NRITS 2006

The Future of EMS/ITS Communications

ITS America PSAG Medical Subcommittee

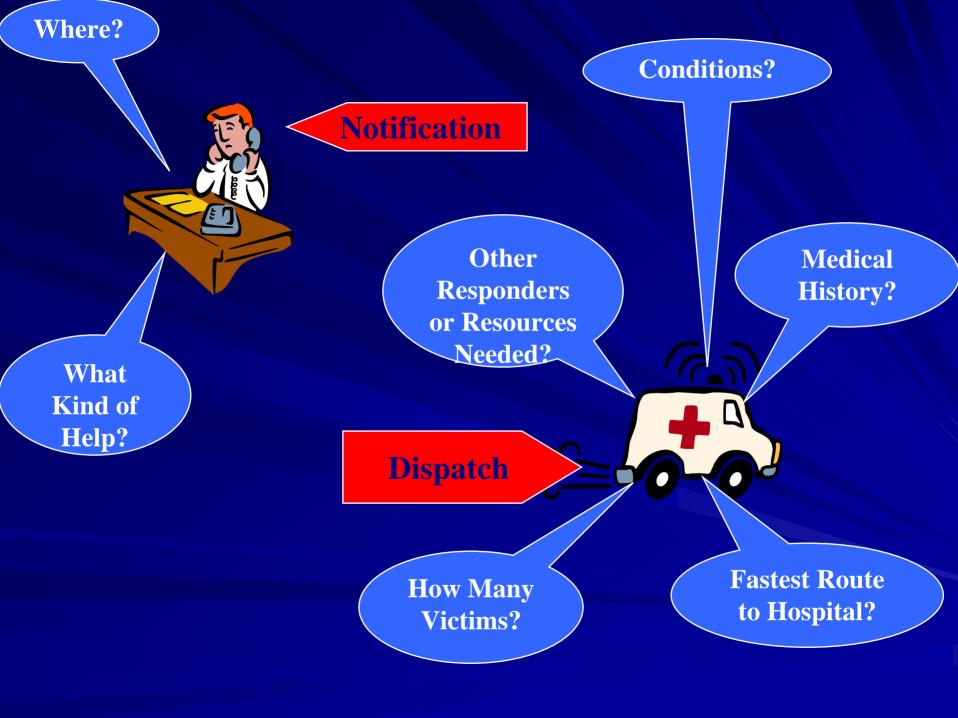
Kevin K. McGinnis, MPS, EMT-P
National Association of State EMS Officials



World Changes







En route

Which hospital?

Fastest route to hospital?



Transport

Condition?

How many victims?

Medical history?

Quarantine?

Call in specialists?

How many operating rooms?

Special equipment needed?

RECOMMENDATIONS
FOR ITS TECHNOLOGY
In Emergency Medical Services

BY THE
MEDICAL
SUBCOMMITTEE
OF THE
ITS AMERICA
PUBLIC SAFETY
ADVISORY GROUP



SPONSORED BY THE ITS AMERICA PUBLIC SAFETY ADVISORY GROUP



CONNECT THE LINKS IN THE CHAIN OF SURVIVAL







AN INVITATION TO PARTICIPATE IN

The National Task Force for Advanced Emergency Information Exchange Networks

EMS Communications — the Future

- Network of Networks
 - Voice, Data, Video
- Description of Requirements
- Suggested Development/Advocacy Methods

ITS TECHNOLOGY





"Push-me-pull-you"

EMS Resource and Event Monitoring System (EMSREMS) "Polling Device"



EMSREMS Ridgeway EMS 1 UNITED AMB. **MERCY** HOSP. LIFE FLIGHT CITY FIRE/RESCUE DIABETIC JONES MEM. HOSP CARDIAC (DIVERT) EMS 1 1800-0600 **MVC** •K. McGinnis P11024 •G. Smith E86054 EMS 2 Out of Svc. **VERNON FD NEW SHARON FD VOLUNTEER** 1ST RESPONDERS AMBULANCE

