



**National Registry of  
Emergency Medical Technicians®**  
THE NATION'S EMS CERTIFICATION™

ISSN: 2371-9605

# GROWTH & CHANGE

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**2016 ANNUAL REPORT**

# OUR MISSION

To serve as the National EMS Certification organization by providing a valid, uniform process to assess the knowledge and skills required for competent practice by EMS professionals throughout their careers and by maintaining a registry of certification status.

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# 2016 BOARD OF DIRECTORS



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*The NREMT is governed by a Board of Directors comprised of some of the most prominent figures from all segments of the Emergency Medical Services community and the general public. Our board members are committed to promoting quality patient care and the protection of the public through National EMS Certification.*

# A LETTER FROM THE CHAIR OF THE BOARD

For the National Registry of Emergency Medical Technicians, 2016 was a year of growth and change. We have proudly served as the Nation's EMS Certification for 46 years, and we plan to continue serving for years to come. In 2016, our work responded not only to the current EMS landscape, but to the EMS landscape of the future.

For example, demands on the emergency medical services system will continue to expand, making the attestation of competence that National EMS Certification provides more important than ever for the protection of the public. The NREMT continually evaluates the criteria for earning this certification, and we strive to make improvements that better serve EMS providers and their patients.

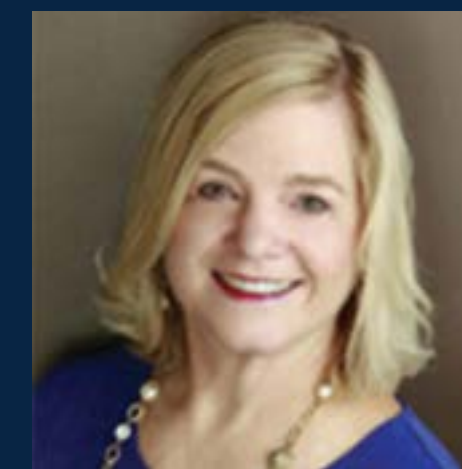
To that end, work on the Integrated Out-of-hospital Scenario continued in 2016. This transition to a scenario-based Paramedic psychomotor examination and

educational skills portfolio will see new Nationally Registered Paramedics entering the profession better prepared than ever before to work in the out-of-hospital setting.

However, we recognize that the ever-evolving nature of emergency medical services means that a provider's ability to provide safe and competent care throughout their career depends on continued learning and good science. The NREMT Research Department made important contributions to the scientific discourse on out-of-hospital care in America in 2016, and the NREMT proudly advocates for this and other peer-reviewed EMS research. This commitment to reflecting the current state of evidence-based EMS practice in our certification requirements inspires a continued push for the use of our updated model for recertification. The National Continued Competency Program (NCCP) was successfully adopted by more than 20 new states in 2016.

In these and all areas, our success in this record-setting year would not have been possible without the diligence of NREMT staff, the support of the Board of Directors and the contributions of our many EMS partners. Thank you all for your dedication to advancing the National EMS Certification process.

Collectively, we are shaping the future of emergency medical services. I am proud of our accomplishments in 2016, and I look forward to our accomplishments in the years to come.



*Debra Cason*

**DEBRA CASON**  
BOARD CHAIR

# A LETTER FROM THE EXECUTIVE DIRECTOR

Protecting the public is the commitment of the National Registry of Emergency Medical Technicians. As the Nation's EMS Certification organization, we are dedicated to upholding this commitment and ensuring that we maintain a strong presence as leaders and advocates for a competent, reliable, and accountable EMS community.

Since 1970, the NREMT has led and supported the ever-evolving profession by meeting the needs of the EMS community and its stakeholders. In 2016, we continued to pave the way for enhancing the profession by promoting growth and change.

Our commitment to protecting the public by ensuring the competence of EMS professionals is maintained with the updates to the National Continued Competency Program (NCCP) that reflect the latest evidence-based practice in EMS. The 2016 NCCP model was published in Q4 2016 as a resource to EMS providers, training officers, program directors and medical directors. The NCCP model was developed to equip states, agencies and providers with

flexibility in continuing education that suits their needs. With more than 32 states utilizing the NCCP recertification model by the end of 2016, this has proven to be a beneficial resource to the EMS community.

Additionally, we developed an enhanced ALS psychomotor examination. The new scenario-based examination is complemented by an educational portfolio. These portfolios document ALS candidates' mastery of core EMS skills. A completed portfolio is a prerequisite for seeking National EMS Certification at the Paramedic level.

And in 2016 we enhanced the NREMT website experience by modernizing it to be user friendly and straightforward. The website is now a valuable resource for today's EMS professionals and those interested in becoming one. Alongside these enhancements, the initial certification and recertification processes have been streamlined, allowing more providers to gain and maintain their credentials in a timely manner, effectively keeping the public safe.

For a third consecutive year, growth continued as more EMS professionals than ever before recognized the value of maintaining their National EMS Certification. More than 98,000 providers renewed their EMS Certification during the 2016 recertification cycle, making it the strongest year in the organization's history.

In 2016 the NREMT continued its mission to protect the public as the Nation's EMS Certification body. Our commitment will not waiver as we continue to evolve with the EMS profession year after year.

