

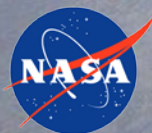
Introducing the Space Ventures Coalition (SVC)

*The space industry track of the
Alliance for Southern California Innovation*



Andre Doumitt, The Aerospace Corp
Richard French, Jet Propulsion Laboratory, California Institute of Technology

**Alliance
for SoCal
Innovation**



Jet Propulsion Laboratory
California Institute of Technology



Summer 2018

Southern California – An Aerospace Legacy with a Bright Future

- Past – historic center of aviation and space invention, innovation, and manufacturing
 - Home to Rockwell, Lockheed, Douglas, Northrop, Hughes, TRW
- Present – Space focused academic institutions, organizations, and entrepreneurs
 - NASA JPL, Aerospace, USAF, UCLA, Caltech, USC, Space X, Virgin Galactic
- Future – A dynamic and collaborative combination of academia, government, legacy companies, and startups



We are building upon Southern California's leadership in aviation and space by encouraging "new" entrepreneurial space companies

The Alliance for Southern California Innovation

<http://www.alliancesocal.org/>



The Mission

To nurture and accelerate the growth of a vibrant entrepreneurial ecosystem in Southern California

The Goals

To identify and promote inventors and intellectual property creators looking to commercialize their scientific advances and discoveries

To link innovators to capital and experienced operators through a unique partnership with SoCal's research institutions

Members of the Alliance for Southern California Innovation



Jeff Henley (Oracle), Eric Schmidt (Alphabet/Google), Greg Becker (Silicon Valley Bank), Larry Sonsini (Wilson Sonsini), Ted Eliopoulos (CalPERS)

Gene Sykes (Chairman), Steve Poizner (Founder & Board Member), Andy Wilson (Director), Steve Gilison (Operations)
Pro-bono assistance from Boston Consulting Group (Strategic Planning), Envoy + CAA (Brand/Marketing), Edelman (PR), Latham & Watkins (Legal)

CalTech, UCLA, UCSD, USC, UCSB, UCI, UCR, Sanford Consortium, University of San Diego, Harvey Mudd College

Derek Aberle (Qualcomm), Michael Yanover (CAA), Emmanuel Roman (PIMCO), Marc Stern (TCW), Thomas Gewecke (Warner Bros.), Sherry Lansing (Paramount Pictures), Gene Sykes** (Goldman Sachs, LA28 Olympics), Scott Wolfe (Latham & Watkins), Elizabeth Blackburn (Salk Institute)

*On the Alliance Board of Directors

** On the Alliance Advisory Council

Alliance academic members have world-class early stage technology

Caltech



USC University of
Southern California

HARVEY
MUDD
COLLEGE



Sanford Consortium
FOR REGENERATIVE MEDICINE

UCLA
TECHNOLOGY
DEVELOPMENT
GROUP

UCI University of
California, Irvine

THE
CLAREMONT
COLLEGES



University
of San Diego

UNIVERSITY OF CALIFORNIA
UC RIVERSIDE

UC Santa Barbara

UC San Diego

SVC is the space industry track of the Alliance for SoCal Innovation

- A community of space researchers, technologists, developers, end-users, and industry leaders
 - Brought together by Southern California's space FFRDC's: **Jet Propulsion Laboratory** and **Aerospace Corporation**
- The objective of the SVC is to operationalize the **Alliance for SoCal Innovation** in the space industry
 - Will host community events that highlight the best early stage university technology identified by the Alliance
- Event-driven, systematic approach to accelerating early stage technology identification, development, and commercialization opportunities for the space industry
- Each community member can leverage unique tools and capabilities to pull technology opportunities forward toward commercialization and mission infusion



- SVC Supporters include (from left to right):
1. Andy Wilson, Alliance for SoCal Innovation
 2. Matt Grantias, MD5/USC Viterbi School
 3. Josh Rickey, Northrop Grumman
 4. Andre Doumitt, Aerospace Corporation
 5. Van Espahbodi, Starburst Accelerator
 6. Tom Heinsheimer, Aerospace Corporation
 7. Richard French, NASA JPL

The Space Ventures Coalition (SVC)



