Advancing Entrepreneurship, Innovation and Technology Transfer

Sethuraman "Panch" Panchanathan

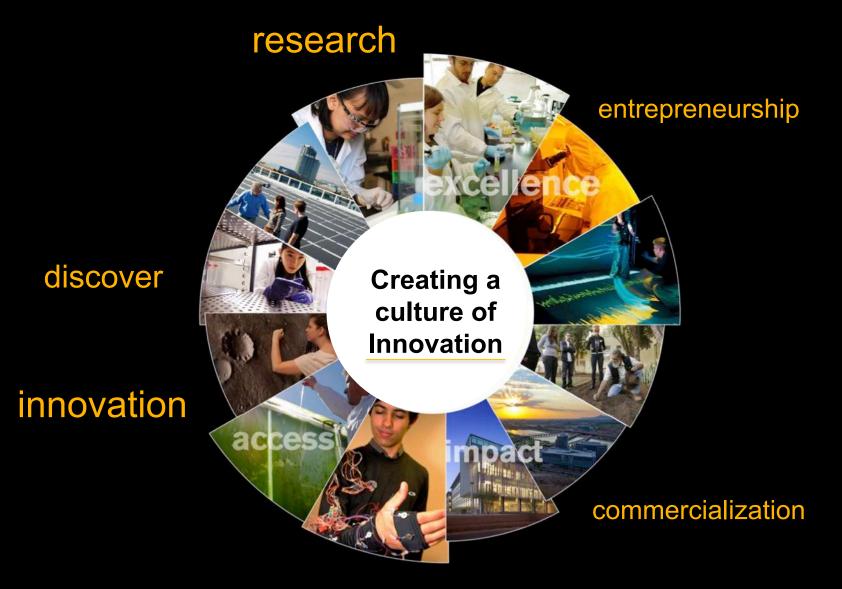
Executive Vice President and Chief Research and Innovation Officer

ASU Knowledge Enterprise Development



ASU Charter

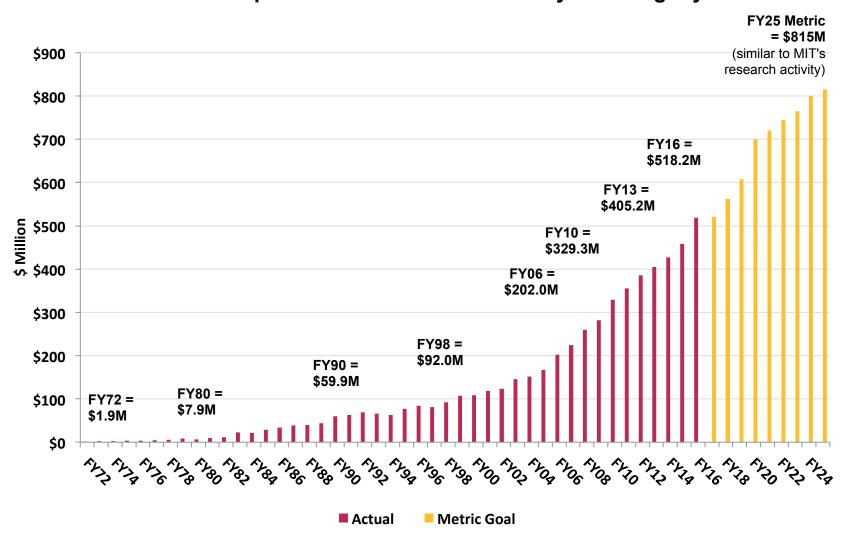
ASU is a comprehensive public research university, measured not by whom it excludes, but by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural, and overall health of the communities it serves.



