



**IPSDI**  
International Public Safety Data Institute



**A. Michael Mullane**  
**Health & Safety Conference**  
2019



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International Public Safety Data Institute

# Introducing the International Public Safety Data Institute

2019

# Mission

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Enhancing public safety through *data science*.

- The International Public Safety Data Institute (IPSDI) will be the leading **research, development, and training organization** focused on using **data science** to provide analytical tools and information to the public safety sector.

# Vision

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Leverage technology to provide  
**life-saving** insights.

We enable public safety agencies to gather, organize,  
and translate data **into actionable insights.**

# Partners

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# Tell a Complete Story

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- Fire chiefs and other department leaders must learn to **leverage data available** in their emergency response system
- Data show the **adequacy or the need** for prevention, public education, and emergency response services

# Tell a Complete Story

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- **Anticipate** the questions to be asked by decision-makers, the press and the public
- **Answer** those questions
- **Educate** them on the fire department's **capability, activity, performance and resilience**

The logo consists of the text "tell your story." in a bold, lowercase, sans-serif font. The word "tell" is in black, "your" is in a brownish-orange color, and "story." is in black. The text is enclosed in a thin black rectangular border that is slightly tilted.

# Welcome to...

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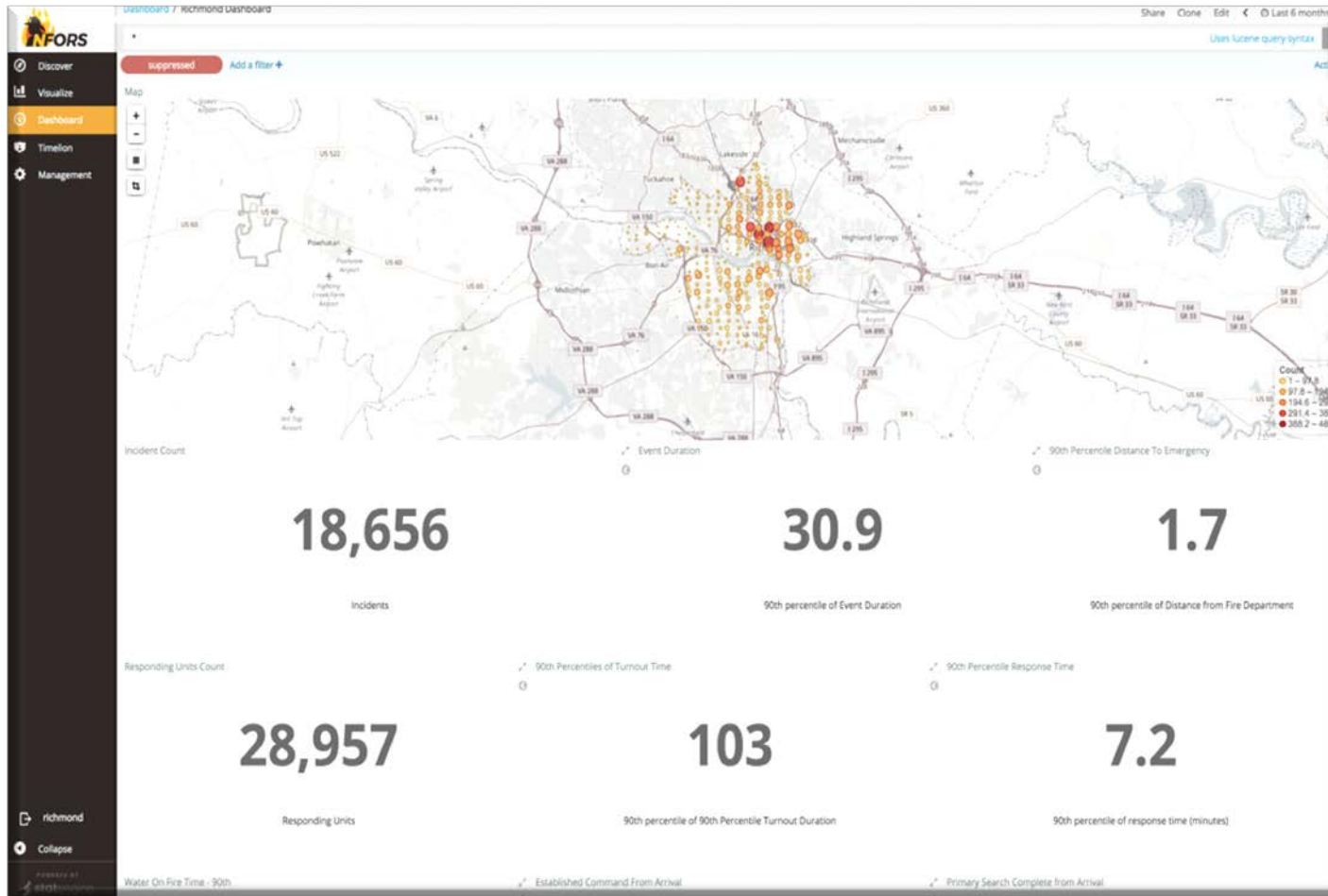
Funded by the DHS/FEMA/AFG...