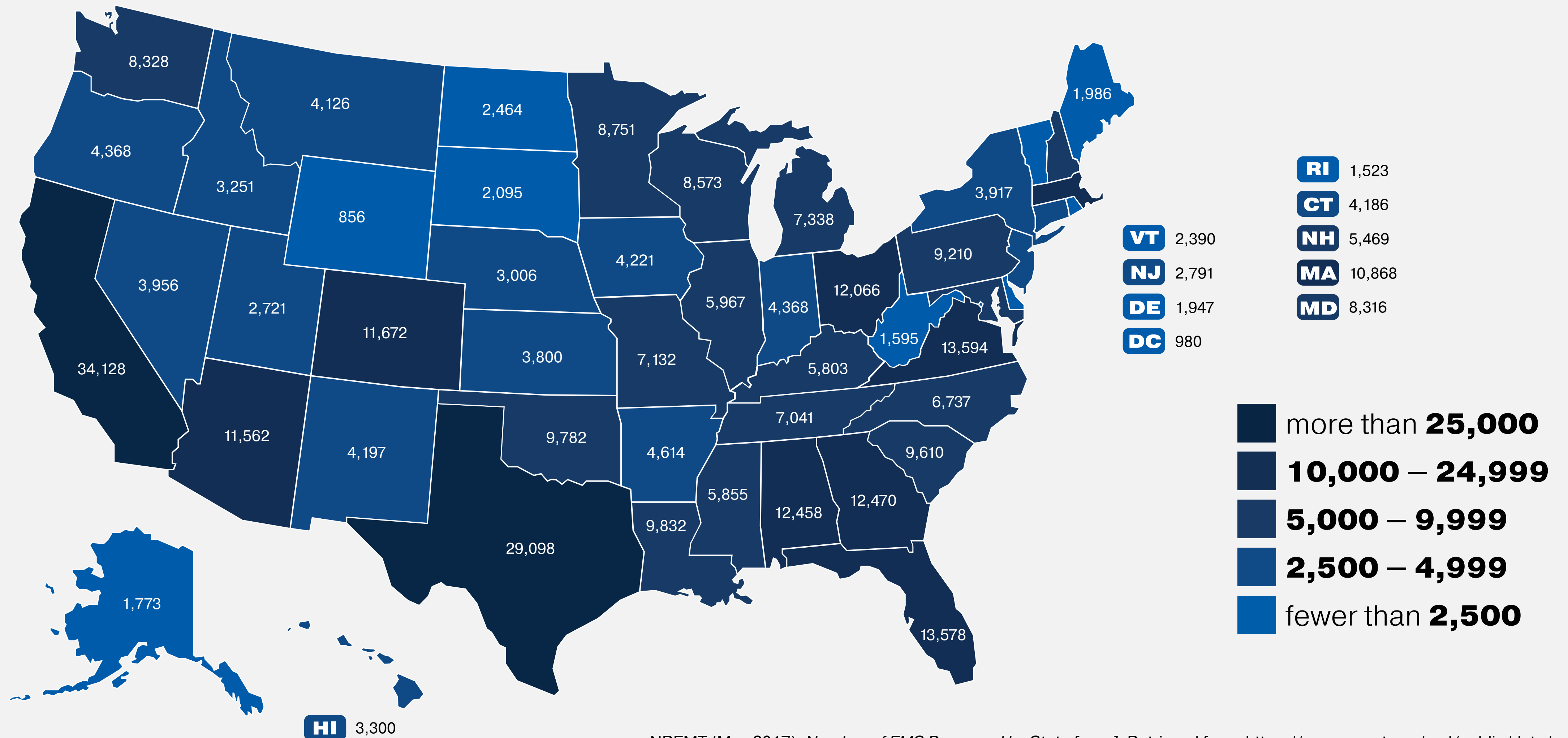


*Severo A. Rodriguez*

**DR. SEVERO RODRIGUEZ**  
EXECUTIVE DIRECTOR

# CERTIFICATION

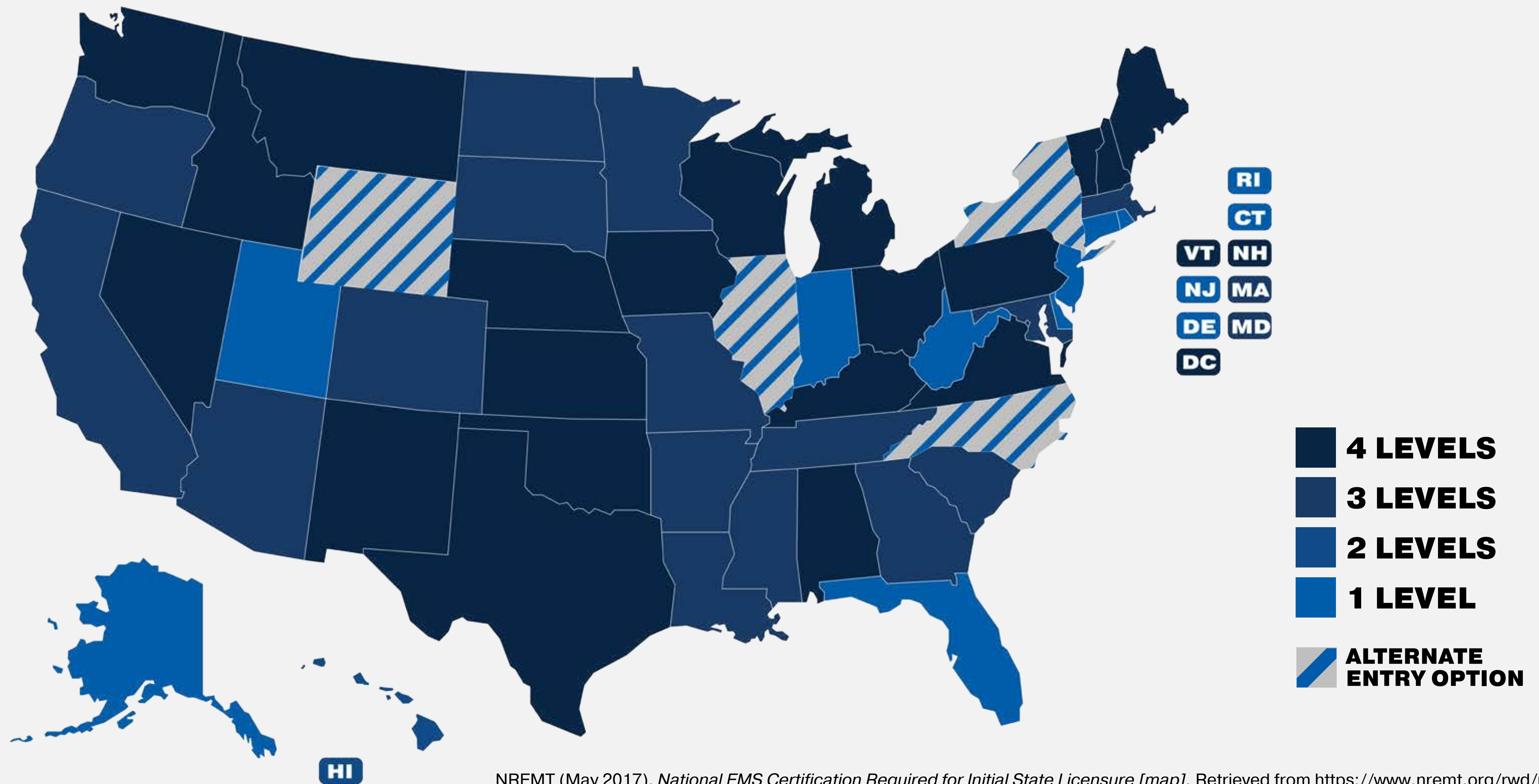
## NATIONALLY CERTIFIED EMS POPULATION



NREMT (May 2017). Number of EMS Personnel by State [map]. Retrieved from <https://www.nremt.org/rwd/public/data/maps>

