2019 CRA/CCC Leadership in Science Policy Institute
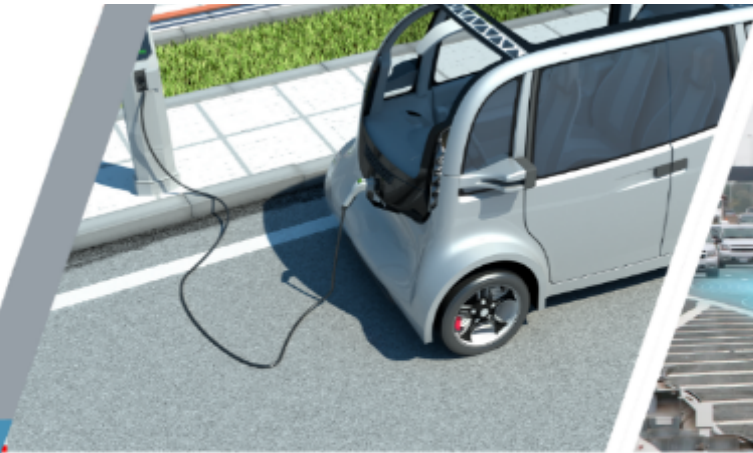
INTERACTING WITH AGENCIES/ CREATING NEW INITIATIVES

November 22, 2019
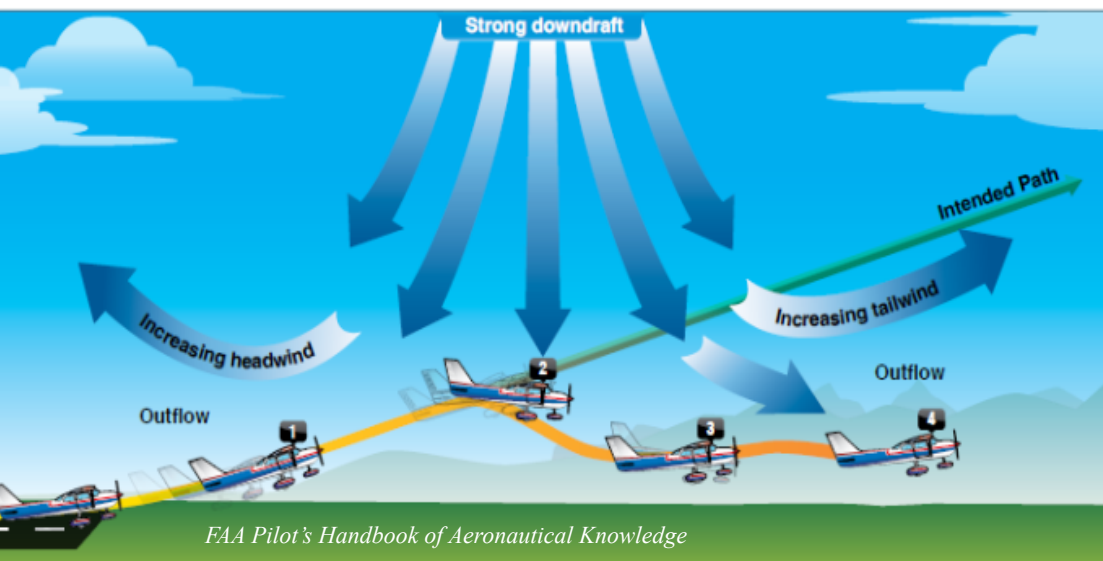
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U.S. Department of Transportation

SCIENCE SOLVING A TRANSPORTATION PROBLEM – WINDSHEAR

FAA Pilot's Handbook of Aeronautical Knowledge

Cockpit Voice Recorder Database, visit at www.tailstrike.com

WINDSHEAR CRASHES

Airline/Flight	Location	Date
Ozark Airlines Flight 809	Normandy, MO	1973
Eastern Air Lines Flight 66	New York City, NY	1975
Continental Airlines Flight 426	Denver, CO	1975
Allegheny Airlines Flight 121	Philadelphia, PA	1976
Continental Airlines Flight 63	Tucson, AZ	1977
USAir Flight 179	Dayton, OH	1982
Pan American Flight 759	New Orleans, LA	1982
USAir Flight 183	Detroit, MI	1984
United Airlines Flight 663	Denver, CO	1984
Delta Airlines Flight 191	Dallas, TX	1985
USAir Flight 1016	Charlotte, NC	1994

Have a strategy

Know your science, what it can do, by when

Identify the problem/need you will solve

Identify the stakeholders/competitors/naysayers

Identify key authorities, processes, constraints, limitations, and barriers

Build the business case

Identify champions and partners

Manage priorities

Manage risks and mitigation strategies

Work, communicate, deliver

Beware the valley of death

The ITS JPO's role is to coordinate the U.S. DOT's ITS research and deployment portfolio.