the National Fire Operations Reporting System is **the fire service analytical system.**

**NFORS** is the most comprehensive way to get accurate and real-time information to help fire service leaders **assure adequate fire resources; optimize fire operations; reduce firefighter injury and death; minimize civilian injury and death; and minimize property loss.**



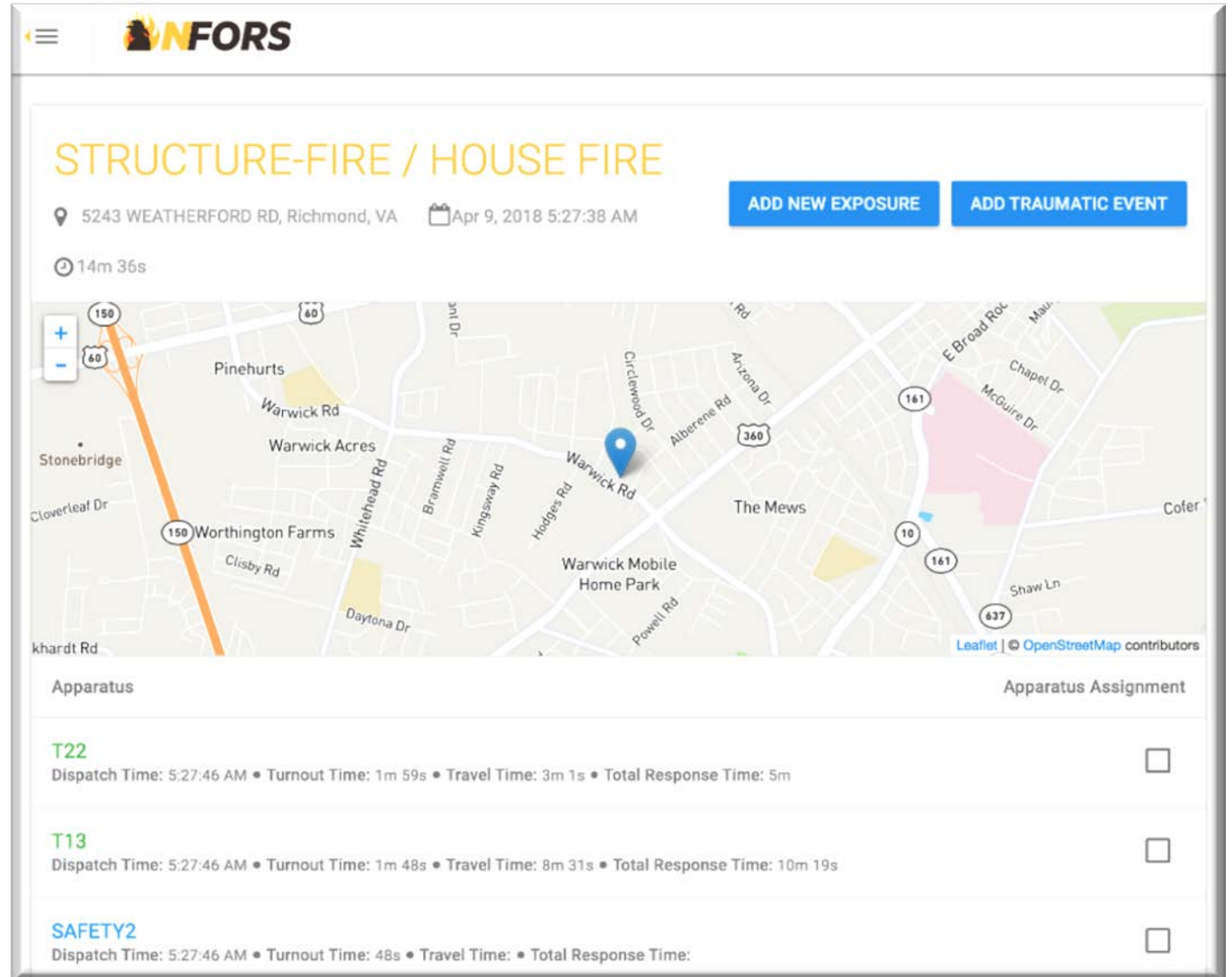
# NFORS Analytics Dashboard (CAD)



