

# Day 1 Wrap Up

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Mr. Michael Geertsen  
Deputy Director  
Microsystems Technology Office  
Defense Advanced Research Projects Agency

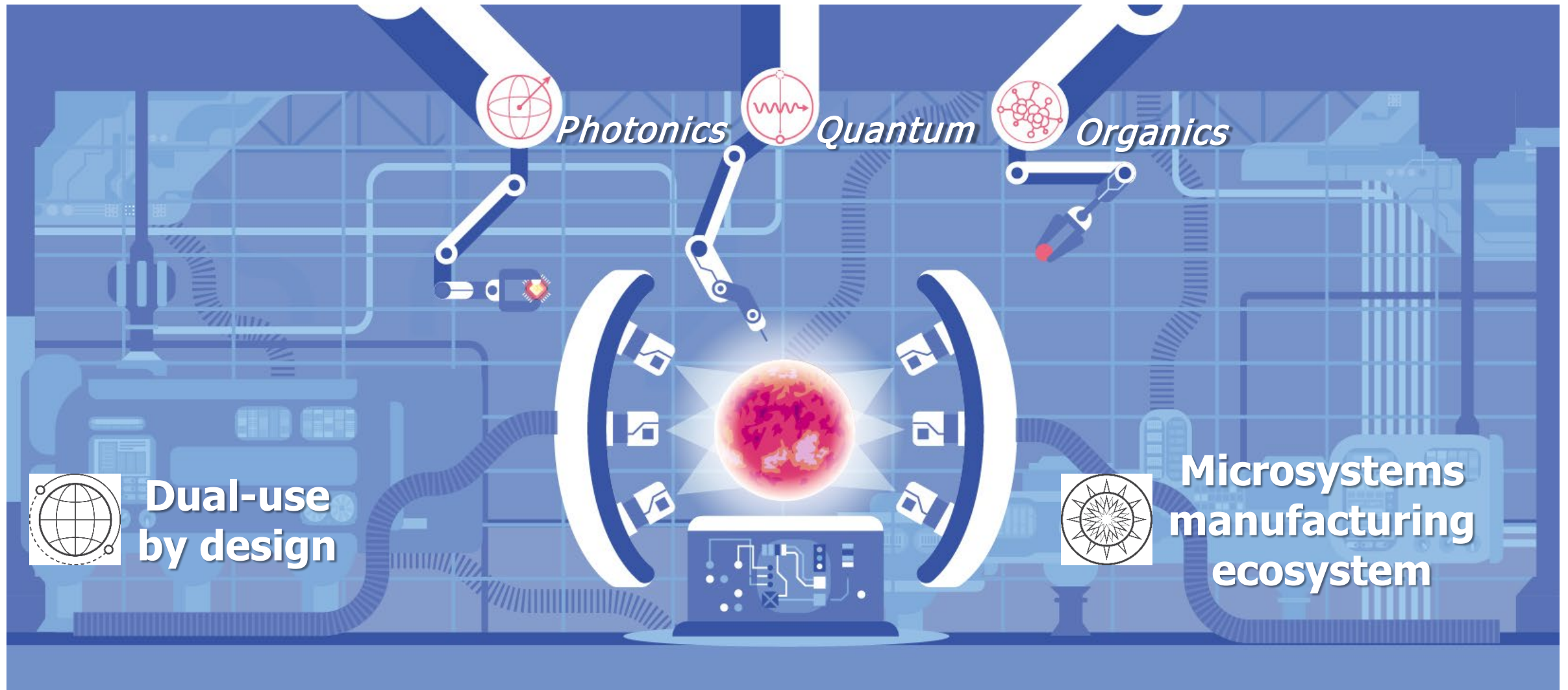
Spark Tank

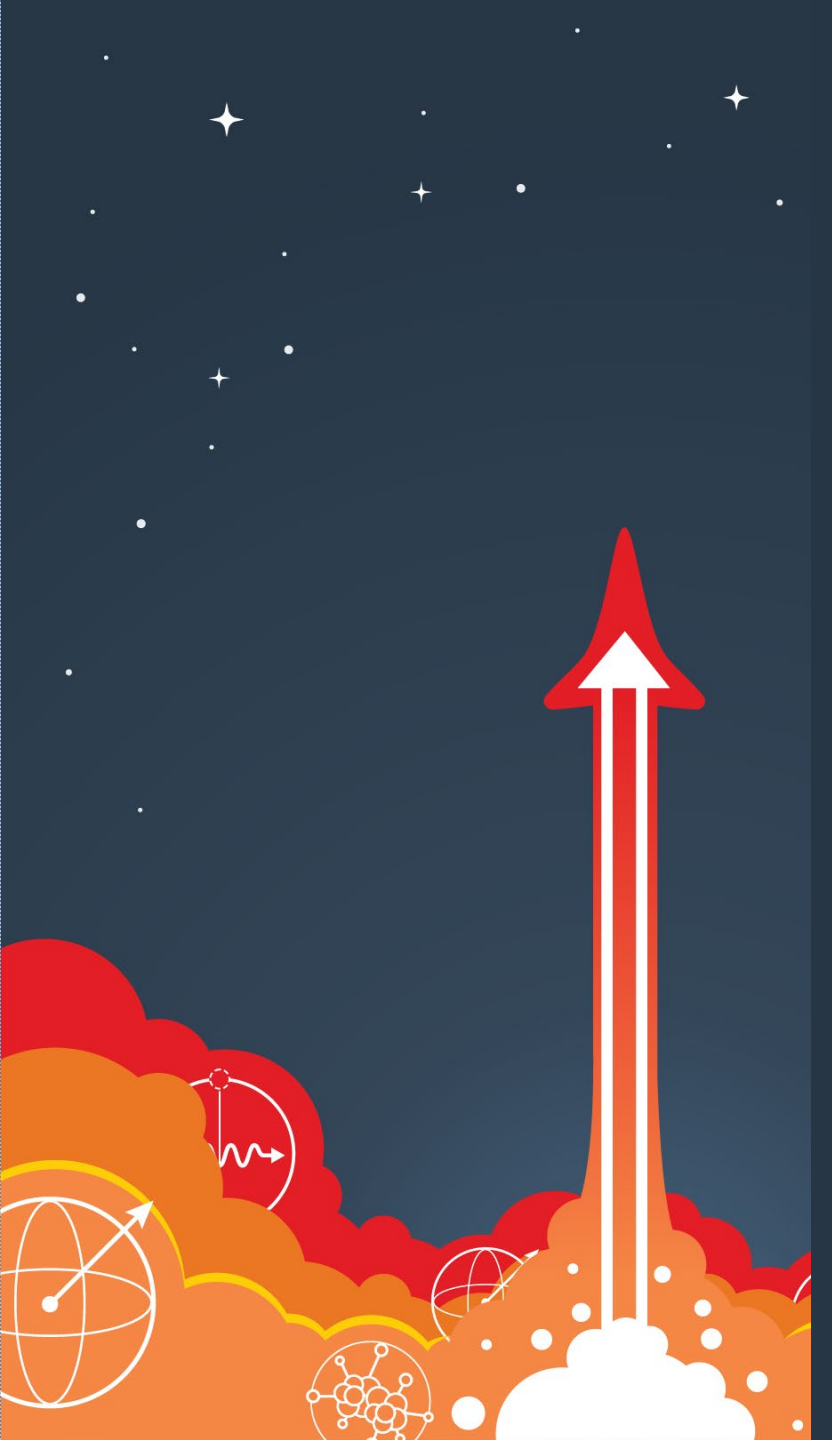
July 24, 2025





# Thrust Areas





Daniel Ridge  
*Novel Hardware*



Mike Sangillo  
*Breakthrough Additive  