# CERTIFICATION

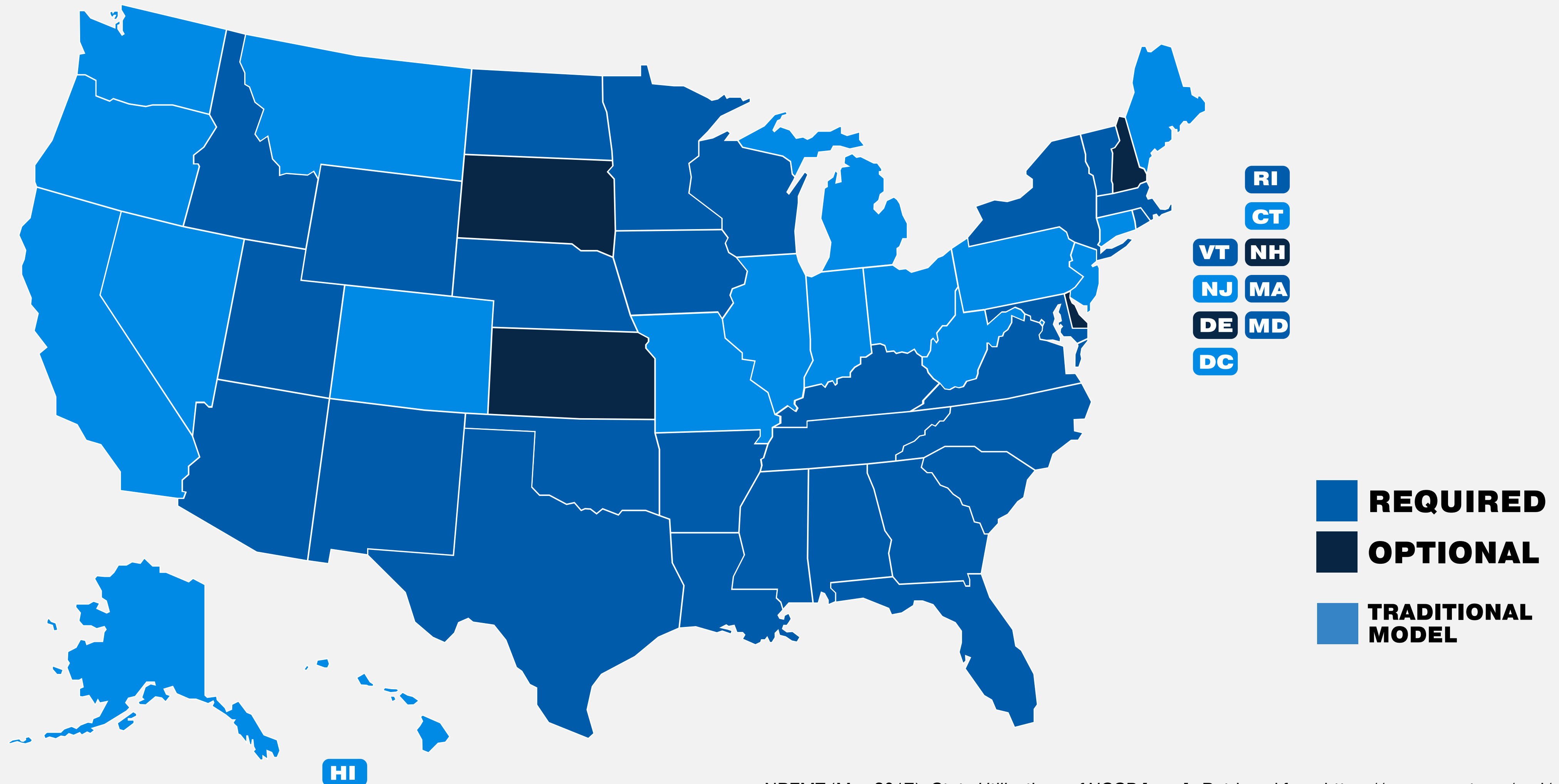
## REQUIRED USE OF NATIONAL EMS CERTIFICATION



NREMT (May 2017). *National EMS Certification Required for Initial State Licensure [map]*. Retrieved from <https://www.nremt.org/rwd/public/data/maps>

# RECERTIFICATION

## USE OF NCCP RECERTIFICATION MODEL



NREMT (May 2017). *State Utilizations of NCCP [map]*. Retrieved from <https://www.nremt.org/rwd/public/data/maps>



# EXAMINATIONS

## REFINED PROCESSES BRING INCREASED SECURITY

In response to the ever-increasing volume of NREMT cognitive and psychomotor examinations administered each year, NREMT staff made important refinements to administrative procedures in 2016 to make the examinations process more secure and more efficient for candidates, program directors, examination coordinators and NREMT ALS representatives.

For example, the implementation of the Psychomotor Authorization to Test (PATT) significantly improved the security of candidates' personal information and of examination materials by streamlining the exam registration process. The new PATT procedure, similar to the Authorization to Test (ATT) process that has been in place for cognitive examinations since 2007, removes candidates' Social Security numbers from the registration process. Switching to the PATT procedure saw a seven day reduction in examination roster submission times and reduced or eliminated other delays in reporting examination results to candidates. Additionally, NREMT staff began auditing all ALS psychomotor examination results in Q4 2016 to ensure that results were reported both quickly and accurately.

NREMT staff enhanced the training process for NREMT ALS representatives. The revised training improves the security, the reliability and the validity of examination results.

And preparation for the launch of the scenario-based Paramedic psychomotor examination continued in 2016.

The new examination reduces the number of skills tested in isolation and instead examines a candidate's performance in a simulated patient encounter. This simulated encounter, referred to as the Integrated Out-of-hospital Scenario, will be administered in all Paramedic psychomotor examinations beginning in 2017.

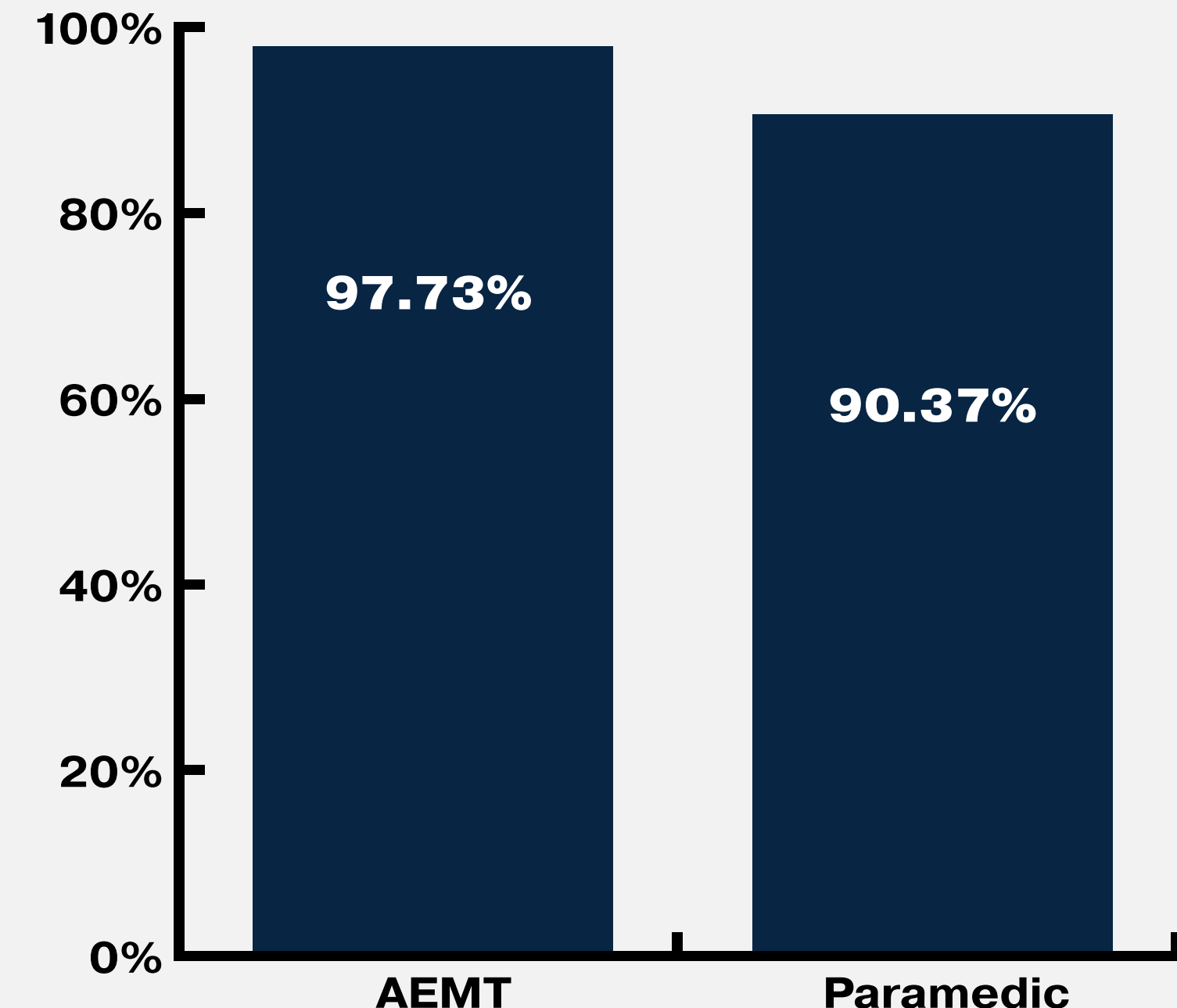
Candidates who began their Paramedic education programs on or after August 1, 2016, are required to complete a portfolio of vital skills as a prerequisite to seeking National EMS Certification. Completed portfolios serve as documentation of a candidate's mastery of required skills and are a prerequisite for seeking National EMS Certification at the Paramedic level. The scenario-based psychomotor examination and the skills portfolio offer a streamlined certification process that better prepares candidates for work as EMS providers.