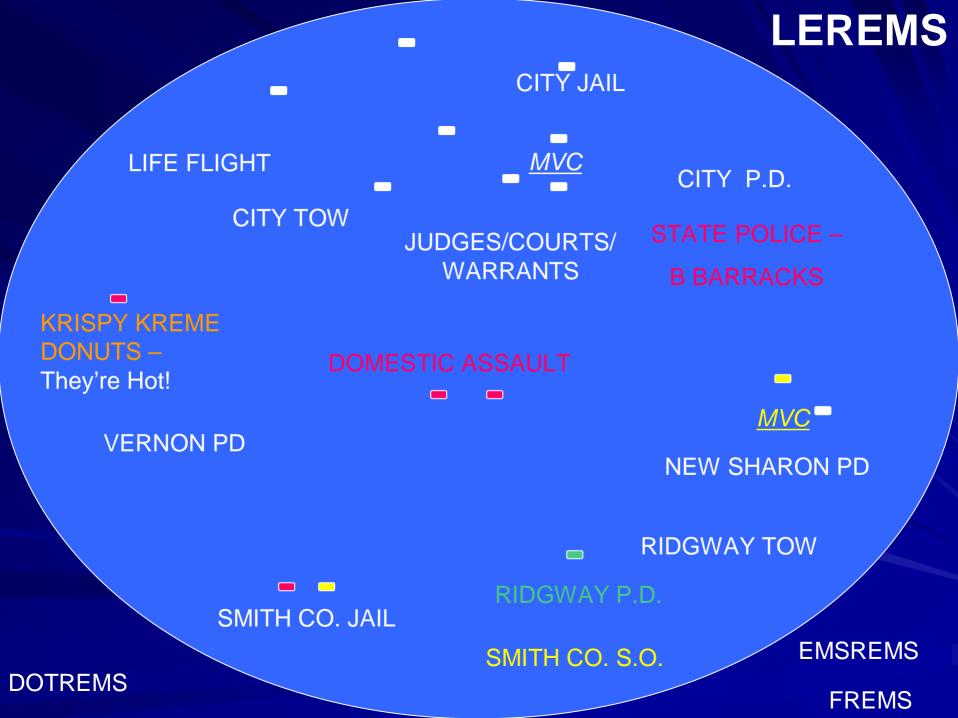
RIDGEWAY FD EXTRICATION/HAZ MAT

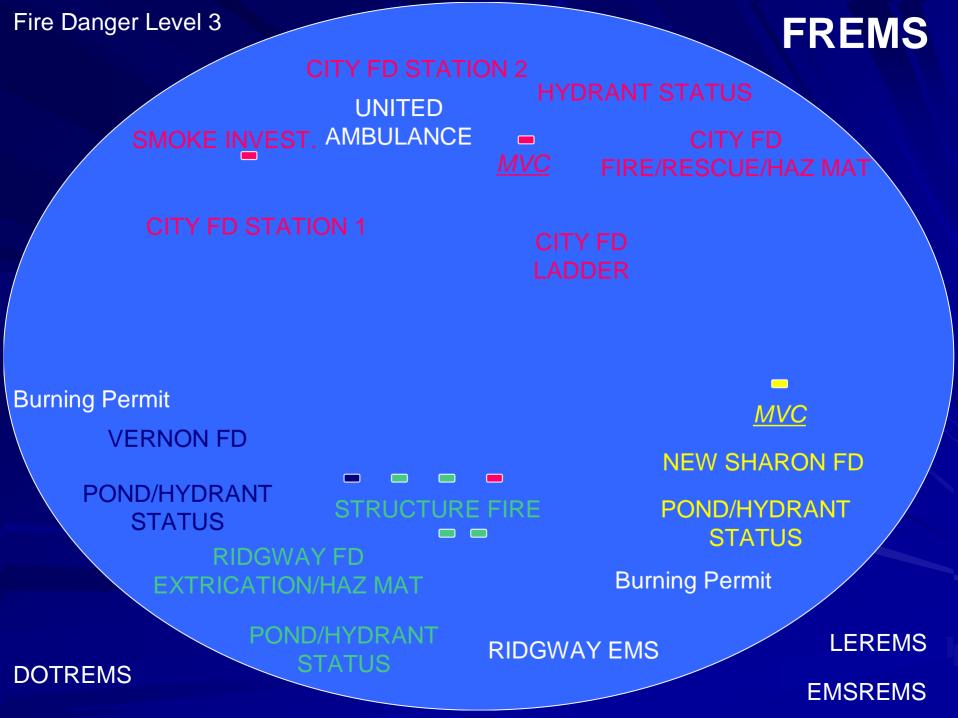
DOTREMS

RIDGEWAY HOSP.

LEREMS

FREMS





Weather Alert:

DOTREMS

Snow 4 – 6"

CITY DPW

CITY TOW

<u>MVC</u>

CITY TRAFFIC MANAGENT CTR. +++

MVC

NEW SHARON PLOW SVC.

RIDGWAY TOW

RIDGWAY DPW

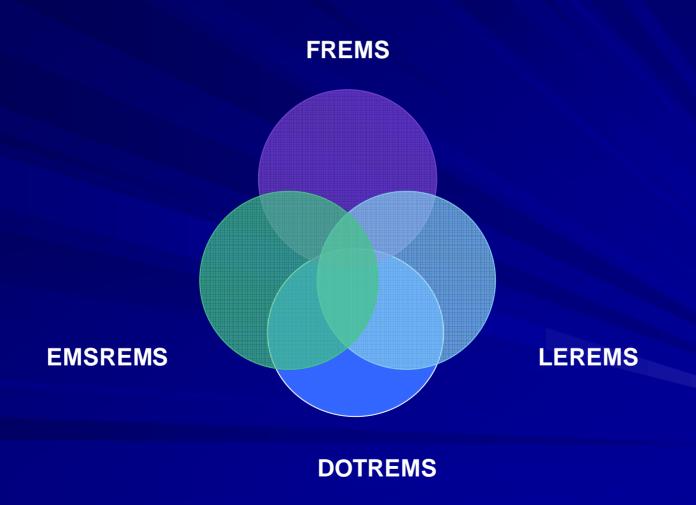
LEREMS

FREMS

EMSREMS

VERNON PLOW SVC.

