



PSCR 2021

THE DIGITAL EXPERIENCE

#PSCR2021 • PSCR.GOV

NIST



Tech to Protect Winners in the FirstNet App Catalog

Craig Connelly & Gary Howarth, PSCR

Stan Adams, QuantaSTAT

Bill Schrier, First Responder Network Authority (FRNA)

Suzette McLeod, FirstNet Built with AT&T



NIST

#PSCR2021



DISCLAIMER

Certain commercial entities, equipment, or materials may be identified in this document in order to describe an experimental procedure or concept adequately.

Such identification is not intended to imply recommendation or endorsement by the National Institute of Standards and Technology, nor is it intended to imply that the entities, materials, or equipment are necessarily the best available for the purpose.

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



INTRODUCTION

Following the Tech to Protect (TTP) Challenge completion in 2020, several winners continue to develop their apps and we are excited to hear what recent winners are up to and how things are going since they listed their apps in the FirstNet App Catalog.

AGENDA

Introductions – 2 min
Recap TTP – 8 min
Questions for the Panelist – 25 min

The Beginning of Tech to Protect

- In September of 2018, PSCR hosted a group of about 40 NIST PSCR Researchers, First Responder Network Authority Advisors, and First Responders from Law Enforcement, Fire and EMS backgrounds in Boulder, Colorado.
- In a series of small group exercises, the 25+ concepts for potential contests within the Tech to Protect Challenge were reviewed, vetted, and discussed.



Tech to Protect: Contest Areas



CONTEST 001//

360 Degree View: A Mobile Dashboard for Your Network Security



CONTEST 002//

No Need To Repeat: Delivering Mission Critical Communications



CONTEST 003//

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



CONTEST 004//

Got You Covered: Mapping LTE Capabilities to Save Lives



CONTEST 005//

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



CONTEST 006//

Voice Commands to Virtual Assistants: Hands Free Device Control



CONTEST 007//

Sensor Integration: Monitoring Emergency Responders' Health



CONTEST 008//

No Coverage: Placing Deployable Networks in Emergencies



CONTEST 009//

Making the Case: Proactive Image Protection



CONTEST 010//

Organizing Chaos: Calming Catastrophe by Tracking Patient Triage

Tech to Protect: Regional Codeathons

Sept 27-29, 2020

Denver, CO

College Station, TX

Chicago, IL

Washington, DC

Nov 1-3, 2020

New York, NY

Seattle, WA

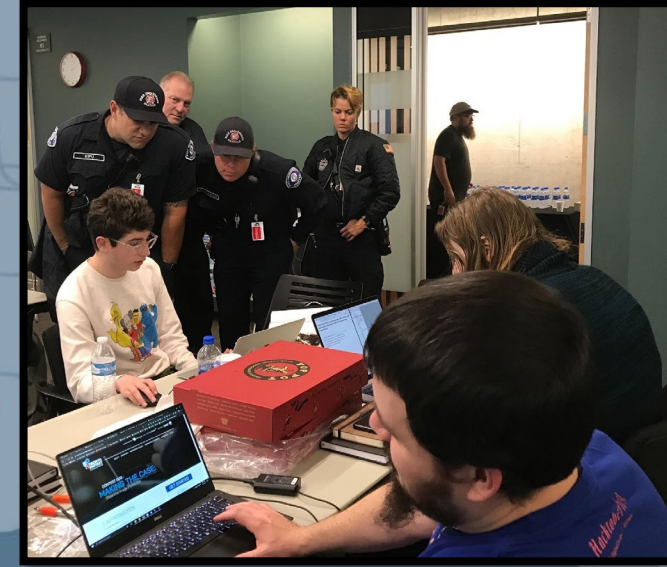
San Francisco, CA

Los Angeles, CA

Miami, FL

Pittsburgh, PA

& Online



- Events hosted by partner organizations
- First responders attended as experts and advisers

- 239 participants & 77 submissions
- \$280,000 in cash prizes

Tech to Protect: Online Contest

- Online competition encouraged submissions from Regional Codeathons as well as new submissions
- PSCR conducted rigorous testing of software submissions and reviewed the solutions with public safety officials and first responders
- Top 25 finalists were invited to the National Award Event
- Over three months, finalists were given focused feedback from technical and public safety experts



Online Contest Finalist Summary

Contest	Finalists
Contest 1	1
Contest 2	5
Contest 3	1
Contest 4	1
Contest 5	1
Contest 6	3
Contest 7	3
Contest 8	1
Contest 9	4
Contest 10	5
TOTAL	25

Tech to Protect: National Award Event Winners

Following the feedback and development phase from February - May 2020, solutions were evaluated again for:

- **Technical Merit:**
 - Demonstration round evaluated on contest-specific criteria
- **Business Acumen:**
 - Seed round evaluated on growth plan, strategy, and next steps forward