To aid our educational partners in transitioning to the new scenario-based examination, the NREMT worked with the National Association of EMS Educators (NAEMSE) to coordinate 22 Regional Scenario Development Workshops throughout 2016, reaching more than 800 EMS educators across America. To build on the success of these events, additional workshops have been planned with NAEMSE across the nation for 2017.

The continued growth of the NREMT depends on reliable examinations, and our work in 2016 helps to safeguard the validity and security of NREMT psychomotor and cognitive examinations at all levels now and in the future.

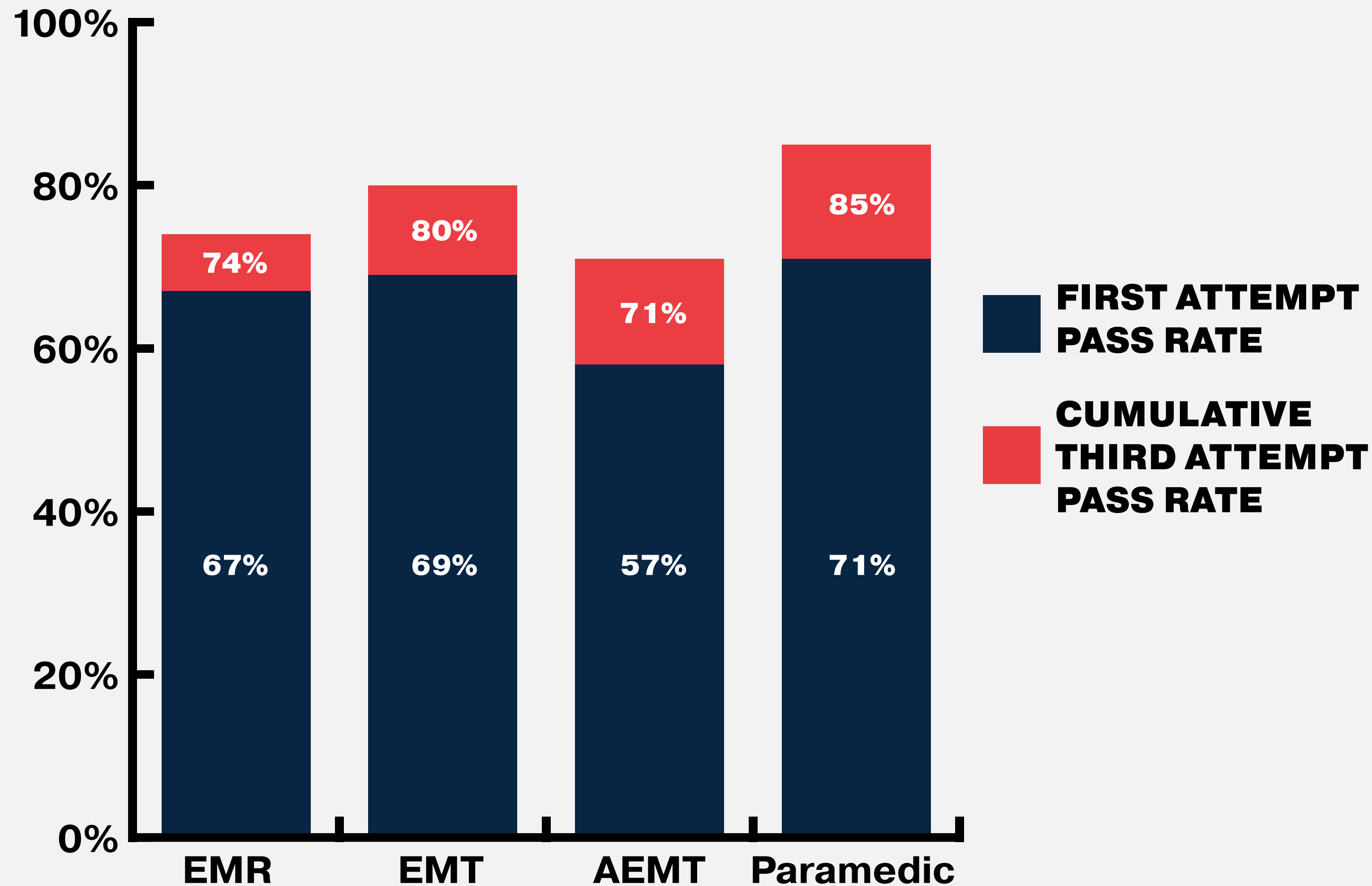
### PSYCHOMOTOR PASS RATES

The graph below shows the cumulative third-attempt pass rates for each current NREMT advanced level psychomotor examination. While the scenario-based examination launching in 2017 will be a better indicator of a Paramedic candidate's readiness to practice in the out-of-hospital setting, the NREMT does not expect the new examination to have a significantly different cumulative pass rate.



# EXAMINATIONS

## COGNITIVE EXAMINATION PASS RATES



**151,802**  
2016 TOTAL COGNITIVE  
EXAMS ADMINISTERED

DATA AS OF DECEMBER 31, 2016

# INFORMATION SYSTEMS

## THE NEW NREMT.ORG

In this increasingly connected world, we recognize an effective and user-friendly web presence as a critical investment.

So, throughout 2016, we prioritized the redevelopment of NREMT.org, our hub for all things National EMS Certification. Our goal was simple but expansive: to build a streamlined, more accessible website to serve as an invaluable resource for the EMS community. And in September, we realized that goal with the launch of the new NREMT.org.

The new, modernized design is responsive and dynamic. Whether from a phone, tablet or computer, all visitors to NREMT.org will now have a standardized experience. Importantly, this new

experience boasts a reorganized navigation system that makes finding the content EMS providers need incredibly straightforward.

And to ensure that the new navigation system remains useful, we implemented a process to review how website visitors use the website. Regular analysis of website traffic data will allow us to continually refine the system, making important information about National EMS Certification more and more accessible over time.

As the needs of the EMS profession evolve, the new NREMT.org will evolve in tandem to meet those needs. However, the evolution isn't limited to the navigation system. For example, one of the rising concerns

in 2016 for internet users was the privacy and security of their data. Thus, as we redesigned our web presence, we took the opportunity to simultaneously enhance the security and privacy of our systems. The NREMT follows National Institute of Standards and Technology (NIST) standards to protect your information.

