

PSCR 2021 THE DIGITAL EXPERIENCE

#PSCR2021 • PSCR.GOV





Sarah Hughes Prize Challenge Specialist





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







The CHARIOT Challenge is a 4-Phase, dual-track competition that offers up to \$1.1 million in cash prizes, with a mission to design Augmented Reality interfaces that leverage Internet of Things based sensor streams for first responders.

- Emergency Scenarios: Active Shooter, Flood, Mass Transit Accident and Wildfire
- **Timeline:** Launched March 2020 Final Event Planned for November 2020; Rescheduled to September 2021
- Contestants: 20 Augmented Reality Contestants with their matched public safety representatives;
 6 Internet of Things Contestants

CHALLENGE PARTNERS:











PUBLIC SAFETY FOCUS FOR THE CHARIOT CHALLENGE

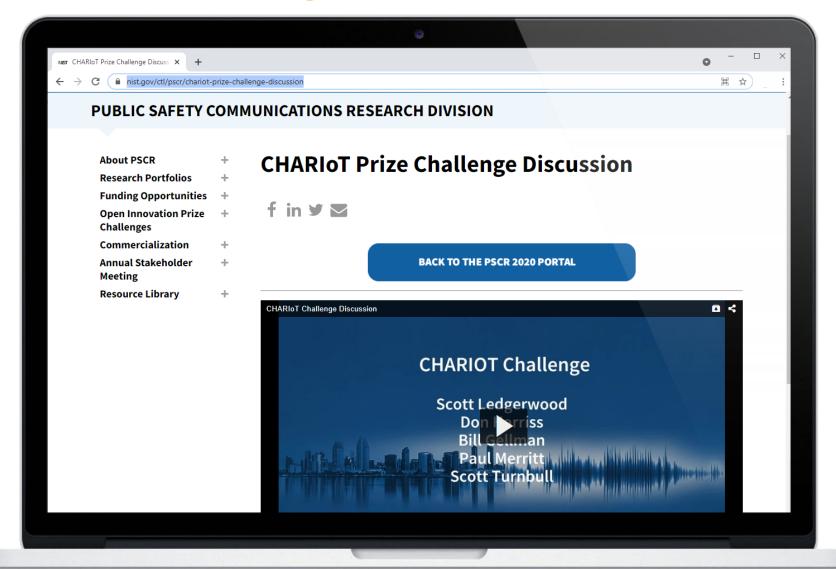
Build Augmented Reality Interfaces for Public Safety

- Developers leveraged augmented reality (AR) technology to convey actionable information to first responders and incident command without distractions or cognitive overload.
- These solutions can significantly improve a first responder's situational awareness allowing them to more effectively plan and respond during incidents.

Emulate Smart City Data for Emergency Scenarios Contest

- Researchers built solutions that provide first responders access to IoT devices', smart buildings' and smart cities' data streams.
- These systems would allow our public safety community to optimize resource deployment and decrease the time it takes for incident command and boots-on-the ground first responders to make life-saving decisions.

CHARIOT CHALLENGE @ PSCR 2020



PSCR 2021: CHARIOT CHALLENGE JOURNEY



What If IoT Data was Accessible to Public Safety?

Listen to this session to learn more about the IoT component of the challenge; how PSCR's collaborator, US Ignite, created the data; and how you can access the data and advance the research on what is possible if IoT data is made accessible to public safety.



CHARIOT Augmented Reality (AR) Updates - Where we are, Where we came from, and Where we're going

Tune into this session highlighting aspects of the CHARIOT AR design, implementation, early-phase prototypes, importance of collaborating with public safety, and a sneak peak of the final evaluation.



Innovating Alongside Public Safety

Join to hear AR Contestant Adam Caplan of Team BadVR and Division Chief Scott Barthelmass of Eureka Fire Protection District (MO) share their experience innovating their CHARIOT Challenge prototypes together.

Don't Forget the CHARIOT Challenge Tech Demos





STAY TUNED

Final Winners Announced Fall 2021!

The final evaluation at a public safety training center will take place in September.

11 AR Finalists **2** IoT Finalists



