

NSF FORCES and Connected Corridors Projects, UC Berkeley Institute for Software-Integrated Systems, Vanderbilt University

The **Smart Roads** testbed / system integrates advanced control algorithms and high-fidelity simulation software with real-time data to *predict* and *manage* traffic flows, to support **resilience** to cyber attacks.

## The Status Quo:







Emergency vehicles delayed due to traffic



World's largest traffic jam: 100+ Km/10+ days





**FHWA ITS Connections** 

Cyber Attacks

Cobweb of global critical IT Infrastructure

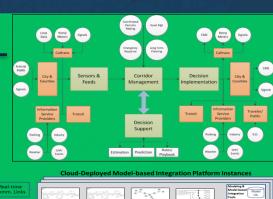
## Complex Scaliffication of Complex Comp

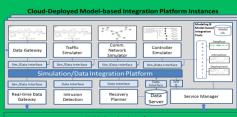
## **Our Solution:**

Connected Corridors (CC)

High-fidelity simulation software (C2WT)







WEB-Service Interface





**Well-managed and resilient traffic flows**