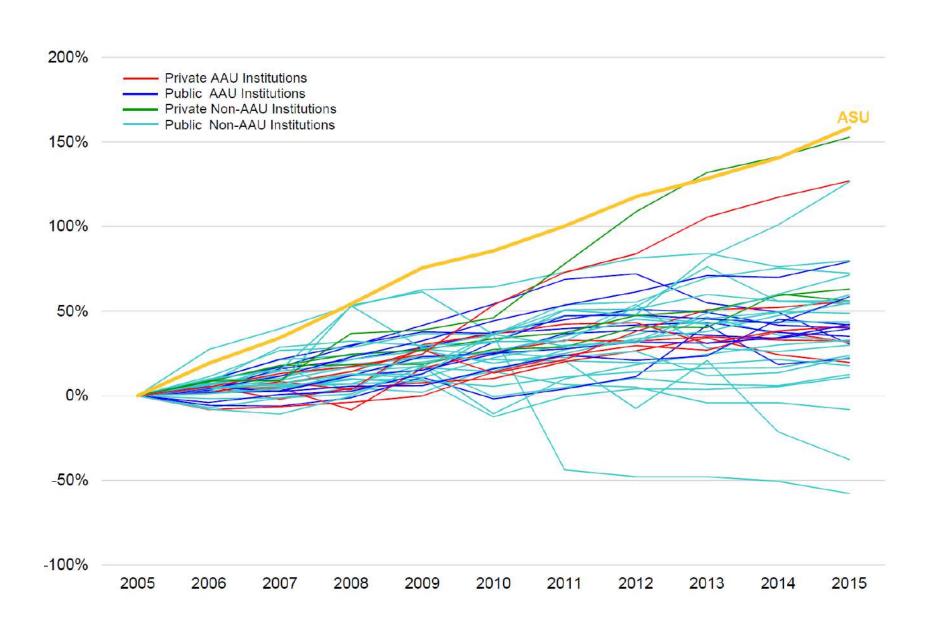
We reimagined a number of existing structures to drive a culture of innovation and created a mindset of perpetual innovation on all fronts

Enhanced Research Competitiveness

Research expenditures have doubled every six to eight years



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 Caltech





PRINCETON UNIVERSITY Carnegie Mellon University

Non-Medical School Expenditures: 27 of 876 ahead of







National Rankings

Social Sciences: 5th ahead of









Humanities: 12th ahead of









Earth Sciences: 3rd ahead of









National Rankings

HHS (including NIH) Funded Expenditures among Institutions without a Medical School: 10 of 409 ahead of