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- Federal Highway Administration
- Federal Motor Carrier Safety Administration
- Federal Railroad Administration
- Federal Transit Administration
- Maritime Administration
- National Highway Traffic Safety Administration
- Office of the Assistant Secretary for Research and Technology
- Pipeline and Hazardous Materials Safety Administration
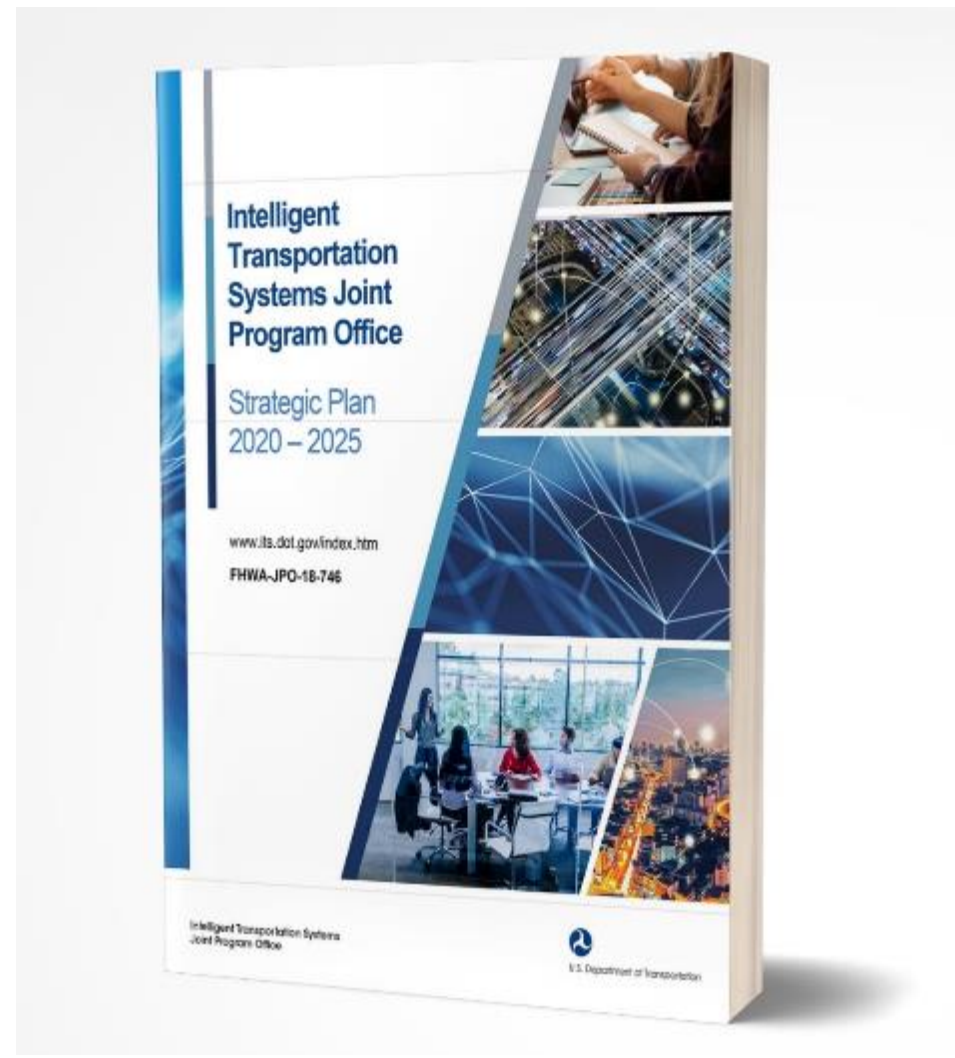- St. Lawrence Seaway Development Corporation

VISION

Accelerate the use of ITS to transform the way society moves.

