



# DISCLAIMER

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\*Please note, unless mentioned in reference to a NIST Publication, all information and data presented is preliminary/in-progress and subject to change





# <image>

Designing apps that further the mission of Emergency Responders

# **Plenary Session & Panel**



Moderator NIST PSCR Bill Schrier Senior Advisor First Responder Network Authority Taunya Harris Acting Deputy CIO Deputy Director, IT Public Safety City of Houston Jonathan H. Lewin Chief, Bureau of Technical Services Chicago Police Department

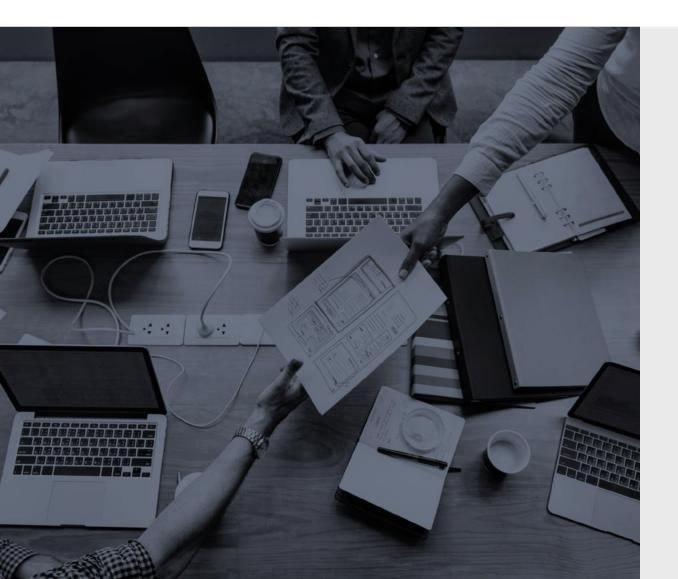




# Part 1: Intro & Overview

- What, who, why, when, where, how?
- Inside view of the design process
- Co-sponsors & collaboration
- Snapshots of each contest
- Run Time: 20 minutes

# What is the Tech to Protect Challenge?



### **Open Innovation Program**

Focusing on creating early stage and prototype software solutions for emergency responders

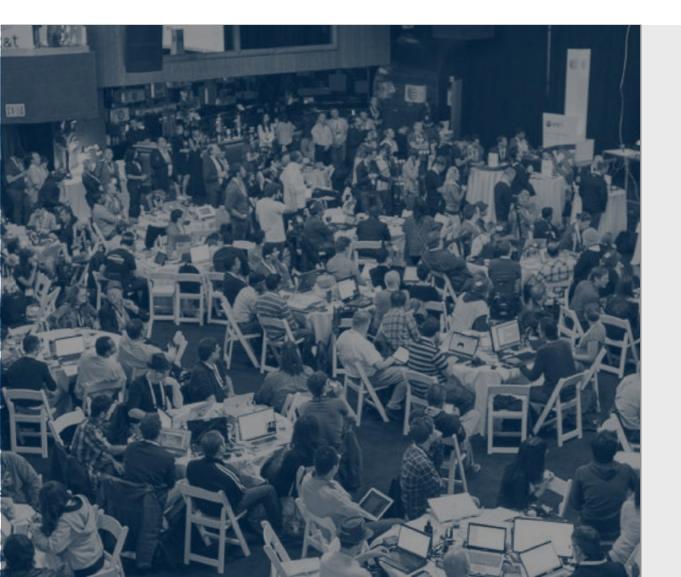
## **Collaborative Effort**

Includes public safety, large and small business, government, and innovators across the country

# Multi-Org Support

Led by PSCR and implemented under contract with the RedFlash Group and SecondMuse, with support from multiple organizations

# What is the Tech to Protect Challenge?



### Scope

Includes 10 unique contests, 10 regional codeathons, and an online contest – with a national awards event

### Incentives

NIST anticipates awarding 182 prizes based on technical capabilities and commercialization potential to top performing participants, ranging from \$1K-\$100K, totaling \$2.2M

# Who is included?

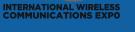


### Government





# **Public Safety CE** IAC









Industry Council for Emergency Response Technologies

### Participants

# Why this approach?



### **Potential to Improve Public Safety**

- Digital natives entering the ranks
- Expectation of top-of-the-line technology and innovative solutions



### Unique Needs from Other App Users

- Security, reliability, privacy, etc.
- Unique laws or regulations
- Operational environments

