



NEMESIS at the California Health Information Exchange Summit

April 19, 2016



Hi, I'm Noah



Challenges and Opportunities for NEMSIS and EMS Data

- ▶ Challenge #1: Definition
- ▶ Challenge #2: Perception
- ▶ Challenge #3: Meaningful Return on Investment

- ▶ Opportunity #1: Measure and Improve Performance
- ▶ Opportunity #2: Interoperability
- ▶ Opportunity #3: Commitment to NEMSIS Evolution



Challenge #1

Definition



What is NEMESIS?

- ▶ Output standard of local EMS patient care reports
- ▶ Data element dictionary for point of care collection
- ▶ Compliance testing for ePCR software
- ▶ Facilitation of interoperability and exchange standards
- ▶ Standards for moving select data to state databases
- ▶ Linkage of data among state databases
- ▶ Collection of select data into the National EMS Database
 - ▶ Online National EMS Database
 - ▶ Research Dataset
- ▶ The effort to standardize, aggregate and utilize point of care EMS data at a local, state and national level to improve care.



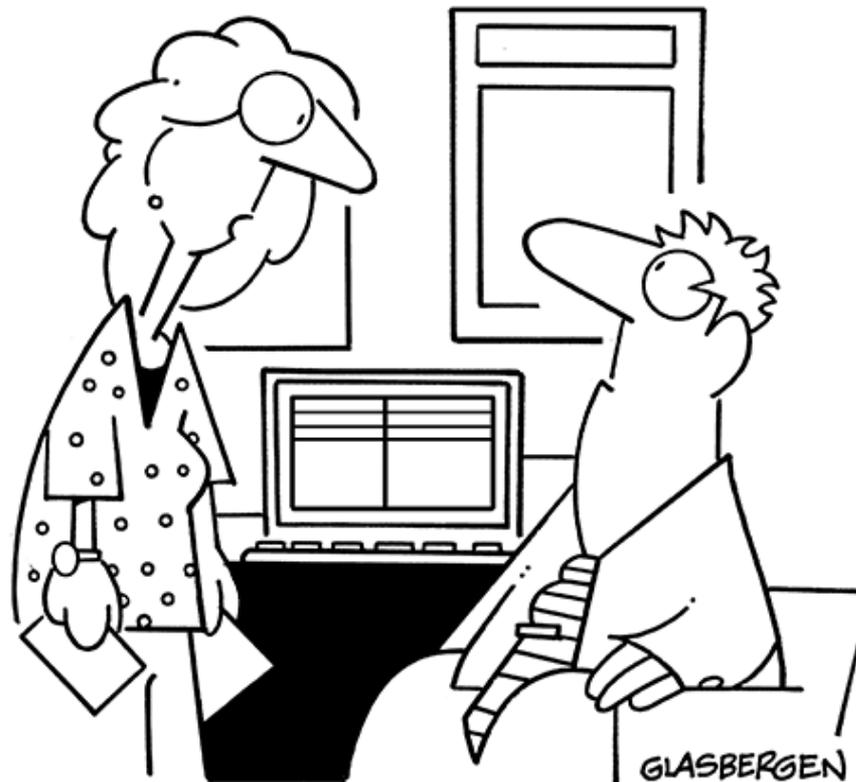
Challenge #2

Perception



Healthcare Data – What is that?

