

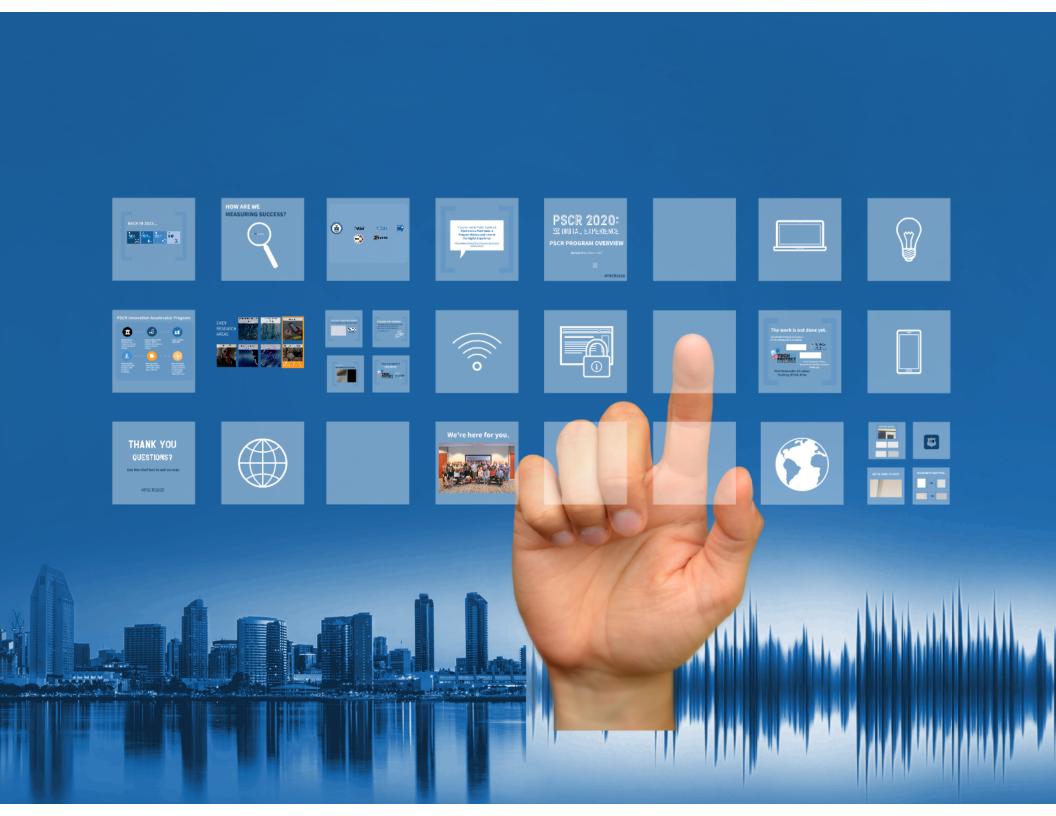
PSCR 2020: THE DIGITAL EXPERIENCE

PSCR PROGRAM OVERVIEW

Dereck Orr, Division Chief

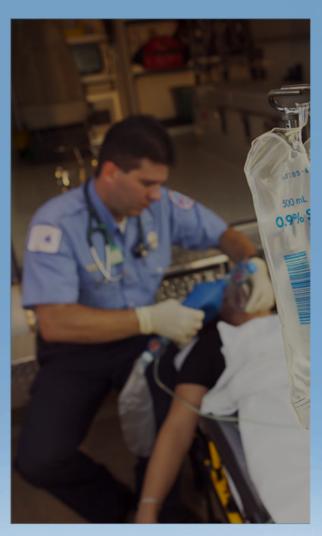


#PSCR2020



The reason for this meeting is YOU