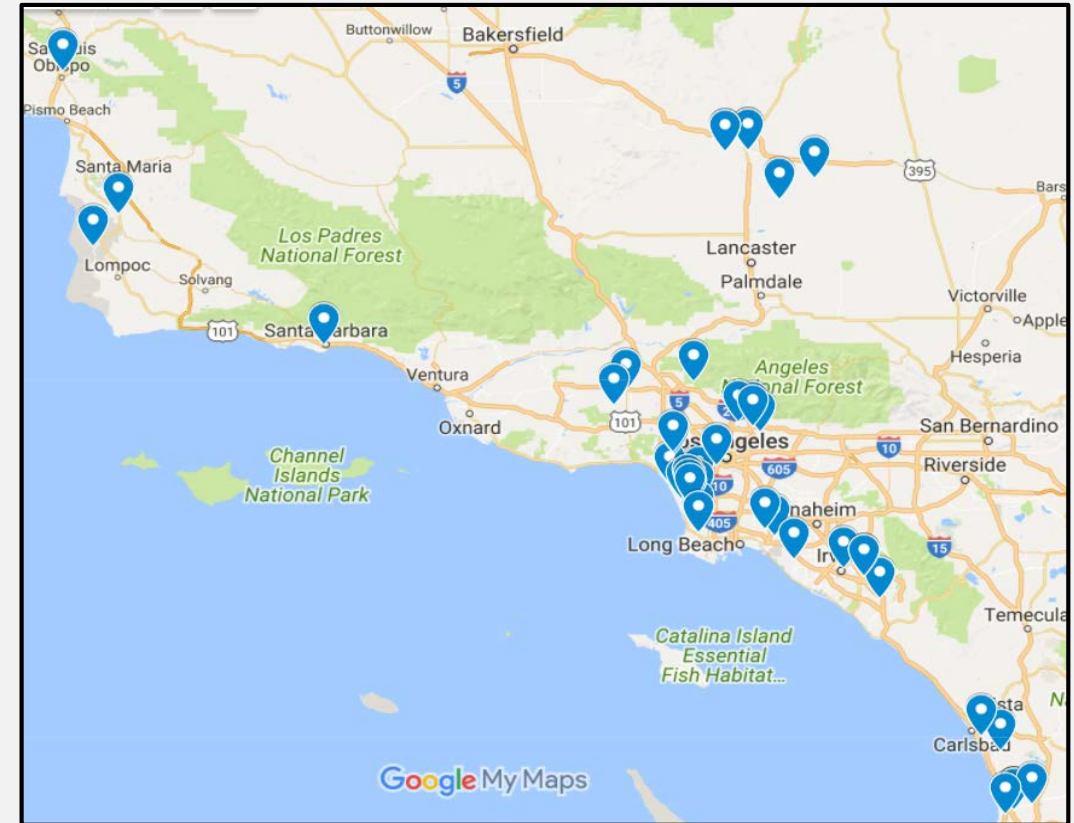
- SVC identifies early stage technologies in the academic research environment with potential application to space and helps create pathways for mission infusion and commercialization
- SVC brings the communities of government, industry, and entrepreneurial space together to explore early stage technology opportunities
 - Hosts events in collaboration with the Alliance for SoCal Innovation
- SVC interests includes software, hardware, materials, information technology, new manufacturing techniques, and anything with potential application to space!



