

Montana Emergency Medical Services & Highway Traffic Safety

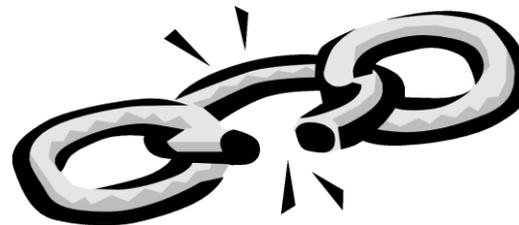
Jim DeTienne, Supervisor



Montana EMS & Highway Traffic Safety

EMS & HTS A Public Safety Partnership

- ❖ Education
- ❖ Enforcement
 - ❖ Engineering



❖ EMS

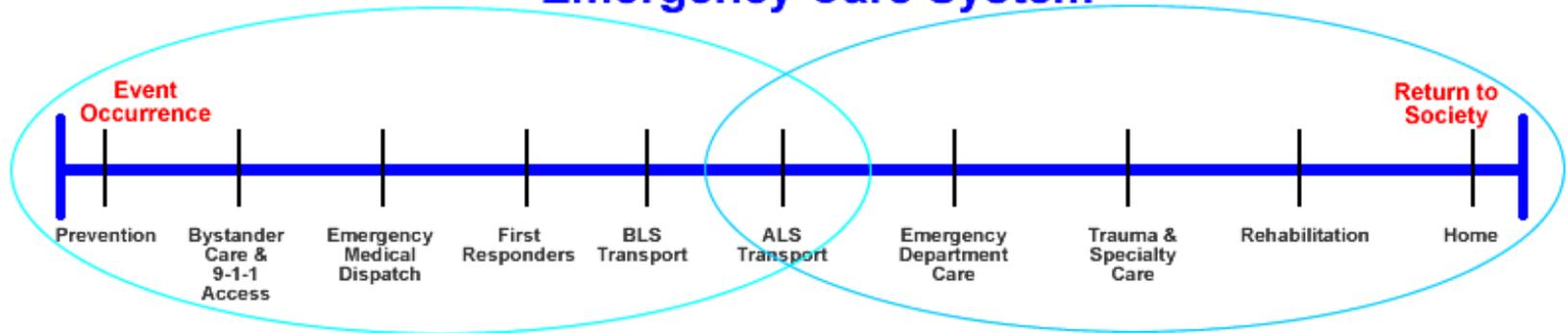
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EMS & HTS A Public Safety Partnership

Emergency Care System



❖ EMS

EMS & HTS A Public Safety Partnership

- ❖ Share ideas
 - ❖ Share resources
 - ❖ Share goals



❖ EMS

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EMS & HTS A Public Safety Partnership

- ❖ **National Highway Traffic Safety Administration
Office of EMS**
 - ❖ Federal Interagency Committee on EMS (FICEMS)
 - ❖ National EMS Advisory Council (NEMSAC)
 - ❖ Culture of Safety Project

- ❖ **National Association of EMS Officials
(NASEMSO)**
 - ❖ Highway Incident & Traffic Safety Committee
 - ❖ Rural EMS Committee / Joint Committee on Rural
Emergency Care