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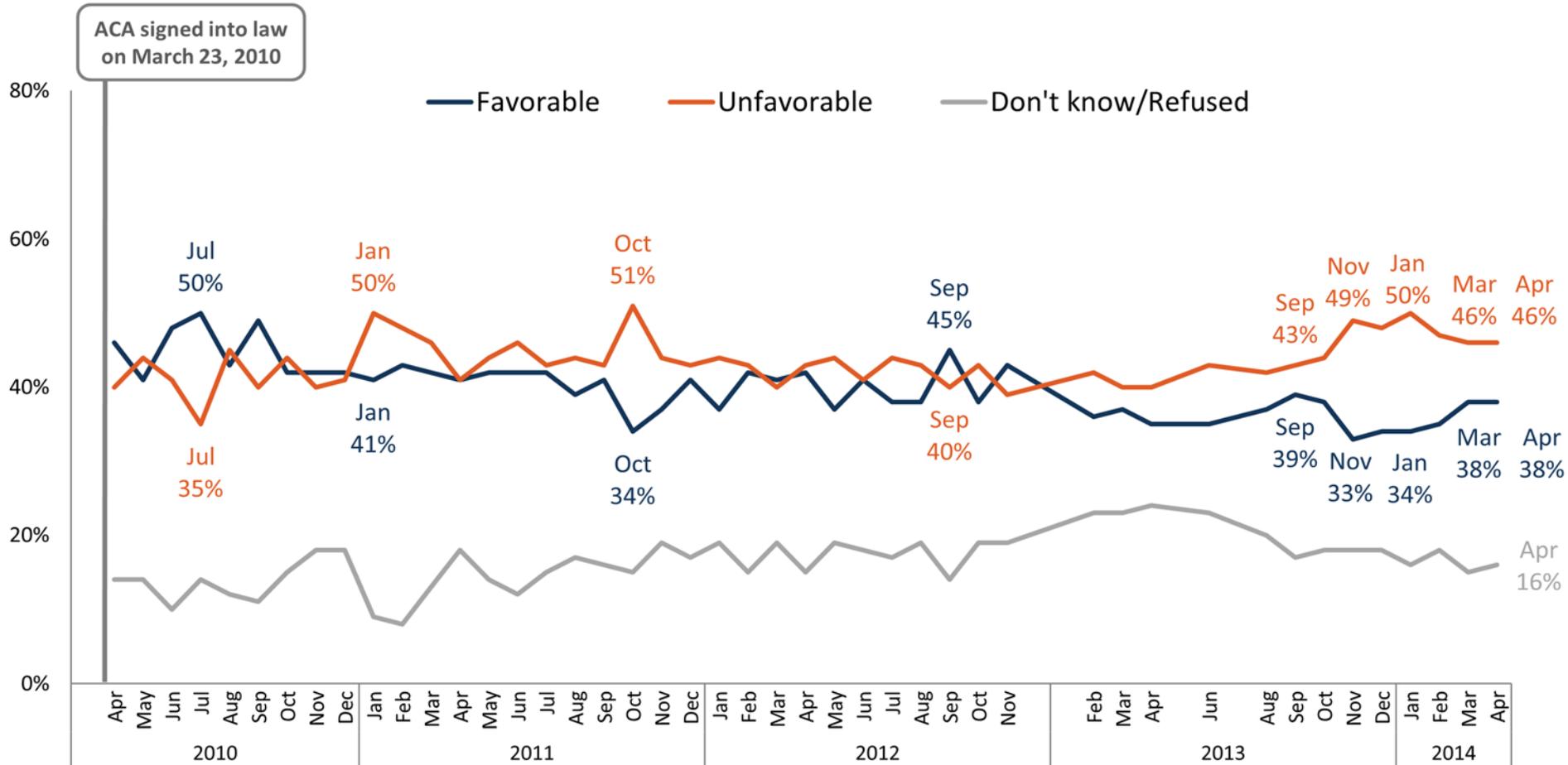


“The doctor will be in shortly to type on the computer and update your chart. If he has time, he will ask how you’re feeling and take a look at your rash.”