With these changes, the new NREMT website is far more than a simple refresh of a stale design. The new NREMT.org is an investment in the future of the EMS community.

### A POPULAR RESOURCE

Q4 2016 web traffic totals for NREMT.org

**547,967**

unique visitors

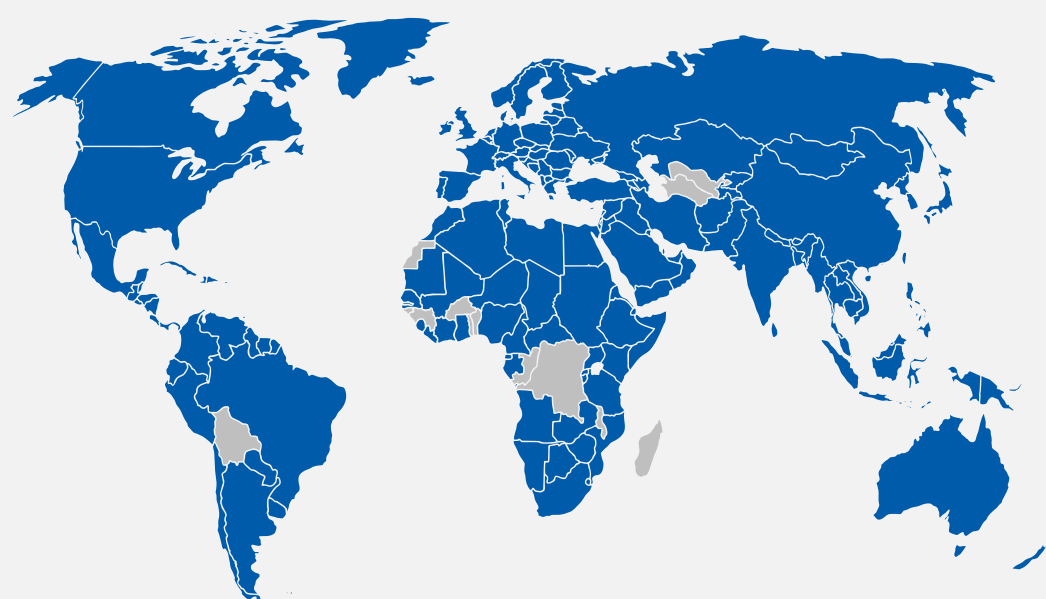
**9,068,748**

pageviews

More than one-third of Q4 visitors were visiting NREMT.org for the first time

### A GLOBAL REACH

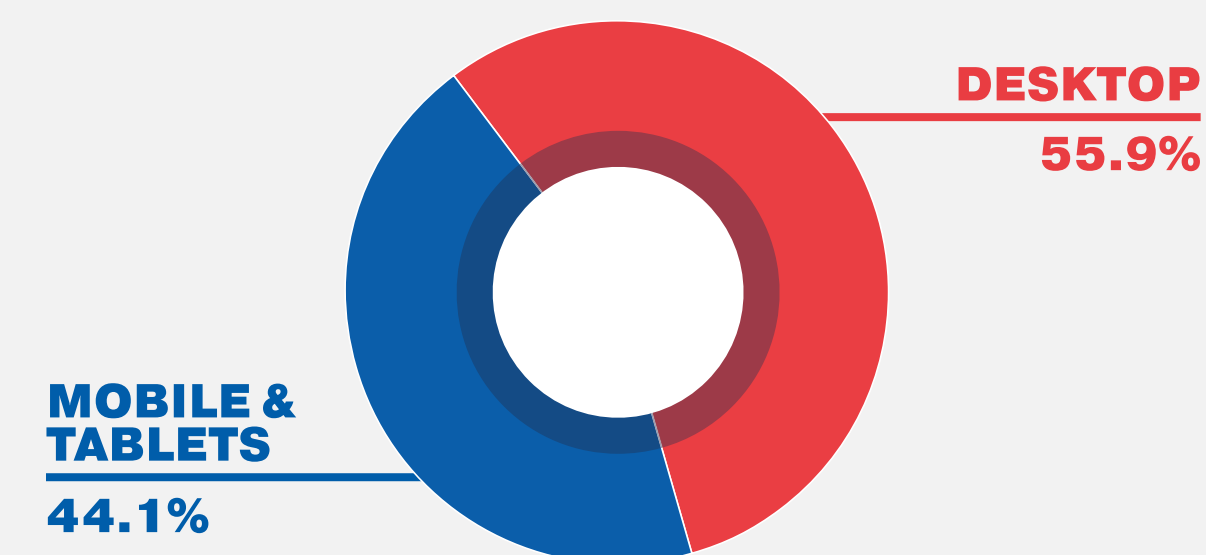
Q4 2016 web traffic for NREMT.org by country (blue indicates at least one visit)



The new NREMT.org is accessed from more than 100 countries around the world

### A MOBILE-FRIENDLY EXPERIENCE

Q4 2016 web traffic for NREMT.org by device type



Nearly half of the traffic to the new NREMT.org is from a tablet or mobile device

# RESEARCH

## 2016 HIGHLIGHTS

### Manuscripts

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Chang CD, Crowe RP, Bentley MA, Janezic AR, Leonard JC (2016). EMS Providers' Beliefs Regarding Spinal Precautions for Pediatric Trauma Transport. *Prehospital Emergency Care*; 1-10.

Gormley, MA, Crowe RP, Bentley MA, Levine R (2016). A National Description of Violence toward Emergency Medical Services Personnel. *Prehospital Emergency Care*; 20(4), 439-447.

Special Supplement in *Prehospital and Disaster Medicine*:

Crowe RP, Bentley MA, Levine R (2016). The Longitudinal Emergency Medical Technician (EMT) and Demographics Study (LEADS): The First 10 Years and a Look at Public Perception of Emergency Medical Services (EMS). *Prehospital and Disaster Medicine*; 31(S1), s1-s6.

Levine R (2016). The Longitudinal Emergency Medical Technician (EMT) and Demographics Study (LEADS) Design and Methodology. *Prehospital and Disaster Medicine*; 31(S1), s7-s17.

Bentley MA, Shoben A, Levine R (2016). The Demographics and Education of Emergency Medical Services (EMS) Professionals: A National Longitudinal Investigation. *Prehospital and Disaster Medicine*; 31(S1), s18-s29.

Crowe RP, Levine R, Eggerichs JJ, Bentley MA (2016). A Longitudinal Description of Emergency Medical Services Professionals by Race/Ethnicity. *Prehospital and Disaster Medicine*; 31(S1), s30-s69.

Chapman SA, Crowe RP, Bentley MA (2016). Recruitment and Retention of New Emergency Medical Technician (EMT)-Basics and Paramedics. *Prehospital and Disaster Medicine*; 31(S1), s70-s86.

Studnek JR (2016). Compensation of Emergency Medical Technician (EMT)-Basics and Paramedics. *Prehospital and Disaster Medicine*; 31(S1), s87-s95.

Bentley MA, Levine R (2016). A National Assessment of the Health and Safety of Emergency Medical Services Professionals. *Prehospital and Disaster Medicine*; 31(S1), s96-s104.

Blau G, Chapman SA (2016). Why do Emergency Medical Services (EMS) Professionals Leave EMS? *Prehospital and Disaster Medicine*; 31(S1), s105-s111.

