

---

# Advancing Entrepreneurship, Innovation and Technology Transfer

**Sethuraman “Panch” Panchanathan**

*Executive Vice President and Chief Research and Innovation Officer*

**ASU Knowledge Enterprise Development**

September 8, 2017



ASU is a **comprehensive public research university**

research

entrepreneurship

discover

**Creating a  
culture of  
Innovation**

innovation

commercialization

We reimagined a number of existing structures to drive a culture of innovation and created a mindset of perpetual innovation on all fronts



**2005-2015 Cumulative Percent Change in Total Research Expenditures for Institutions without a Medical School**



# National Rankings

---

Total Research Expenditures: **49** of **876** ahead of



---

Total Research Expenditures among Institutions without a Medical School:  
**10** of **724** ahead of



---

Non-Medical School Expenditures: **27** of **876** ahead of

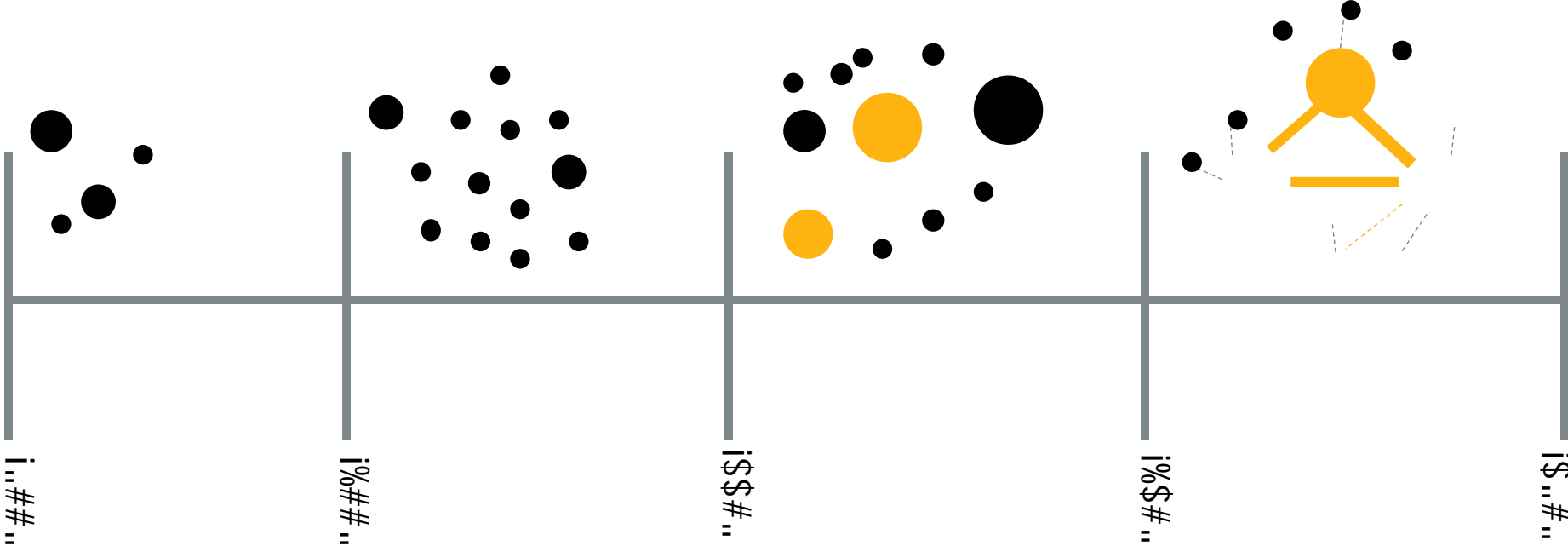






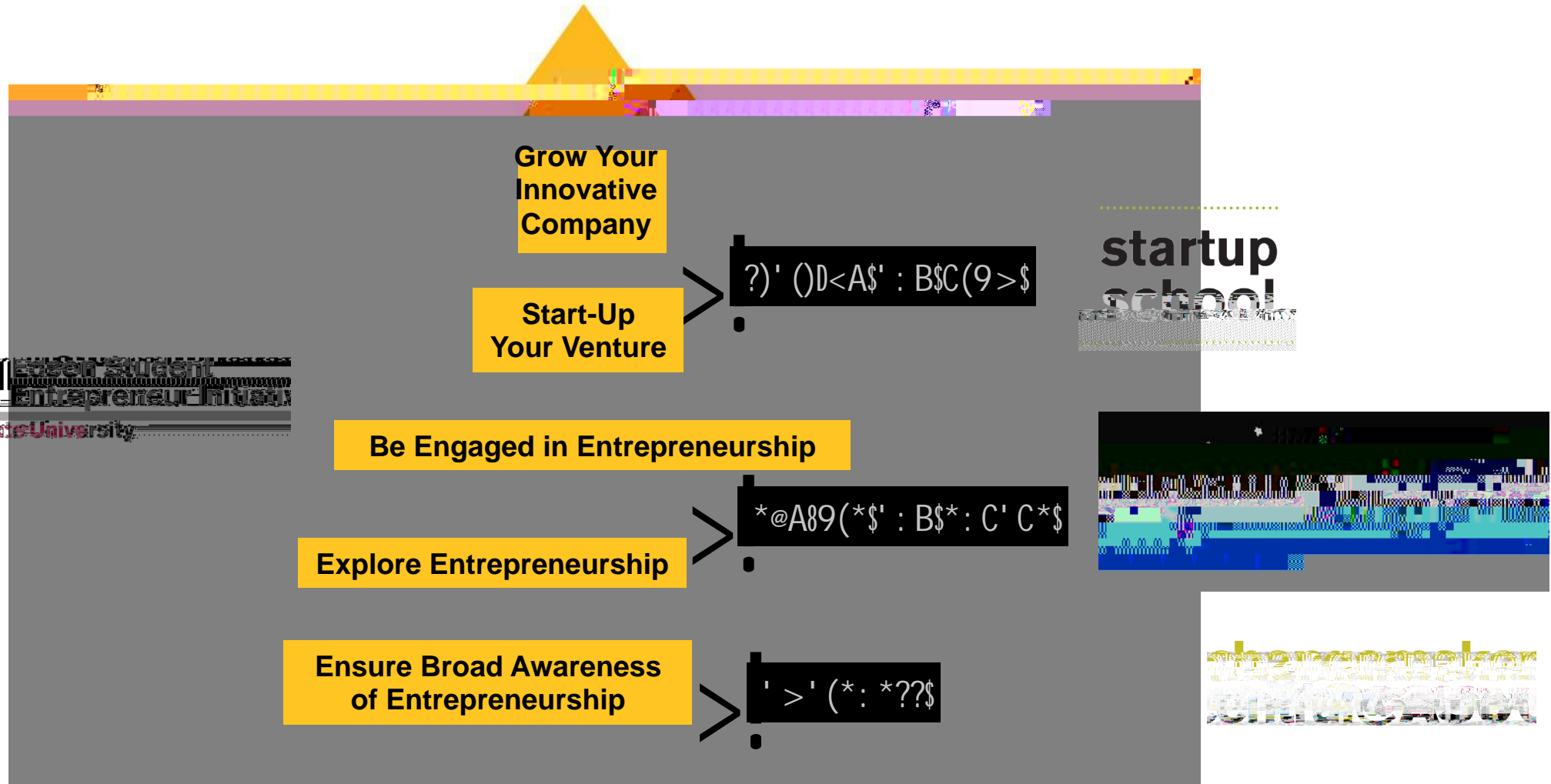
# Evolution of Entrepreneurship @ ASU

---



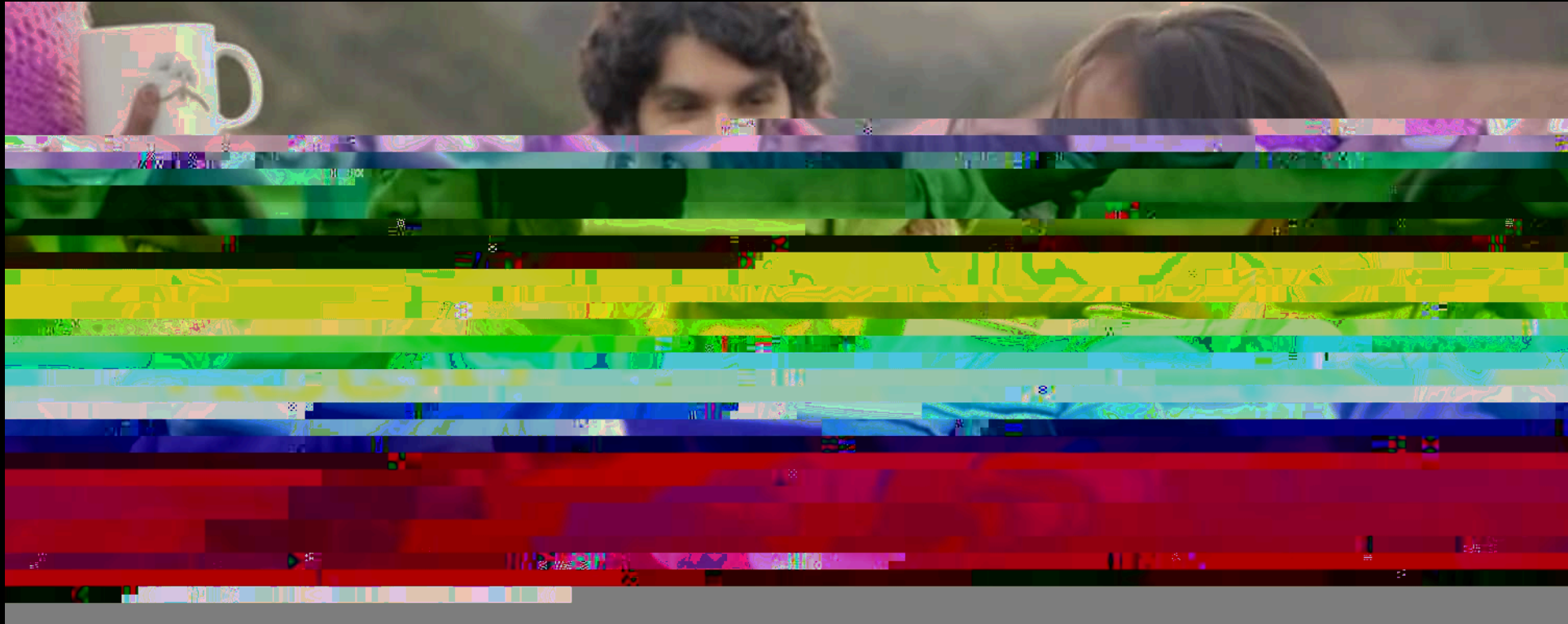


# Building a Culture of Entrepreneurship



# Student Entrepreneurial Pride

---



# Faculty Entrepreneurial Efforts

---

## **Cody Friesen: Fluidic Energy™, co-founder**

- Sustainable energy storage solutions
- \$150+ million in funding from strategic, venture and government sources
- Over \$10M in ARPA-E grants
- IFC investment of \$7M

## **Zero Mass Water / Zero Mass Labs**

- Produce potable water using solar energy
- Water supplies could be produced locally & affordably
- Pilot projects in developing countries with scarce water resources

## SkySong

70+ companies, a majority of which are in IT, Ed Tech and Healthcare

## Student Entrepreneurs

300+ startups  
1,200+ students

## Faculty Entrepreneurs

100 startups based on ASU faculty IP with over \$600+ million in venture funding.