Public Opinion of the Affordable Care Act

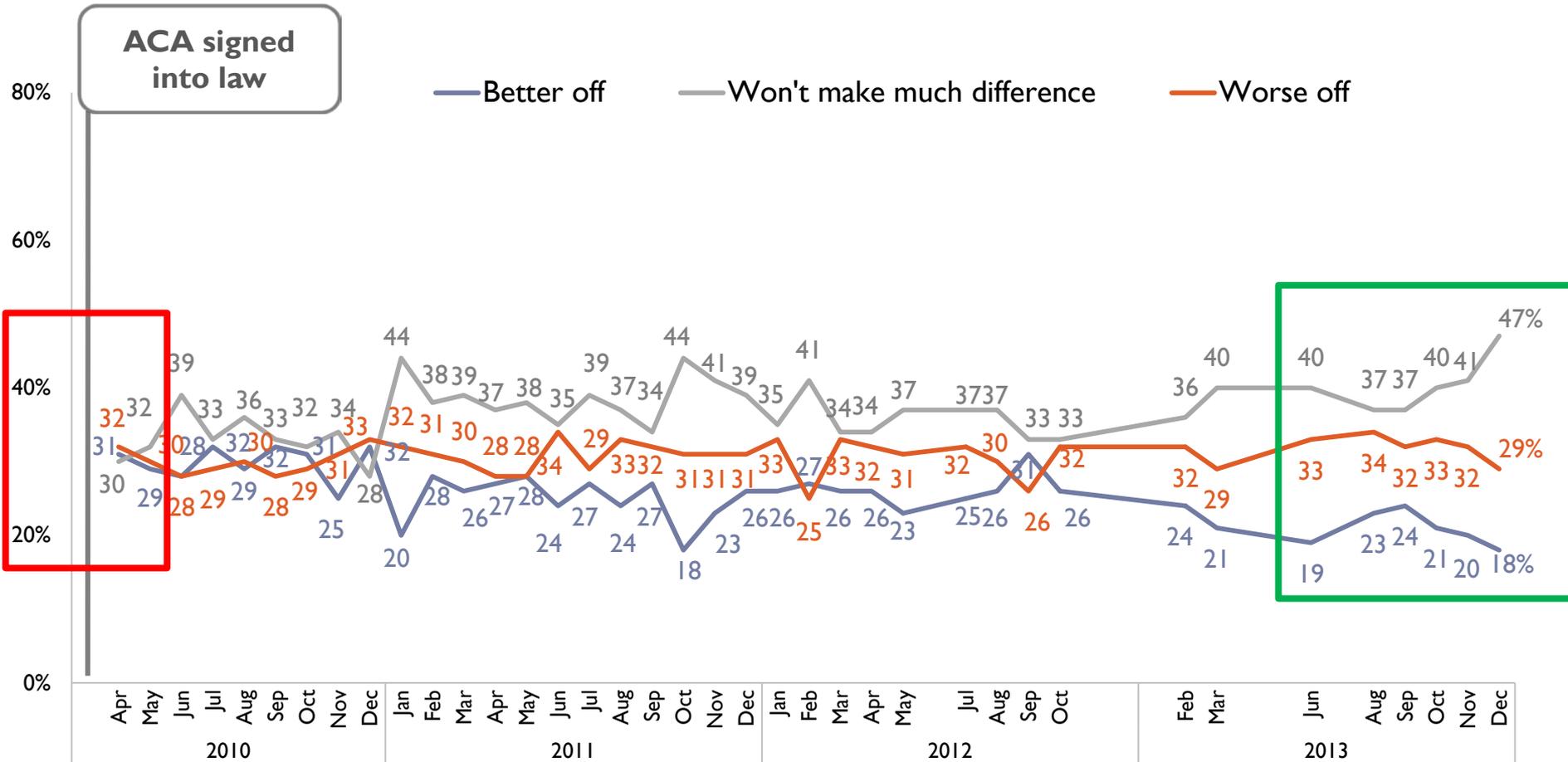
As you may know, a health reform bill was signed into law in 2010. Given what you know about the health reform law, do you have a generally favorable or generally unfavorable opinion of it?



SOURCE: Kaiser Family Foundation Health Tracking Polls



Will you be better off or worse off under the health reform law?