- **Web-based** analytical system and data dictionary with a focus on operations.
- **Real time** analytics provide instant operational insights to decision makers.
- **Linked** and **searchable** allow users to gain valuable insights quickly.

# NFORS Exposure Tracking

- Cancer and behavioral health issues are two leading causes of death within the fire service.
- While some states have presumptive laws there is still a burden of proof on the firefighter

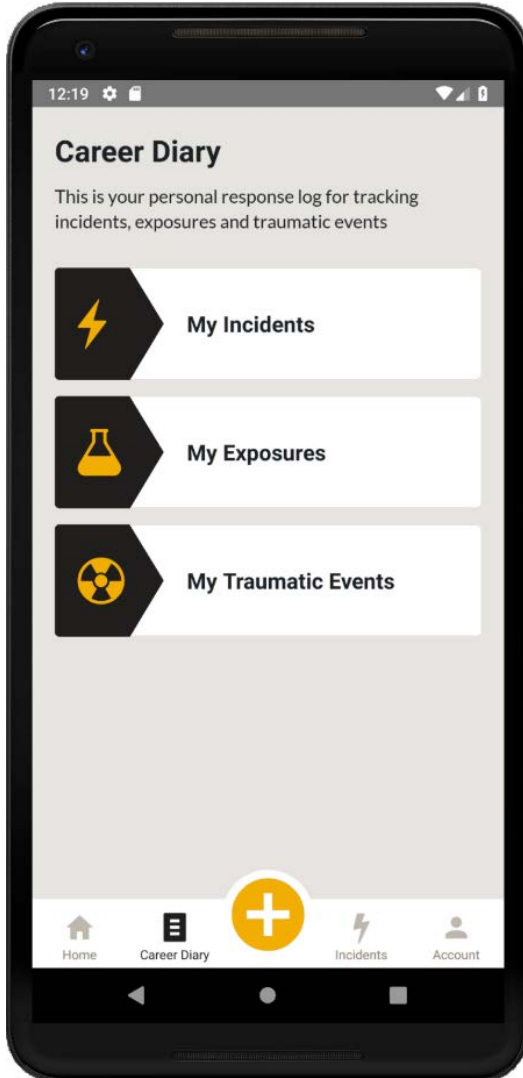


The screenshot displays the NFORS (National Fire Officer Response System) interface. At the top, the NFORS logo is visible. The main heading is "STRUCTURE-FIRE / HOUSE FIRE". Below this, the location is identified as "5243 WEATHERFORD RD, Richmond, VA" with a timestamp of "Apr 9, 2018 5:27:38 AM". Two buttons are present: "ADD NEW EXPOSURE" and "ADD TRAUMATIC EVENT". A duration of "14m 36s" is shown. The map shows the incident location with a blue pin and an orange line indicating the response path. Below the map, a table lists the apparatus and their response times.

Apparatus	Apparatus Assignment
T22 Dispatch Time: 5:27:46 AM • Turnout Time: 1m 59s • Travel Time: 3m 1s • Total Response Time: 5m	<input type="checkbox"/>
T13 Dispatch Time: 5:27:46 AM • Turnout Time: 1m 48s • Travel Time: 8m 31s • Total Response Time: 10m 19s	<input type="checkbox"/>
SAFETY2 Dispatch Time: 5:27:46 AM • Turnout Time: 48s • Travel Time: • Total Response Time:	<input type="checkbox"/>

