

Public Safety: a New National ITS Focus

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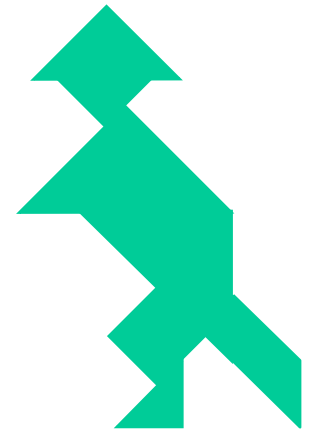
President, National Association of State EMS

Directors



Agenda

- Overview of opportunities to improve emergency response through ITS
- The new national Public Safety Advisory Group & its role



What's your system's intelligence about public safety vehicles????

- Hub odometers?
- Tachographs?
- Maintenance and incident reports?



What we know about vehicle crashes to which we respond:

- Second- and third-hand info through dispatch
- Reports from the first unit on scene
- Observation of vehicle damage
- Seasoned guesses by mentally reconstructing the collision after arrival

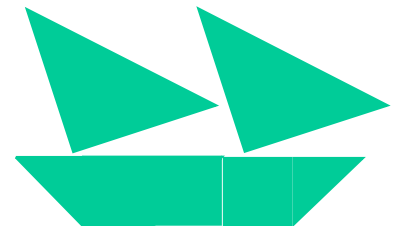
Motor vehicle crashes are
the leading cause of death
in citizens age 1-44

The two faces of public safety response
interests:

- Enhancing the safety of and collision avoidance for emergency medical, fire, and law enforcement agencies
- Prevention of death and disability from transportation related incidents through the preparation and tailored deployment of emergency response resources

Intelligent Transportation Systems

- Crash Avoidance Systems (IVI)
- Automatic Crash Notification
- Injury Telematics
- “Smart” Routing

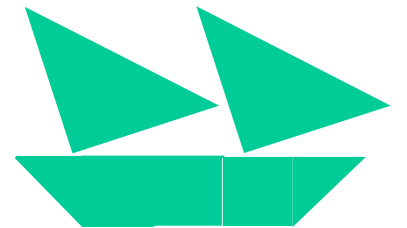


ITS Crash Avoidance Systems

- Adaptive Cruise Control Systems
- Rear-End and Broadside Collision Avoidance System
- Road Departure Warning
- Intersection Collision Avoidance
- Drowsy Driver Detection Devices

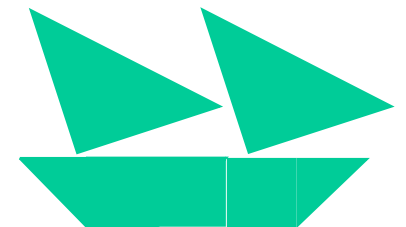
ITS Automatic Crash Notification

- Wireless transmission of crash or crash-indicative event
- Data packet: location, black box contents, prefiled information
- Multiple recipients possible



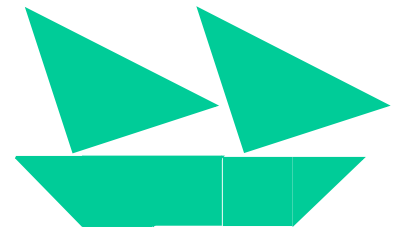
ITS Injury Telematics

- Physics and biomechanics allow for the mathematical replication of forces
- predictors of injury based on that vehicle model engineering and black box measures
- transmission of recreations, projected injuries PRIOR to arrival!