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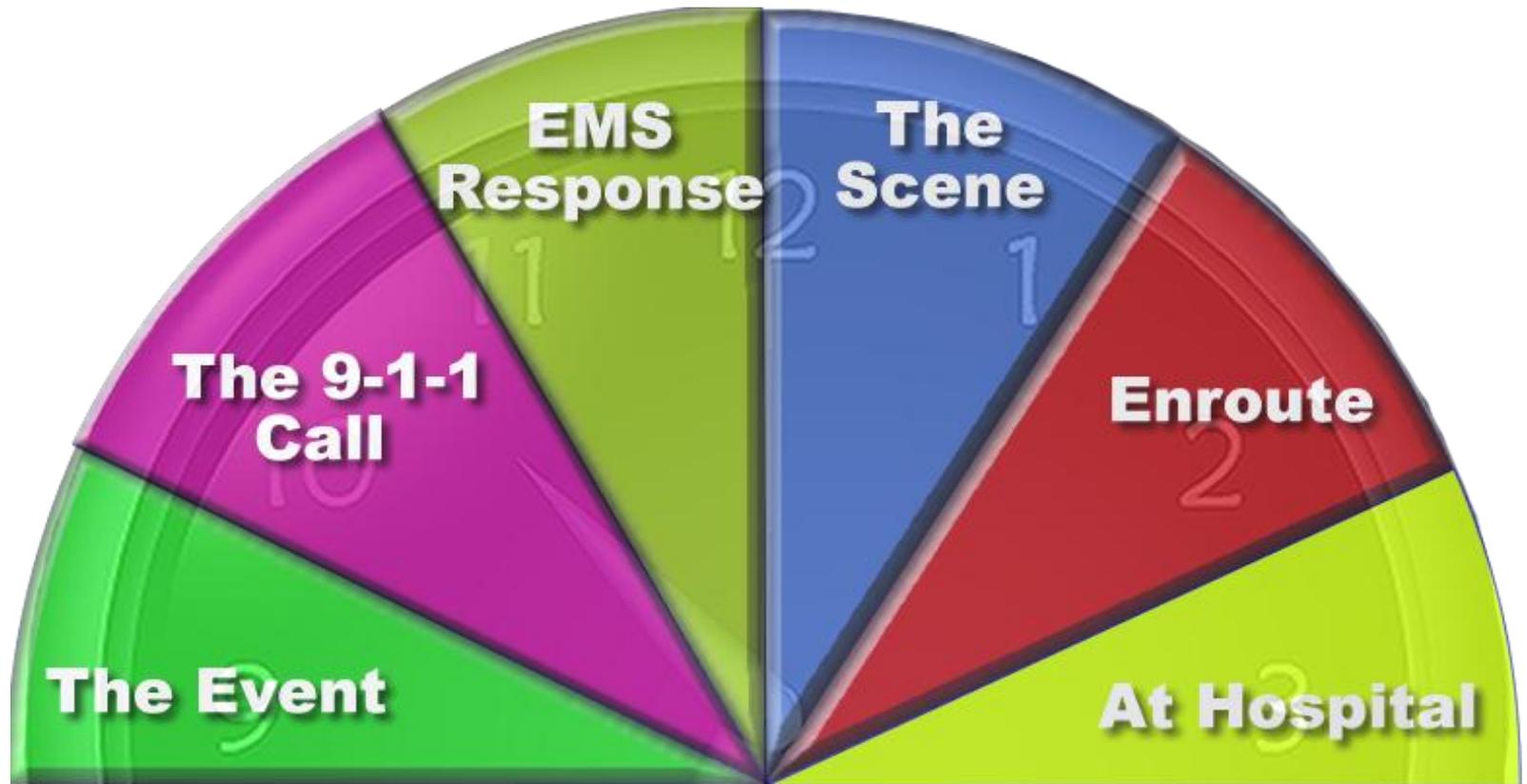
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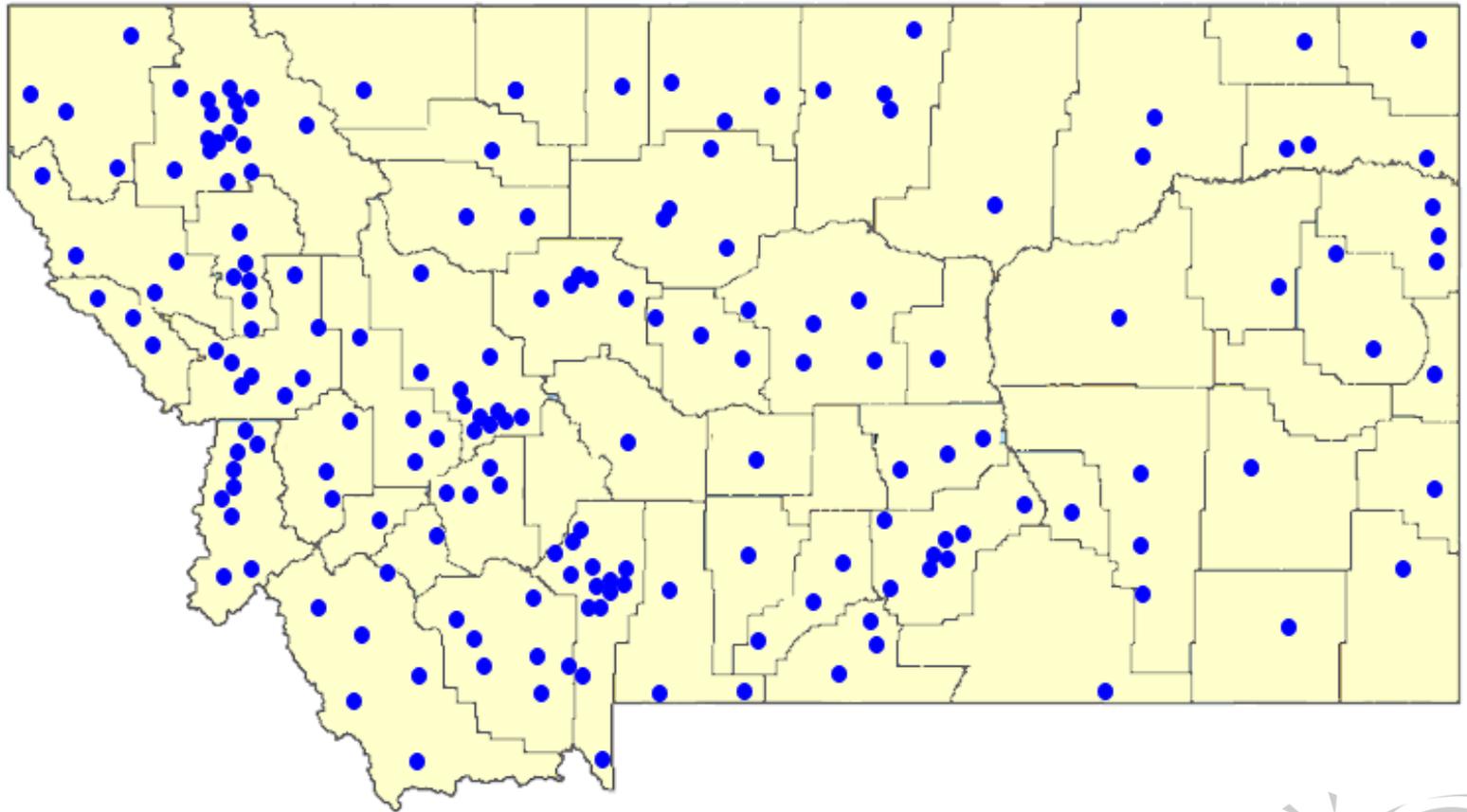
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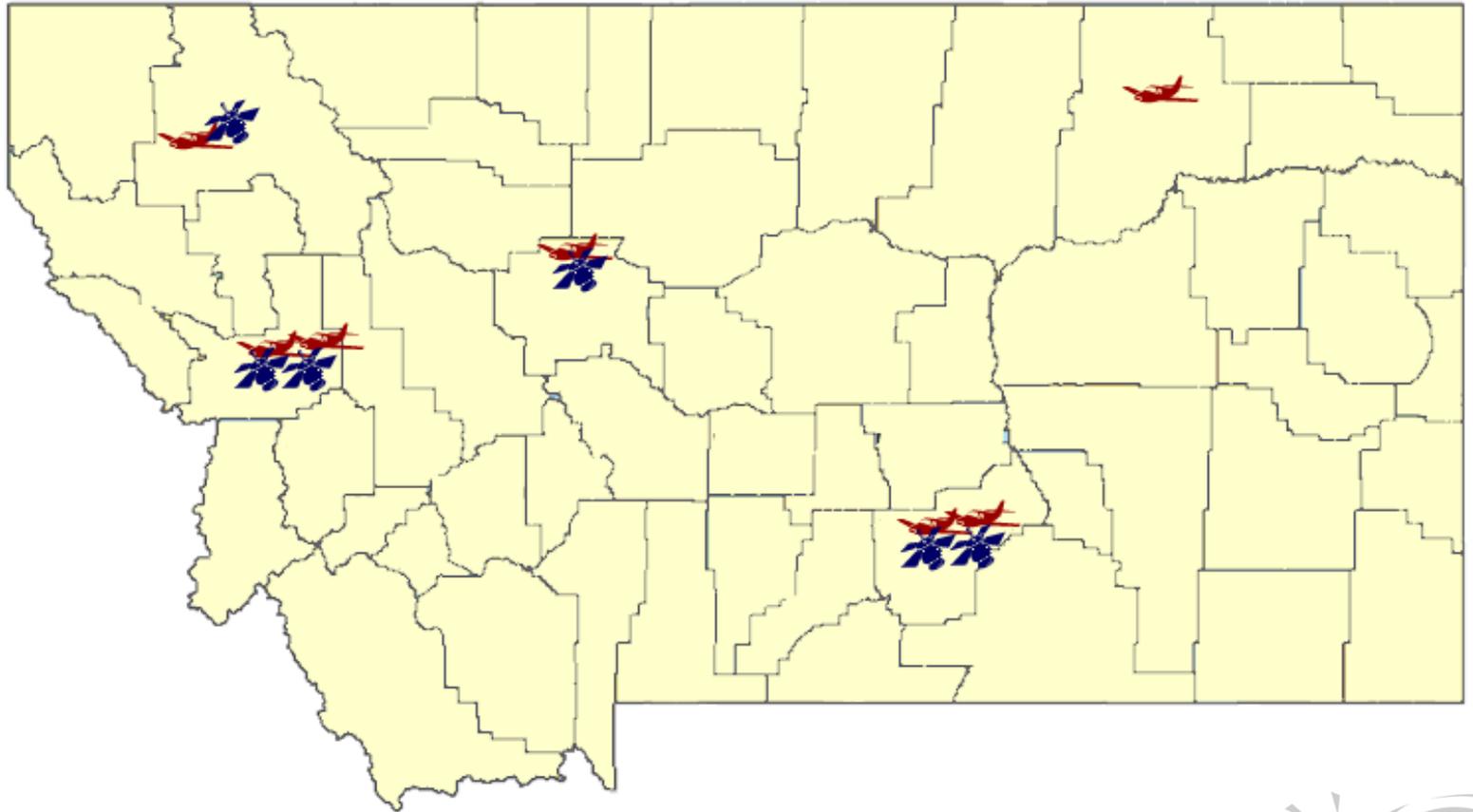
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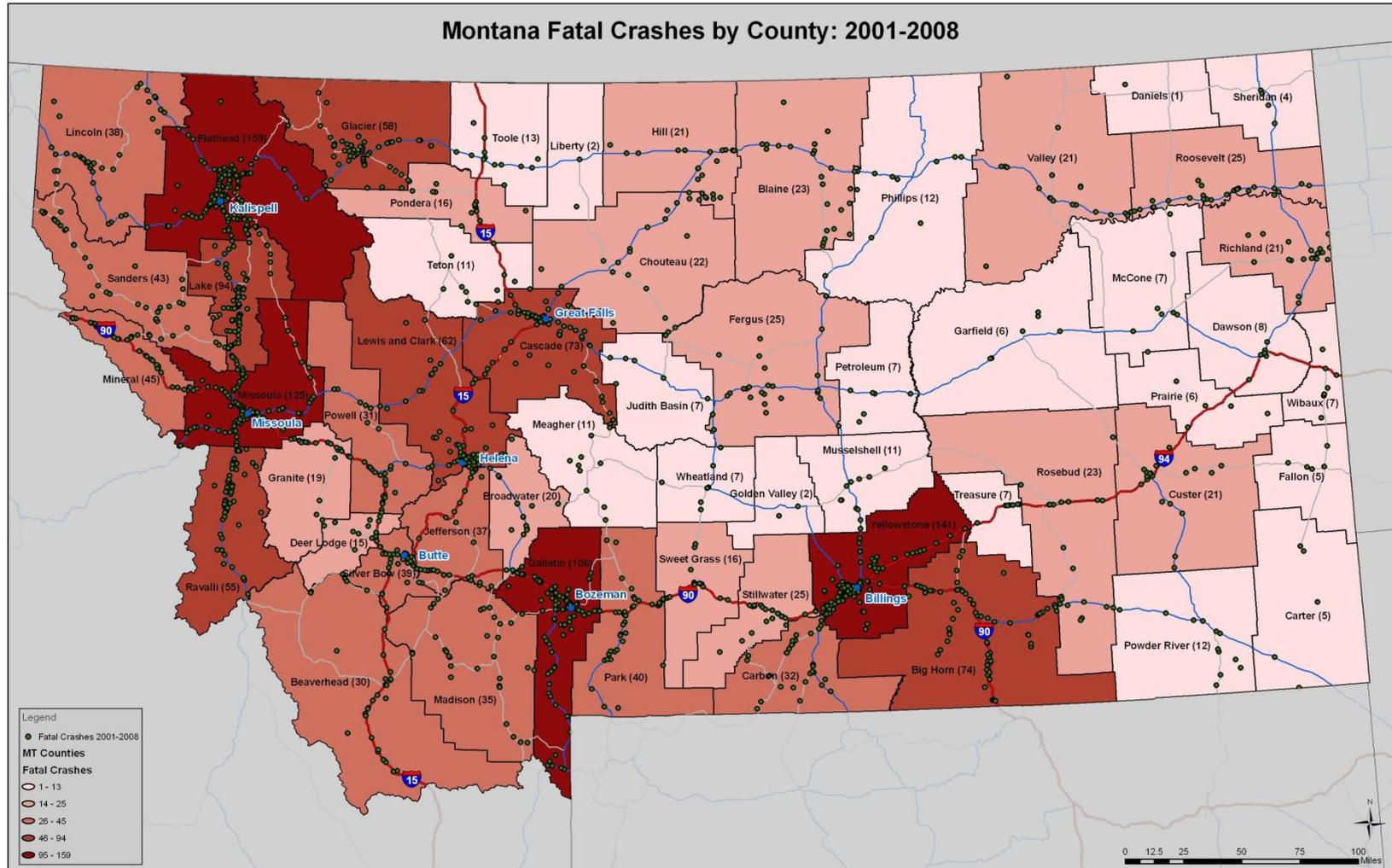
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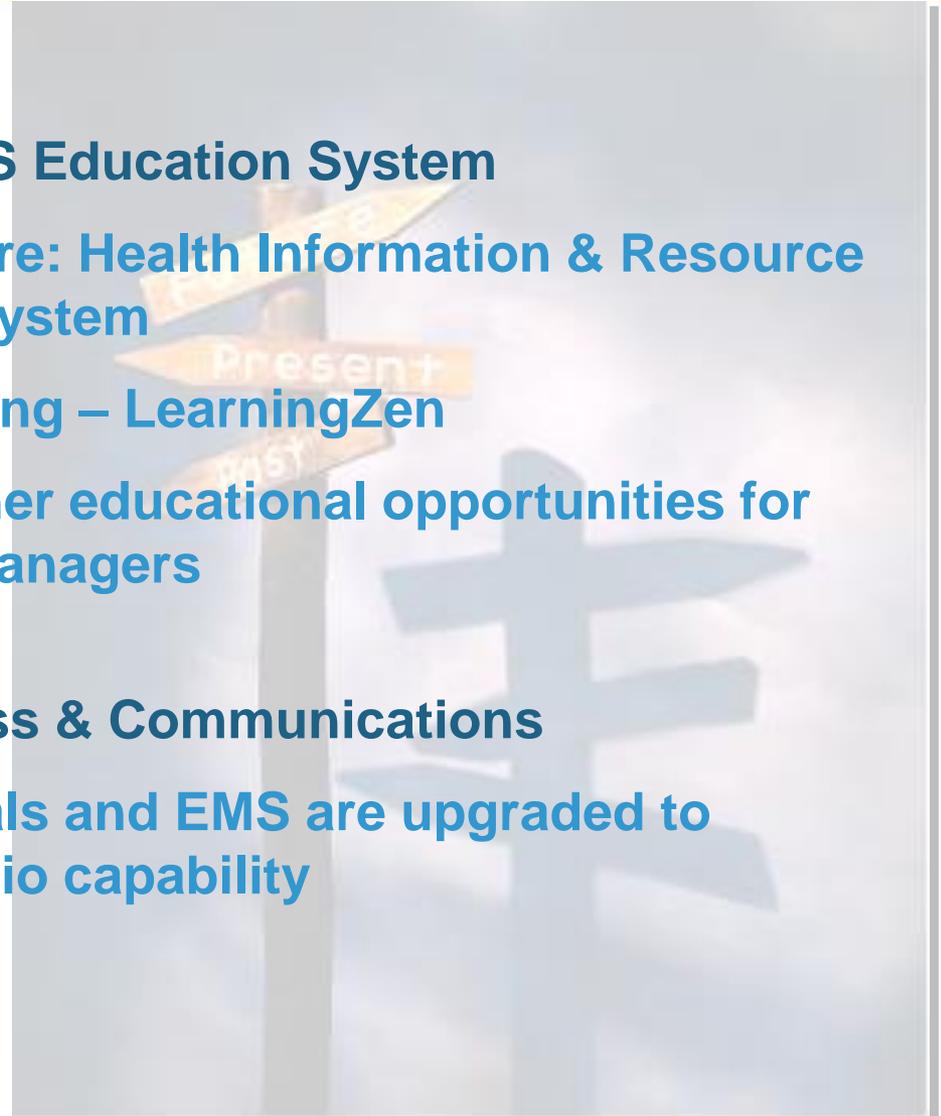
❖ Strategies