Carnegie Mellon University

NSF Funded Expenditures: 25 of 586 ahead of









DOE Funded Expenditures: 24 of 366 ahead of

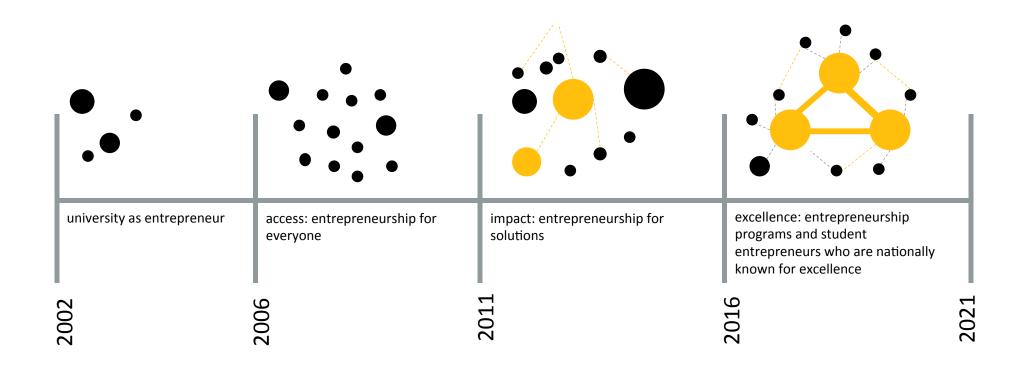






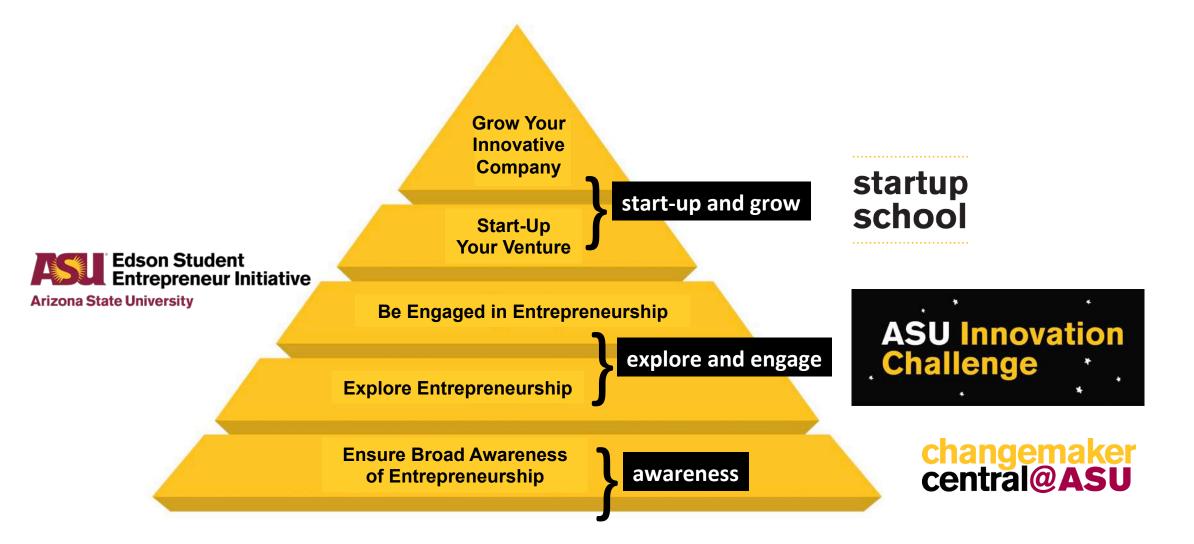


Evolution of Entrepreneurship @ ASU



ENTREPRENEURIAL Mindel SUN DEVILS

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





100,000,000

Vision 2025: Changing Lives

The Fluidic Energy team has rallied around the ambitious goal of delivering electricity to more than 100 million people by 2025. Follow our progress.

4,035,000 TODAY

ASU's Entrepreneurial Engine is Vibrant



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 disclosures400+ U.S. patentsMore than \$35 million in license and options income

ASU Innovation Campuses:



Research Park

Polytechnic campus

Stadium District

West Campus

Thunderbird

AZ Health Solutions Corridor

Entrepreneurship Ecosystem Partners













 Partnerships include delivering programming, referring resources, and promoting Phoenix-wide initiatives



 Partners like Ashoka, include ASU in national networks of practice







Major Funders

Ewing Marion

KAUFFMAN Foundation















NeoLight



SESTEST ROAD TRIPROAD TRIVE CASE

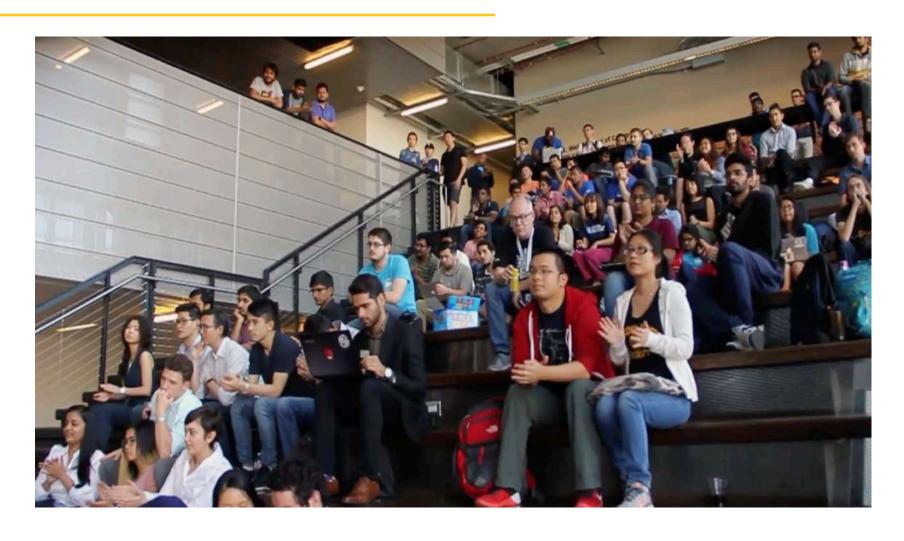
"one of the most radical redesigns in higher learning..."