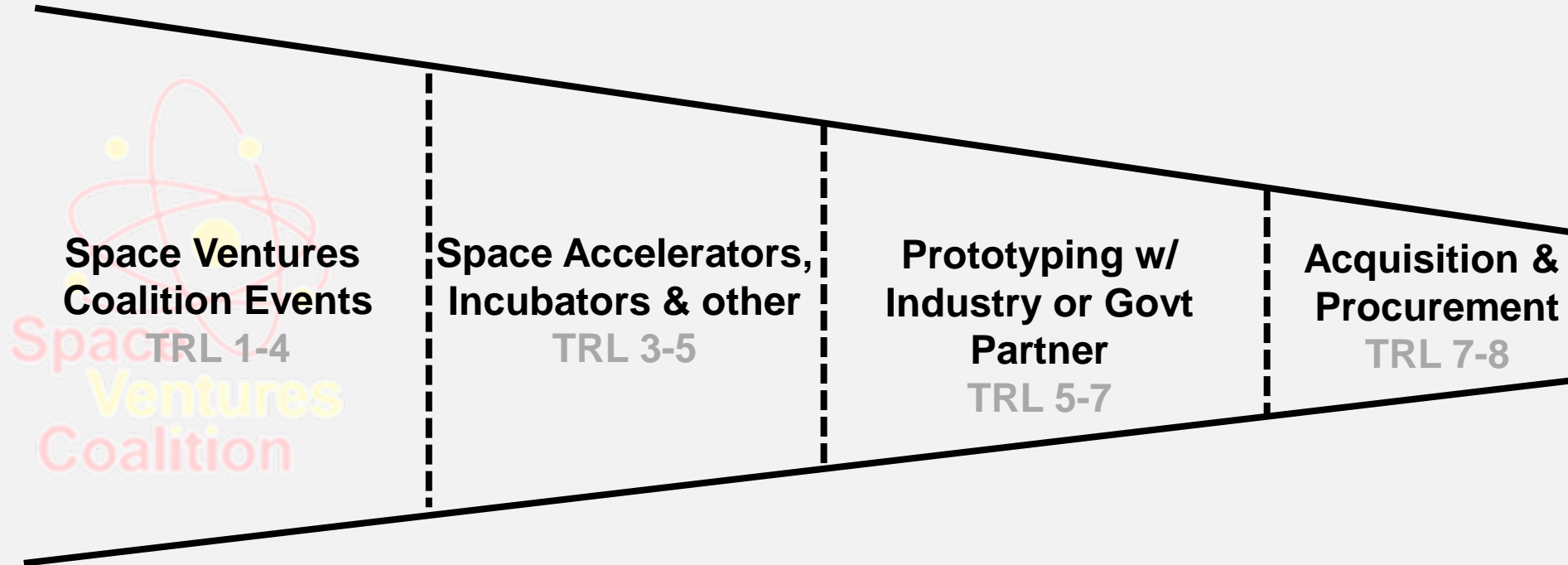
Organized by **The Aerospace Corporation** and NASA's **Jet Propulsion Laboratory** to leverage the **Alliance for Southern California Innovation** and advance early stage technologies in support of the nation's space industry and missions

Why Space is a Track in the Alliance

- The Space industry has unique challenges and high barriers to entry
- The Space industry is dominated by a combination of legacy players with strong government relationships and entrepreneurial companies with new business models
- “Non-space” technologies are increasingly viewed as having utility in space
- Southern California continues to lead the space industry as other regions are growing
- A space-focused track will introduce SoCal space corporations, government labs, and investors to early stage technology and facilitate partnerships



Where does SVC fit in the space community?



Govt Space Missions

- USAF
- NASA
- NOAA
- NRO
- NGA
- DHS
- FAA

Commercial Space Missions

- Telecommunications
- Remote Sensing
- Satellite Servicing
- In-space Manufacturing

SVC is a natural fit to identify early stage technology opportunities for the space technology pipeline – the Technology Readiness Level (TRL) scale

Next Steps

- **Establish web platform with Alliance 4Q18**
- **Work with Alliance to tap university & research institutions for emerging space technology**
- **Release SoCal Space technology Prospectus Nov 2018**
- **Conduct SVC event in coordination with Alliance (1Q 2019)**
- **Establish formal process for early stage funding of identified technology for prototype development**
- **Support event planning, establish common policies and approach between JPL-Aerospace, and future formal SVC members**



Join us, get involved!



Aerospace Innovation Center/Institute

- Create research opportunities between Government, Academic Institutions and Industry Partners to advance the Aerospace Industry in California
- Accelerate the transition of Aerospace technologies to the marketplace by connecting ideas, expertise, and partners
- Develop pipeline of trained Aerospace personnel
- Take advantage of the extensive Aerospace ties, infrastructure, and experience in California and the Antelope Valley region
- Initial seed funding being provided by Air Force Research Laboratory
- Support from State of California (ACR-145, AB-240)
- Initial goals Create success stories!

The Antelope Valley has the physical space and the resources necessary to maintain California's leadership in Aerospace

Questions? Contact us!



Andre Doumitt
Director, Innovation Development
The Aerospace Corp
andre.doumitt@aero.org

Richard French
Manager, Technology Partnerships, Office of
Space Technology
NASA Jet Propulsion Laboratory
richard.t.french@jpl.nasa.gov