## Technology Transfer in the last decade

2,500 invention disclosures  
400+ U.S. patents  
More than \$35 million in license and options income

## ASU Innovation Campuses:



Research Park

Polytechnic campus

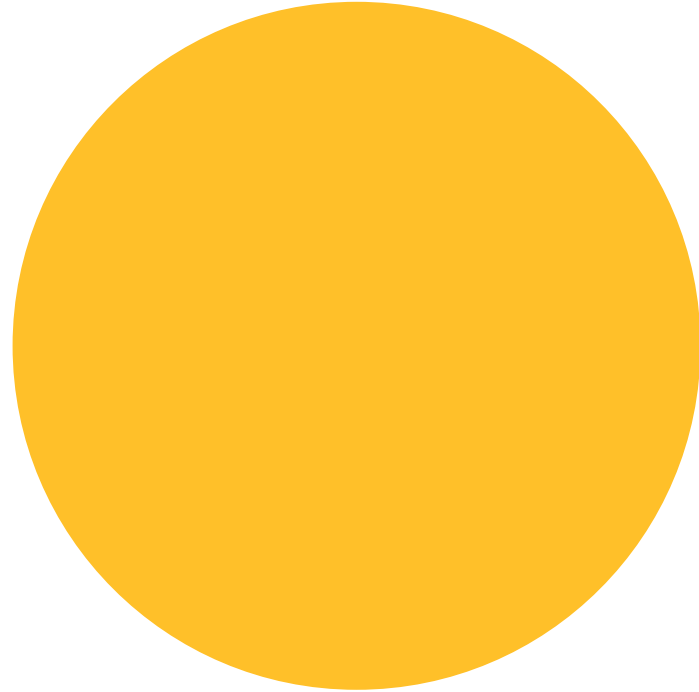


Stadium District



# Entrepreneurship Ecosystem Partners

---



# Community Collaboration

---

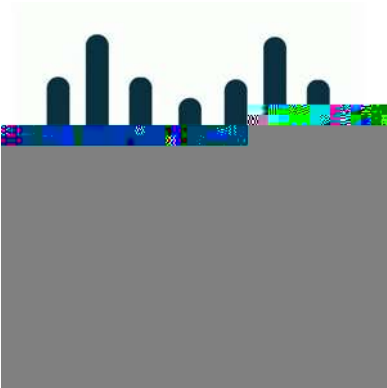
- ASU **partners** with community-based local and regional organizations
- Partnerships include delivering programming, referring resources, and **promoting Phoenix-wide initiatives**
- Partners like Ashoka, include ASU in national networks of practice