Crowe RP, Rodriguez S, Levine R, Pirrallo R (2016). Public Perception of Prehospital Emergency Medical Services in the United States. *Prehospital and Disaster Medicine*; 31(S1), s112-s117.

### Abstracts and Presentations

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Chang CD, Crowe RP, Janezic AR, Bentley MA, Leonard JC (2016). Provider's Beliefs Regarding Spinal Precautions for Pediatric Trauma Transport. Oral presentation at the annual meeting of the Society of Academic Emergency Medicine.

Bentley MA, Crowe RP, Levine R (2016). A Longitudinal Assessment of Stress among EMS Professionals. Lightning oral presentation at the annual meeting of the National Association of Emergency Medical Services Physicians.

Crowe RP, Bentley MA, Sirajuddin S, Smith R, Dangerfield P, Shapiro G, Wanka C, Sarani B (2016). A National Description of Ketamine Use in the Prehospital Setting. Poster presentation at the annual meeting of the National Association of Emergency Medical Services Physicians.

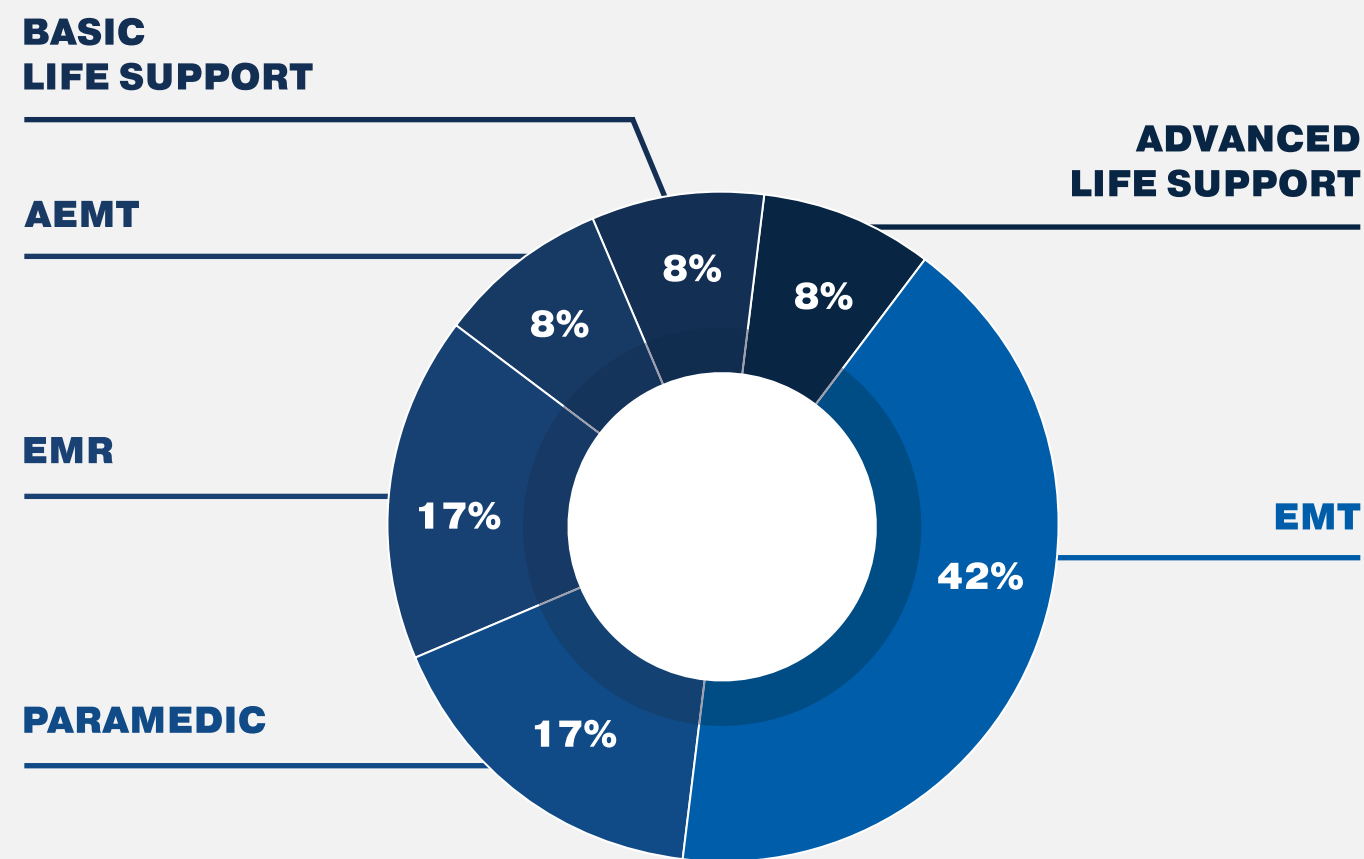
Bentley MA, Crowe RP, Levine R (2016). Leaving EMS: A Longitudinal Assessment. Poster presentation at the annual meeting of the National Association of Emergency Medical Services Physicians.