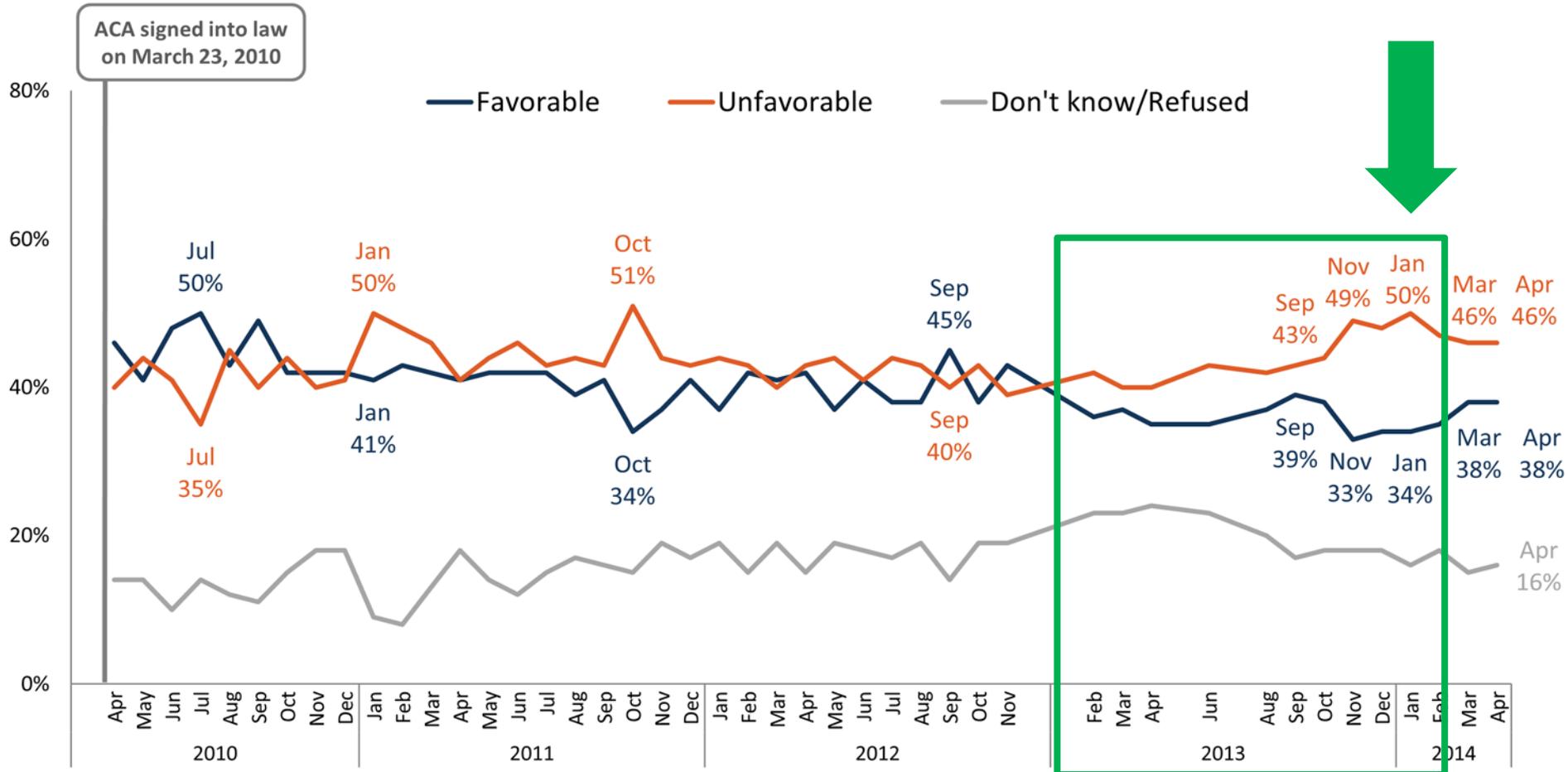


Don't know/Refused answers not shown.
SOURCE: Kaiser Family Foundation Health Tracking Polls



Public Opinion of the Affordable Care Act

As you may know, a health reform bill was signed into law in 2010. Given what you know about the health reform law, do you have a generally favorable or generally unfavorable opinion of it?



Challenge #3

Meaningful Return on Investment



Data: What's In It For Me?

Why do I invest so much in data systems?

How can we best use our data to improve patient care, sustainability and innovate?



Opportunity# 1

Measure and Improve



▶ EMS Compass Initiative will:

1. Develop a lasting process for designing EMS specific performance measures.
2. Design an initial small set of clinical measures linked to NEMSISV3 data elements.
3. Develop guidance for EMS agencies and providers in how to measure and improve.
4. Work with ePCR vendors to allow local and state measurement with their own data on day one.

▶ Begin to shift our culture toward one of data-driven performance improvement

▶ Be a reason to transition to Version 3



Opportunity#2

Facilitate Interoperability



**EMS
ePCR**

ALERT



*NEMESIS format CDA
to ED dashboard*

**Emergency
Department**

**EMS
ePCR**

FILE



*NEMESIS 3 XML to HL7
Structured data, not PDF*

**Hospital
EHR**

**EMS
ePCR**

RECONCILE



NEMESIS eOutcome Measures

**Hospital
EHR**

FICEMS Position Statement on NEMSIS



FICEMS

Federal Interagency Committee on EMS

*FICEMS promotes the adoption and full utilization of electronic patient care data systems by all EMS agencies that are standardized through the National EMS Information System (NEMSIS). **Standardized and accessible patient-level data is essential to the improvement of pre-hospital emergency care and the integration of EMS into the broader healthcare system...***

Federal funds may be used to support activities that support EMS agencies and states to implement NEMSIS-compliant data systems and use collected data meaningfully to measure and improve the quality of care, including through research.

-Adopted August 12, 2015



FICEMS Grant Guidance Recommendation

As NEMSIS transitions from Version 2.2 to Version 3.0+, FICEMS recognizes the need for complete and uniform documentation of EMS patient care, the inclusion of that documentation in the patient's electronic health record, and the use of this data to support EMS performance measurement and improvement...

Federal funds may be used to support activities for EMS agencies and states to implement and/or upgrade NEMSIS-compliant data systems and use collected data meaningfully to measure and improve the quality of care, including through research.