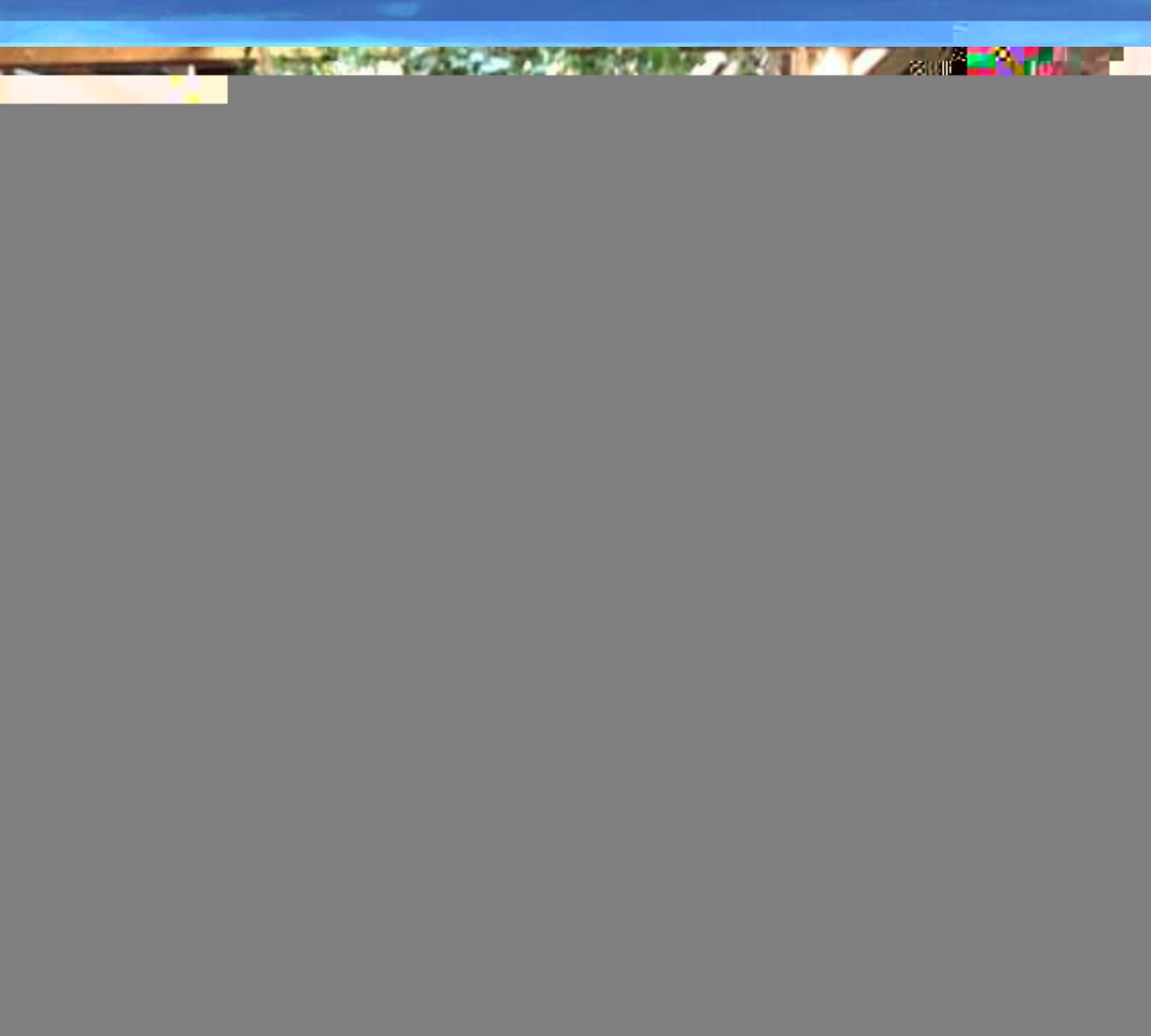


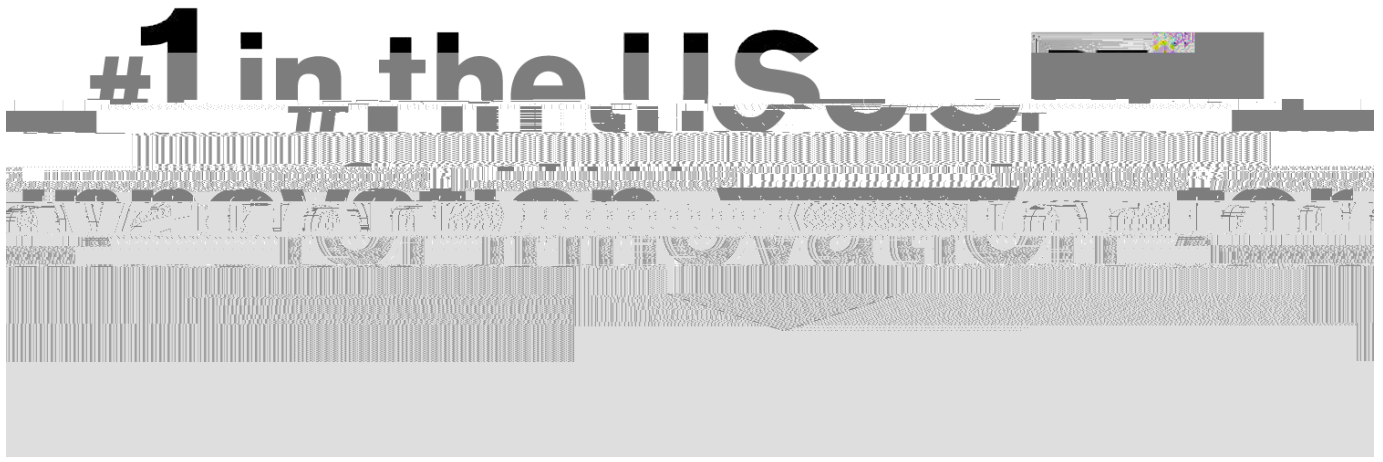


# Major Funders

---

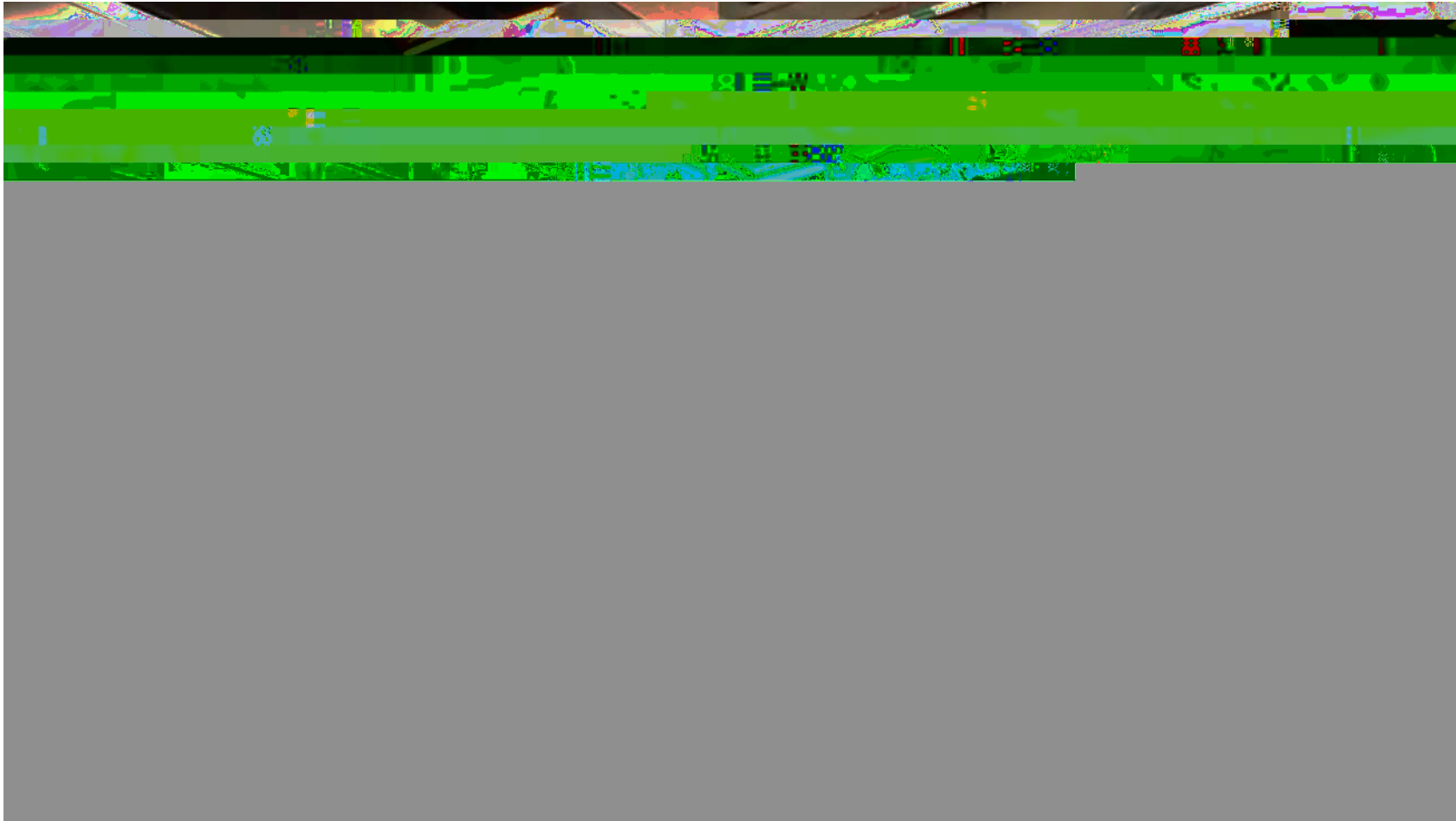






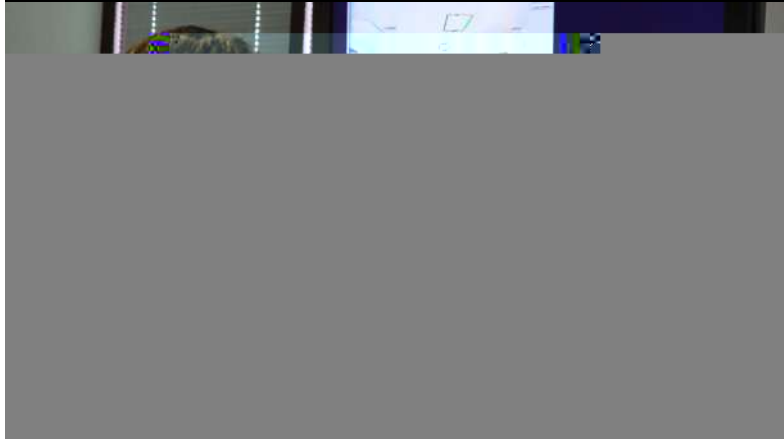
# ASU Hackathon

---



