

NEMSIS: Reaching Towards a National EMS Dataset

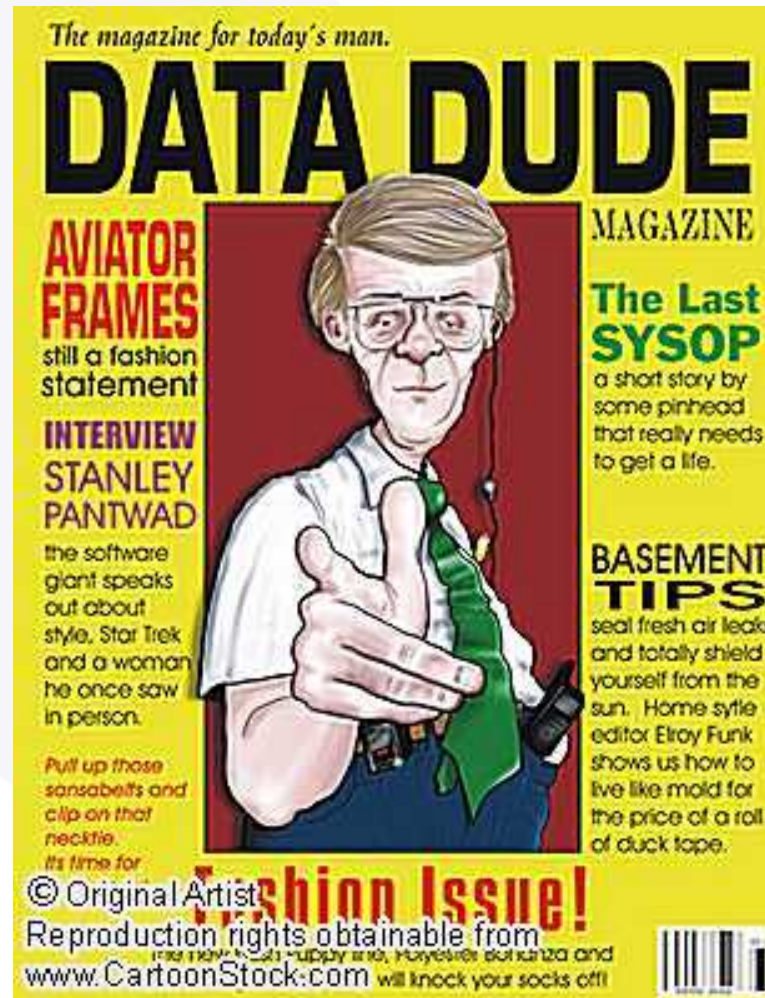
N. Clay Mann, PhD, MS
NEMSIS Technical Assistance Center



Overview

- Need for standardized data
- NEMSIS
 - Two complex objectives for achieve ONE SIMPLE GOAL
 - Where we are today
- Current spotlight on VENDORS & STATES!

Not just another project from Nerdtown!



History of EMS Data

- We can date it back to the “modern age of EMS”

- 1966: *Accidental Death and Disability*

“A review of ambulance services in the United States indicates a paucity of information and a limited framework for the collection of data on and the evaluation of current ambulance services.” (Page 13)



July, 2003

- “There is no nationwide standard for measuring emergency response times. A USA TODAY study of the 50 biggest U.S. cities found that most report only the slice of the response that looks most favorable: the time it takes for the emergency crew to drive to the scene.”
- “This official deception is not unusual. Los Angeles is one of many cities that routinely lie to themselves about their true response times to medical emergencies. The result is needless deaths.”

Why is EMS Data Collection Difficult?

Antonia Marie Pilaski Mark Bess
Alias:

Antonia Pilaski

Montgomery Street Salt Lake City, UT

Trauma Center

Pilaski

9-1-1 call

in the residence

Hospital Address:

245 Chipeta Way, Murray, UT

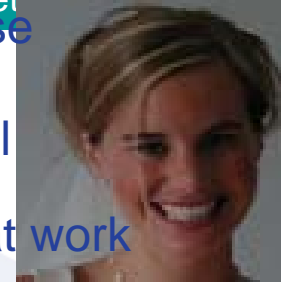
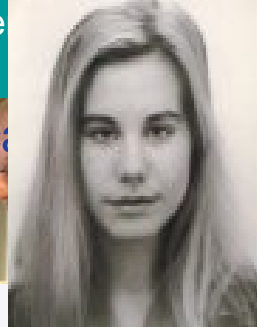
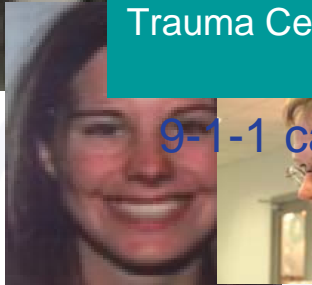
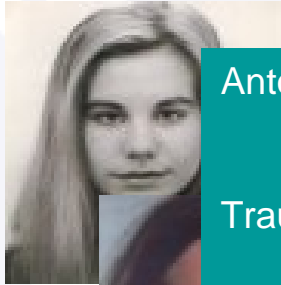
runs to neighbour's house