❖ EM-1 Improve EMS Education System

- ❖ Training EMTs re: Health Information & Resource Management System
- ❖ Distance learning – LearningZen
- ❖ WebEx and other educational opportunities for EMS service managers

❖ EM-2 Public Access & Communications

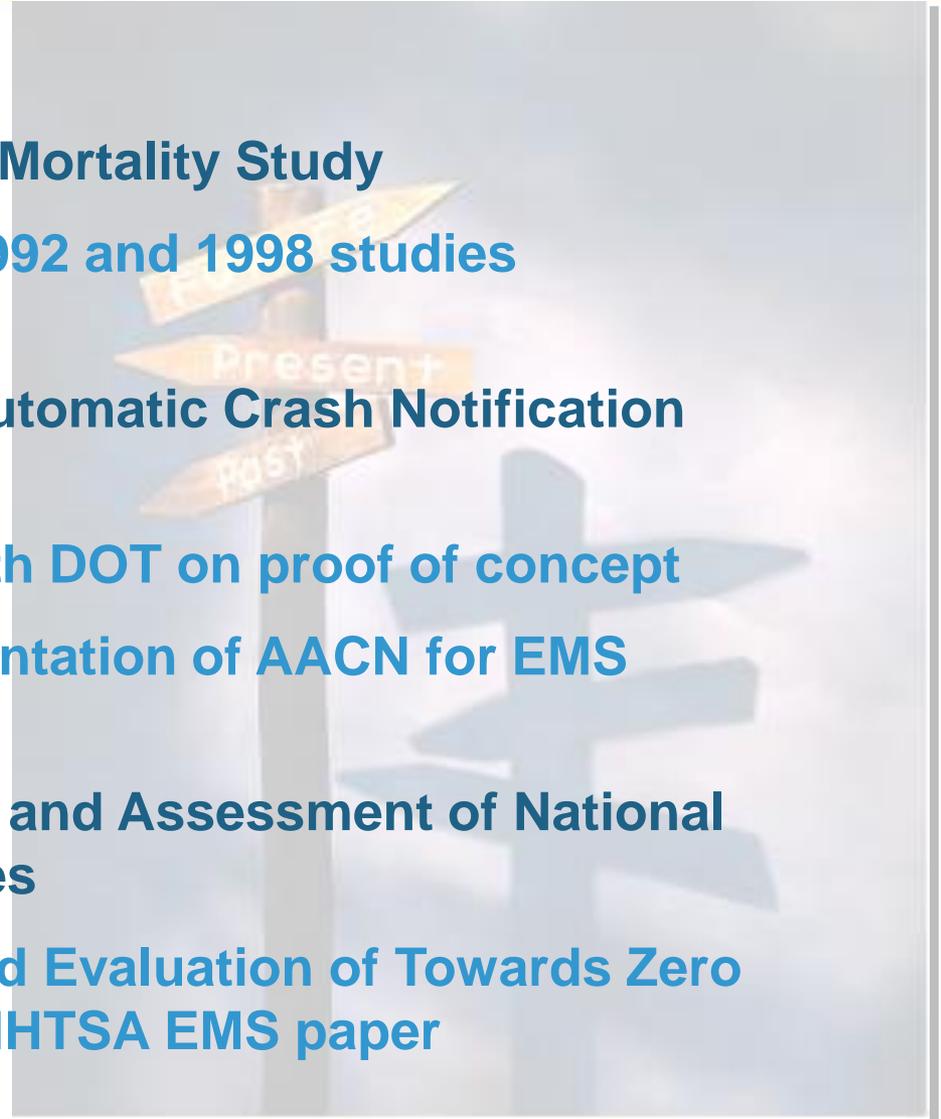
- ❖ Assure hospitals and EMS are upgraded to digital P-25 radio capability



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❖ Strategies

- ❖ EM-3 Preventable Mortality Study
 - ❖ Follow-up to 1992 and 1998 studies
- ❖ EM-4 Advanced Automatic Crash Notification (AACN) project
 - ❖ Collaborate with DOT on proof of concept
 - ❖ Study implementation of AACN for EMS
- ❖ EM-5 EMS Review and Assessment of National Research Strategies
 - ❖ Distribution and Evaluation of Towards Zero Deaths (TZD) NHTSA EMS paper