December 22, 2015

Dear Federal colleague,

The Federal Interagency Committee on Emergency Medical Services (FICEMS) was created by Congress in 2005 (42 U.S.C. § 300d-4) and established by the Secretaries of Transportation, Health and Human Services, and Homeland Security to, in part, *ensure coordination among the Federal agencies involved with State, local, tribal or regional emergency medical services and 9-1-1 systems*. I serve as the elected Chair of FICEMS.

One of FICEMS' highest priorities is to assure standardization of EMS patient care data through full implementation of the [National Emergency Medical Services Information System \(NEMSIS\)](#). The availability and enhancement of such standardized data has assisted in assuring quality of care through effective medical oversight, supporting EMS research, and providing overall EMS system accountability. As NEMSIS transitions from Version 2.2 to Version 3.0+, FICEMS recognizes the need for complete and uniform documentation of EMS patient care, the inclusion of that documentation in the patient's electronic health record, and the use of this data to support EMS performance measurement and improvement.

Several Federal publications and projects have confirmed the importance of EMS data for the continuum of care of patients. The following may serve as references for your staff and for applicants to your grant programs:

- The [Federal Health Information Technology \(HIT\) Strategic Plan for 2015-2020](#), published by the Office of the National Coordinator for HIT (ONC) notes the importance of emergency medical services providers and the data they collect:
"Often individuals who receive services and care from [EMS] providers are among the most vulnerable, and the rich information available from these providers can have significant impacts on individuals' health and their care decisions with others in the health enterprise. For example, EMS practitioners provide stabilizing care and transportation services; having access to a patient's salient clinical information as a first responder can improve patient health and safety. "Access to linked outcomes data from hospitals can help EMS systems measure performance, improve their provision of care, and provide timely feedback to providers..." (page 16)

FICEMS c/o
Office of Emergency
Medical Services
1700 New Jersey Avenue, SE
401-160
Washington, DC 20006
0101 366-5480
fics@icem-volba.org

Department of Defense
Office of the Assistant
Secretary of Defense for
Health Affairs

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Homeland Security**
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Control and Prevention
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Medicaid Services

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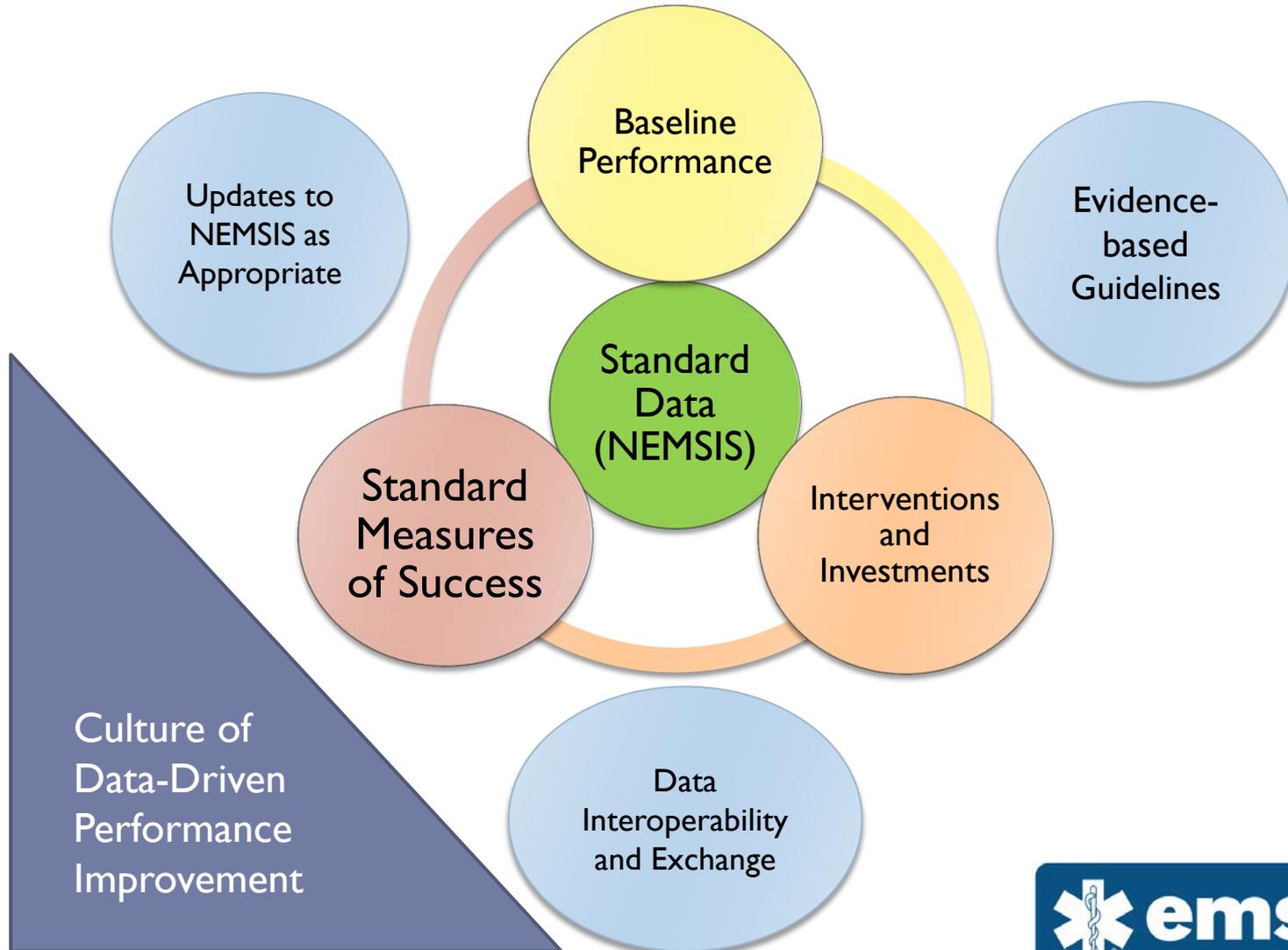