Manufacturing*



Huanan Zhang  
*Nanofabrication and Tools*



David Meyers  
*Advanced Materials and  
Packaging*



Julian McMorro  
*Materials and Reuse*



Yogendra Joshi  
*Thermal Engineering*



Anna Tauke-Pedretti  
*Advanced Photonics/  
Circuits and Interconnects*



Justin Cohen  
*Integrated Photonics and  
Quantum Concepts*



Thomas Schratwieser  
*Energy Delivery and  
Quantum Science*



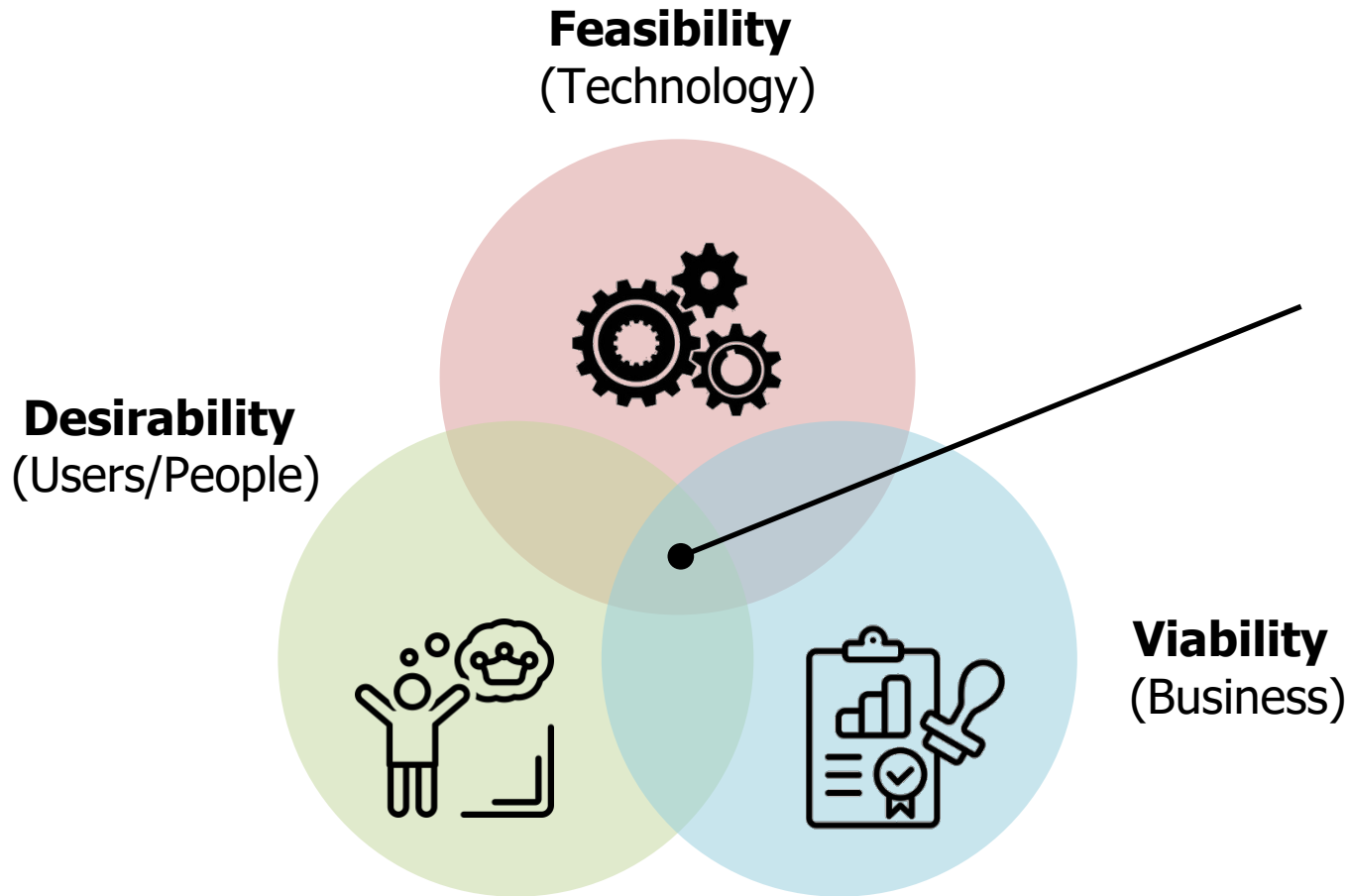
Jonathan Hoffman  
*Quantum Sensing*



John Hoffman  
*Biological and Organic  
Microsystems*

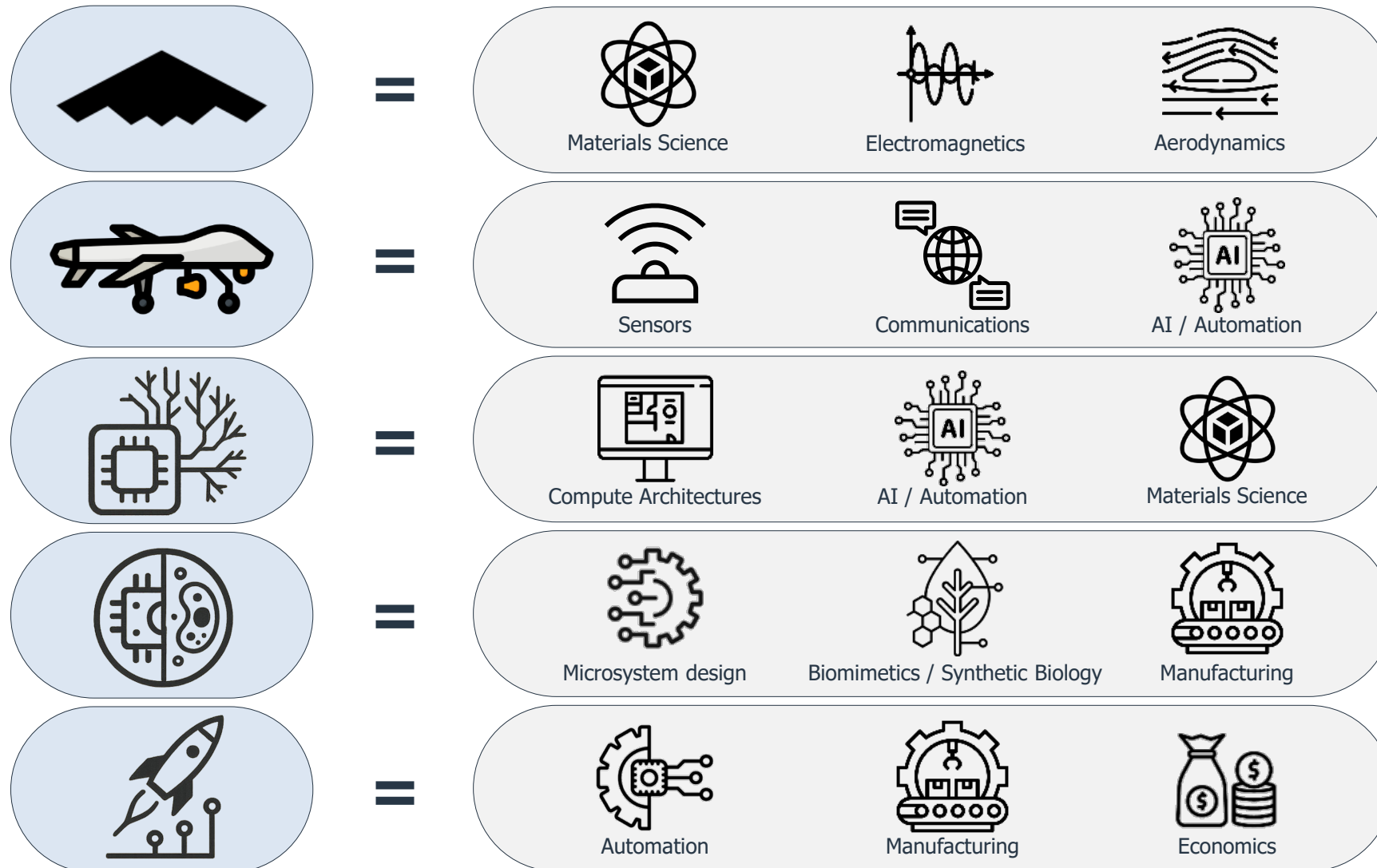


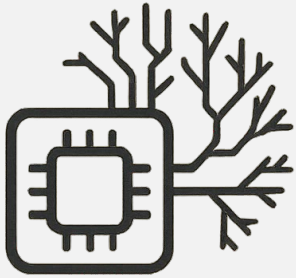




- Thrives where fields, disciplines, and cultures intersect
- Encourages non-linear thinking and creative problem solving
- Breaks through traditional silos
- Enables transformational rather than incremental progress

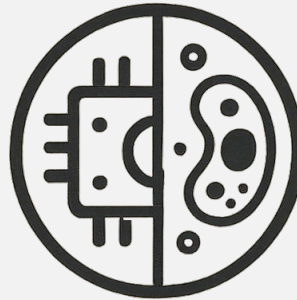
**Innovation at the interface occurs when disciplines, domains, technologies and people intersect – producing novel solutions that wouldn't emerge within silos**





## Unconventional Computing

- Novel ways of computing beyond binary logic
- New physical, logical, and mathematical frameworks
- Explicitly excludes quantum computing