PSCR 2020 PORTAL





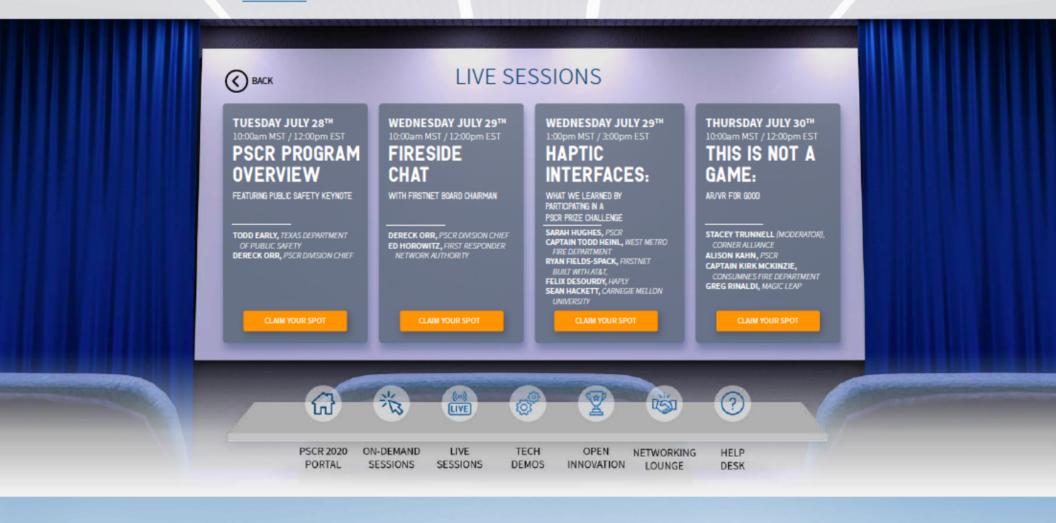
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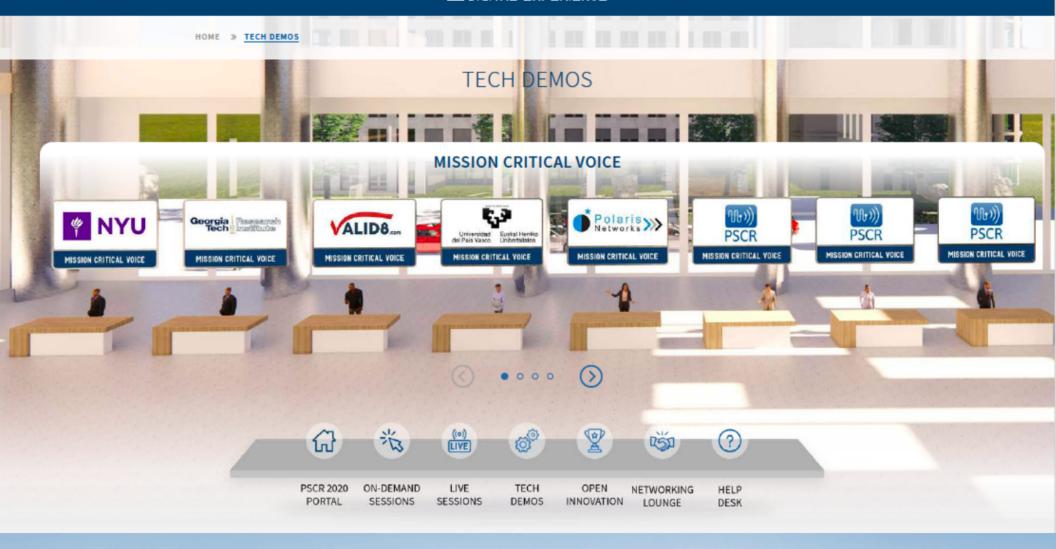
PSCR 2020:

HOME >> LIVE SESSIONS





PSCR 2020:





PSCR 2020: ME DIGITAL EXPERIENCE

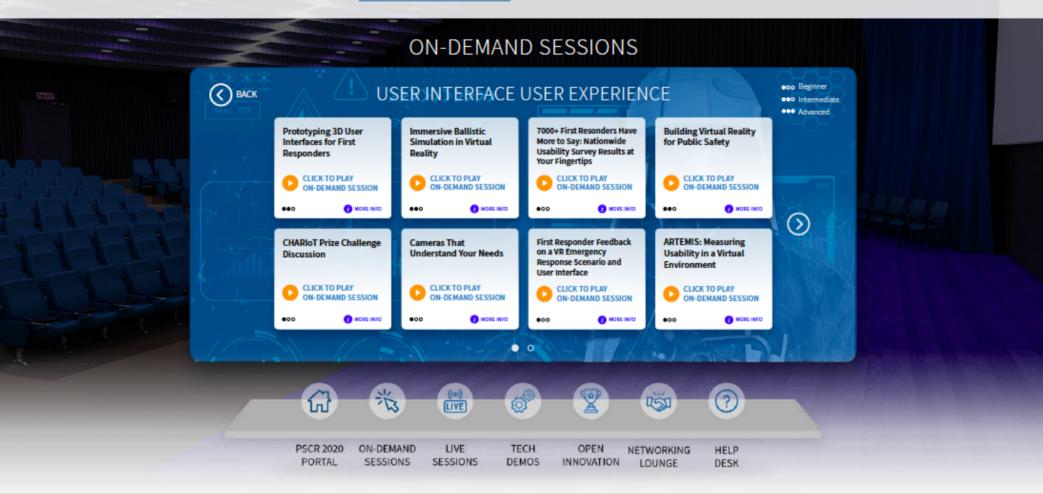
HOME » ON-DEMAND SESSIONS





PSCR 2020: THE DIGITAL EXPERIENCE

HOME » ON-DEMAND SESSIONS » USER INTERFACE USER EXPERIENCE



YOUR INPUT MATTERS.













MCV Portfolio Strategy

BACK TO THE PSCR 2020 PORTAL



This session presents the strategy for the MCV portfolio and how all past, current, and future internal/external efforts tie together to create significant positive results for public safety in: Mission Critical Push-to-Talk, Device to Device Communications, LMR to LTE, and Quality of Experience.

Speaker

Don Bradshaw, PSCR

Leave feedback on this session or ask a question.

Back to the PSCR 2020 Portal



MCV Portfolio Strategy Feedback Form

Thank you for your participation in the MCV Portfolio Strategy on-demand session.

We will aim to address all questions that are received, but please understand there may be a delay. We will publish all questions and answers to the PSCR website here - https://www.nist.gov/ctl/pscr/pscr-2020-qa, with the exception of questions that may be more specific to your organization's needs.

Your input matters. Thank you for sharing your feedback with PSCR.

* Required

Please rate your satisfaction with this session. *

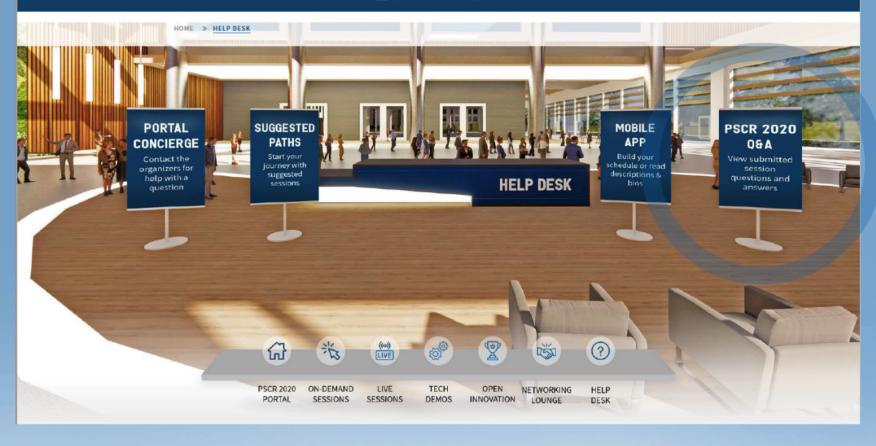
2 3 4

Completely Satisfied

Very Dissatisfied O O O



PSCR 2020: ™E DIGITAL EXPERIENCE





PSCR 2020 Q&A



Please use this document to view researcher's answers to the questions you've submitted about any LIVE or on-demand sessions. This document will be updated regularly as questions are submitted.

To submit a question, please visit the relevant on-demand session, linked from the PSCR 2020 portal and click "Leave feedback or ask a question about this session."

Back to the PSCR 2020 Portal

WE'RE HERE TO HELP.















PSCR Innovation Accelerator Program



Middle Class Tax Relief and Job Creation Act of 2012 passed. FirstNet is created.



Section 6303 provides \$300M to NIST to perform critical R&D to ensure success of FirstNet.



Focus on MCV & LMR to LTE



Addressing R&D necessary to push beyond current broadband technology.