Marie is transported to nearest hospital

15 hours later, Marie transferred to a trauma center

A domestic dispute with fiancée arrested at work

**Who Know's
Marie's Story?**

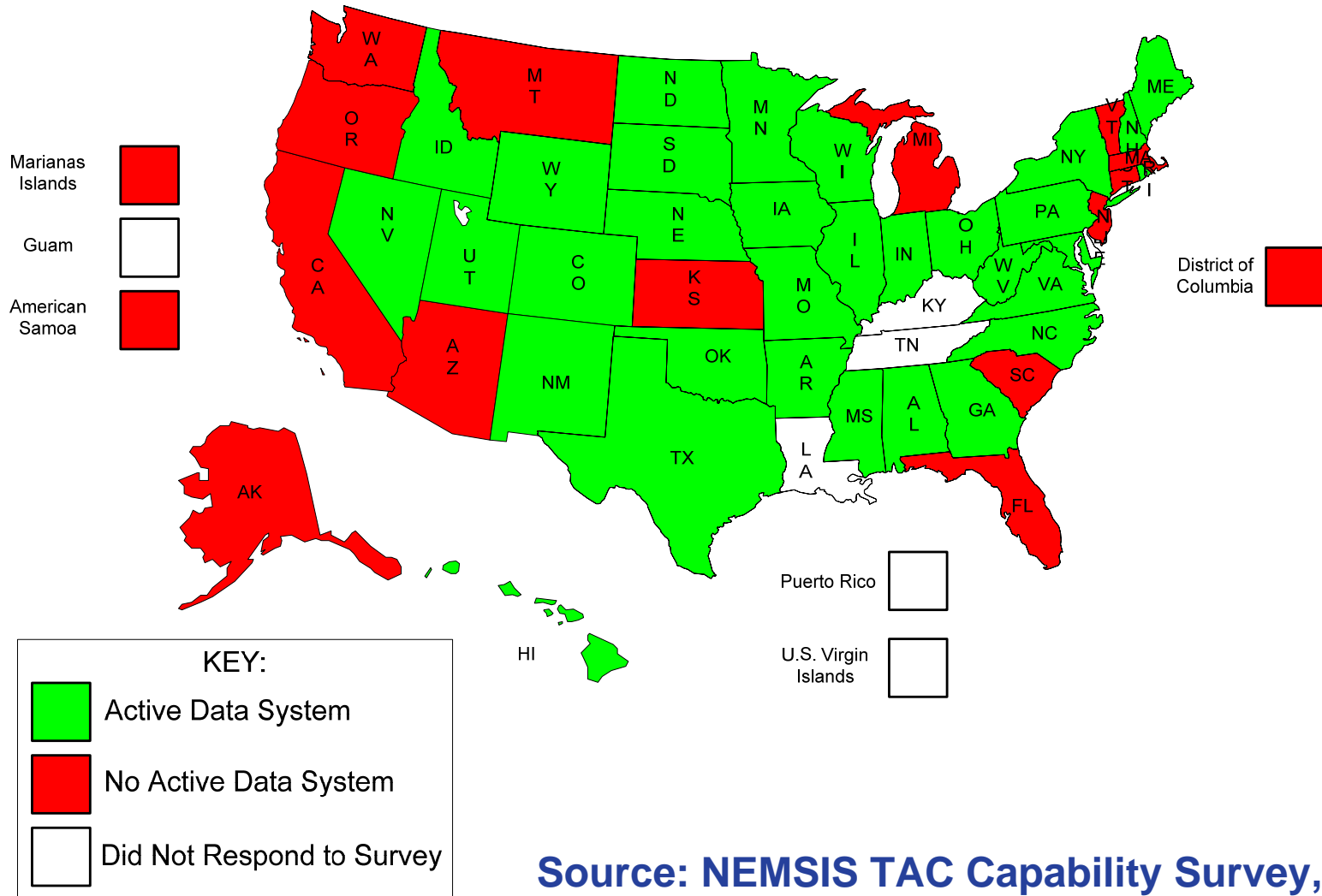


What is NEMSIS?

- NEMSIS - National Emergency Medical Services Information System.
- NEMSIS – provide for a national repository that will store EMS data from every state in the nation.