# COMMUNICATIONS

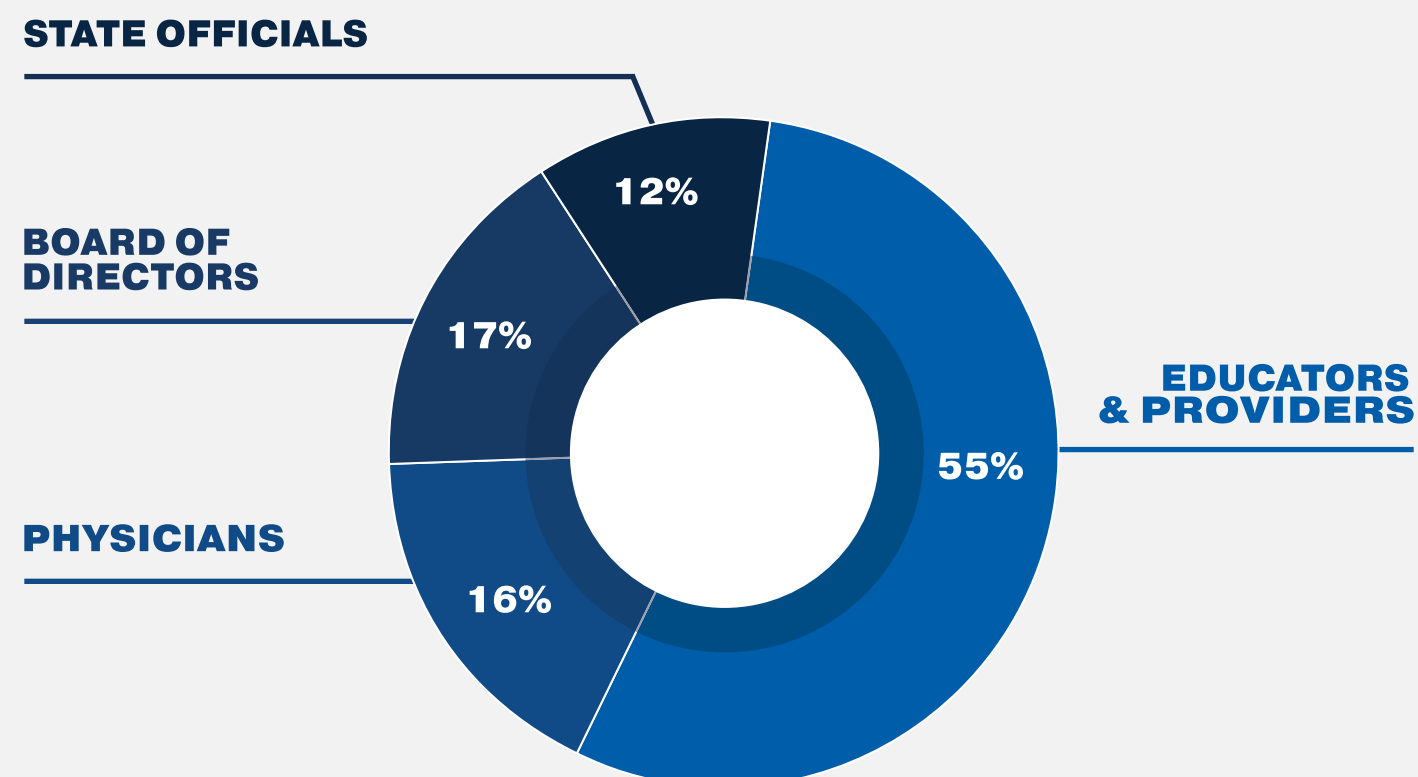
## CONFERENCES AND MEETINGS

### ITEM WRITING

ITEM WRITING MEETINGS BY TOPIC

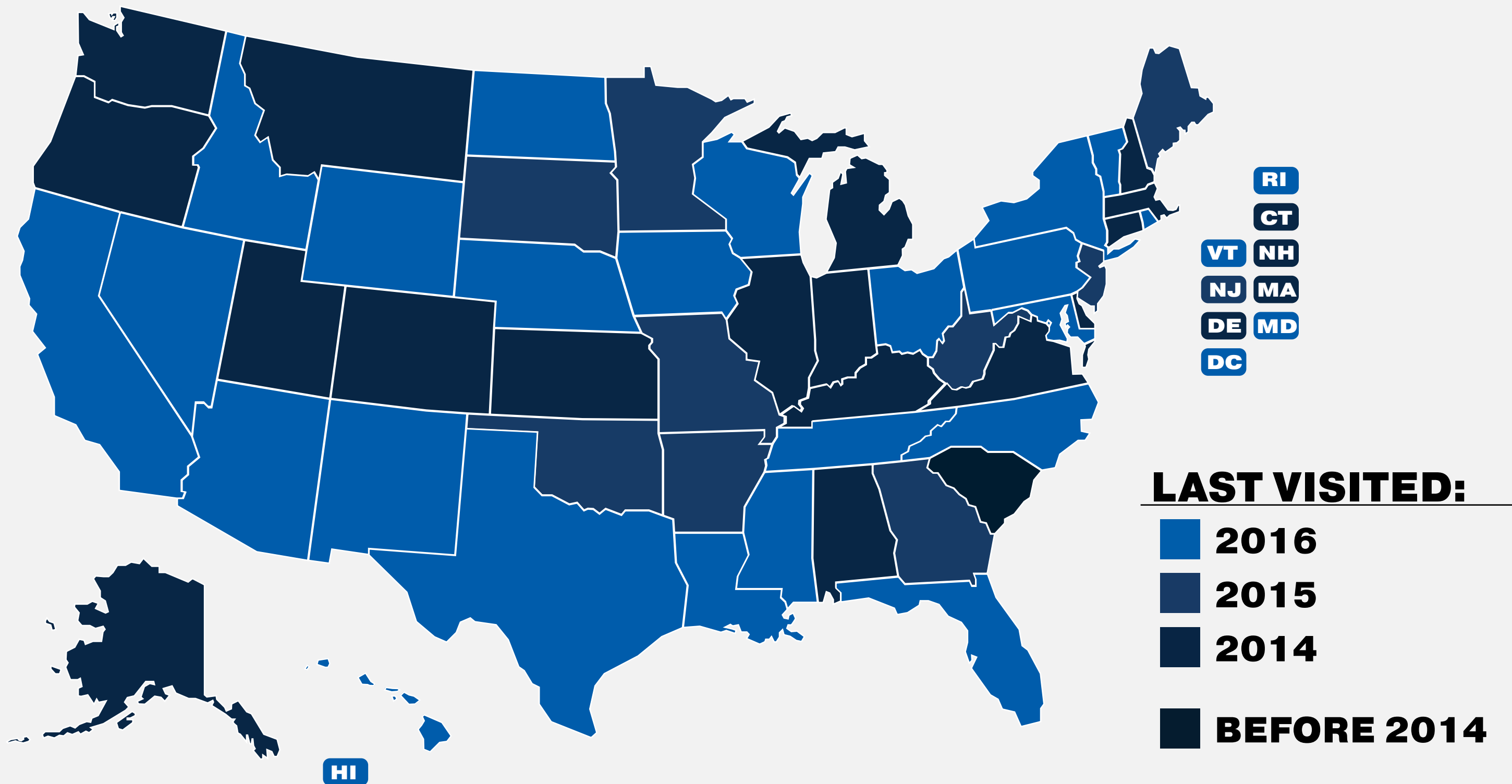


ITEM WRITING ATTENDANCE BY ROLE



### CONFERENCES

As the Nation's EMS Certification, the NREMT recognizes the value of interacting face to face with our stakeholders across the country. In 2016, NREMT staff attended more than 30 conferences nationwide to meet, teach, support and learn from the national EMS community.



