PSCR 2021

THE DIGITAL EXPERIENCE

#PSCR2021 • PSCR.GOV







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





PULSE ACCELERATOR



WHY THE PULSE ACCELERATOR?

Early R&D

Technology Available to Public Safety

PSCR's Impacts

- Transforming public safety's operational capacity
- Create new public safety applications
- Develop measurement tools

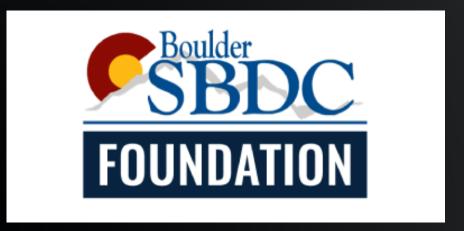


MEET THE PULSE TEAM



Tipping Point Solutions:

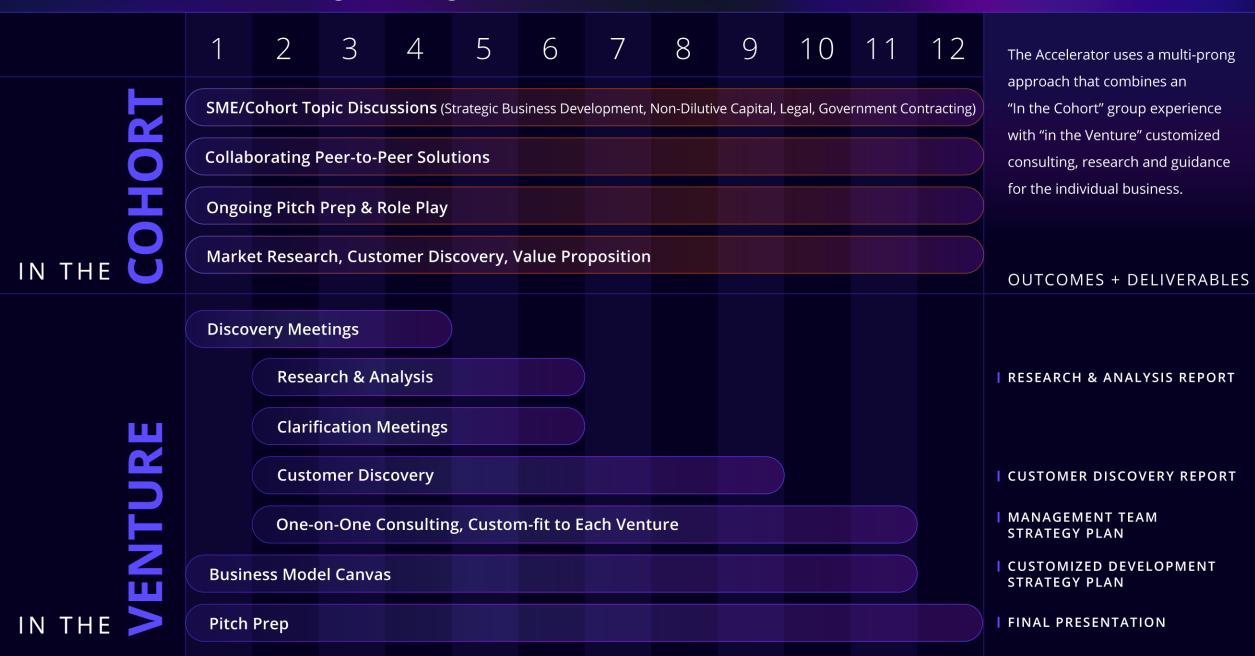
- A respected media company to brand and market the accelerator at a level consistent with the reputation and expectations of NIST PSCR
- Track record of success working with NIST PSCR
- Key roles: to attract high-quality applicants, to support engagement of prospective technology transfer partners for the companies including through execution of a final event, and to assist on participant pitch presentation media



Boulder SBDC Foundation:

- The "engine" of the virtual accelerator content
- Track record of ten years producing technology accelerators with dozens of companies including success migrating to an online experience in 2020
- Under U.S. Small Business Administration (SBA) governance; named best Small Business
 Development Center (SBDC) in the nation in 2018
 awarded SBA's "Center of Excellence & Innovation" -- in part due to these accelerators

NIST PSCR Accelerator Program Design





ADVANCED AIRCRAFT COMPANY, LLC

Advanced Aircraft Company (AAC) is an aeronautical engineering and aircraft manufacturing company based in Hampton, VA. AAC produces vertical takeoff and landing (VTOL) unmanned aerial systems (UAS) targeting commercial, government, and military markets.