# WHY TRACK EXPOSURES?

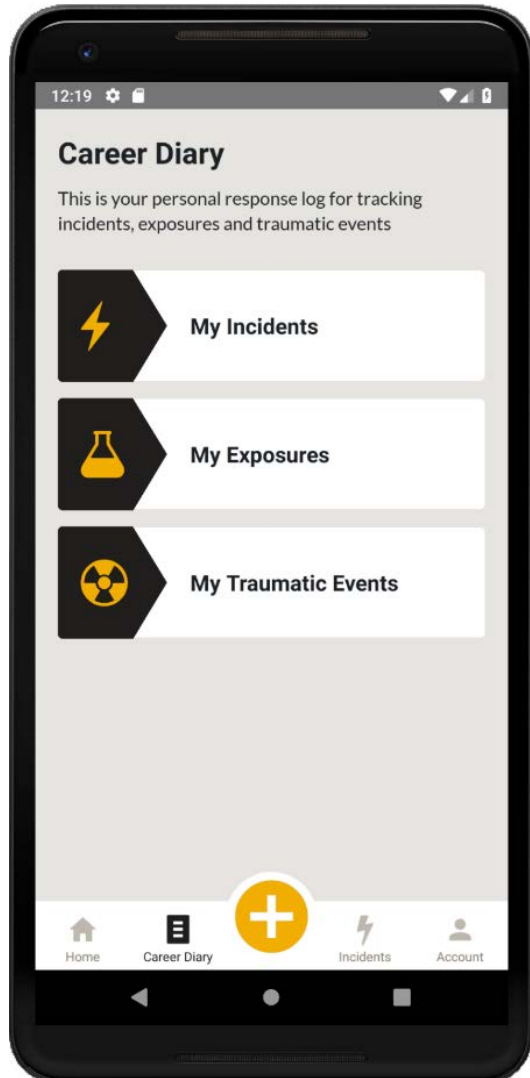
## Firefighter Cancer and Behavioral Health



- Firefighters' **skin is often contaminated** with soot and toxins
- **Dermal absorption and inhalation** are routes of **exposure** of carcinogens
- **Carcinogens remain on PPE** if not cleaned

## WHY TRACK EXPOSURES?

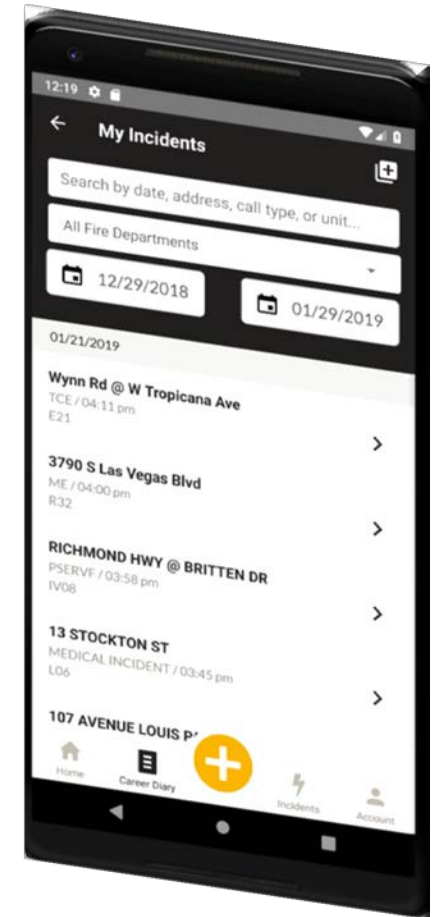
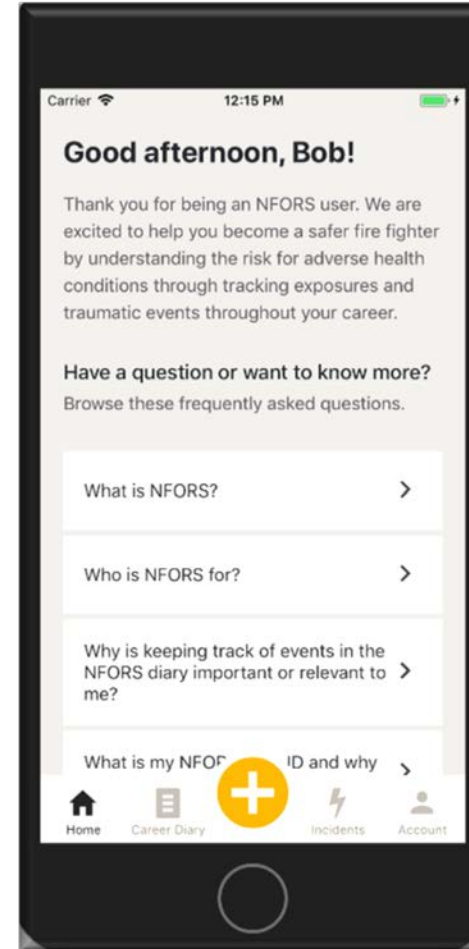
### Firefighter Cancer and Behavioral Health



