



# RISC

*Rapid Incident Scene Clearance*

**Paul Wai, P.E.**

**Florida's Turnpike Enterprise**

# Rapid Incident Scene Clearance Program

- **Incident Impacts**
- **Open Roads Policy**
- **Program Elements**
- **Results**



# Incident Impacts

- **60% of all congestion**
- **13 – 33% are secondary crashes**
- **\$78B lost to delays (nationwide)**
- **Significant injuries to incident responders**

Florida motorists want 'reliable' highways with predictable travel times. The expectations are even higher on a toll facility.

# Open Roads Policy

## GOAL:

Roadways will be cleared of damaged vehicles, spilled cargo, and debris as soon as it is safe to do so.

## MEASURE:

All incidents be cleared from the roadway within 90 minutes of the arrival of the first responding officer.



# Open Roads Policy

- **Results**

- Improved response & clearance times
- Improved responder safety
- Improved air quality
- Reduced incident-related congestion & delay
- Reduced secondary collisions
- Reduced fuel consumption
- Reduced toll revenue loss



**20% increase in  
customer satisfaction  
(2004 vs 2003)**

**Customers satisfied with the  
amount of time it took to clear  
an accident**

*Turnpike Enterprise Customer  
Satisfaction Survey*



# Program Elements – Traffic Operations

- **Traffic Management Centers**
- **ITS field devices**
- **Special operations**



# Program Elements – Traffic Operations

- **ITS Innovations**

- Mobile TMC concept
  - Mobile ITS applications
  - Incident management
  - Special events
  - Homeland Security



# Program Elements – FHP

- **Photogrammetry**

- Used for crash investigations
  - Speed
  - Archival
  - Accuracy
  - Safety
  - Court admissibility



“Photos don’t lie. In photogrammetrics, what it is, is ‘what it is’. It can be film-converted to digital format or digital camera images.”

- Lee DeChant

# Program Elements – Road Rangers

- Expanded role from motorist aid to full involvement in traffic incident management
- Assist FHP as first responder
- Facilitate quick clearance
- Early actions with vehicle fluid spills



# Program Elements – Roadway Maintenance

- **Rapid Incident Scene Clearance (RISC)**
  - Super-duty wreckers & crash scene clearance
  - Detailed specs for 35 - & 50 - ton recovery wreckers
  - Assures prompt, predictable response & 24/7 equipment availability



# Program Elements – Roadway Maintenance

- **Rapid Incident Scene Clearance (RISC)**

- Open Invitation to Negotiate (ITN)
- Non-Exclusive Agreement
- Proposals are based on Recovery Areas

