Center for Intermodal Transportation Safety and Security

Panagiotis Scarlatos, Ph.D., Director

Florida Atlantic University
College of Engineering and Computer Science
Center for Intermodal Transportation Safety and Security

PASSED HOUSE
OCTOBER 2003

PASSED SENATE
JANUARY 22, 2004

Funded August 2004

SIGNED BY PRESIDENT BUSH
December 8, 2004
(Public Law 108-)

FTA

FHWA

Funds Activated
October 2004

SIGNED BY PRESIDENT BUSH
JANUARY 23, 2004
(Public Law 108-199)

$7,000,000 for Fiscal Year 2004

$3,000,000 for Fiscal Year 2005
Center for Intermodal Transportation Safety and Security

Partners

Lehman Center for Transportation Research
at Florida International University

Center for Advanced Transportation Systems Simulation
University of Central Florida

Center for Urban Transportation Research
at the University of South Florida USF
Center for Intermodal Transportation Safety and Security

Center Services

- Infrastructure risk assessment
- Dispersion modeling for chemicals, bio-chemicals and radiation
- 3-D simulation of disaster scenarios
- Commercial vehicle weigh in motion systems
- Unmanned aerial vehicle applications for disasters
- Interoperability communications for emergency management
- Economic and environmental impact analysis
- Optic, acoustic, chemical and biological sensor applications
- Traffic modeling for emergency evacuations
- Tracking systems for hazardous materials
Center for Intermodal Transportation Safety and Security

Simulation Applications

- Table Top Exercises
- Traffic Modeling
- Infrastructure
- Vulnerability Assessment
- Dispersion Modeling
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Port Everglades
Center for Intermodal Transportation Safety and Security

Port of Jacksonville Simulation Project at FAU

Funded by US DOT
Center for Intermodal Transportation Safety and Security

Washington Metro Simulation Project at FAU

Platform Below Union Station

Funded by US DOT
Evacuation Traffic Modeling

For Center for Emergency Preparedness and Response

Johns Hopkins University

Source: VISSIM
Center for Intermodal Transportation Safety and Security

FAU and UCF Weigh in Motion Model
At the Port of Jacksonville

OVERWEIGHT
Your Weight is 85,000 lbs

DMS
Camera
Port Exit
Truck
WIM Strips
Center for Intermodal Transportation Safety and Security

Project Safe Flight
In Cooperation with the Air National Guard and the FAA

Safe use of Unmanned Aircraft Systems (UAS)* for Disaster, Incident and Emergency Management in Restricted Airspace to perform:

- **Command and Control Connectivity**
  -- Safety Procedures and Ground Communications
  -- Communications Platform for Responders

- **Disaster Recovery Assessment / Emergency Response / Asset Management**
  -- Video Surveillance of Infrastructure Damage
  -- Safety and Security of Responders

- **Environmental Impact Analysis**
  -- Chemical/Biological/Radiological Detection
Contact

Center for Intermodal Transportation Safety and Security
Florida Atlantic University
777 Glades Road, EG 230
Boca Raton, FL 33431
561.297.0466, fax: 561.297.0493
citss@fau.edu

www.fau.edu/citss