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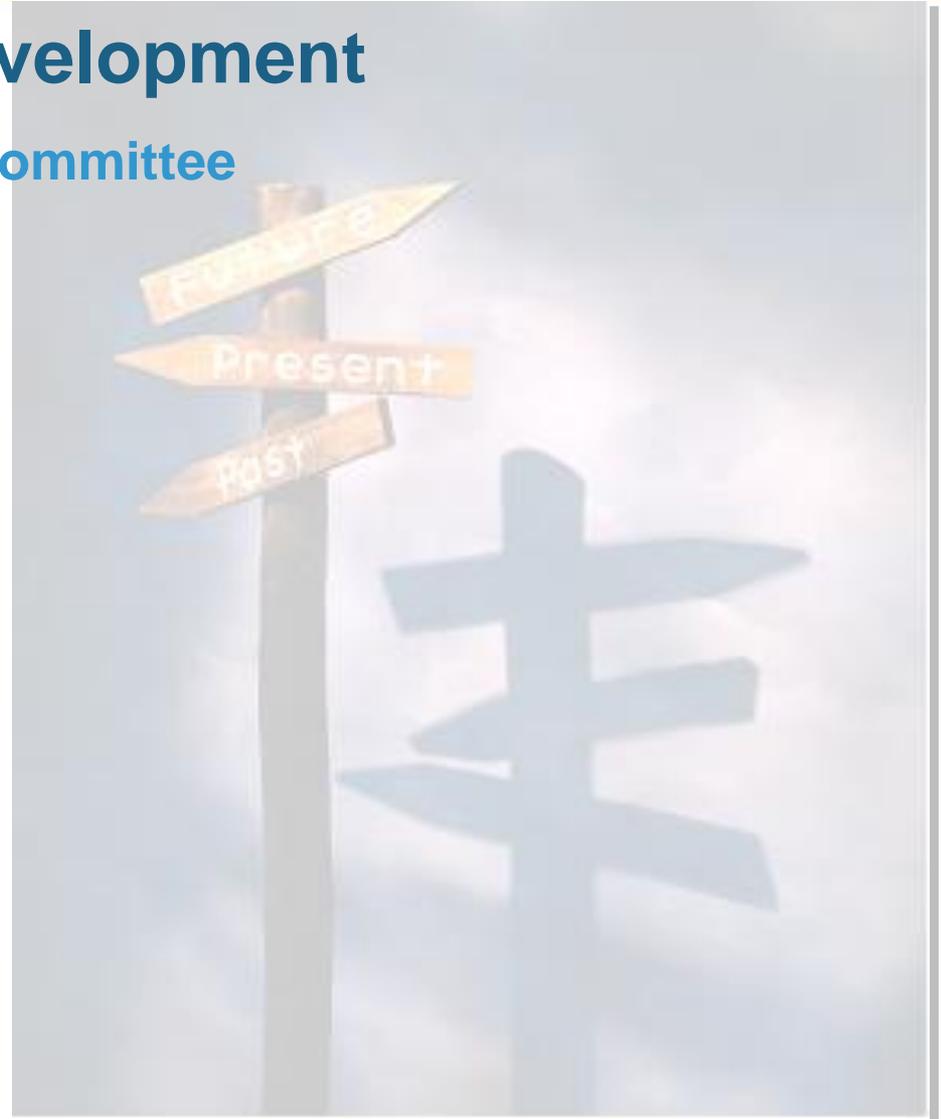
EMS & HTS A Public Safety Partnership

- ❖ EMS System Development
- ❖ Trauma System Development
- ❖ Injury Prevention
- ❖ Data & Analysis
- ❖ Advanced Automatic Crash Notification
- ❖ Towards Zero Deaths – EMS Initiative

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❖ EMS System Development

- ❖ Emergency Care Committee
- ❖ EMS Plan
- ❖ EMS Leadership



Montana EMS & Highway Traffic Safety

❖ EMS System Development

❖ Emergency Care Committee

Emergency Care Committee – 18 Members

9-1-1 / Public Safety Dispatch

EMS – Volunteer / Career / Ground / Non-Transporting

Trauma Nurses – Urban & Rural Facilities

Medical Directors – Urban & Rural

Hospitals

IHS / Tribal EMS & Hospital

Pediatric Care

Citizen At-Large

Law Enforcement EMS

Fire-based EMS

Air Medical Services



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❖ EMS System Development

❖ EMS Plan

EMS Plan

Leadership, Organization & Policy

Financial Infrastructure

Medical Oversight

Workforce & Human Resources

Response & Transportation

Public Access & Communications

Facilities and Specialty Care

Public Information, Education & Prevention

Preparedness & Medical Response to Disaster

Information, Evaluation & Research



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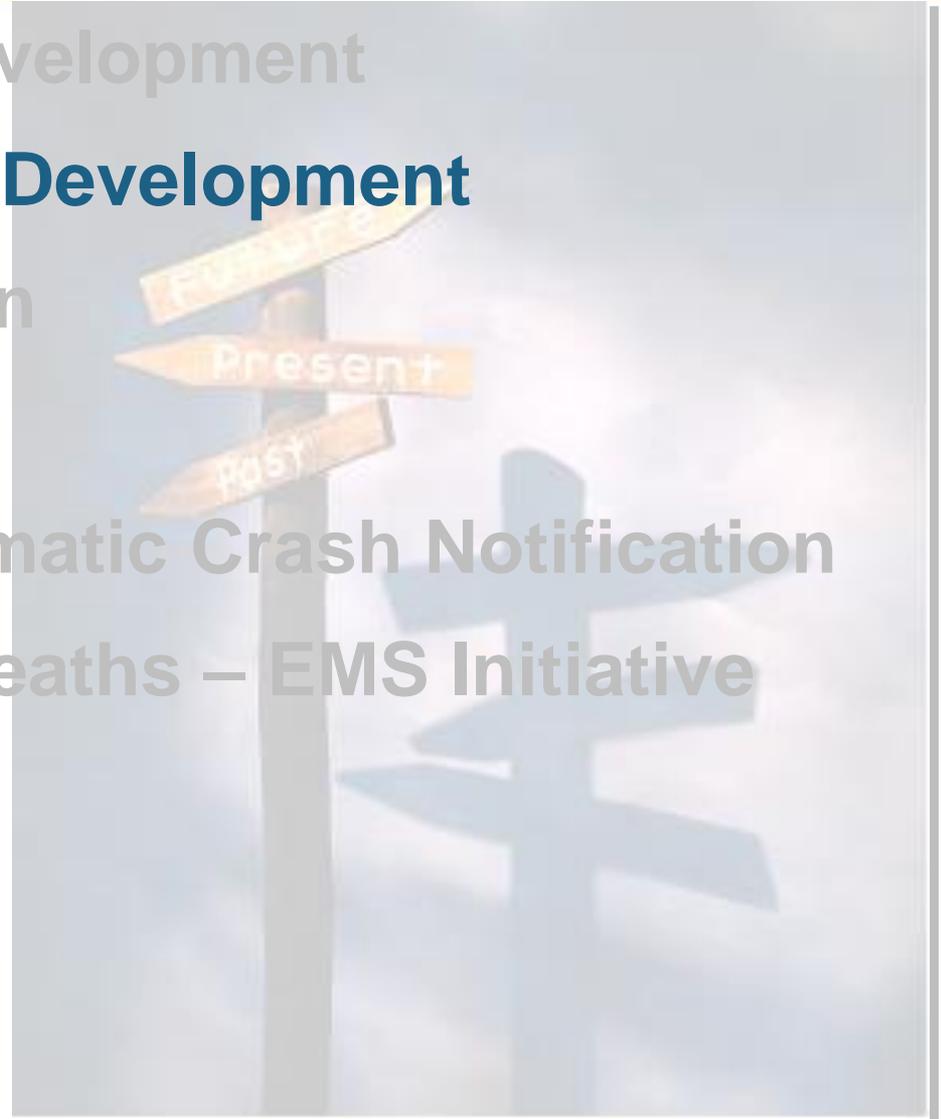
❖ EMS System Development

