
Arizona State University: The Knowledge Enterprise

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ASU Knowledge Enterprise Development*

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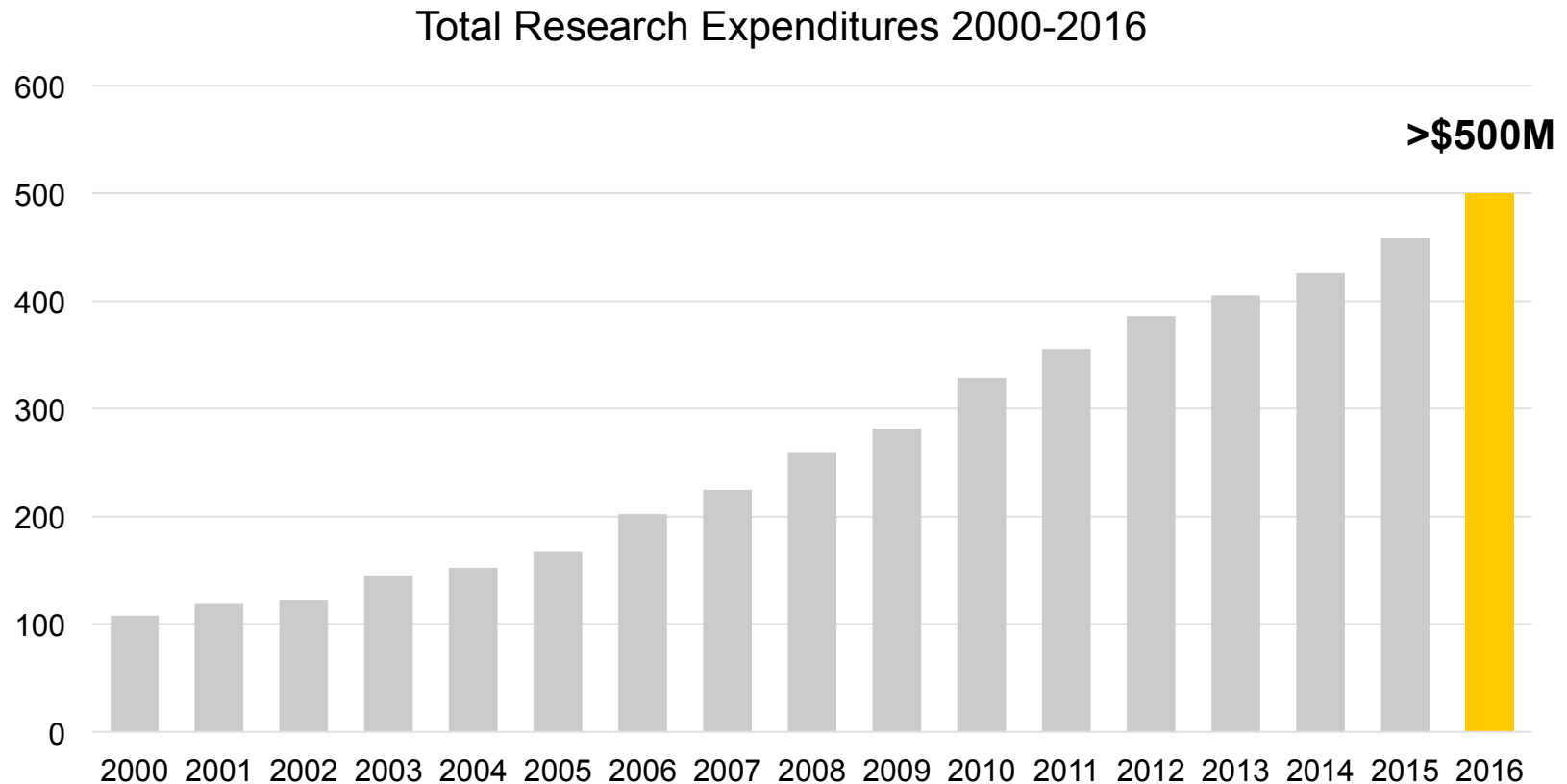