# Luminosity: A Platform for Leading-edge Student Projects

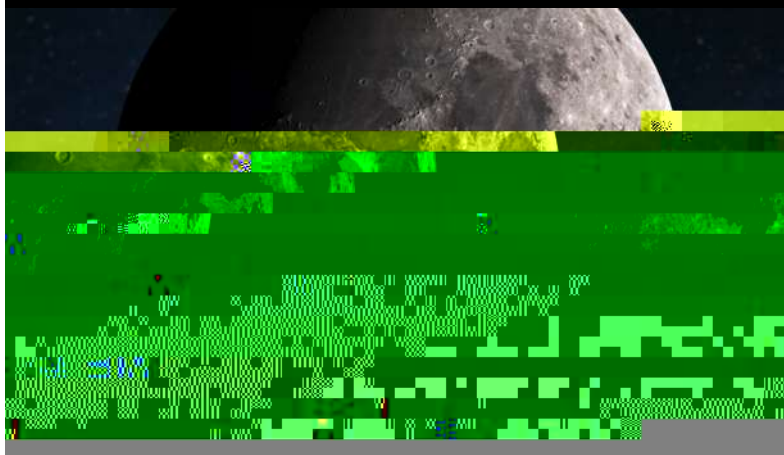
**AI driven glasses for the blind**



**Safety escort Drone prototype**



**Lab2Moon**

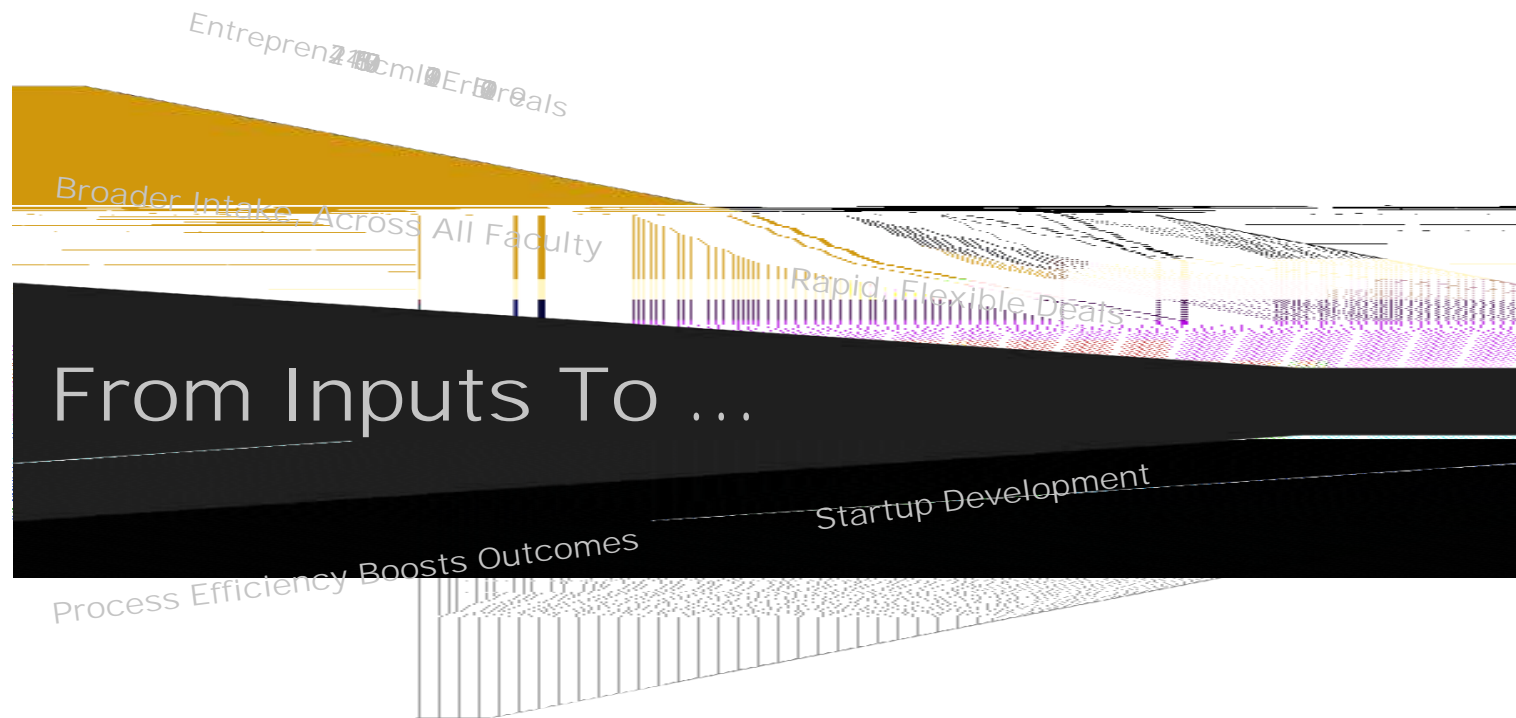


**Atlas**



# Tech Transfer Growth Model

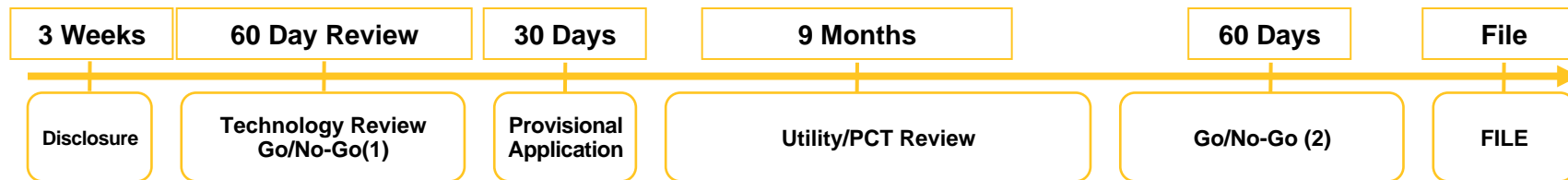
---



# Inventor Touch Points

---

## Patent Prosecution



## Buy Review

# Five Years of AUTM Rankings

- AzTE / ASU rankings per \$10M in research expenditures among all institutions with more than \$300M in expenditures (n=~70)

	FY10				

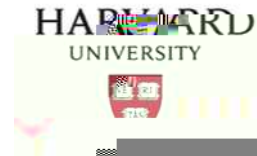


# ASU #21 in Tech Transfer Rankings

Research universities are one of the strongest assets  
America can use to compete in the age of innovation.



ahead of



---

# Thank you