❖ EMS Leadership



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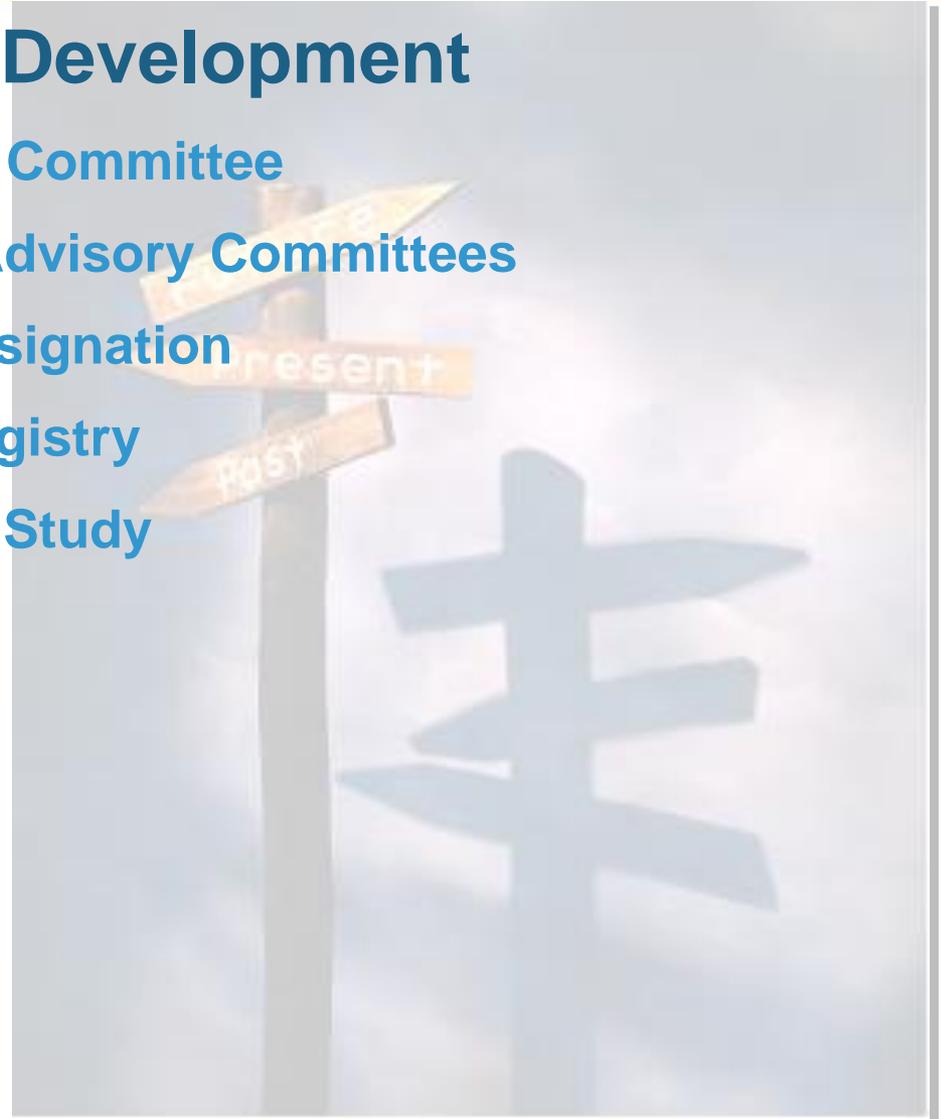
- ❖ EMS System Development
- ❖ **Trauma System Development**
- ❖ Injury Prevention
- ❖ Data & Analysis
- ❖ Advanced Automatic Crash Notification
- ❖ Towards Zero Deaths – EMS Initiative



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❖ Trauma System Development

- ❖ State Trauma Care Committee
- ❖ Regional Trauma Advisory Committees
- ❖ Trauma Facility Designation
- ❖ Central Trauma Registry
- ❖ Preventable Death Study



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❖ Trauma System Development

❖ State Trauma Care Committee

Trauma Care Committee – 15 Members

Chairman, Committee on Trauma, College of Surgeons

Representatives – East, Central, West Regions

Trauma Coordinators

Montana Medical Association

American College of Emergency Physicians

Emergency Nurses Association

Montana Hospital Association

Ambulance / EMS

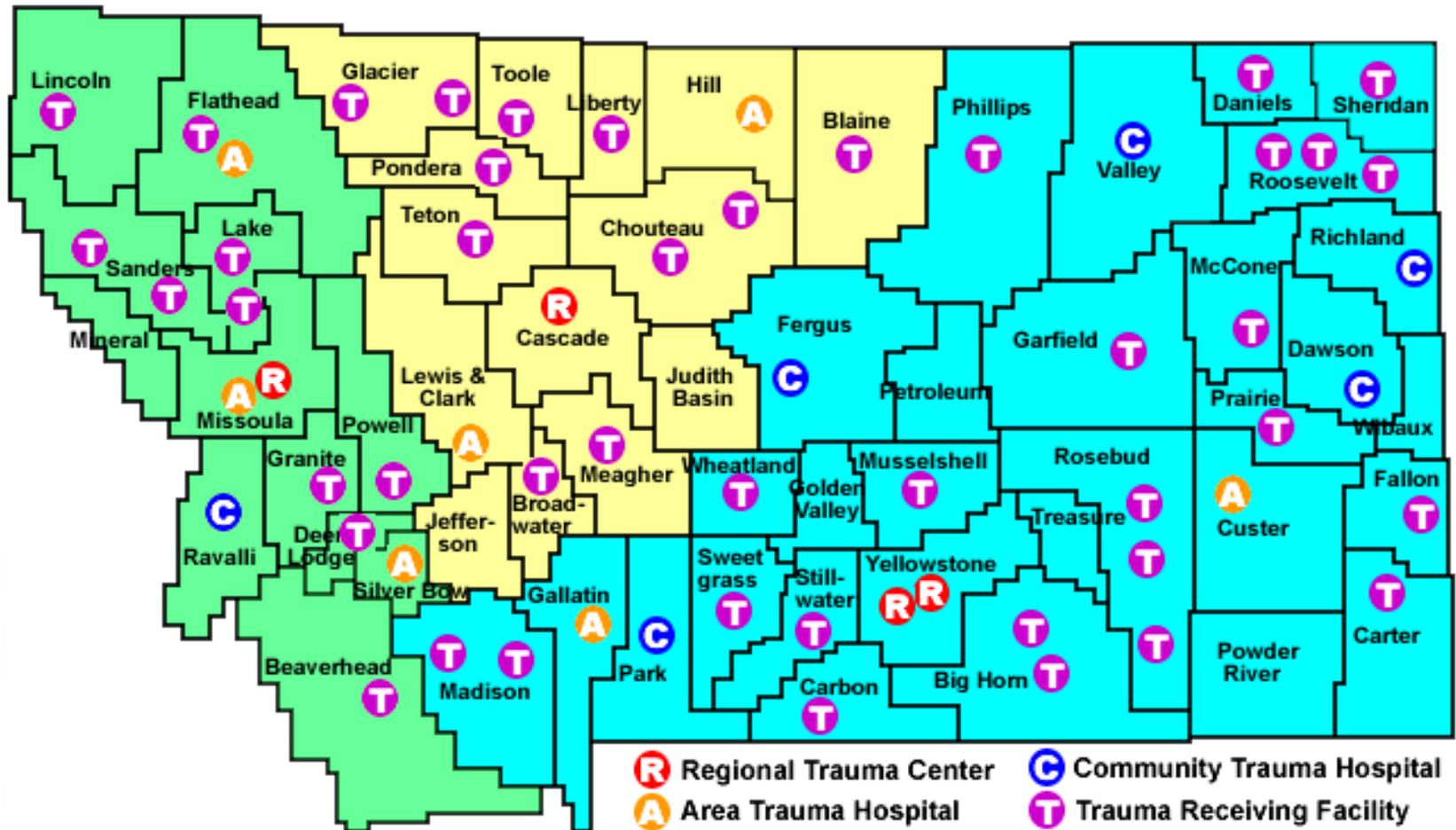
Indian Health Services



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❖ Trauma System Development

❖ Trauma Facility Designation



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❖ Trauma System Development

❖ Central Trauma Registry

- **More severely injury patients requiring**
 - **Higher levels of resources**
 - **Team approach to optimal trauma care**
- **Provides trauma data for:**
 - **Demographics of severe injury in Montana**
 - **Identification of patient care issues for all phases of care**
 - **Development of trauma system performance improvement indicators**
 - **Injury prevention**