BIO1 SYSTEMS INC.

Bio1 Systems streamlines the process of clinical data capture and transfer during pre-hospital, en route, and in hospital care. Through Aldriven technology, Bio1 Systems' custom hardware and software platform manages modern triage and patient transfers using automatic object detection (AOD), automatic speech recognition (ASR) with natural language processing (NLP), and Al-driven predictive analytics and decision support to perform hands-free clinical assessments.





DIAMOND AGE TECHNOLOGY

Diamond Age Technology develops intelligent spatial computing applications at the intersection of artificial intelligence and virtual/augmented reality. Their primary technologies are in virtual reality training, augmented-reality procedures, rapid virtualization of real-world assets into digital twins, and visualizing complex scene information for high-stakes decision makers.



HAPLY ROBOTICS

Haply Robotics is a company on a mission to create beautifully designed products with leading-edge mixed reality technologies to blur the lines between the physical and digital worlds. Simulation is forever changing the way the world will learn, train, and entertain ourselves and the successful integration of our sense of touch is at its core. Haply builds the interfaces that will pave the way for a physical-virtual future.





NEXR LLC

The NeXR team combines expert VR/AR developers, training SMEs and Public Service Commission veterans to create industry-leading custom training modules designed to drastically improve operations, lower costs and improve your workforce.



PEAK RESPONSE

Peak Response is focused on improving public safety with modern technology and user-centered design. Their first software product addresses coordination during mass casualty incidents (MCIs) with advanced technologies like speech-to-text. Using their software, patient data collected by first responders across the scene is automatically uploaded to provide a live bird's-eye view for the incident commander and others managing the scene strategy.





QUANTASTAT

QuantaSTAT is leading the way to a healthier tomorrow by creating transformative technology to improve the lives of everyone through better HIPAA compliant medical response technology. The QuantaSTAT platform provides the ability to track real-time health, location, and status of patients and assets—anytime, anywhere, instantly, and securely.



RETHINK SOLUIONS LLC (DBA APOLLO AI)

Apollo is a hands-free, smart voice assistant designed for emergency medical personnel, firefighters, law enforcement officers, and dispatchers. Apollo improves first responder efficiency, safety, and individual well-being while strengthening community relations by enabling access to advanced analytics, real-time data, and hands-free voice access to essential routine functions.





SPECTRONN

Spectronn's artificial intelligence (AI) software platform understands the video content and automatically generates a story in plain English. A conversational chatbot mobile App then enables first responders to ask questions and get answers from the generated story. Video analytics computations are dynamically distributed over the mobile edge and cloud for wireless bandwidth and latency minimization.



VENTILLC

Venti's Intelipod® system provides an advanced network of sensors across a broad spectrum of critical data elements (temperature, atmospheric pressure, humidity, vibration, volatile organic compound (VOC) detection, and geo-location) and integrates them into an actionable, common operating, real-time situational awareness and a record for post-event forensics.





WHAT HAS BEEN THE MOST REWARDING ASPECT ABOUT PARTICIPATING IN PULSE?





MOST REWARDING ASPECT



Haply Robotics

Spectronn





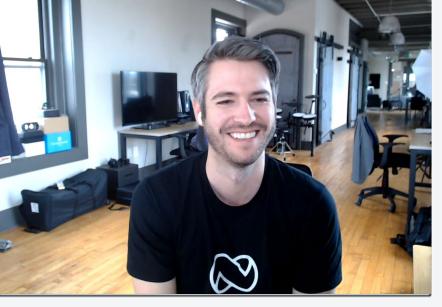
HOW HAS YOUR BUSINESS GROWN/PIVOTED?





MY BUSINES HAS GROWN/PIVOTED





NeXR

Venti LLC





WHAT HAVE YOU LEARNED MOST THROUGH YOUR INTERACTIONS WITH PUBLIC SAFETY AS PART OF PULSE?





LEARNED FROM PUBLIC SAFEY INTERACTIONS



Diamond Age Technology

QuantaSTAT





WHY SHOULD A BUSINESS APPLY TO PARTICIPATE IN OR A PSCR STAKEHOLDER SHARE THEIR EXPERTISE WITH THE PULSE ACCELERATOR?





WHY PARTICIPATE?



Advanced Aircraft Company

Apollo AI



MEET THE PULSE WAVE PARTICIPANTS IN THE TECH DEMOS





SENDING A PULSE TO INNOVATION IN PUBLIC SAFETY





NOW RECRUITING FOR ROUNDS 2 AND 3!



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thepulseaccelerator.com