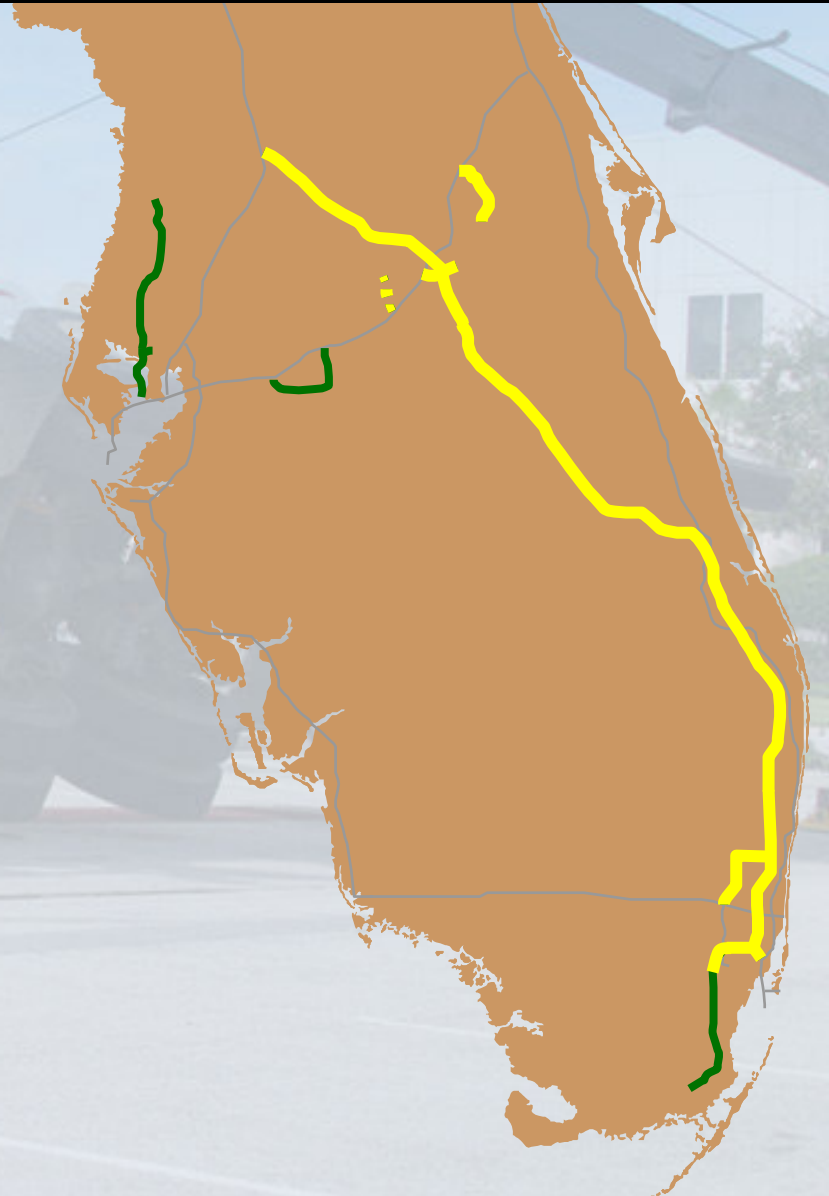


<u>Roadway</u>	<u>Segment</u>	
Florida's Turnpike	Milepost 50 to 60	<input type="checkbox"/>
Florida's Turnpike	Milepost 60 to 70	<input checked="" type="checkbox"/>
Sawgrass Expressway	Entire Length (26 Miles)	<input checked="" type="checkbox"/>