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❖ Trauma System Development

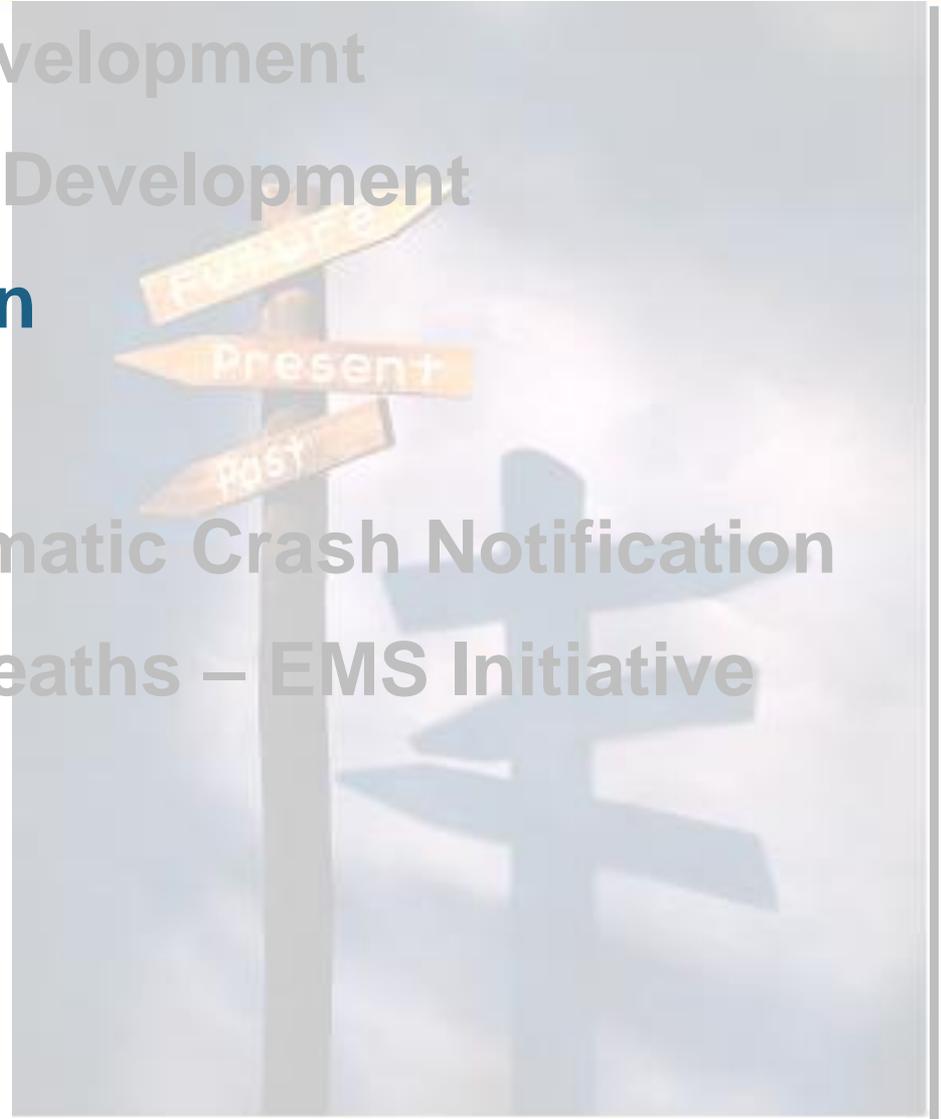
❖ Preventable Death Study

- Conducted around the country as an evaluation tool
- Montana's 1st study conducted in 1992 – first rural study in the country
 - Overall preventable death rate = 13%
- Follow-up study conducted in 1998
 - Overall preventable death rate = 8%
- Now conducting a 3rd study of 2008 deaths



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- ❖ EMS System Development
- ❖ Trauma System Development
- ❖ **Injury Prevention**
- ❖ Data & Analysis
- ❖ Advanced Automatic Crash Notification
- ❖ Towards Zero Deaths – EMS Initiative



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❖ Injury Prevention

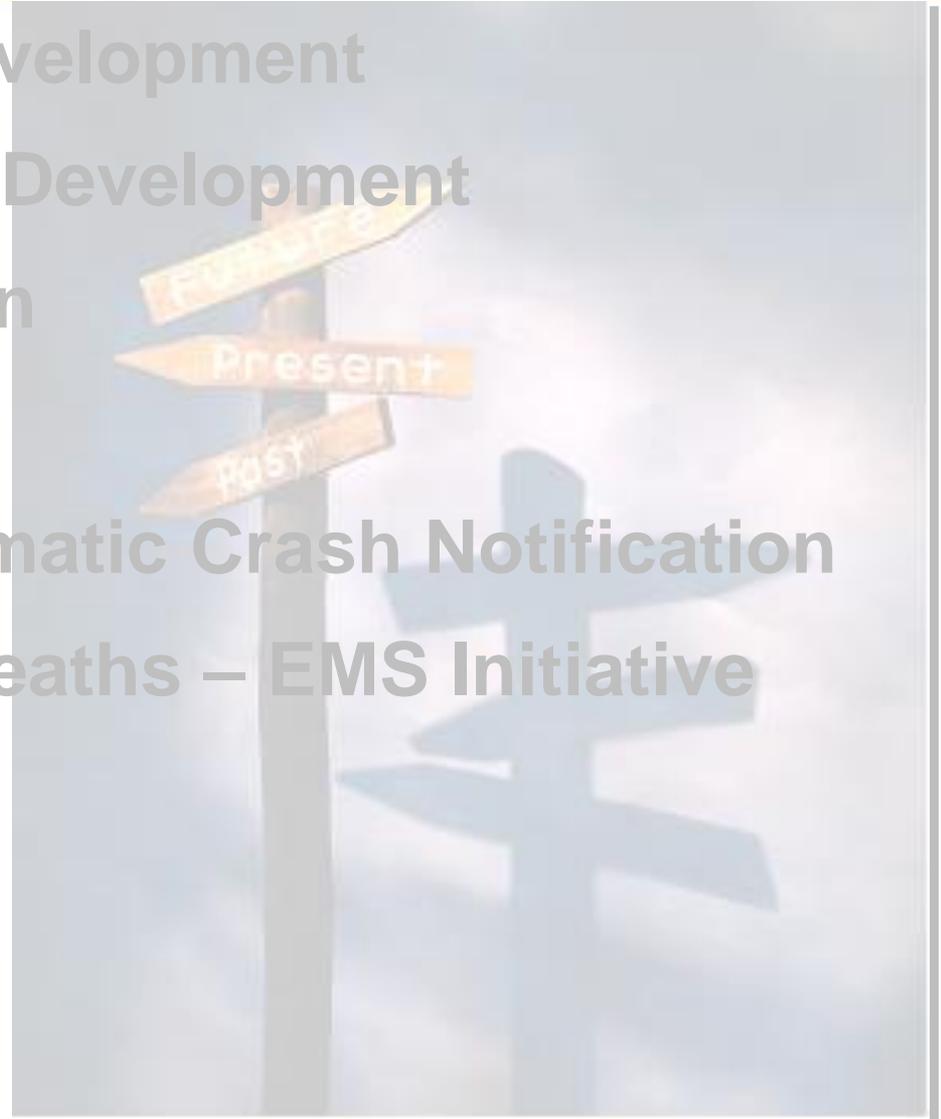
❖ SBIRT

Screening Behavioral Intervention and Referral to Treatment



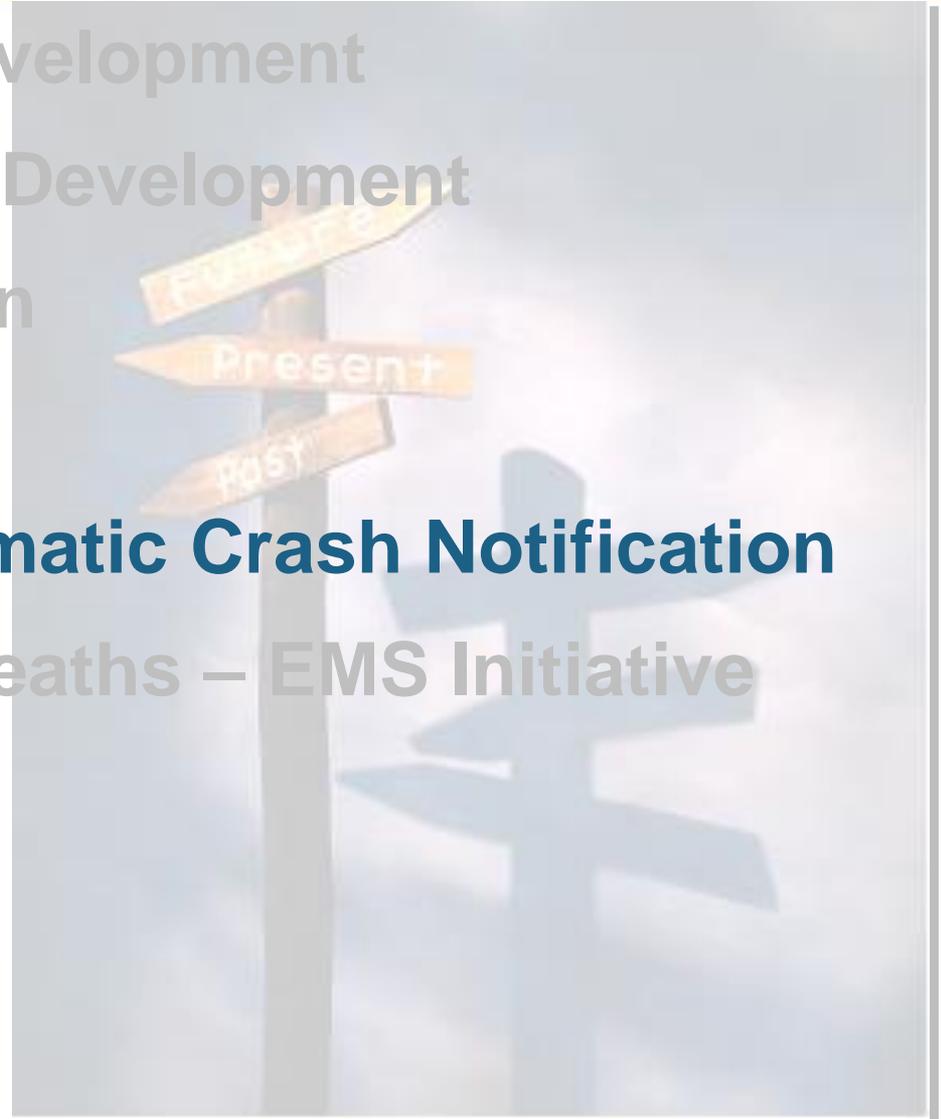
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- ❖ EMS System Development
- ❖ Trauma System Development
- ❖ Injury Prevention
- ❖ **Data & Analysis**
- ❖ Advanced Automatic Crash Notification
- ❖ Towards Zero Deaths – EMS Initiative