Online Contest Winner Summary

Award	Amount	Awards
Excellent	\$40,000	4
Superior	\$30,000	5
Very Good	\$15,000	6
Good	\$10,000	10
Seed Award	\$30,000	12
TOTAL	\$860,000	37

Tech to Protect: Progress Round

- 12 teams received **\$30,000** each to execute their growth plans over six months (May – November 2020)
- Solutions were evaluated and scored on their performance
- Each team eligible to win up to **\$70,000**
- Nine teams reported substantial progress
- Teams reported:
 - Forming **five new businesses**
 - Raising **\$5.4M** in external funding
 - Adding **two new apps in the FirstNet App Catalog**



Progress Round Contest Summary

Amount	Awards
\$70,000	2
\$56,000	2
\$49,000	5
\$497,000	9

WELCOME PANELIST



Stan Adams

President,
Relola Inc. &
QuantaSTAT Inc.



**Suzette M.
McLeod**

Marketing Manager,
FirstNet App
Ecosystem



Bill Schrier

Senior Public Safety
Advisor,
First Responder
Network Authority

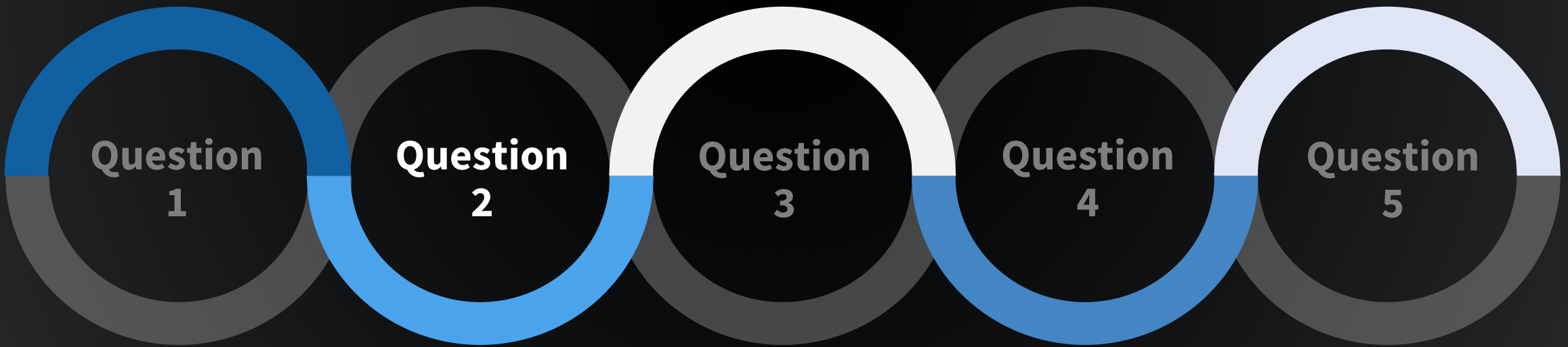
Questions for the Panel

- Q1: What is it like to see Tech to Protect (TTP) apps improve from the Fall 2019 submissions to apps in the FirstNet app catalog today?



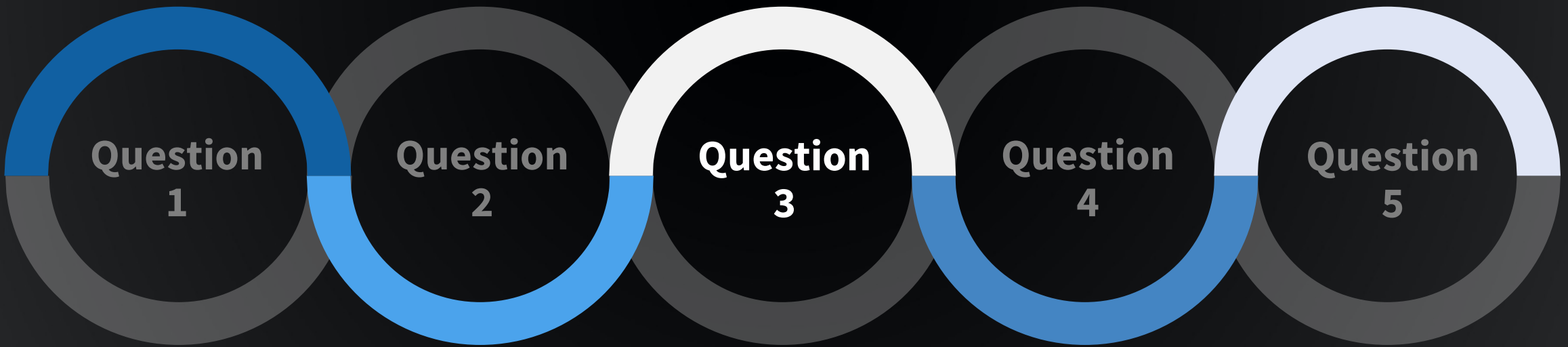
Questions for the Panel

- Q2: How did TTP and the coordination between PSCR, FRNA, and FirstNet Built with AT&T help contestants, SMEs, and public safety? What's it like to look back from today to Fall 2019?