# RISC Coverage

75% of Florida's  
Turnpike System  
has RISC coverage

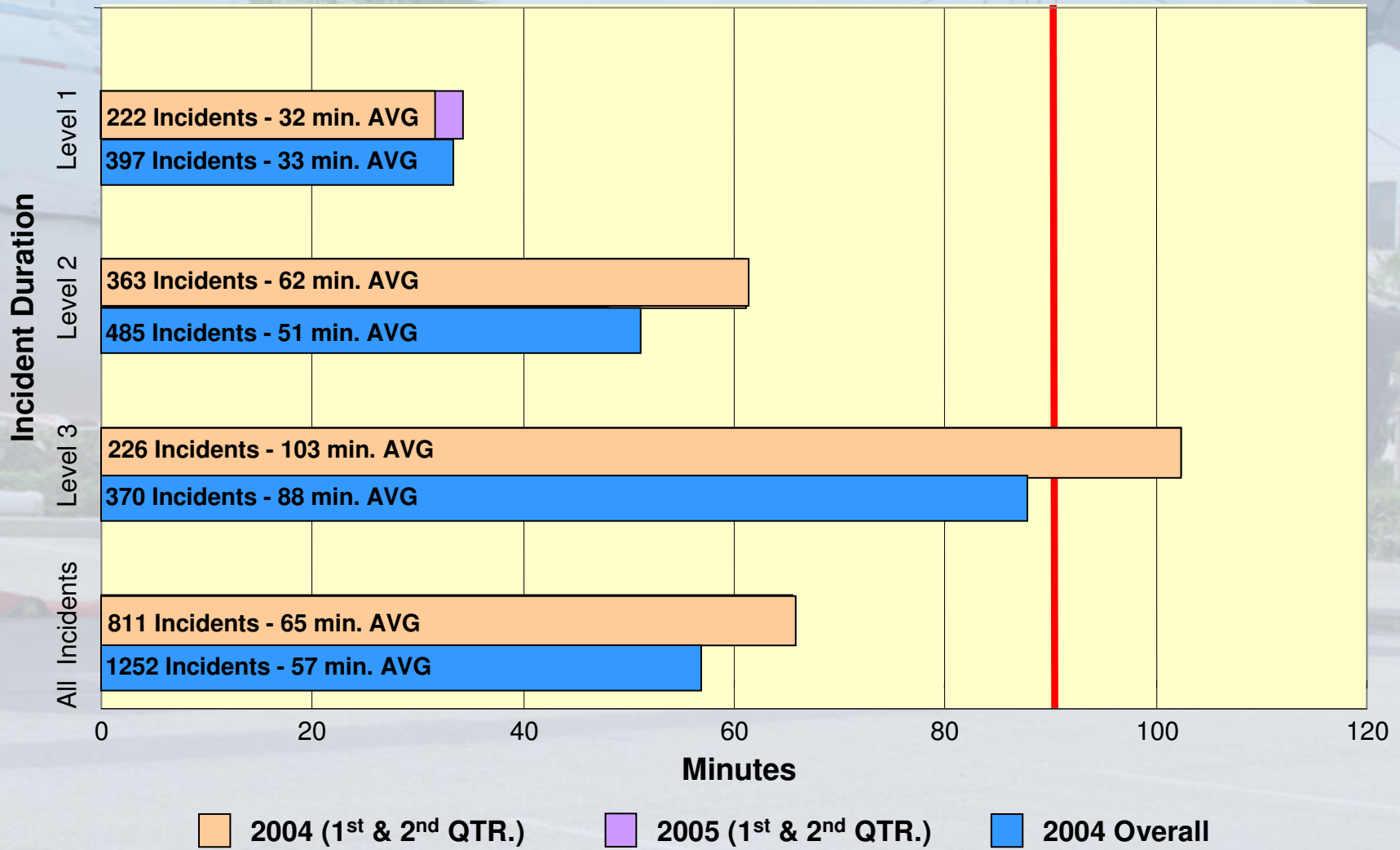


# Program Elements – Roadway Maintenance

- **RISC**
  - Requires support equipment
  - Specialized training & certification
  - Payment is entirely performance based
    - Incentive compensation for “Quick Clearance” of travel lanes
    - Liquidated damages for poor performance or delay