### **Communicate Unique Needs**

 Public Safety apps will always be better if developers understand the community's unique needs

### **Concept to Prototype**

- Open Innovation diversifies the potential solutions created
- Process provides time, feedback, testing, planning, and bridge

# When are the key dates?



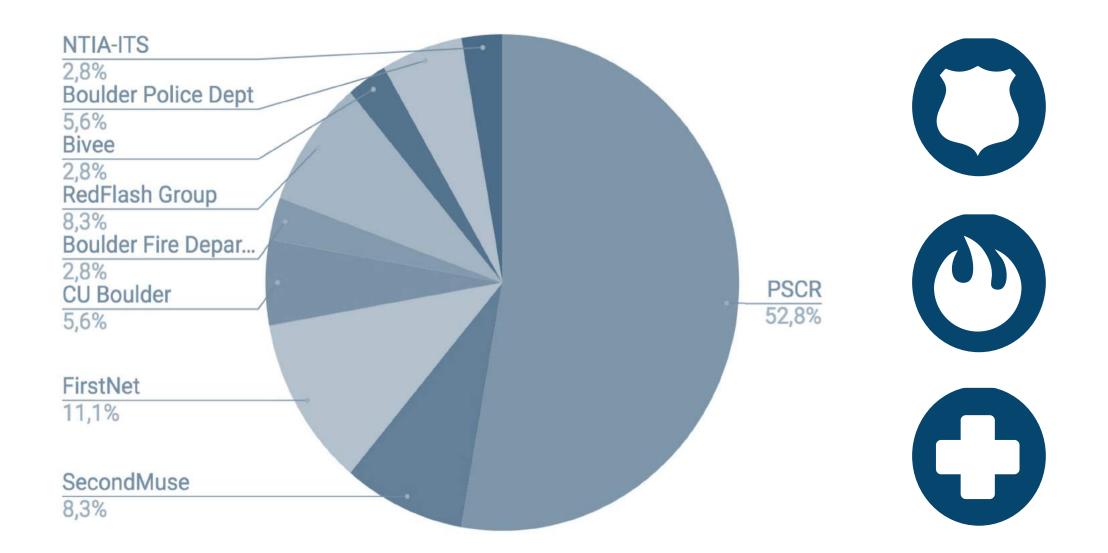


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# How did we design this?

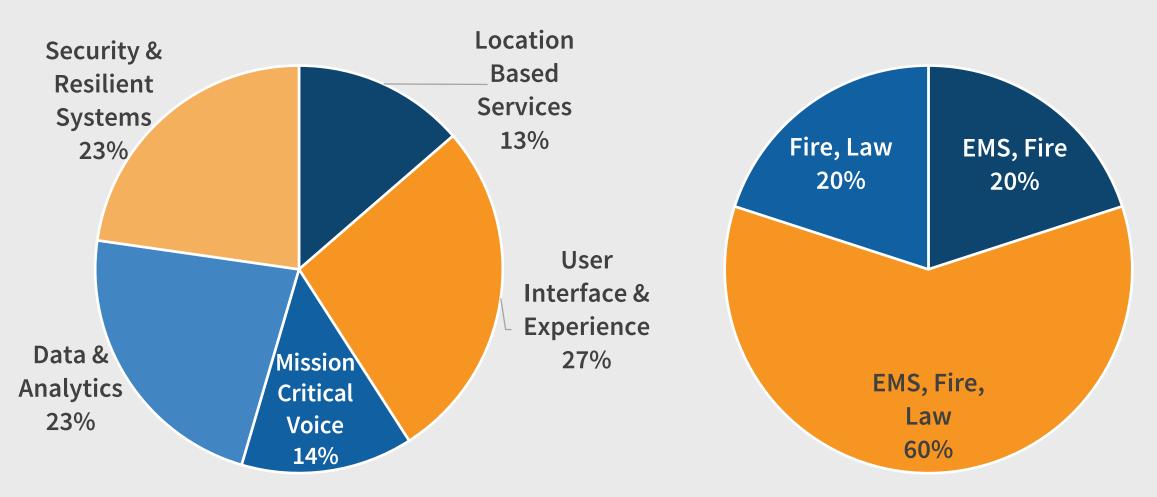


# **Contest Definition Workshop**



# **Contest Distribution**

Post-Contest Definition Workshop



# **Contest Snapshot**



CONTEST 001// 360 Degree View: A Mobile Dashboard for Your Network Security

First Responder Network Authority®

Build a centralized mobile data dashboard to keep emergency responders continually aware of the security of their connections.