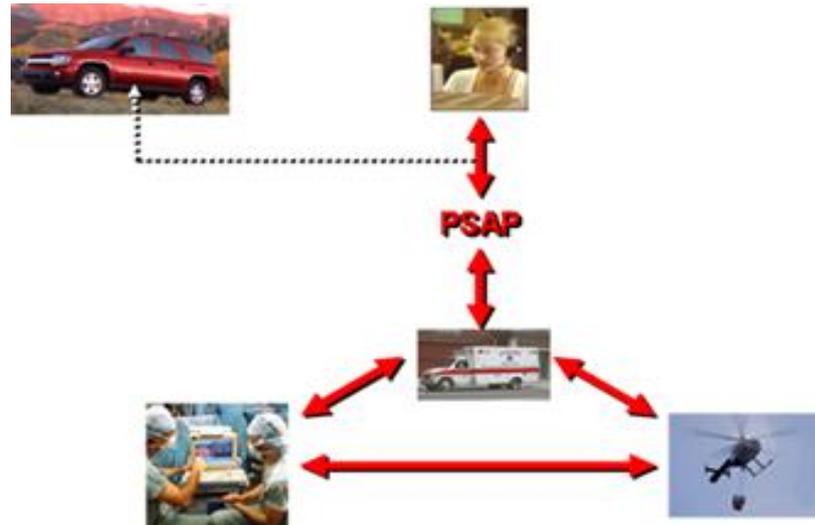
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- ❖ EMS System Development
- ❖ Trauma System Development
- ❖ Injury Prevention
- ❖ Data & Analysis
- ❖ **Advanced Automatic Crash Notification**
- ❖ Towards Zero Deaths – EMS Initiative



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❖ Advanced Automatic Crash Notification

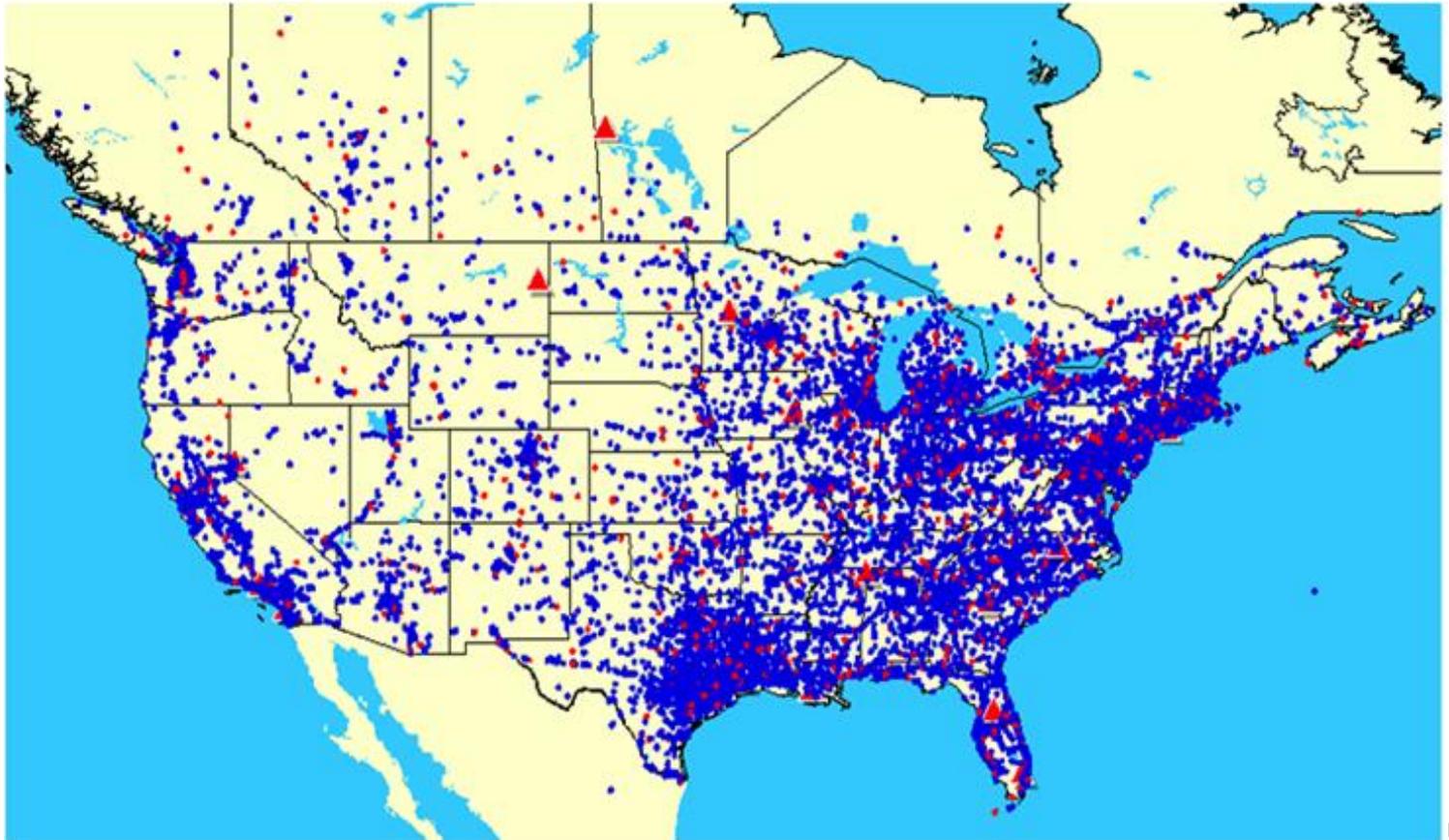


The Event



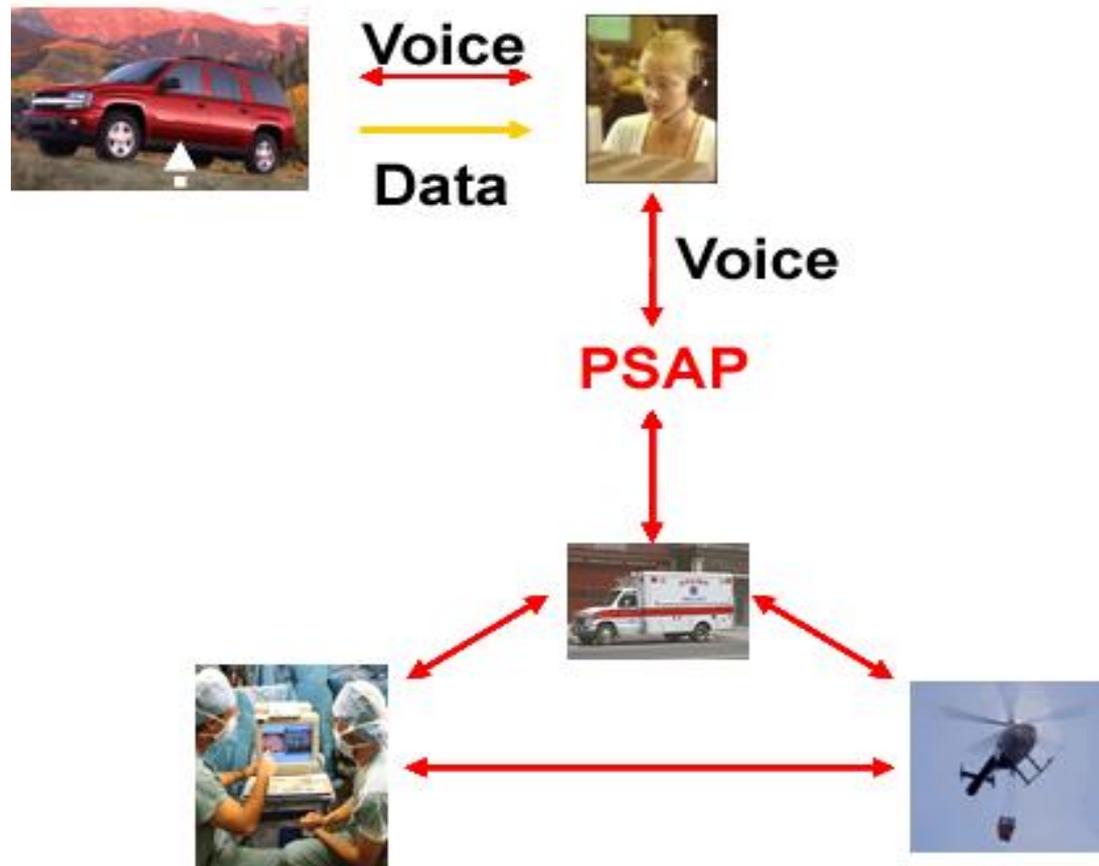
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❖ Advanced Automatic Crash Notification