MISSION

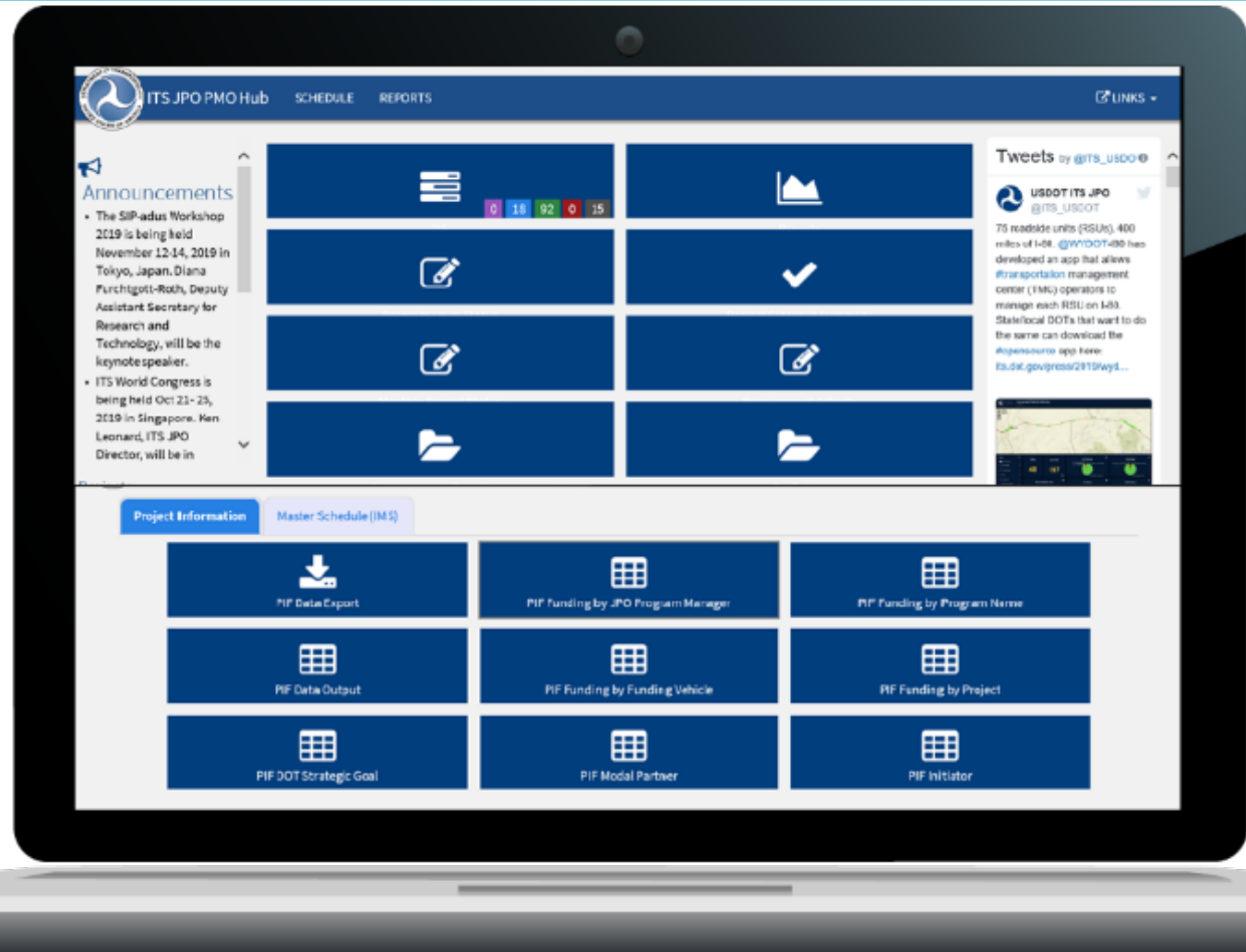- The ITS JPO leads collaborative and innovative research, development, and implementation of intelligent transportation systems technologies to improve safety and mobility for all.

Intelligent Transportation Systems Joint Program Office

Strategic Plan 2020 – 2025

www.its.dot.gov/index.htm

FHWA-JPO-18-746

Intelligent Transportation Systems Joint Program Office

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A PROJECT MANAGEMENT OFFICE (PMO) FOR ACCOUNTABILITY

The PMO Hub has provided the ITS JPO with robust reporting capabilities, and an enhanced method of analyzing complex program data with transparency within the department.

The ITS JPO is working across modes on several committees and working groups to ensure the DOT invests in innovative research.

Topical Working Groups Chaired by ITS JPO

- Automation
- Emerging and Enabling Technologies
  - ► Artificial Intelligence Task Force
- Data
- Cybersecurity

Topical Working Groups Supported by ITS JPO

- Mobility Innovation
- Evaluation/ Performance Measurement
- Technology Transfer/ Deployment
- Systematic Safety Approach

TS JPO Strategic Plan | Strategies

Identify and Assess Technologies → **Coordinate and Lead R&D** → **Demonstrate Value** → **Support Implementation** → **Maintain ITS Technologies**

Strategy 1: Identify and assess emerging technologies alternatives for the transportation system

Strategy 2: Coordinate and lead ITS research and development in the public interest

Strategy 3: Demonstrate the benefits of emerging ITS technologies for improving the transportation system

Strategy 4: Support implementation of proven ITS technologies, approaches, and policies throughout the transportation system

Strategy 5: Maintain ITS technologies, and policies to realize the full potential of benefits across all surface transportation modes

The ITS JPO advances the next wave of transformations through its six research areas and four technology transfer programs, which work to accelerate deployment.

EMERGING AND ENABLING TECHNOLOGIES

CYBERSECURITY FOR ITS

AUTOMATION

ITS DATA ACCESS AND EXCHANGES

COMPLETE TRIP

ACCELERATING ITS DEPLOYMENT

DISCUSSION