Database "Network of Networks"



EMS Communications: Current and Future

- "I wonder..." vs. "I know..."
 - System Status Pre-Dispatch
 - Event
 - Dispatch
 - To Scene
 - At Scene
 - To Hospital
 - Emergency Department/Specialty Unit
 - Transfer To Specialty Center

Event: "I have no clue..."



EMSREMS

MERCY HOSP.

HOSP

UNITED AMB.



LIFE FLIGHT ETA: 12 Min's.

<u>MVC</u>

CITY FIRE/RESCUE

JONES MEM. HOSP. <u>CARDIAC</u> (DIVERT)

DIABETIC

CITY TRAUMA CTR.

Team On Alert for Pt:+

NEW SHARON FD

1ST RESPONDERS

VERNON FD VOLUNTEER AMBULANCE

RIDGEWAY EMS

₩VC

ED On Alert for Pt: +

RIDGEWAY FD EXTRICATION/HAZ MAT

RIDGEWAY HOSP.

Ames St. to Clark St. to Old Highway (E); 15.2 Mi.s; #3945 Old Highway

ETA: 10 Min's.

2 Patients/45MPH

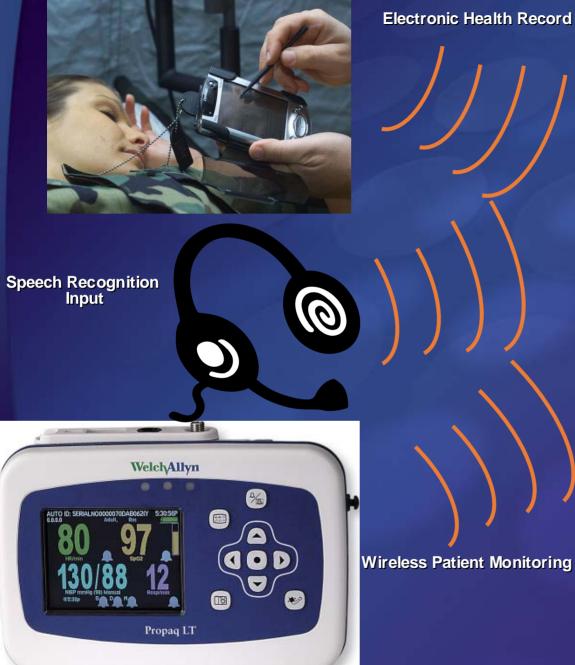
Car/Object/Head
On

++Severity

At Scene: "I wonder..."



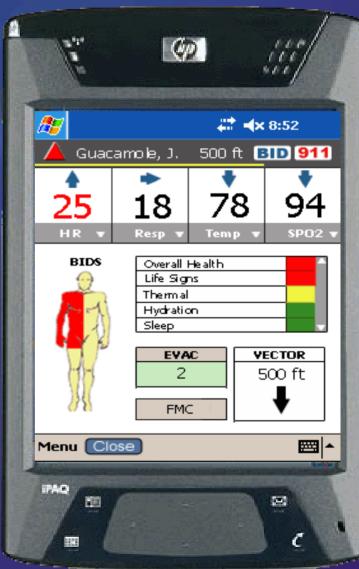




Electronic Health Record



Portable PSCD Type **Platform**



Ridgeway Hospital

MERCY HOSP. UNITED AMB.

UNITED CCT

United Wheelchair

<u>///C</u>

EMSREMS

DOTREMS

To MVC

(DIVERT)

JONES MEM. HOSP. CARDIAC

LIFE FLIGHT

- SOAP Notes

- 3/4 Lead EKG

- 12 Lead EKG

- VS Monitor

CITY TRAUMA CTR

MVA

VERNON FD VOLUNTEER AMBULANCE

RIDGEWAY EMS

MVC

Pt.1

Pt.2



RIDGEWAY HOSP.

Specialist Call List

Service Call List

Tib/Fib Fx x1/x1

AO x 4

140/90;88;18;CR+

2ary -; GCS-,TS-

Needs Summary

- Polling Devices (No → BMIS-T)
- Accessible Databases
- Database Interfaces (USDHS: CAP, DE, NIEM)
- Interoperable Voice/Data Communications (USDHS: NIEM, SafeCom/DM)
- Wall-to-Wall Connectivity/Accessibility (Rural Areas)
- Further Technology Development
 - Radio Frequency ID Applications
 - Advanced Automatic Collision Notification (AACN)
 - Software Defined Radio
 - Alerting (Vehicle and System)
 - Speech Recognition (No → DOD/TATRC)
 - Video/Medical Device Output (Beginning)