Opportunity#3

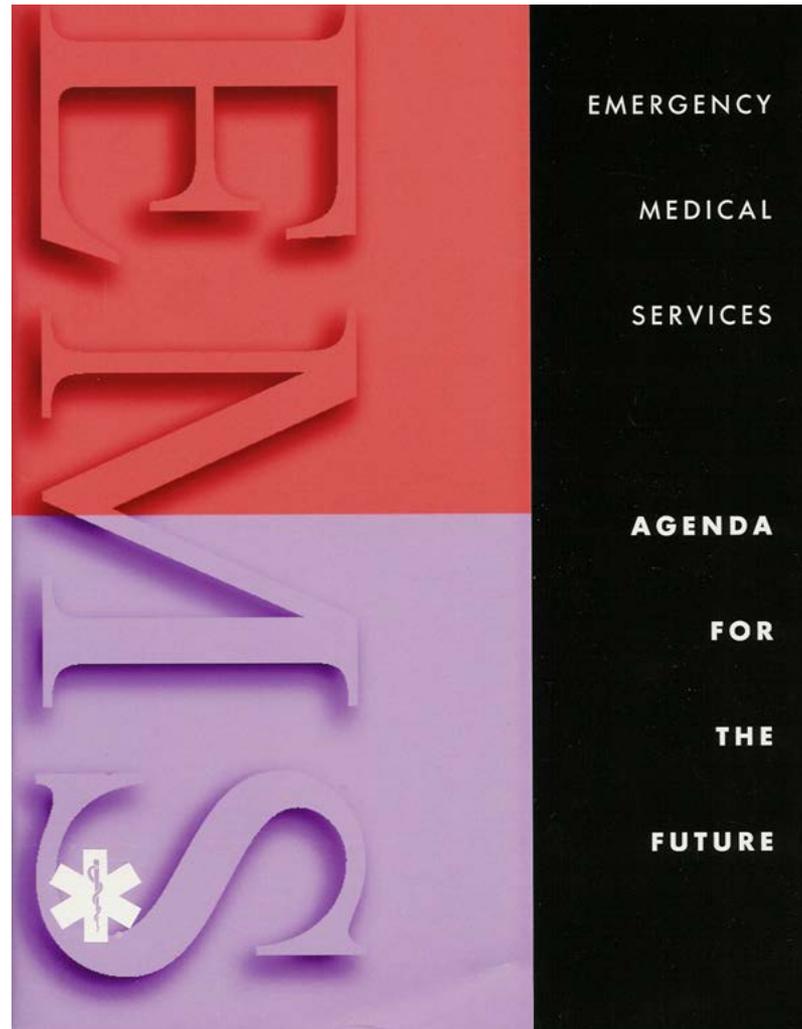
Commitment to Evolution and Learning



A Vision for How We Improve EMS Systems in the Future



Here's why the timing is so important



NHTSA Office of Emergency Medical Services



ems.gov

noah.smith@dot.gov

(202) 366-5030