ASU Hackathon

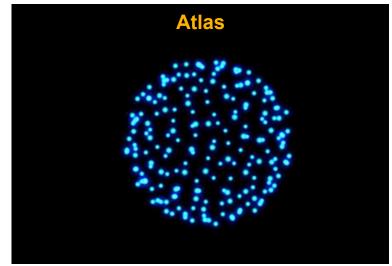


Luminosity: A Platform for Leading-edge Student Projects

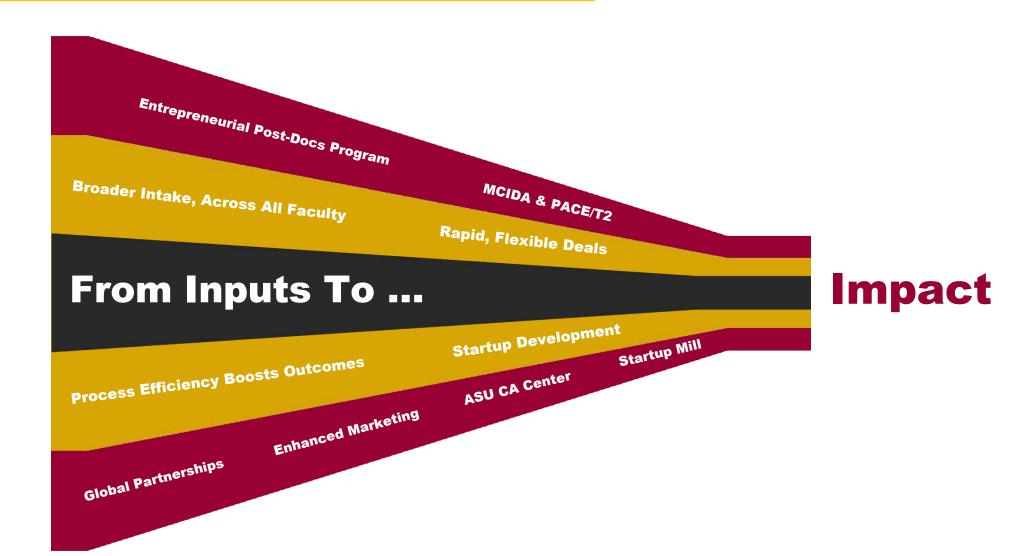






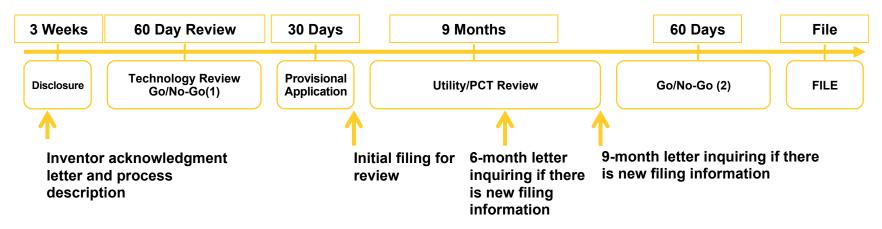


Tech Transfer Growth Model

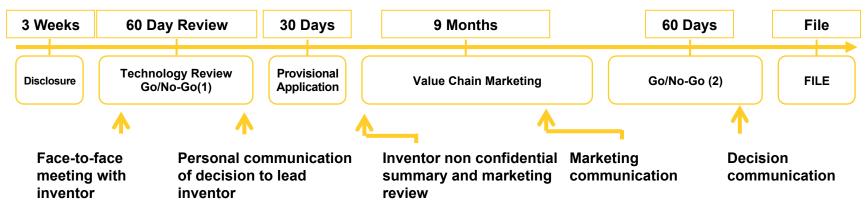


Inventor Touch Points

Patent Prosecution



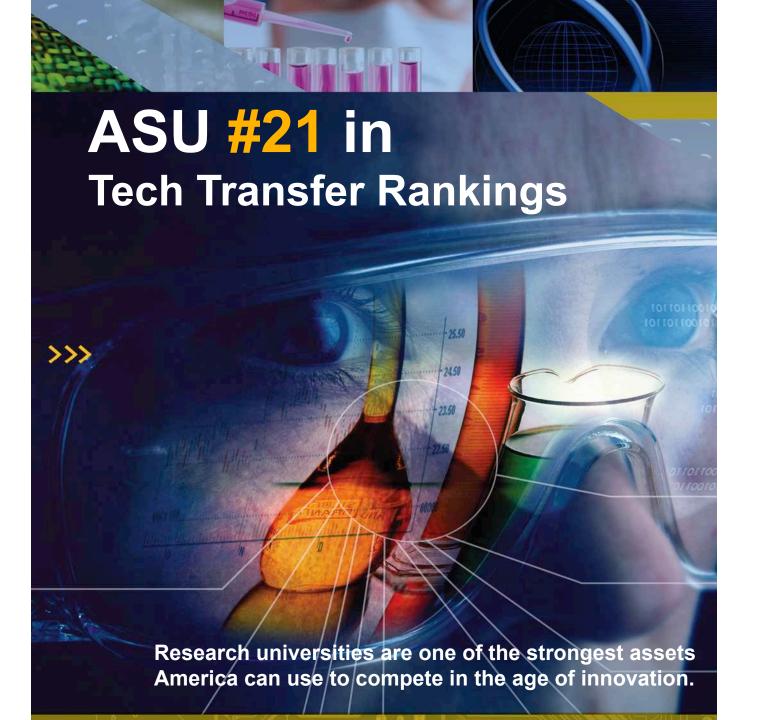
Business Development



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	FY11	FY12	FY13	FY14
Licenses & Options	7 th	5 th	6 th	8 th	8 th
Startups	20 th	2 nd	5 th	7 th	5 th
Invention Disclosures	6 th	9 th	6 th	3 rd	5 th
Issued Patents	46 th	41 st	34 th	12 th	14 th





ahead of











Thank you



