG-2/4, M-JPEG, H.264 compatible