#1 in the U.S. for innovation

#1 ASU #2 Stanford #3 MIT

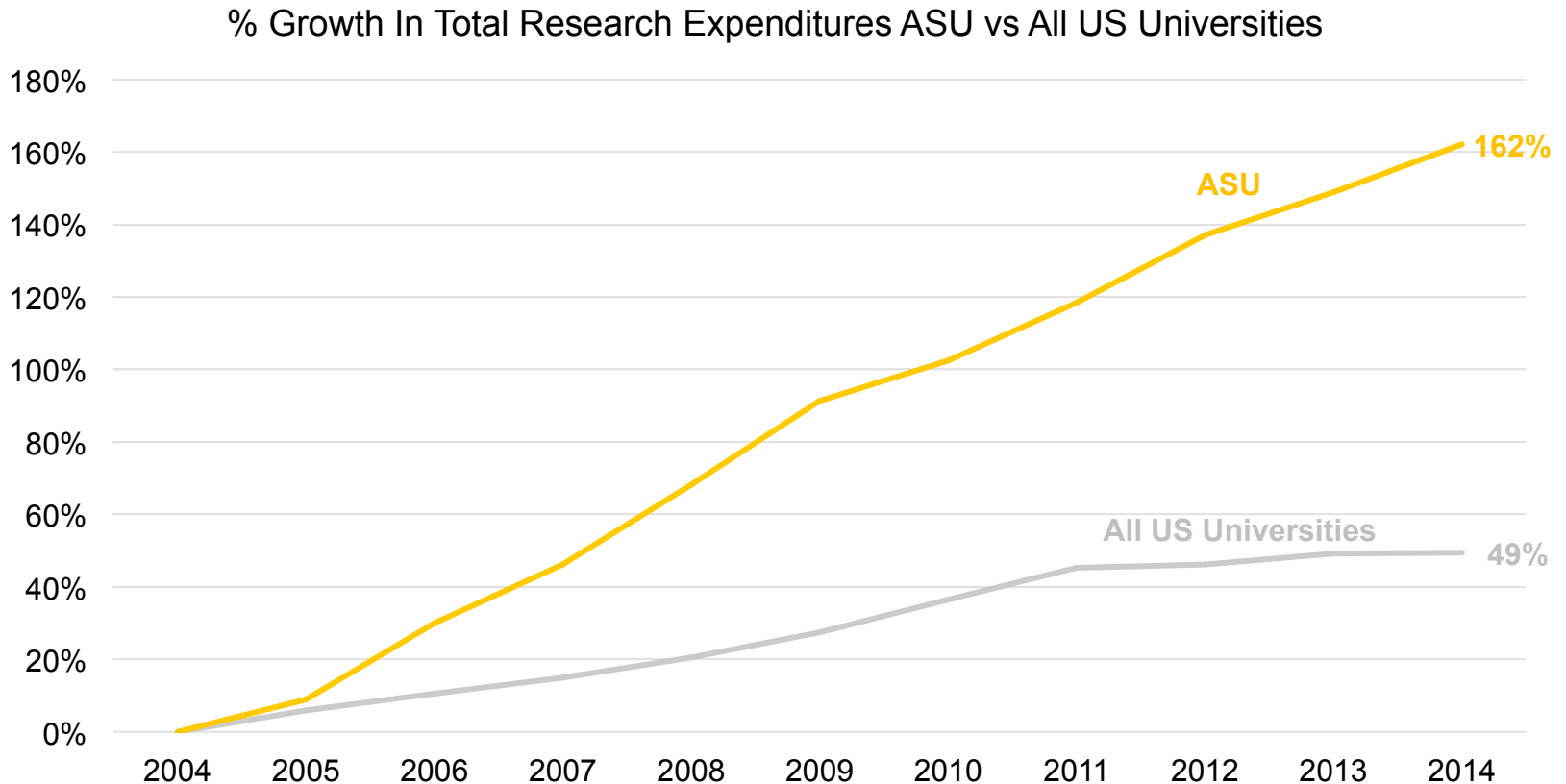
- U.S. News & World Report, 2016 and 2017