Status Among States



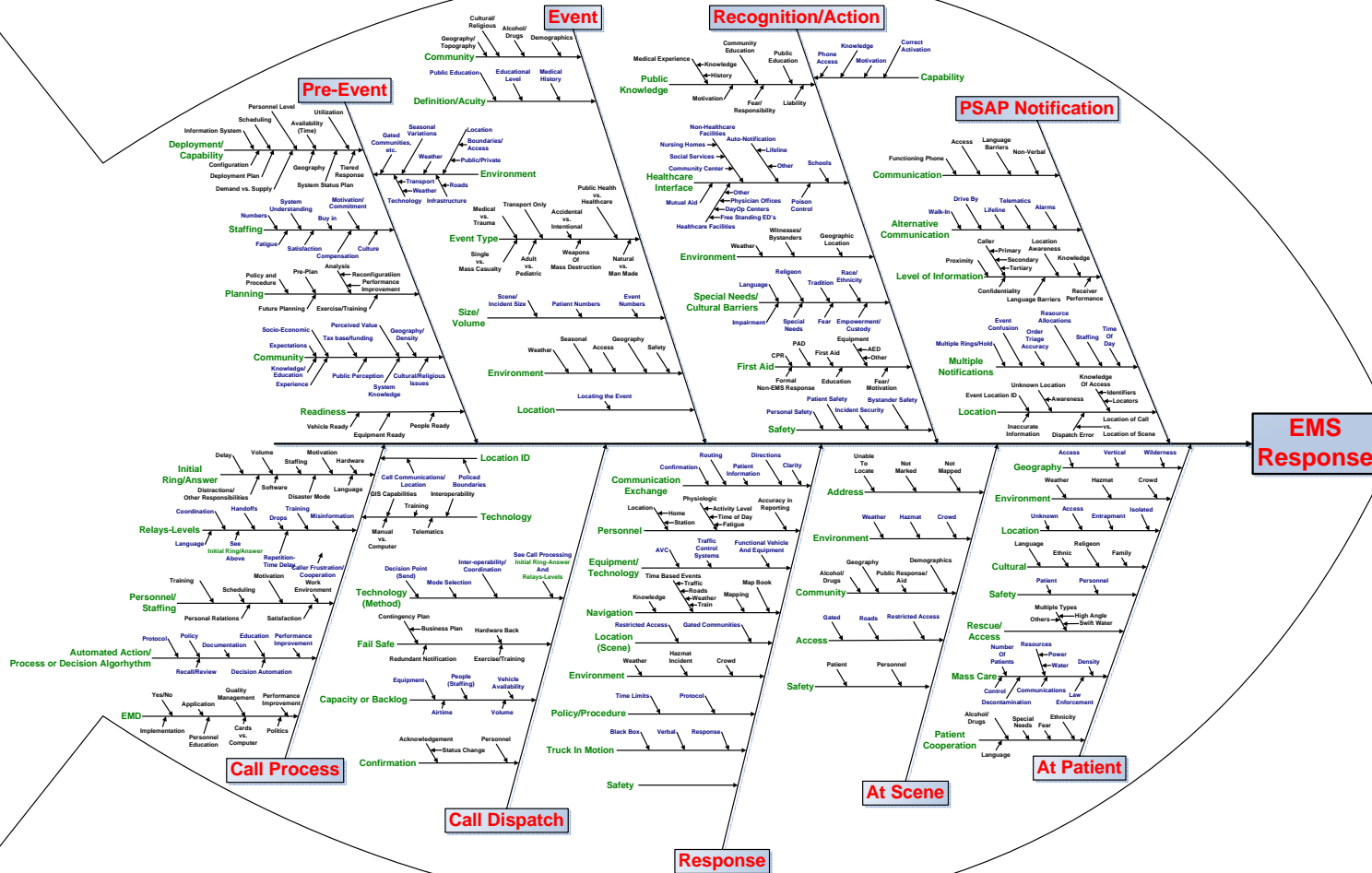
Source: NEMIS TAC Capability Survey, 2006

The Need

- EMS Education
 - Curriculums
 - Local Education
- EMS Outcomes
 - Something other than death
 - System evaluation
- EMS Research
 - Generate hypothesis
 - Evaluate cost-effectiveness
 - Identify problems and target issues
- EMS Reimbursement
 - National fee schedule and reimbursement rates