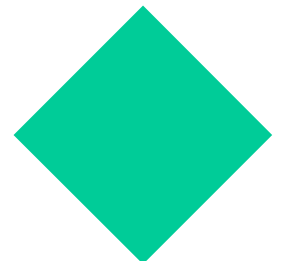
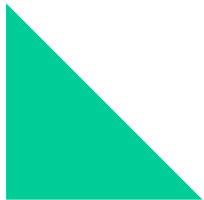
ITS “Smart” Routing

- intersection device control
- automated route selection
- real time delay/time en route estimates
- road surface & evolving weather condition alerts



ITS PSAG

- **12/00 US DOT established “Public Safety Advisory Group” to serve both DOT and the ITSA Coordinating Council**
- **2/01-7/01 PSAG meets, agrees to write vision documents/white papers and forms two subcommittees**
- **5/01 US DOT FHWA official reports that PSAG recommendations highest priority for the ITS Administrator**



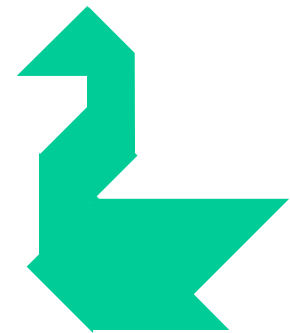
Public Safety Advisory Group

- Multidisciplinary, multiassociation:
 - NENA, APCO, IAFC, IAFF, NVFC
 - State & County Transportation Departments
 - ACEP, NAEMSP, NASEMSD
 - NAGHSR, IACP, State Police Rep
 - CMA, several tech industry reps



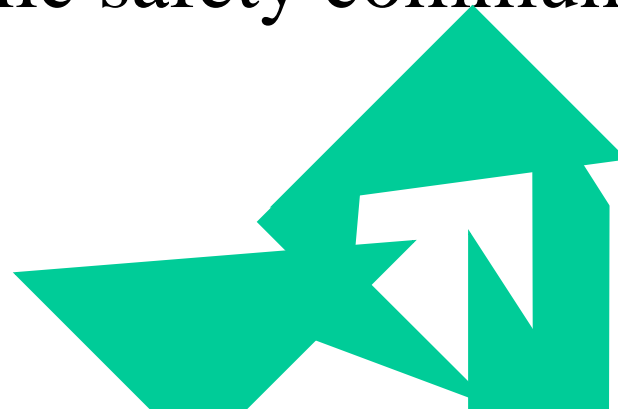
Public Safety Advisory Group

- USDOT is Secretariat, ITSA funds
- Pipeline to ITSA Coordinating Council and US DOT Administration
- Spring 2002 target date for white papers
- Viewed as the “speaker” for the public safety community to US DOT




PSAG Subcommittees and Activity

- Medical Implications
 - Improving outcomes
 - Evidence-driven regulation and system improvement
- Earmark guidance geared to the local, regional & state public safety communities






PSAG Subcommittees and Activity

- E-911 and Location Technology
 - Now a secretarial initiative
 - Drafted letter to the FCC
 - More aggressive action expected now that NHTSA and FHWA Administrators named
 - Advisory Group meeting every 6-8 weeks
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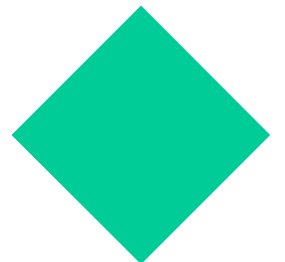
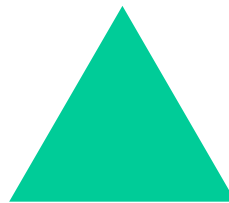


PSAG Subcommittees and Activity

- Formulating ITS Public Safety “Agenda for the Future”
 - Modeled after the NHTSA-sponsored EMS Agenda for the Future
 - Describes current conditions and desired future states in 14 +/- component areas
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ITS - other Recent Planetary Alignment Occurs

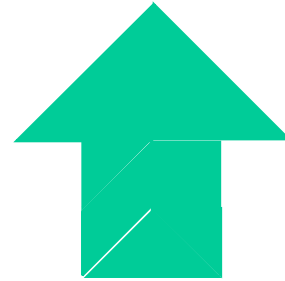
- **7/01 new US DOT Administrator of the National Highway Traffic Safety Administration is an emergency medicine physician**
- **8/01 US DOT Chief of Staff latches on to public safety communications as a priority, commits to accelerating deployment**



Recap

- Overview of opportunities to improve emergency response
- The new national Public Safety Advisory Group & its role





Questions???

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