DATA AS OF DECEMBER 31, 2016

# FINANCE

## OPERATING EXPENSES

### REVENUE

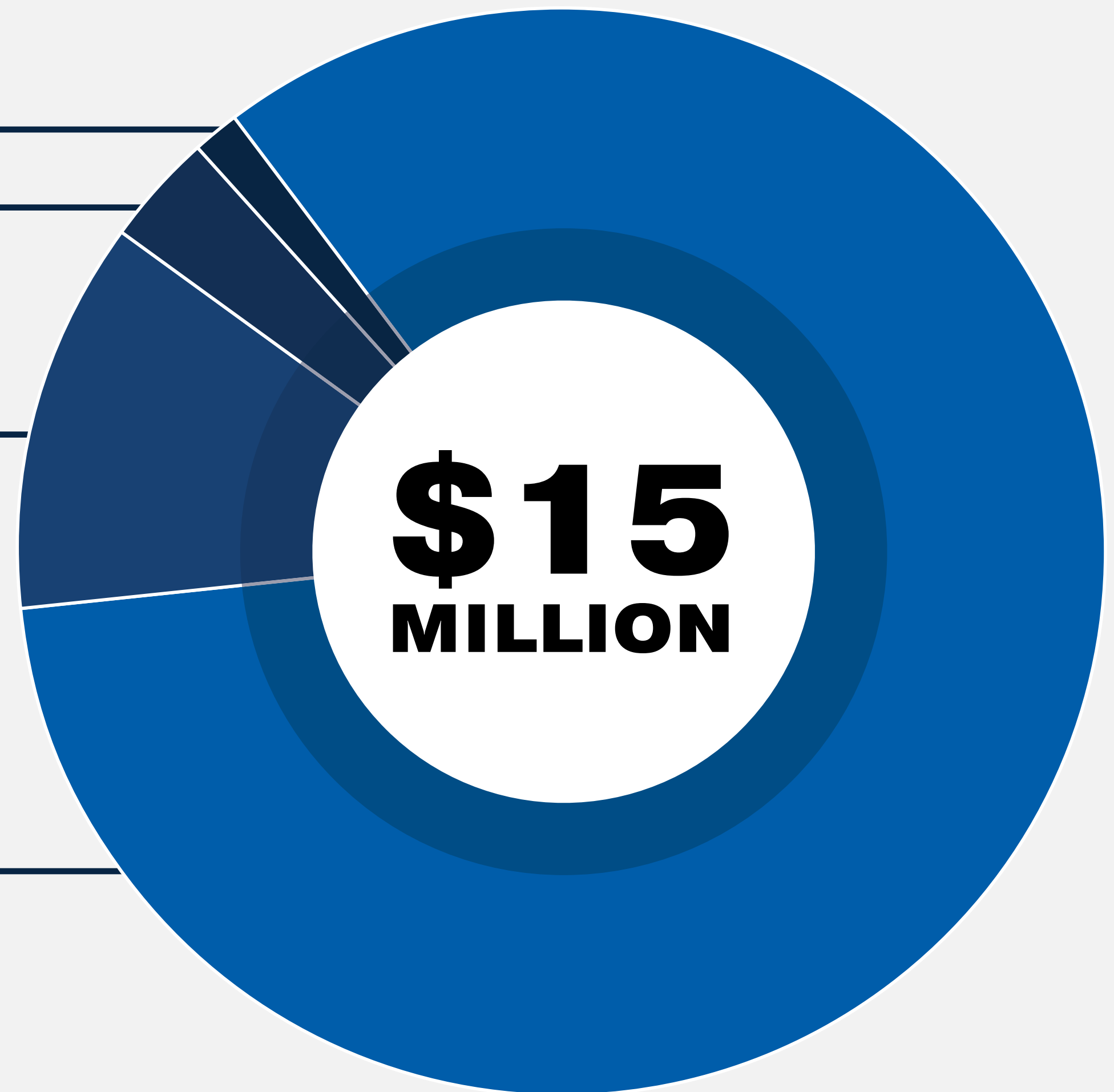
CERTIFICATION	\$ 12,565,225
RECERTIFICATION	\$ 1,742,055
OTHER	\$ 497,855
SALES	\$ 203,006
<hr/>	
<b>TOTAL REVENUE</b>	<b>\$ 15,008,141</b>

**SALES**

**OTHER**

**RECERTIFICATION**

**CERTIFICATION**



DATA AS OF DECEMBER 31, 2016

# FINANCE

## OPERATING EXPENSES

### EXPENSES

<b>COMPETENCY</b> <small>includes Certification and Recertification</small>	\$ 11,941,316
<b>GENERAL &amp; ADMINISTRATIVE</b>	\$ 913,465
<b>INFORMATION</b>	\$ 895,572
<b>COMMUNITY RELATIONS</b>	\$ 874,071
<b>RESEARCH &amp; DEVELOPMENT</b>	\$ 416,271
<b>SALES</b>	\$ 84,191
<b>TOTAL EXPENSES</b>	<b>\$ 15,124,886</b>

#### SALES

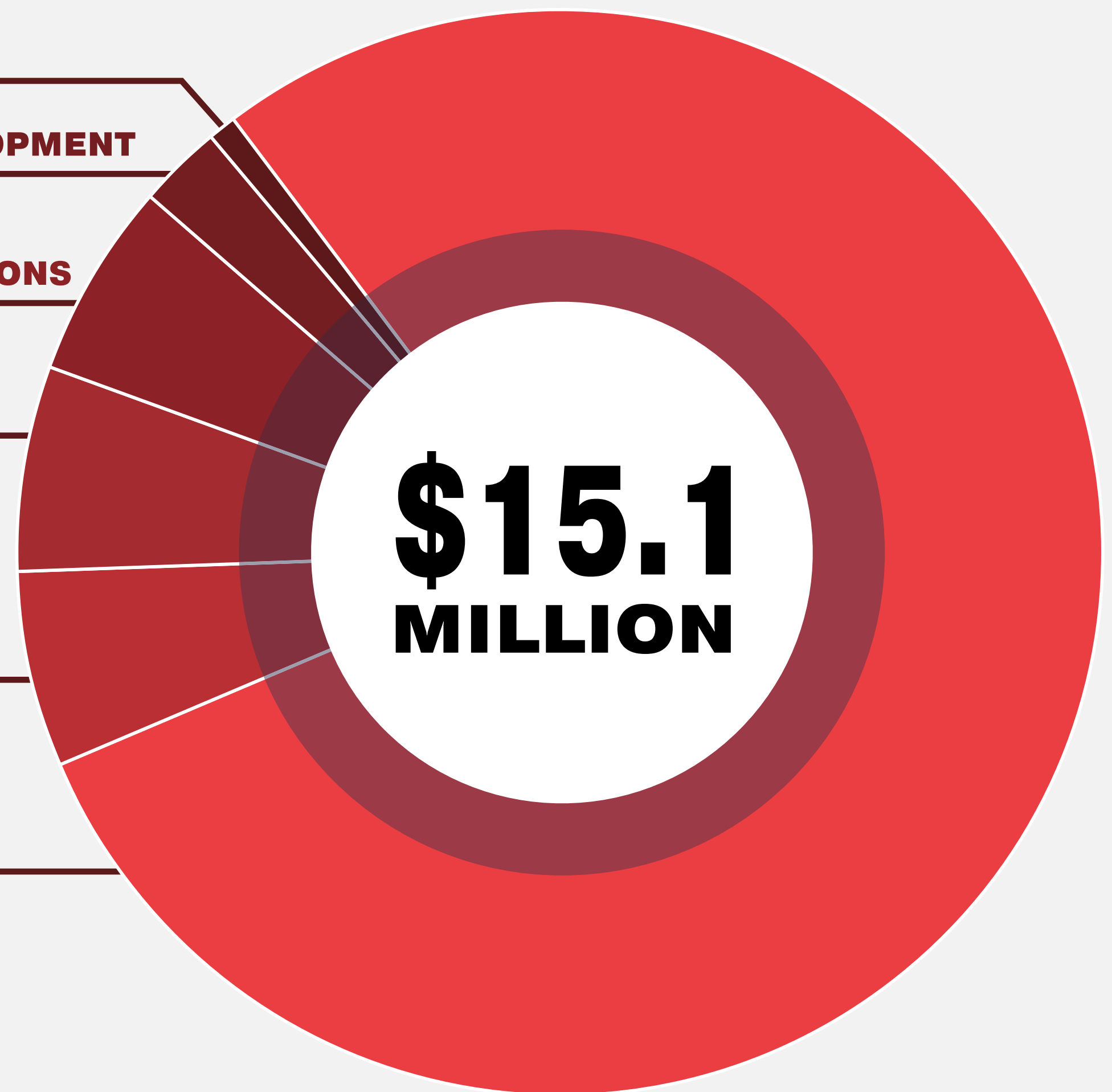
#### RESEARCH & DEVELOPMENT

#### COMMUNITY RELATIONS

#### INFORMATION

#### GENERAL & ADMINISTRATIVE

#### COMPETENCY



DATA AS OF DECEMBER 31, 2016



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## OUR EDITORS

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**AMANDA BROUSSARD** Senior Editor

**LINDSEY DURHAM** Senior Editor

**JAKE HOLLAR** Editor

**Questions?** Please contact the NREMT at [CommDept@NREMT.org](mailto:CommDept@NREMT.org).