EMS Performance Improvement Resource Center

EMS Response by Chronology

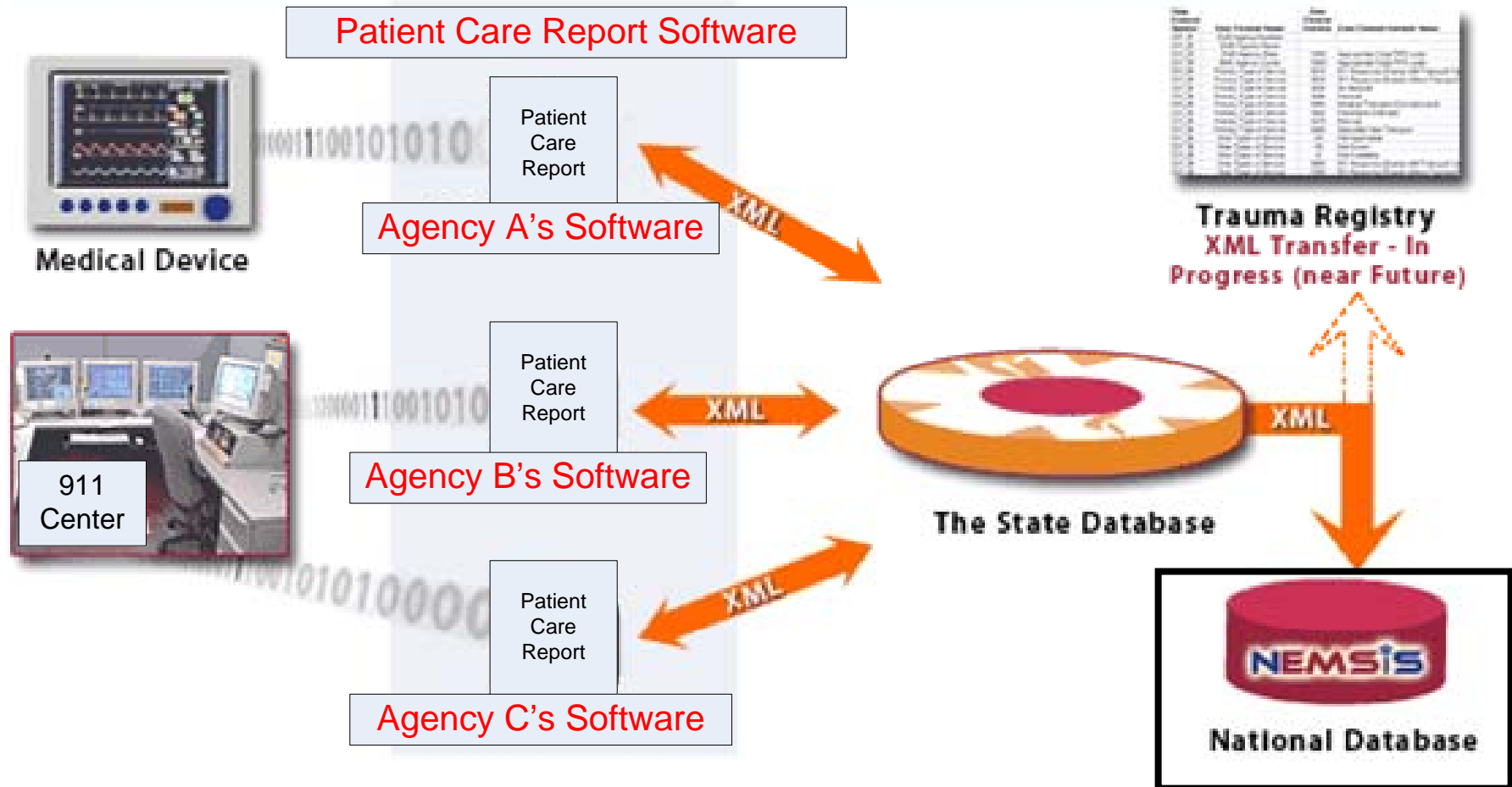


NEMSiS Objectives

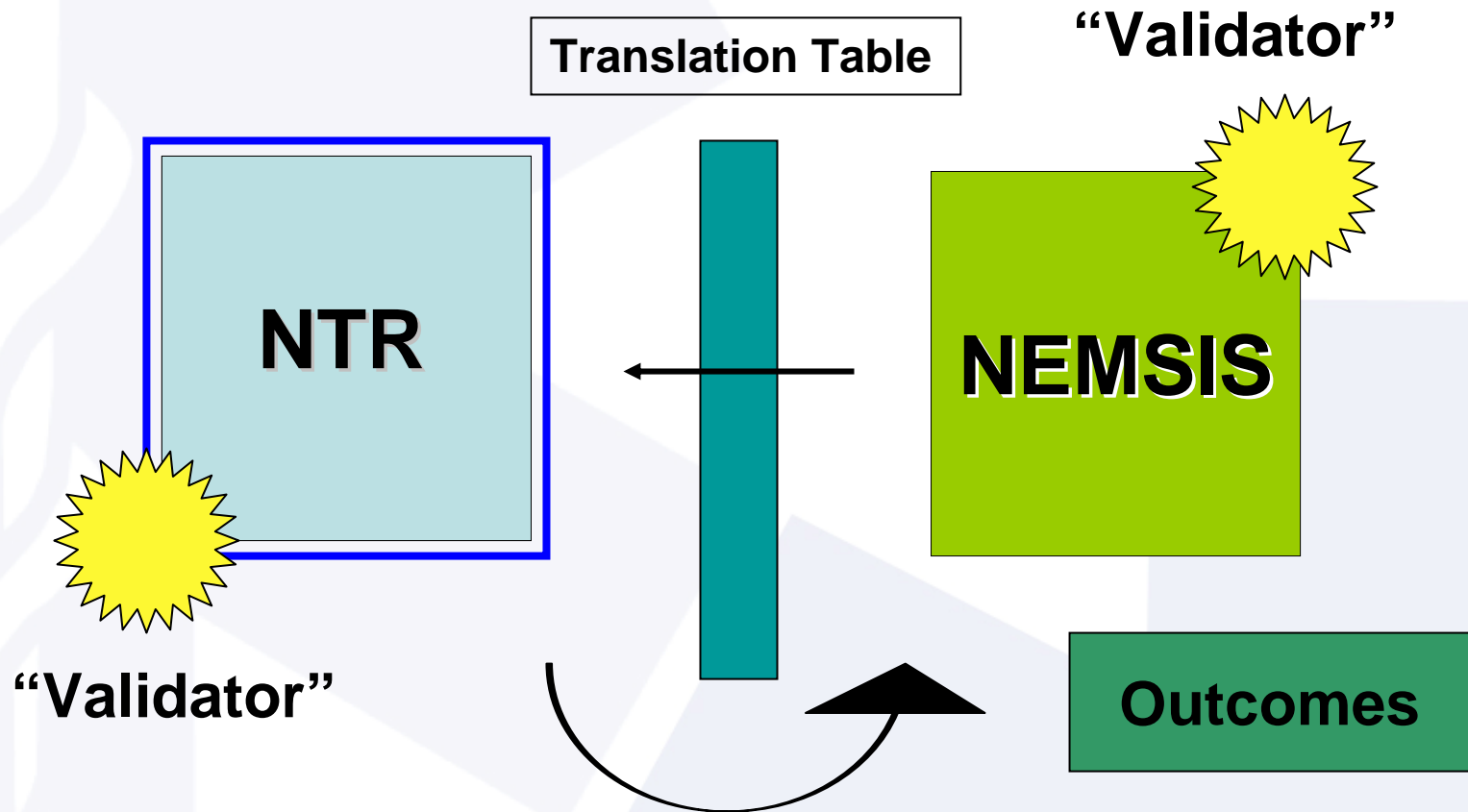
- Compose a Uniform Dataset
 - Demographic dataset (EMS System)
 - EMS dataset (EMS Event)
- Ensure the Portability of Data
 - XML (eXtensible Markup Language)
 - XSD (XML Schema Definition)