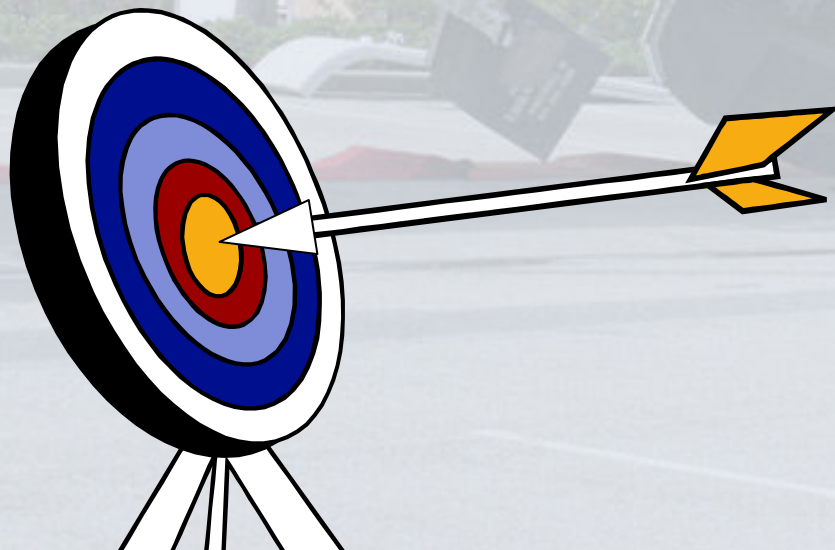


# Incident Management Results



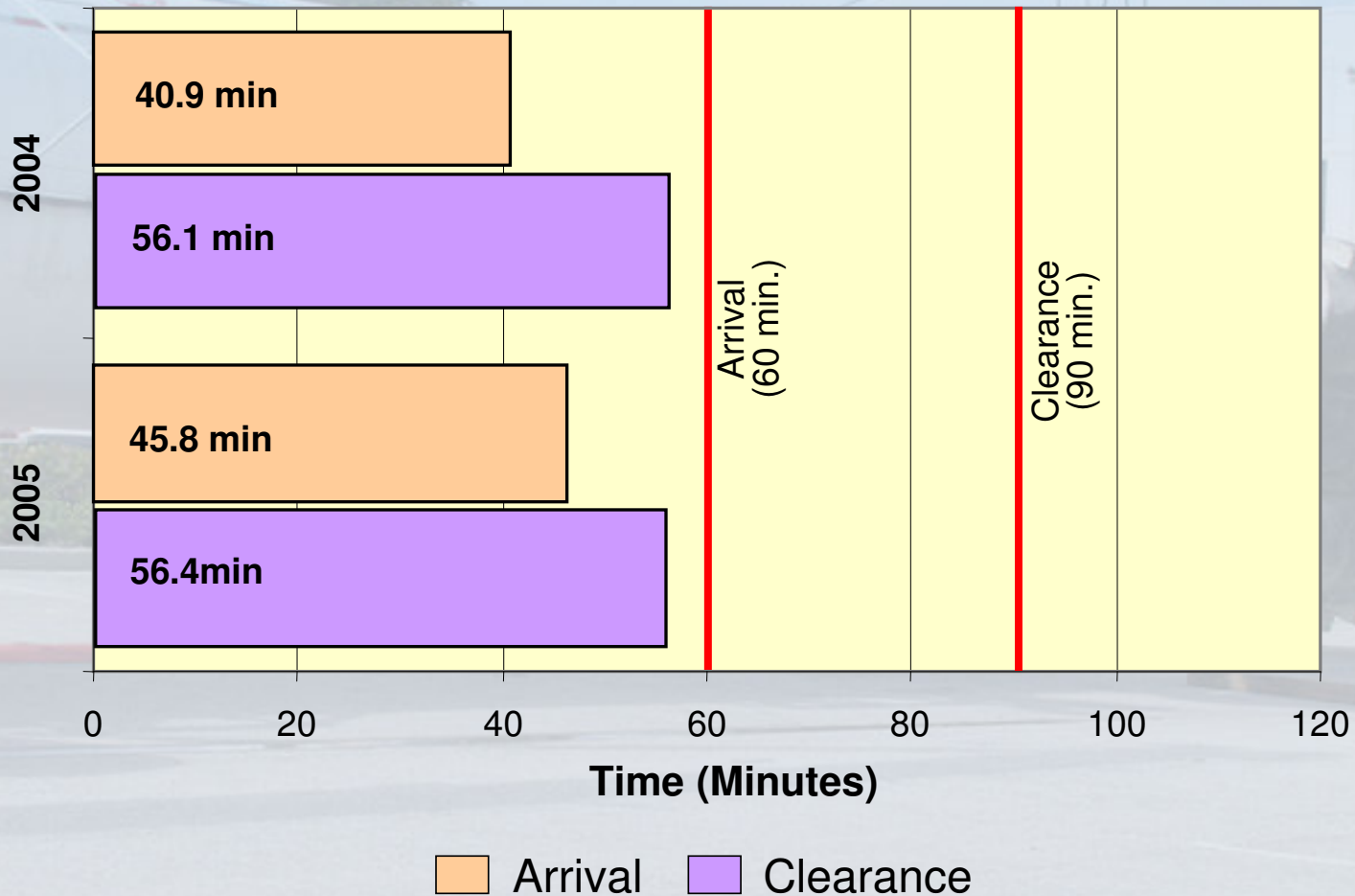
# RISC Results – Contract Milestones

Year	No. of RISC Responses	60 Min. Arrival	90 Min. Clearance	Not Utilized
2004	19	19	17	2
2005	51	43	44	4