- **1 in 5** firefighters and paramedics will suffer from **post-traumatic stress disorder** in their career
- Firefighters with PTSD are **6 times** more likely to attempt suicide

# NFORS Exposure Tracking Goes Mobile

- Available in App Stores
- Usable regardless of whether your department is on NFORS
- Ease of data entry when department is connected





National Fire Operations Reporting System

# Fire Fighter Exposure Tracking App

[www.i-psdi.org](http://www.i-psdi.org)



### Learn More

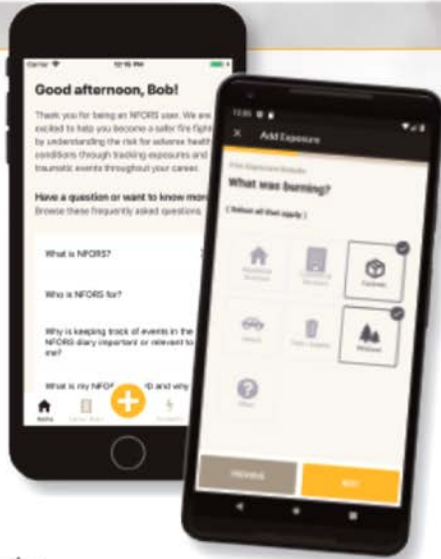
[i-psdi.org/nfors.html](http://i-psdi.org/nfors.html)

### Visit

[www.i-psdi.org](http://www.i-psdi.org) to discover additional insights about NFORS and other fire fighter specific projects.

### Project Partners

NFORS was created by fire service research partners, including the International Association of Fire Chiefs, the Metropolitan Fire Chiefs Association, the International Association of Fire Fighters, Underwriters Laboratory (UL), the National Institute of Standards and Technology, the Urban Institute, the University of Texas at Austin, and the Center for Public Safety Excellence.



IOS



ANDROID



Funded by grants from



National Fire Operations Reporting System

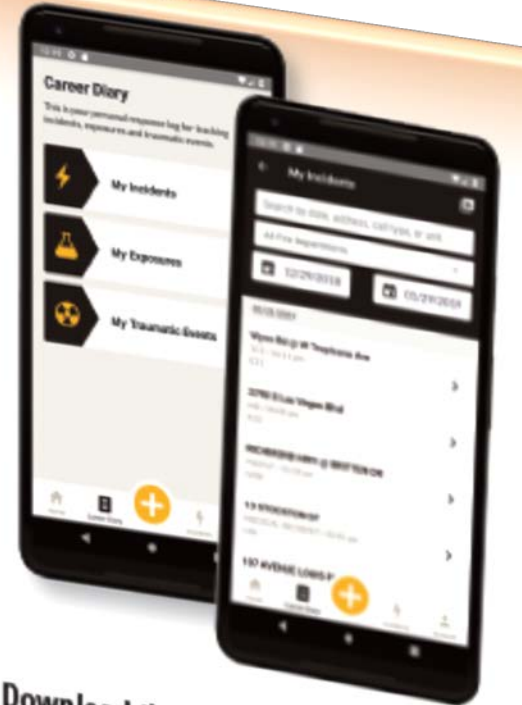
[www.nfors.org](http://www.nfors.org)



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### Download the Mobile App

Visit the Apple App store or Google Play and search "NFORS". Download the app to your personal phone and complete your profile. It's that simple! Then use the app to document exposures after each response or training exercise. Encourage your fire department to get on board with NFORS CAD. Get a demo at [i-psdi.org/nfors.html](http://i-psdi.org/nfors.html).



# IPSDI

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## QUESTIONS

Go to [www.i-psdi.org](http://www.i-psdi.org)