### CONTEST 003//

Looking Under the Hood: Using Augmented Reality to Help Save Trapped Passengers



First Responder Network Authority®

Use AR to map the safest way to extricate passengers in critical vehicle collisions.



### CONTEST 002//

No Need To Repeat: Delivering Mission Critical Communications



Strengthen voice communications with push-to-talk technology for mission-critical response.



### CONTEST 004//

Got You Covered: Mapping LTE Capabilities to Save Lives



Expand mapping capabilities to better assess LTE network coverage.

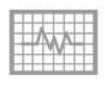
# **Contest Snapshot**



### CONTEST 005// Fire Safety in 3D: Incentivizing Homeowners to Create Pre-Incident Plans for Firefighters



Design a prototype app that incentivizes homeowners to upload 3D floor scans in order to create fire safety checklists and pre-incident plans.



### CONTEST 007// sor Integration: Monitorin





Network Authority®

Leverage emergency responder sensor and sensor networks to support on-the-job safety.



### CONTEST 006//

Voice Commands to Virtual Assistants: Hands Free Device Control



First Responder Network Authority®

Create a customized, voice-activated virtual assistant fit for emergency response.



### CONTEST 008//

No Coverage: Placing Deployable Networks in Emergencies



Develop a diagnostic tool that informs emergency responders on the expected and current coverage and services of LTE deployable networks.

# **Contest Snapshot**



CONTEST 009//

Making the Case: Proactive Image

Protection



Enhance digital security by creating software that detects image tampering and manipulation.



### CONTEST 010//

**Organizing Chaos: Calming** Catastrophe by Tracking Patient Triage



**First Responder** Network Authority®

Improve response for locating, tagging and tracking patients in mass casualty incidents.

### www.techtoprotectchallenge.org/contest





# **Part 2: Panel Discussion**

- Pre-solicited questions for the panel
- Run Time: 25 minutes

# **Plenary Session & Panel**



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# NIST



# Part 3: Call to Action

- How we can work together to support the success of this program
- Run Time: 5 minutes

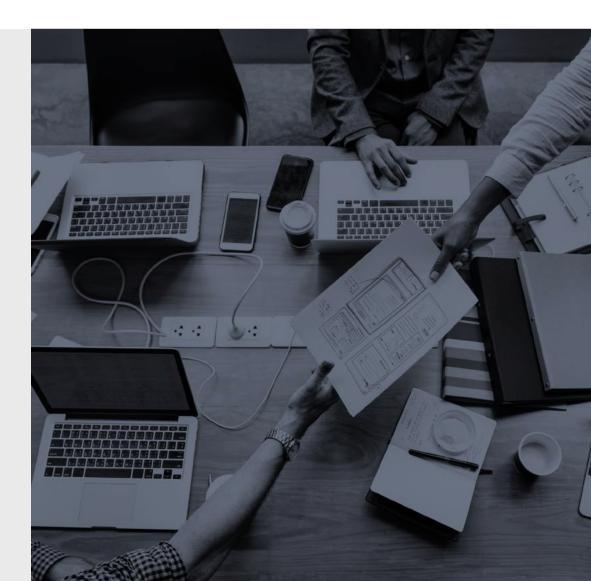
# How we can work together to support the success of this program

# Individuals, teams, and organizations

• Register and prepare to participate in-person at a regional codeathon hosted in one of 10 cities (Fall 2019) or online

### **Emergency responders**

- Join individually or as a team to participate in the coding contests and submit solutions
- Be a resource to participants in-person at one of the 10 regional codeathons or online as a partner public safety agency



# How we can work together to support the success of this program

### **Co-sponsors & Supporters**

 Join the growing list of national and regional co-sponsors by pledging inkind support, sponsored activities, or tangential prizes for participant recognition awards or other materials to enable contestant participation



How we can work together to support the success of this program

https://twitter.com/techtoprotect



https://www.facebook.com/TechtoProtect



https://www.linkedin.com/company/techtoprotect/about



https://www.instagram.com/techtoprotect





# Part 4: Full Audience Q&A

- Questions from the audience
- Don't leave us hanging
- Run Time: 10 minutes



Thank You

# **Thank You!**











Twitter (@techtoprotect)



Instagram (@techtoprotect)

**LinkedIn** 

# **#PSCR2019**

Get your hands on the tech!

Demos Open BACK AT

10:45 AM