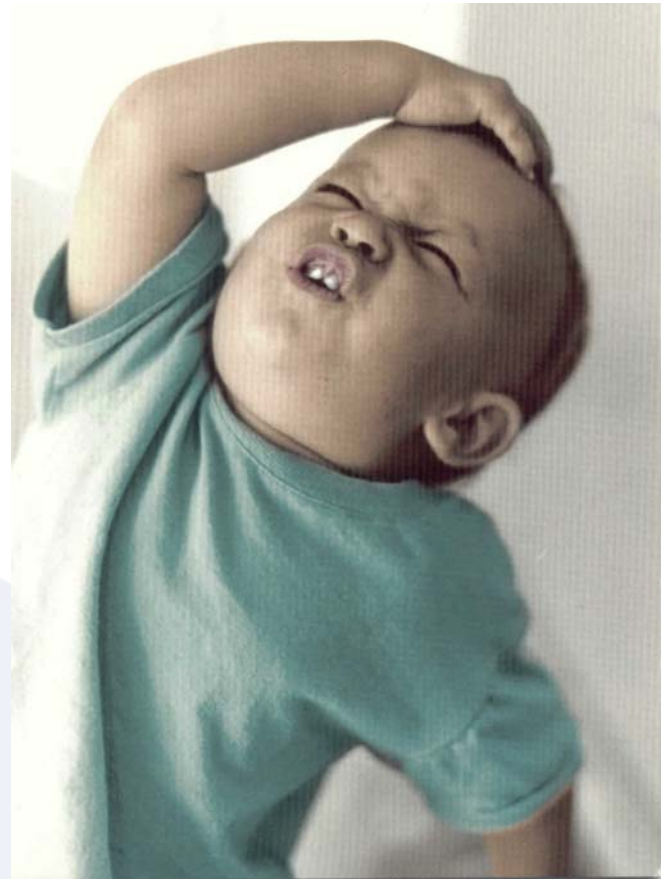
THE PORTABILITY OF DATA - the **NEMSiS** STANDARD.



Value of Combined NEMSIS & NTR



Where are we?

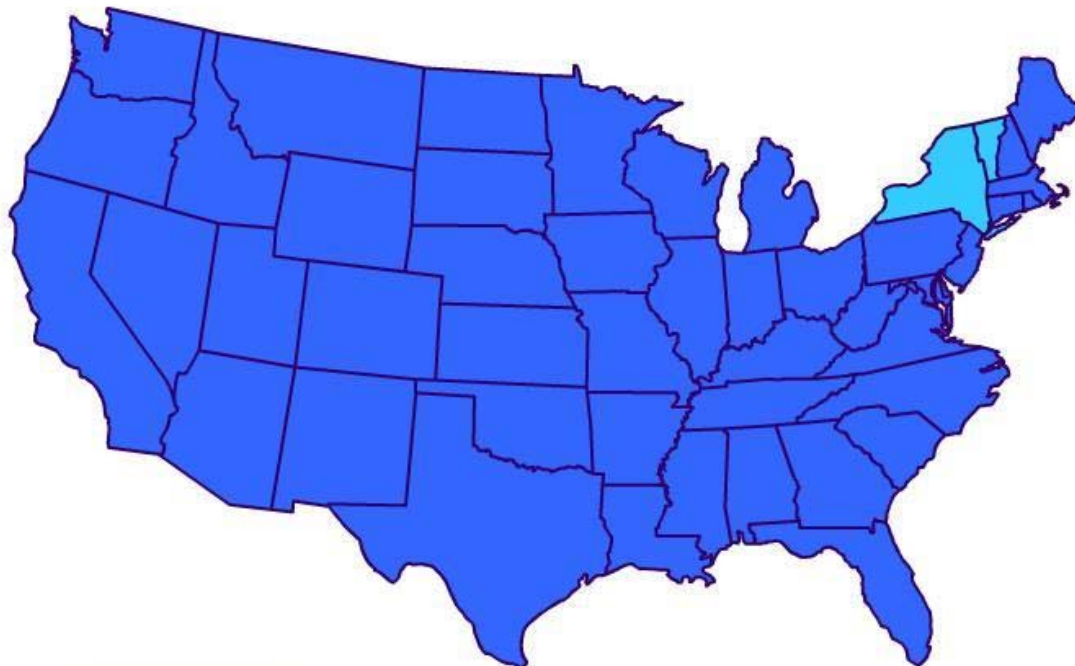




MOU Participant



Non-Participant



MOU Participant Territories:

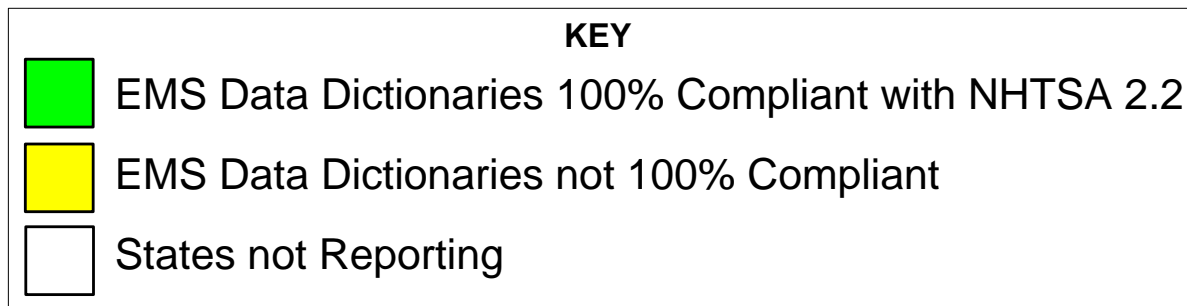
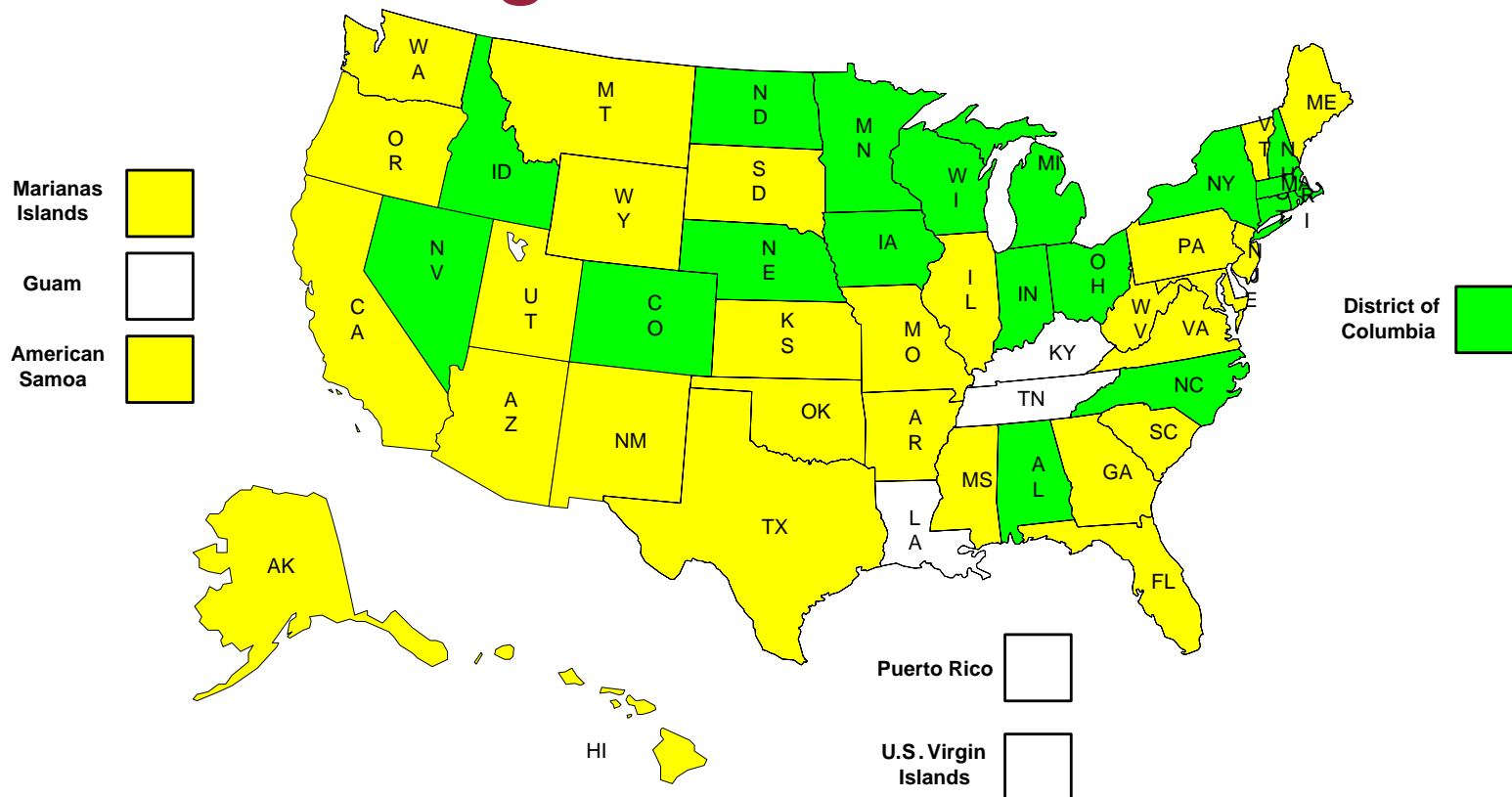
- Guam
- Northern Marianas Island
- District of Columbia
- American Samoa

