House Innovation, Technology, and Economic Development Committee

Pacific NorthWest Economic Region

January 21, 2020
Olympia, WA

2019 Economic Leadership Forum: Pacific Northwest Innovation

- Gov.Chris Gregoire & the Cascadia Innovation Corridor Partnership: Accelerating the PNW economy through innovation
- The emerging space cluster in the PNW: sector changes, workforce and transportation challenges
- Transportation of tomorrow: autonomous, connected, electric, and shared mobility (ACES)





2019 Economic Leadership Forum: Trade and Working Waterfront Tour

- Working waterfront, maritime innovation & interconnected industries, the economic benefit of the waterfront



- Trade: US, Canada and Mexico trade relationships: USMCA, tariffs impacts to the region, the trade war with China



"Why experts say the Pacific Northwest is a 'perfect laboratory' for autonomous technology" - Geekwire

- www.geekwire.com/2019/experts-say-pacific-northwest-perfect-laboratory-autonomous-technology/

- PNWER/ACES serves on Exec. Committee for State AV Group (as does Rep. Hudgins)

- Session at the Seattle PNWER Economic Leadership Forum: Autonomous Connected Electric Shared (ACES) Mobility and the Power of 5G
  - Madrona Venture Group (Seattle)
  - Microsoft
  - Verizon
  - INRIX (Kirkland)
  - Urbanova/WSU Spokane

Unmanned Aerial Systems (UAS) Projects

- PNWER and Center for Disaster Resilience (CRDR) awarded DHS National Infrastructure Protection Plan (NIPP) Security and Resilience Challenge grants for critical infrastructure in 2017 and 2019.
- 2017 Project
  - Focused on using drones for rapid damage assessment of critical infrastructure. Partnered with Northeastern University to develop and test new technologies for drones.
- 2019 Project
  - Expanded on 2017 project. Focused on using drones for rapid inspection of critical infrastructures to establish better situational awareness and common operating picture post-disaster.
  - Worked with ID, MT, OR, & WA assessing each state's public and private sector use of drones and opportunities to collaborate and better coordinate public-private sector drone use
  - Conducted drill on using drones for damage inspection, with WA National Guard, Olympic Pipeline, and WA state emergency managers simulating a disaster and how to share live video feed and photos to EOC.





Outcomes and Key Recommendations

1) Establish a statewide UAS Coordinator position to help state & local agencies and private sector stakeholders collaborate on policy and UAS use

- No PNWER state currently has a UAS coordinator. Idaho currently has a bill to fund a new position to help state agencies coordinate with local government and private sector stakeholders on UAS policy and use.

2) Develop a standardized process for using drones for situational awareness of critical infrastructures for emergency managers and operations centers during disasters.

3) Create UAS users groups in states and the region that includes both public and private sector drone users





Update on Oregon Legislative Session



Senator Arnie Roblan, Oregon District 5 - Coos Bay

Past PNWER President, 2017-18

Catalyzing the Growth of Innovation Clusters in the Pacific Northwest

A research collaboration between PNWER, Moonbeam, and the University of Washington's Jackson School



Pacific NorthWest Economic Region

JACKSON SCHOOL OF INTERNATIONAL STUDIES
UNIVERSITY of WASHINGTON

moonbeam

January 2020

Seattle is a global innovation leader

But does this translate to growth across the whole state?



Are there key capabilities that can unlock growth here, across the state, and propel clusters in the region?

WA is an extremely efficient innovation ecosystem

Washington State ranks:

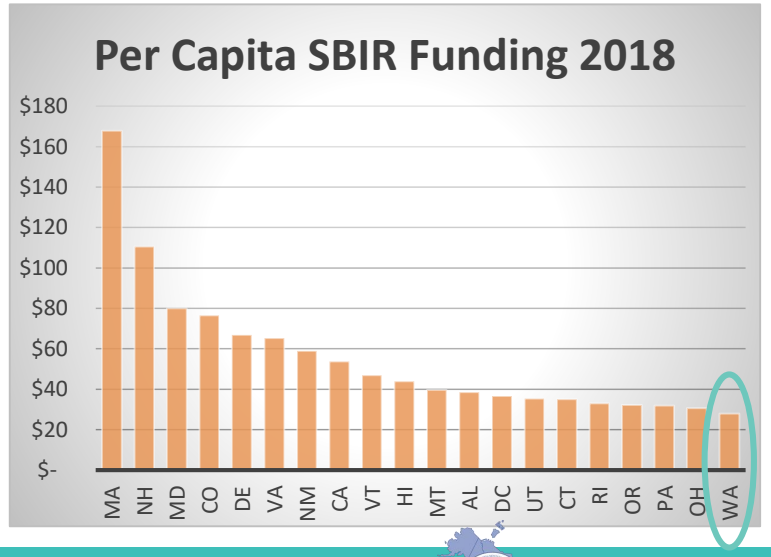
- #14 in Population & SBIR Obligation, but #20 in SBIR funding per capita (Census & SBIR.gov)
- #27 in Federal Immersive funding in 2018, but home to nearly every major player (Ratio Exchange and Moonbeam Exchange Study)
- #2 in Corporate Innovation, but #10 in Venture Funding (US News 2019 & Moonbeam Exchange study 2019)

Artificial Intelligence/Data Science

NVIDIA, Mighty AI, Microsoft, tableau, ORBBEC, amazon, ALLEN INSTITUTE for ARTIFICIAL INTELLIGENCE, textio

Immersive Technology

VIVE, VALVE, Microsoft, amazon, magic leap, NVIDIA, Google, Oculus



	Moonbeam U.S. Innovation Index Value	
1	San Francisco	100.00
2	**Seattle**	**67.35**
3	Austin	64.95
4	Boston	57.87
5	Raleigh	57.84
6	Chicago	54.57
7	Los Angeles	54.07
8	Salt Lake City	48.92
9	Houston	46.20
10	Denver	45.25
11	Pittsburgh	45.18
12	Washington, DC	42.38
13	Minneapolis	41.35
14	Phoenix	37.31
15	Dallas	36.64

Our research identified the following opportunities

- Establish connections with rural innovators in Tri-Cities, Spokane, and Coastal WA with emerging regional clusters
- Embrace the Cascadia Innovation Corridor to grow adjacent population centers
- Leverage AI, Cloud, and XR expertise in Seattle to support emerging tech sectors in Alaska, Portland, and Calgary



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PACIFIC NORTHWEST ECONOMIC REGION'S
30TH ANNUAL SUMMIT
BIG SKY, MONTANA | JULY 19 -23, 2020
Promoting U.S. - Canada
Regional Collaboration

Questions

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