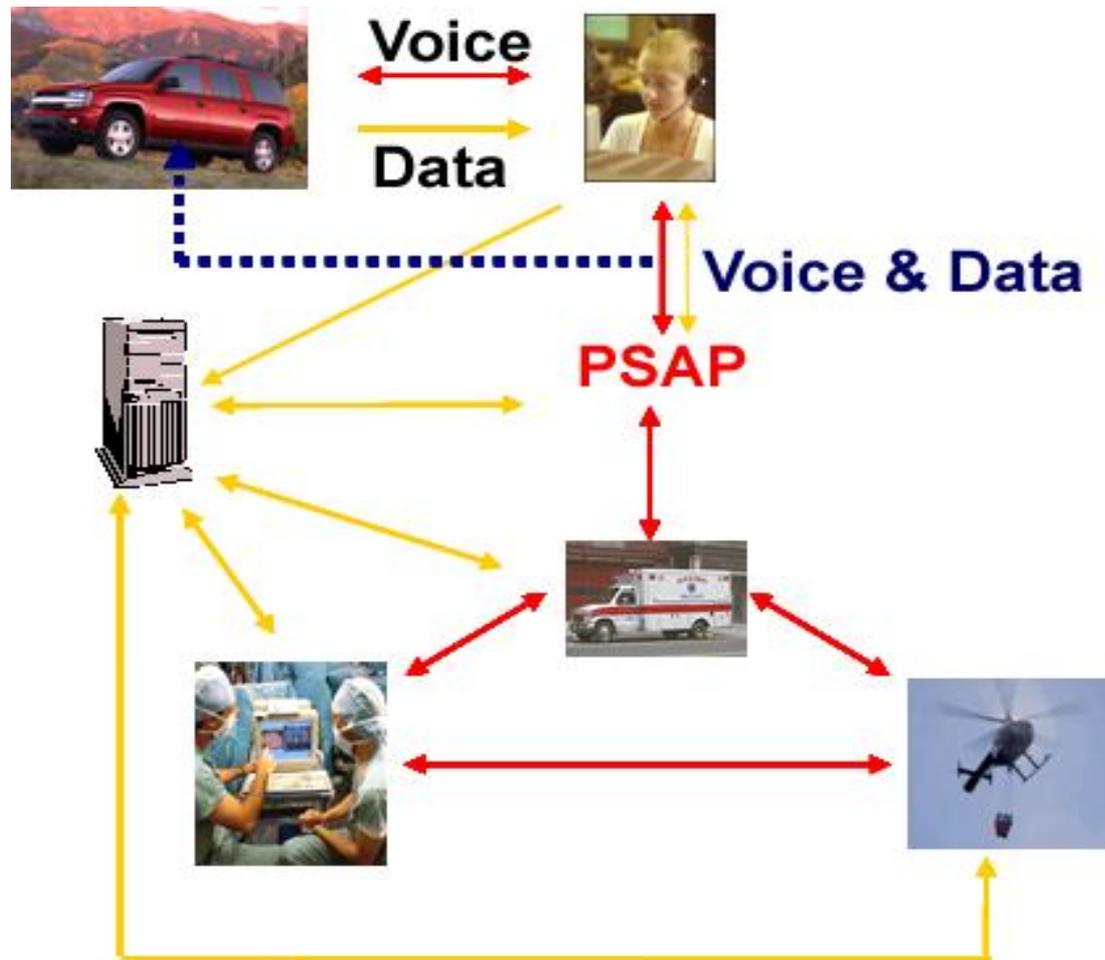
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❖ **Advanced** Automatic Crash Notification



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❖ **Advanced** Automatic Crash Notification



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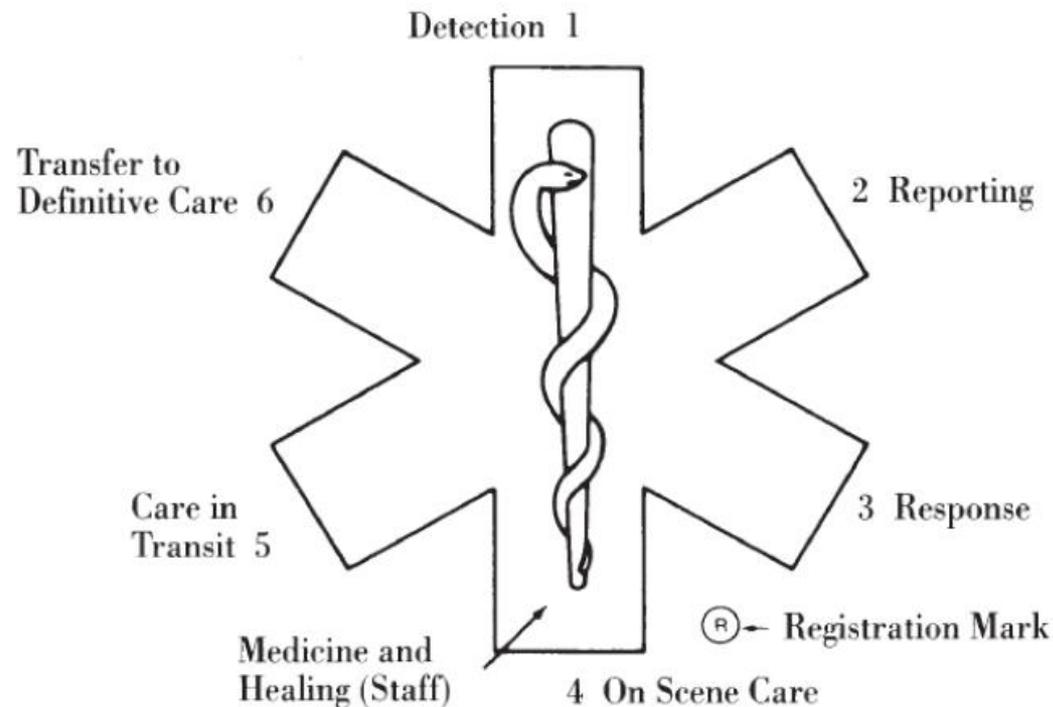
- ❖ EMS System Development
- ❖ Trauma System Development
- ❖ Injury Prevention
- ❖ Data & Analysis
- ❖ Advanced Automatic Crash Notification
- ❖ **Towards Zero Deaths – EMS Initiative**



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❖ Towards Zero Deaths – EMS Initiative

- ❖ Considerations for “Toward Zero Deaths: A National Strategy for Highway Safety”
- ❖ Prepared for NHTSA by NASEMSO, August 2010



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❖ Towards Zero Deaths – EMS Initiative

Detection Systems

- ❖ Telematics data definitions & standards (standardize crash notification projects)
- ❖ Advanced Automatic Collision Notification
- ❖ AACN Predictors

9-1-1 Access and Capabilities

- ❖ Enhanced 9-1-1 and Phase II Compliance
- ❖ Next Generation 9-1-1



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❖ Towards Zero Deaths – EMS Initiative

EMS Response and Capacity

- ❖ National EMS Scope of Practice Model and National EMS Education Standards
- ❖ Vehicle Extrication and Competency Standards
- ❖ Regionalization of Emergency Care
- ❖ Integrated Ambulance-based Safety Systems
- ❖ Evidence-based Emergency Vehicle Operation Standards



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❖ Towards Zero Deaths – EMS Initiative

On Scene Medical Care

- ❖ Field Triage Decision Scheme
- ❖ National Unified Goal for Traffic Incident Management

Patient Transportation

- ❖ Engineering and Design Standards for Ambulances
- ❖ Helicopter EMS Utilization Criteria
- ❖ Ground Ambulance Access to Intelligent Transportation Systems Infrastructure



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❖ Towards Zero Deaths – EMS Initiative

Definitive Care: Hospital and Specialty Care

- ❖ Trauma Systems
- ❖ Prehospital and Interfacility Telemedicine Applications

EMS Data, Registries & Records Linkage

- ❖ National EMS Information System (NEMSIS)
- ❖ Trauma Registry – severe injury data
- ❖ Records Linkage



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