## Biologically Inspired Microsystems

- Microsystems to better interact with biology
- Integration of biomolecules with micro-technologies
- Functions unachievable in bio or electronics alone



## Commercially Catalyzed Defense Deployment

- Leverage commercial scales for defense volumes
- Ecosystem to accelerate DoD Tech deployment
- Design, integration, tools, and/or hardware validation

# Tomorrow's Agenda

Micah Stoutimore  
Quantum Benchmarking Initiative



Mike Holmes  
*NGMM Director*



Jenifer Thabet  
DARPA Small Business



John Spirtos  
DARPA Commercial Strategy



Jess Ressig  
DARPA Connect



Colleen Ryan  
DARPA Chief Talent Officer

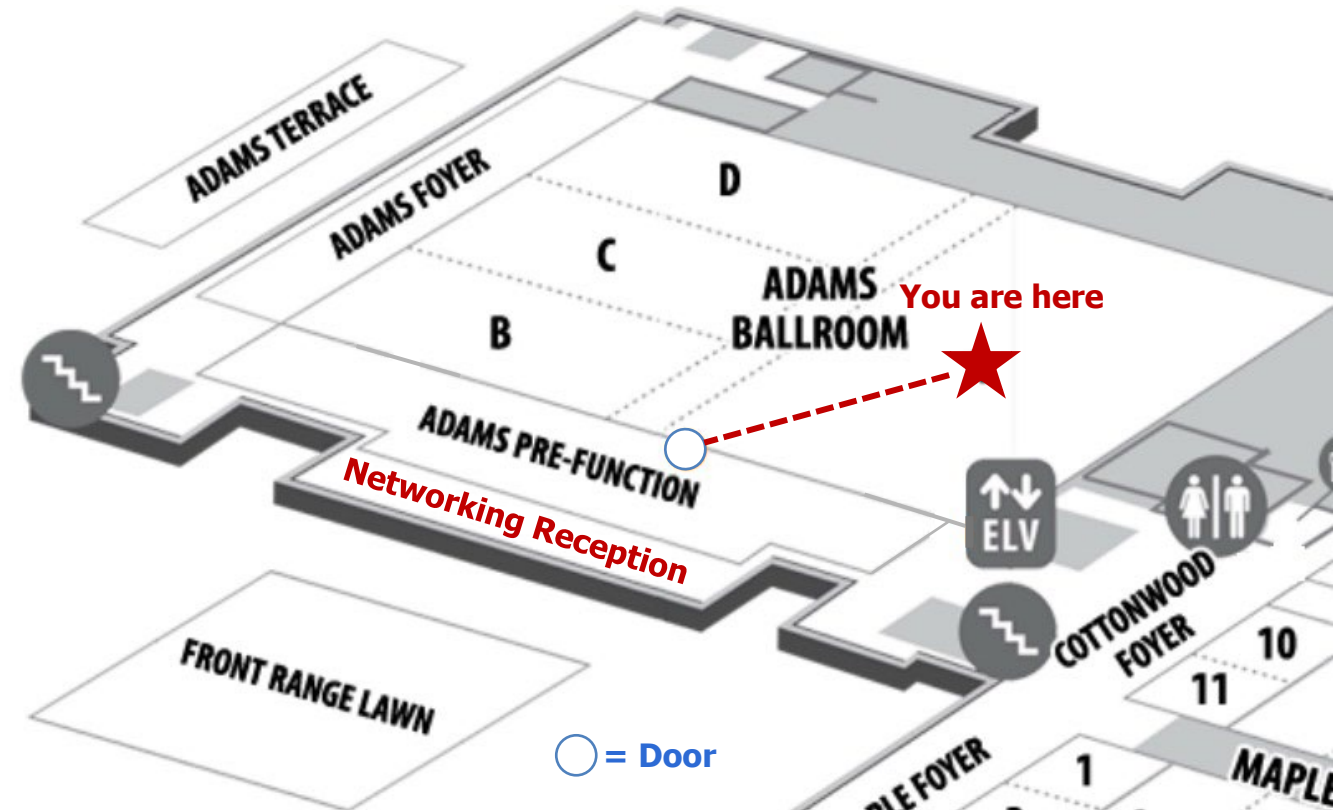






# Tonight's Networking Reception

- **Location:** Adams Terrace (Outside)
- **What:** Cash Bar & Light Appetizers
- **Time:** 5:00PM – 6:00PM



**ENJOY!**





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