Working closely with Public Safety and FirstNet every step of the way.



Open Innovation program utilizing grants and awards to address high priority public safety R&D needs.







Section 6303 provides \$300M to NIST to perform critical R&D to ensure success of FirstNet.



Focus on MCV & LMR to LTE



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BACK IN 2013...

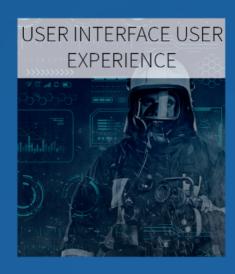


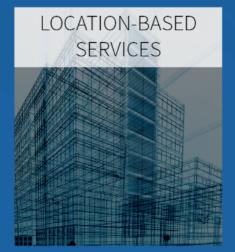




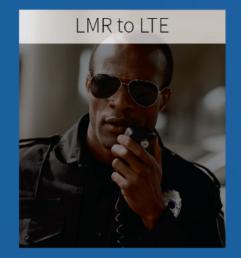


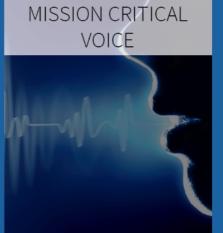
5 KEY RESEARCH AREAS









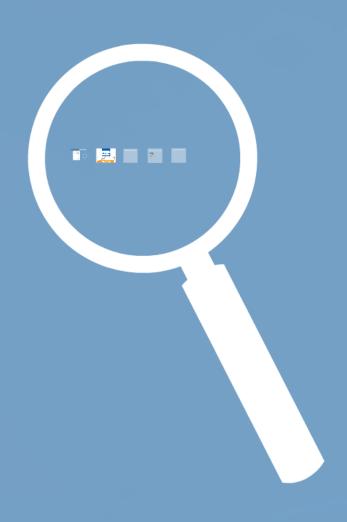




If you're new to PSCR, check out PSCR 101 to PSCR 2020: A Program History and Intro to the Digital Experience

https://www.nist.gov/ctl/pscr/resource-library/pscrwebinar-series

HOW ARE WE MEASURING SUCCESS?



PUBLISHED THIS YEAR

NIST Special Publication 1248

Public Safety Communications Research Division Impact Report: Fiscal Years 2017 – 2019

> Jeremy Glenn Isabel Shaw Marc Leh

This publication is available free of charge from: https://doi.org/10.6028/NIST.SP.1248

National Institute of
Standards and Technology
U.S. Department of Commerce



Check out the Making an Impact Panel on-demand session for more information!

MEASURABLE IMPACT ON SAVING LIVES, PROPERTY, ETC.



PSCR research <u>indirectly</u> supports this goal

TRANSFORMING PUBLIC SAFETY OPERATIONAL CAPABILITIES



PSCR research <u>directly</u> supports this goal



PSCR PRIMARILY FOCUSES ON DEVELOPING, EXPANDING, OR INFLUENCING THESE 5 AREAS

PSIAP GRANT PROGRAM



167 TOTAL
AWARD RECIPIENTS
SUBCONTRACTORS &
PUBLIC SAFETY PRACTITIONERS

26 STATES



OPEN INNOVATION PROGRAM



TO DATE 🛣

PARTICIPANTS

STATES

COUNTRIES





WINNERS: & 130 TEAMS

RESEARCH HIGHLIGHTS

123 PSCR PROFESSIONAL JOURNAL & CONFERENCE PUBLICATIONS &

(This number reflects the number of publications that have been voluntarily reported to date, with final #'s (award "products") not due to be reported by PSIAP awardees until they submit final reports at the conclusion of their awards)

INTRAMURAL —

- 46 PSCR RESEARCH PUBLICATIONS
 - 33 PROFESSIONAL JOURNAL/CONFERENCE PROCEEDINGS
 - 13 OTHER PUBLICATIONS (INCLUDING NISTIR)

EXTRAMURAL

- 77 PSIAP AWARD RECIPIENT PUBLICATIONS
- 73 PROFESSIONAL JOURNAL/CONFERENCE PROCEEDINGS
 - 4 OTHER PUBLICATIONS

PUBLICALLY AVAILABLE
OPEN SOURCE CODE
INCLUDING VR ENVIRONMENTS
& ANALYTICS FRAMEWORKS

PATENT GRANTED
FOR RESILIENT SYSTEMS
AWARD RECIPIENT

3 SUBMITTED FOR LOCATION-BASED SERVICES AWARD RECIPIENTS

WHAT'S NEXT?