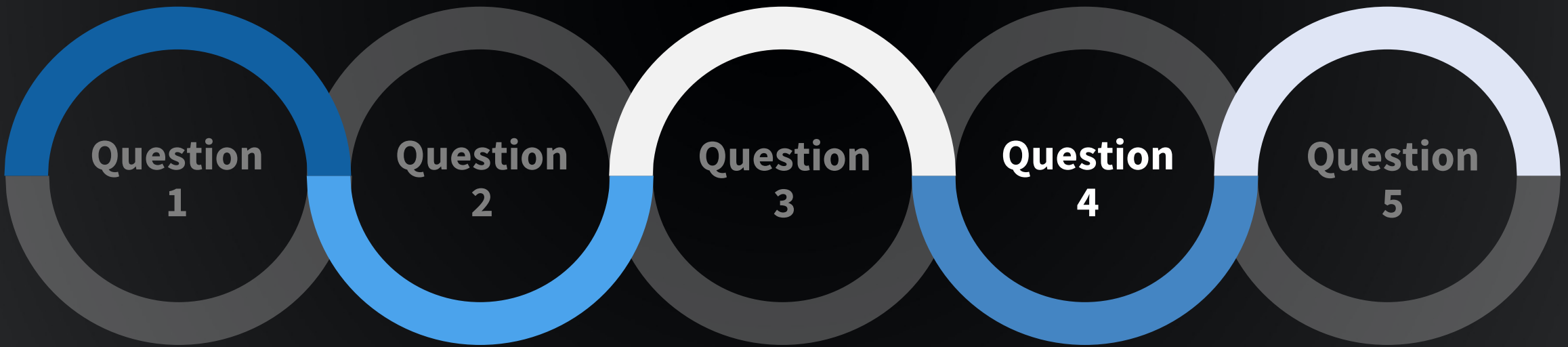
Questions for the Panel

- Q3: Regarding the app catalog listing process, from each of your perspectives - what does achieving an app catalog listing mean to you?



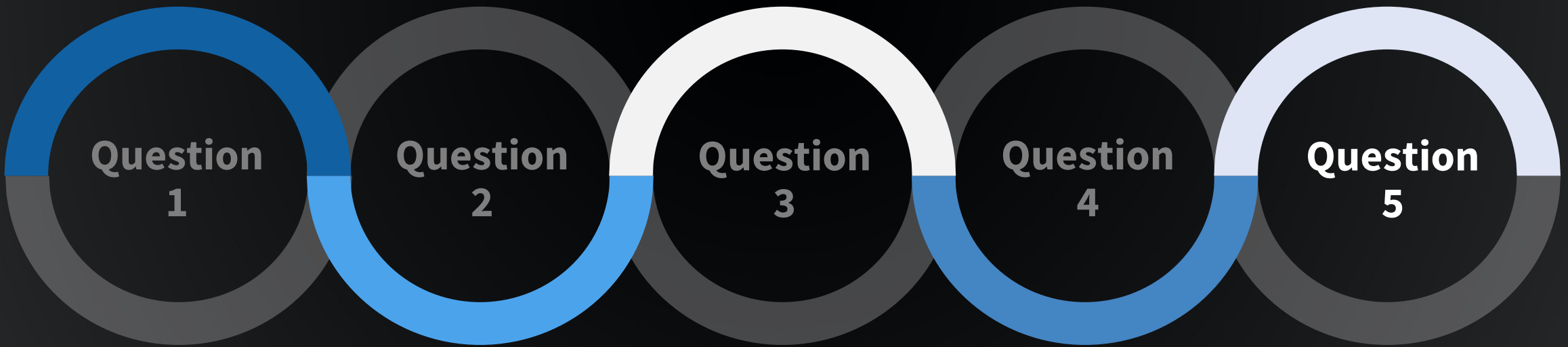
Questions for the Panel

- Q4: How broad is the reach of the FirstNet App Catalog and how can continuing to work with developers like the TTP winners help build a more diverse and sustainable innovation ecosystem for public safety?



Questions for the Panel

- Q5: For the future of programs like TTP and the technologies used by first responders – what's the future of apps like these, how will first responders use apps, and how will both app designers and users work together in the future?



GET CONNECTED



<https://www.nist.gov/ctl/pscr/open-innovation-prize-challenges>

<https://www.nist.gov/ctl/pscr/commercialization>

THANK YOU

#PSCR2021 • PSCR.GOV