Non-Participant Territories

- Virgin Islands
- Puerto Rico



States Using the NHTSA Standard

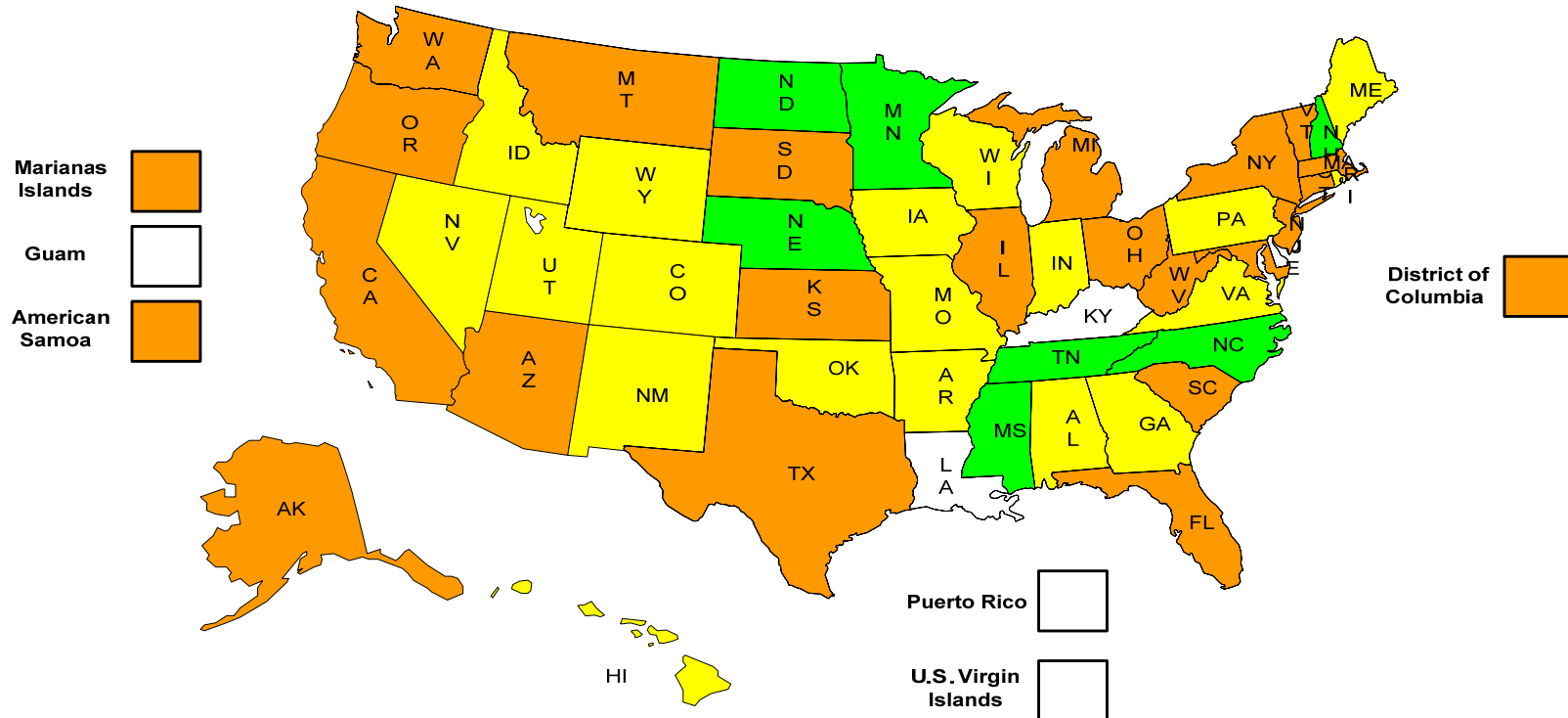






Protracted Employment

- 33/49 states with uniform data dictionary

State	% Submitting	State	% Submitting	State	% Submitting
Wisconsin	4	South Dakota	75	Hawaii	100
New Mexico	10	Idaho	78	Illinois	100
Utah	20	Virginia	80	Maine	100
Colorado	50	Georgia	80	Minnesota	100
Texas	60	Ohio	85	Mississippi	100
Arkansas	60	Indiana	85	New York	100
Alabama	60	West Virginia	86	North Carolina	100
Iowa	65	Nebraska	90	North Dakota	100
Missouri	70	Oklahoma	95	Pennsylvania	100
Nevada	70	Wyoming	99	Rhode Island	100

National EMS Database



KEY	
	Submitting in 2006
	Reporting as Capable of Submitting in 2007
	Reporting a Date After 2007 or Unknown
	Did Not Respond to Survey

NEMSIS TAC

- To facilitate the collection of EMS data from States and Territories to create the National EMS Database.
 - Two campuses
 - Ten staff
 - NEDARC is offering assistance
 - Small grant opportunities

NEMSiS TAC

- Simple goal, complicated objectives
- This means that the TAC will be offering assistance to:
 - States
 - Local EMS agencies
 - Software developers

Process Seem Overwhelming?



NEMSiS TAC Resources

- www.nemsis.org
- Reference Documents
- NEDARC SWOT of EMS Data System
- NEMSiS-specific Site Visits
- Software Compliance Process
- NEMSiS Reporting Tools
- Small Grant Opportunities
- Other

www.nemsis.org

NEMSIS - National EMS Information System - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

http://www.nemsis.org/

EMSNetwork News & ... NEMSIS Listserve Kronos Workforce Ce... eRoom SugarCRM - Commerc... Count and Sum Your ... Excel Developer Tip: ... Mobissimo Travel | Ch... Orbitz: Airline Tickets... MSQA

Google Search

NEMSIS
TECHNICAL ASSISTANCE CENTER

Helping Unify EMS Data

SEARCH NEMSIS: Enter Search Here GO

Download Data Dictionary

Home The Project The Partners Technical Support Data Elements Reference Materials Contact Info

Local EMS Data

State EMS Database

National EMS Database

The NEMSIS Technical Assistance Center (TAC)...

Offering technical assistance on the implementation and tracking of National EMS Data.

"No local, state, or federal databases were suitable for use due to inconsistent data definitions, inconsistent data formatting, and variation in inclusion criteria."

- 2003: The EMS Outcomes Evaluation Project (Page 8)

Program Sponsors:

- NHTSA • HRSA • CDC • University of Utah • University of North Carolina

Latest News

Download the Latest NEMSIS IHTSA Dataset Version 2.2
Need the latest dataset dictionaries and schemas? Find it all here.