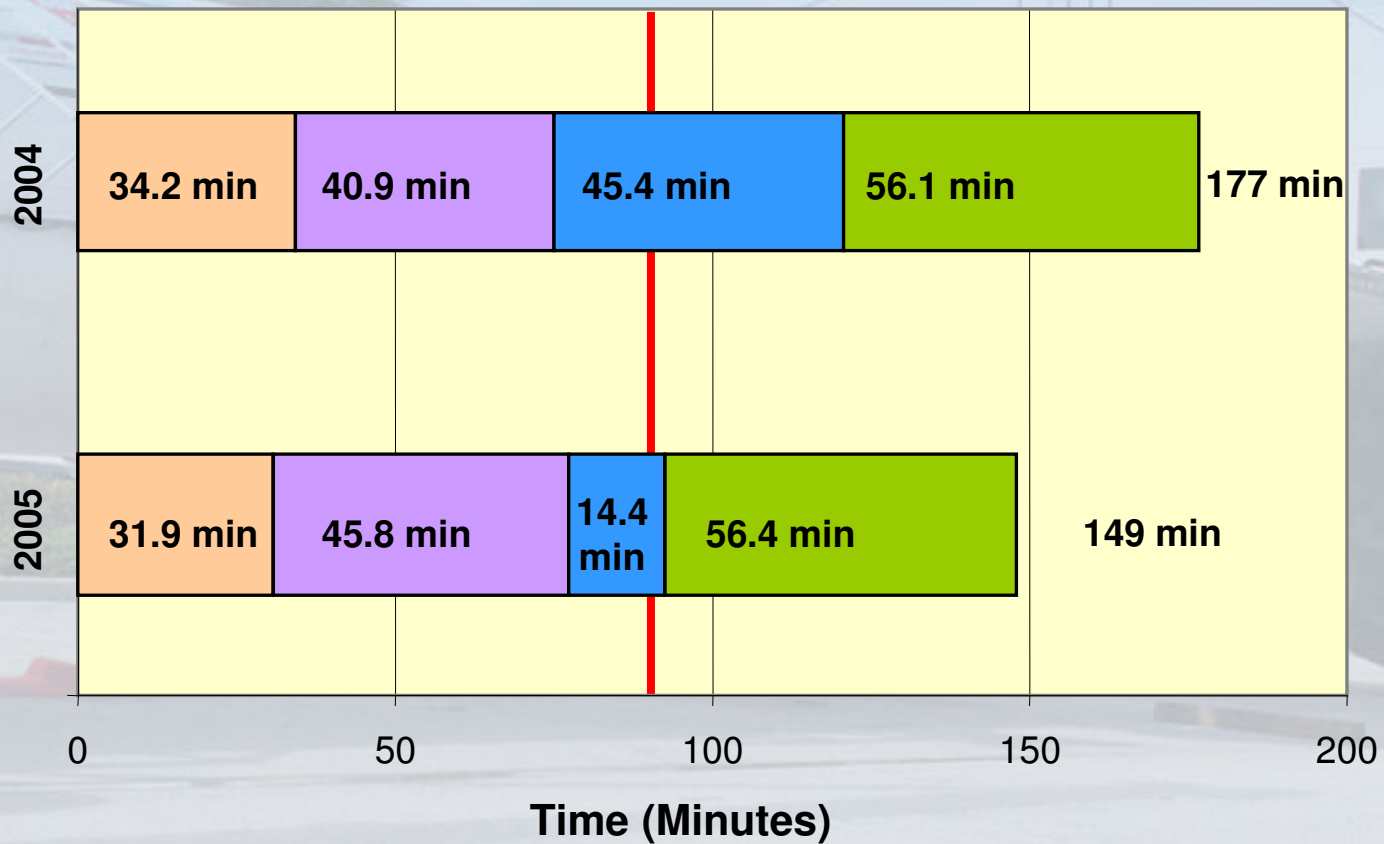


**Hitting the target  
93% of the time**

# RISC Results – Contract Milestones



# RISC Results – Total Duration



Activate Arrival NTP Clearance

# RISC Results – Debriefings

- **Debriefing “STEALTH” Reports**
  - All involved parties represented
- **Quarterly Turnpike Incident Management (TIM) Meetings**




# RISC Results

- **7 incidents with RISC response exceeded 4 hrs**
- **4+ hours incidents targeted for reduced clearance times**
  - Discussions with incident responders
  - Improved practices / lessons learned
  - Additional contract innovations



# What's Next?

A semi-truck is overturned on its side on a paved road. A crane is positioned above the truck, with its hook and cables attached to the top of the vehicle, appearing to be in the process of lifting it. The background shows a clear blue sky, some greenery, and a white building with windows. The entire scene is overlaid with a semi-transparent blue filter.

- **Incident Management During Planning, Production, & Construction Phases**
- **Interagency Agreements**
- **Road Ranger Program**
- **Hazardous Material Spill Response**
- **Performance Incentives**

# Bottom Line

The background of the slide is a faded photograph of an accident scene. A large white truck is being lifted by a crane. The truck is tilted, and its front end is pointing towards the viewer. The crane's arm is visible in the upper right corner. The scene is outdoors, with a white building and some trees in the background.

- **RISC Program**
  - Reduced over 200 hours for all accidents (2005 vs. 2004)
- **Expansion Statewide**
- **FTE Goals and Objectives**
  - Safety
  - Service
  - Staff
  - Speed
  - Soundness



**Thank you!!!**

[paul.wai@dot.state.fl.us](mailto:paul.wai@dot.state.fl.us)