COMMERCIALIZATION













2019 SIM CARD CHALLENGE MOST COMMERCIALLY PROMISING AWARD



SoloSIM \$3.5K

TECH TO PROTECT CHALLENGE



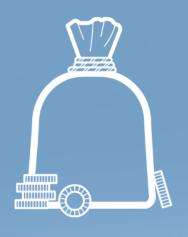
up to \$1.93M



SEED & PROGRESS EVALUATION ROUND

\$30K Seed Award presented May 1, 2020





Up to \$70K Progress Award available in November 2020

FOLLOW-ON FUNDING

TECHNICAL AND BUSINESS ASSISTANCE AND DEMONSTRATION PROJECTS WITH PUBLIC SAFETY AGENCIES

https://www.grants.gov/web/grants/viewopportunity.html?oppId=327052



The work is not done yet.

2020 Mobile Fingerprint Capture for First Responders Challenge









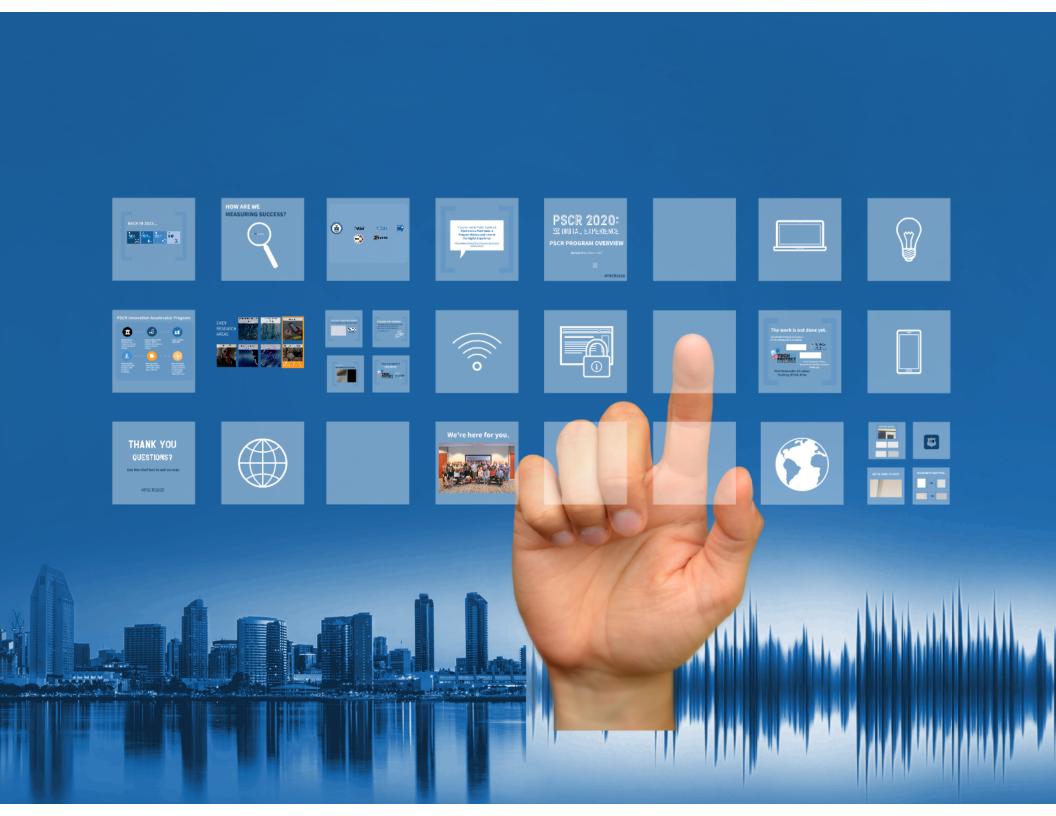
2020 Computer Vision
Datasets for Quality Analysis
Challenge

First Responder 3D Indoor Tracking (FR3D) Prize

We're here for you.







Use the chat box to ask us now.

#PSCR2020