NASS: Cybersecurity Concerns Across Ground Infrastructure and in Space
ACM is a new type of proving ground optimized for validating Connected & Automated Vehicles (CAVs) and other mobility technologies.
REAL WORLD TESTING
For the Future
COMPREHENSIVE CONNECTED/AUTONOMOUS VEHICLE TEST ENVIRONMENT

Over 500 Acres
Variable Road Systems
Customizable Test Environments
Environments to Challenge Technologies
Private Vehicle Laboratories

Variable road systems and configurable test environments with enabling infrastructure.

American Center for Mobility
CONNECTED. AUTOMATED. VALIDATED.
REAL-WORLD TEST ENVIRONMENTS

- ACM repurposed real road systems into its test environments.
- Public traffic runs around, but not inside of the test center.
- Road systems are built to public standards.
CAV TESTING NEEDS

Replicating Real World Scenarios:

• V2X Interoperability

• Vehicle sensor function and environmental perception

• Interaction of the vehicle with real world road and communications infrastructure

• With large amounts of vehicles

• With other types of road users

• With multiple (competing) companies
TEST EQUIPMENT: ROBOTIC SOLUTIONS

SR60 TORUS STEERING ROBOT

CBAR600 – COMBINED BRAKE AND ACCELERATOR ROBOT

GST – GUIDED SOFT TARGET

American Center for Mobility
CONNECTED. AUTOMATED. VALIDATED.
NETWORK & INFRASTRUCTURE

4G LTE (PRIVATE) & 5G SUB-6 CELLULAR

FIBER OPTIC CABLE BACKBONE

OPTIMIZED CELL COVERAGE

DSRC (15 RSUS)

CLOUD - DATA MANAGEMENT & ANALYTICS PLATFORM

90MW SUBSTATION (2.2MW OFF-GRID BACKUP)

Leading infrastructure to support CAV development
TEST EQUIPMENT: CONFIGURABLE INTELLIGENT TRANSPORTATION SYSTEM

ACM OCTANE is a cloud-based tool that allows engineers to select environments and configure the technologies to meet specific use case scenarios.
GRIMM is onsite at ACM offering integrated automotive cybersecurity services and Car-Hacking Workbench to ACM customers.