

# Public + Private AV Data and Connectivity

5G Open Innovation Lab

Jim Brisimitzis – Founder & General Partner  
Scott Waller - Chief Technology Officer

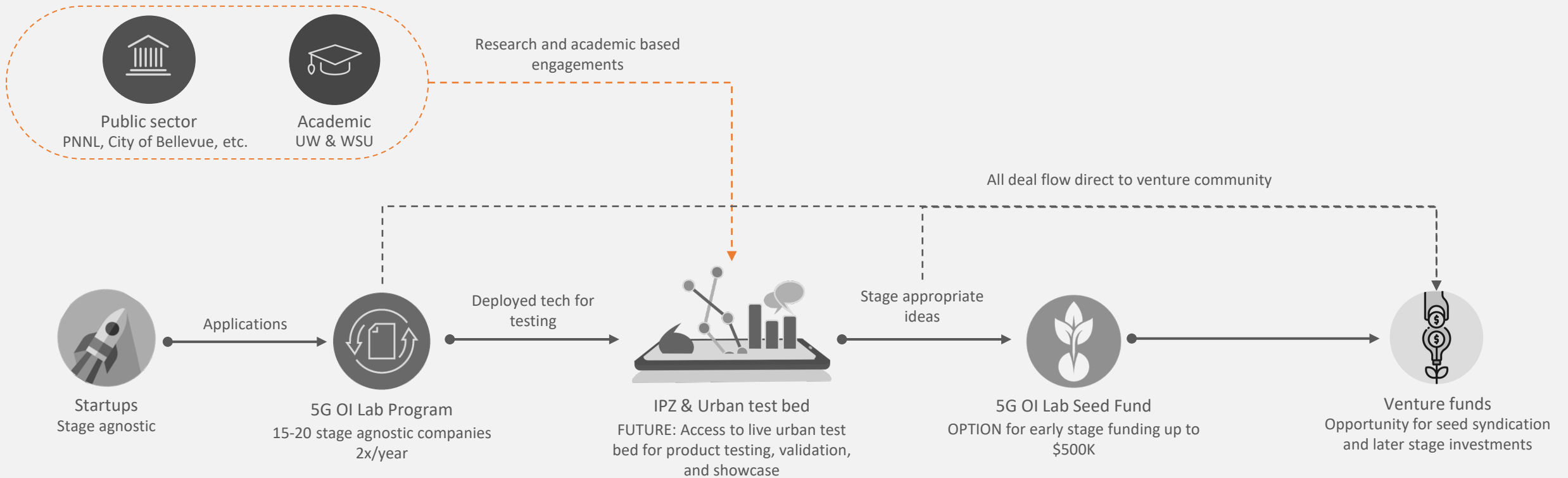


# 5G LAB FOUNDING & CORPORATE PARTNERS

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# INNOVATION CONTINUUM



- Stage agnostic
- Tech harnessing connectivity, edge, and AI capabilities
- Minimum MVP requirement

- Funded by industry platform sponsors
- No equity stage agnostic program
- Hands on engineering mentoring via platform partners
- Selective access to BD support thru platform partners
- Access to devices, 5G network, and professional network
- Timebound to 12 weeks
- Alumni support post graduation
- Governed by industry/advisory board

- Industry, government, and academic sponsors
- Access to extended tech support, 3 industry testbeds focused on transportation, manufacturing, and agriculture
- Administered by 5G OI Lab, UW, WSU & Pacific Northwest Lab (PNNL)

- Industry & VC sponsored
- \$10M fund focused on seed deals through the Lab
- Invests in only OI Lab opportunities.
- Syndication supported from fund LPs and other VCs
- Managed by 2 GPs and investor board
- Transparent process

# SHARING DATA BETWEEN STAKEHOLDERS



**#1**

## Private Sector

AV Companies  
CSP/Telcos  
Edge App Providers  
Public/Private Cloud  
Data Brokers

**#2**

## Local Government

City and County DOT  
Public Works/Utilities  
Public Safety

**#3**

## State and Federal Gov

State and Federal DOT  
Public Lands  
Public Safety (NHTSA, WSP)

**#4**

## Research

University or Public Agency  
Federal or State/Local Funded  
Federal/State (PNNL, DOT)  
Non-Profit

JURISDICTIONS - CAPABILITIES - CONNECTIVITY - PERSONAL PRIVACY - PUBLIC DISCLOSURE

# EXAMPLE – WILDFIRE SMOKE SENSORS



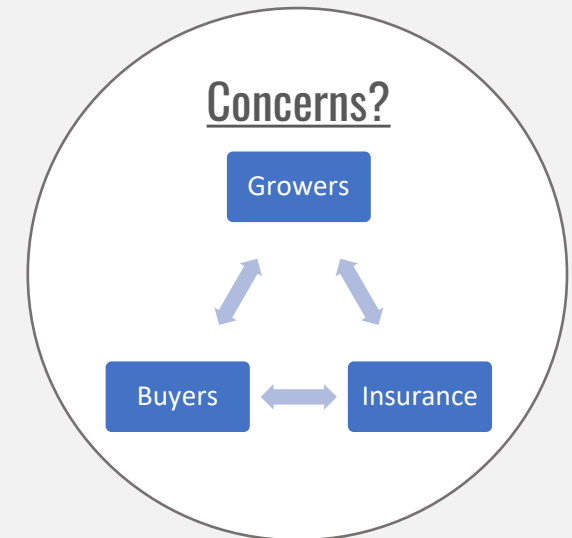
## Who Funded It?



## Who Wants It?



## Concerns?



RESEARCH - PUBLIC GOOD - INDUSTRY INNOVATION - PRIVACY & CONTRACT CHALLENGES





# RURAL CONNECTIVITY CHALLENGES

- **EASTERN WA - LACK OF HIGH-BANDWIDTH, LOW-LATENCY CONNECTIVITY**
  - Poor LTE connectivity
  - Wireless ISPs (WISP) fill home broadband only
  - LEO Satellite growing in popularity
  - Limited Fiber connectivity – Rural Broadband Initiative (Feds) will take years
  
- **AUTONOMOUS FARMING DRIVING A MASSIVE NEED**
  - Limited Connectivity has stalled all progress
  - Having to build “With whatever we can come up with at the lowest cost”
  - Precise pesticide/fertilizer application driving need
  - Western topology/geography creating challenges