2006 National Report Card
The 2006 National Report Card on the State of Emergency Medicine states that the nation's emergency care system itself is ailing.

The September NEMSIS Webcast
Listen or read the archives from the MCHB/EMSC's National EMS Information System (NEMSIS) Webcast (September 28, 2005)

NEMSIS System Animation
A visual animation created to explain the NEMSIS system.

Software Vendors

NEMSIS Validator Application
Download the Validator Software, test files, and a quick reference guide.

Compliance Information
Review the latest information on developing and ensuring your software is NEMSIS compliant.

Software Compliance Testing and Certification
Click on the above link to learn how to certify your EMS software package as being NEMSIS Compliant.

Join the NEMSIS List Server and/or the Online User Group.

Transferring data from www.nemsis.org...

Software Compliance

- On March 1, 2006, the TAC began testing software developers for compliance
- At the end of March there were over 15 applicants (multiple software packages too)
- There are two levels of compliance:
 - Gold
 - Silver

Silver and Gold Compliance

Silver (2)

- Must have the National elements
- Any additional elements must comply with the standard
- Must create the right XML/XSD files

Gold (4)

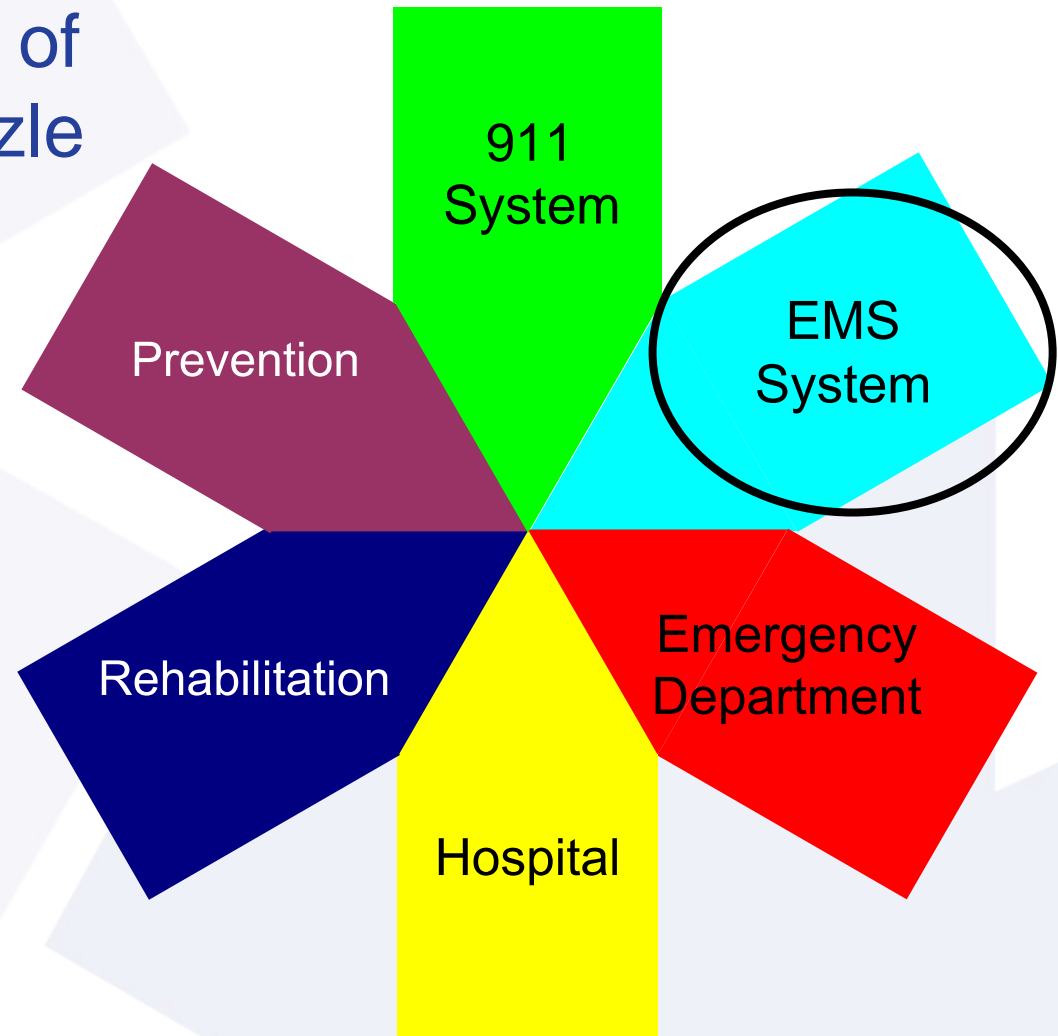
- Must be able to offer all of the elements found in the NHTSA dataset
- Must create the right XML/XSD files

National EMS Reporting

- 10 Reporting Domains
 - Data Quality Reports
 - Agency Reports
 - Elapsed Time Reports
 - Patient Characteristics Reports
 - Disposition Reports
 - Provider Reports
 - Cardiac Arrest Reports
 - Billing Reports
 - Delay Reports
 - Trauma Reports

Where We Need to Be

- EMS is one piece of a health care puzzle



Conclusion

- The NEMSIS Standard is here to stay
- The efforts of the EMS community (plus the standards) will improve patient care
- Data collection and evaluation are the first steps in characterizing and improving what we do

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Available Resources



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