Research Growth



ASU's growth in Total Research Expenditures is more than triple that of all US Universities

Research Growth



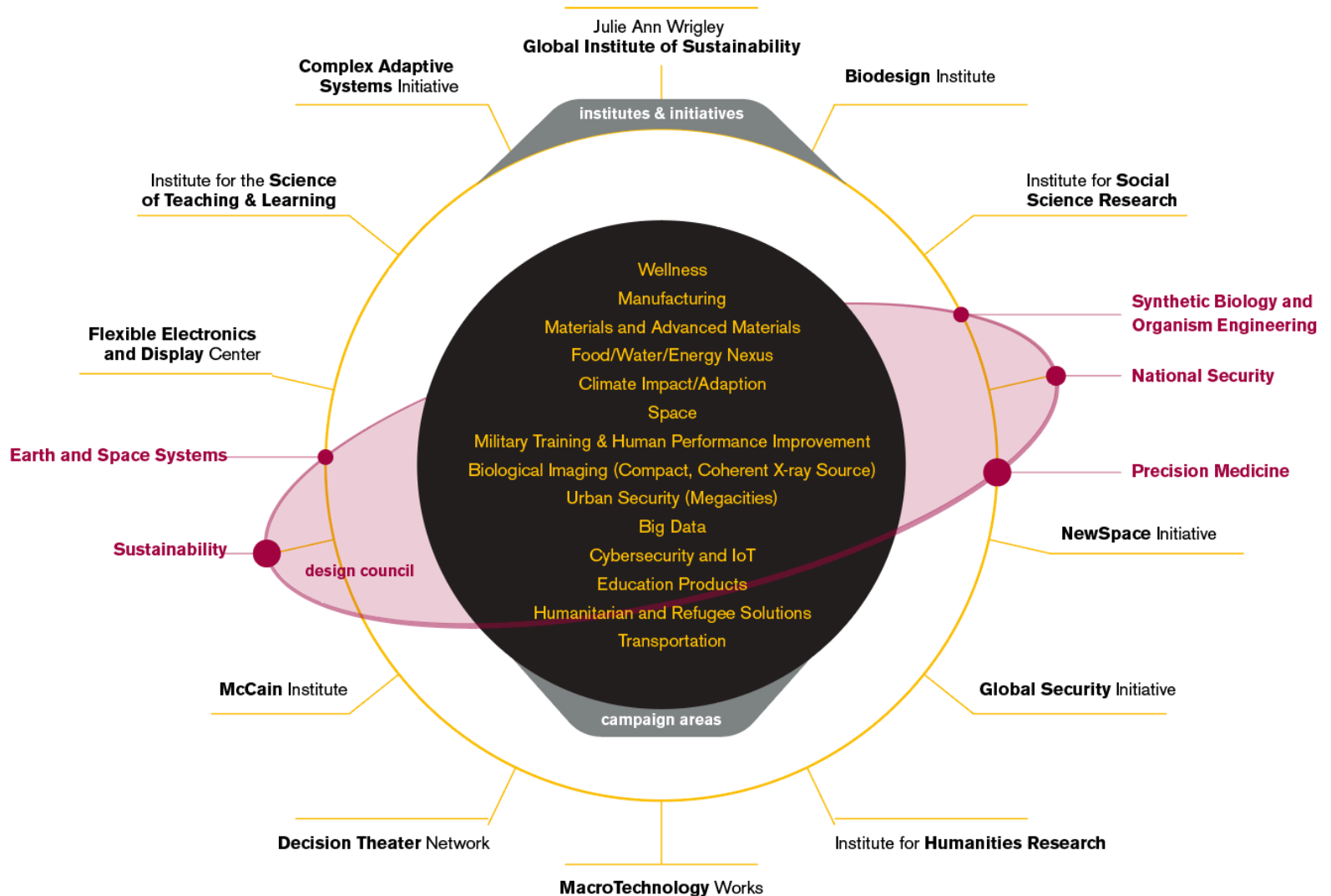
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Innovation across all disciplines and platforms

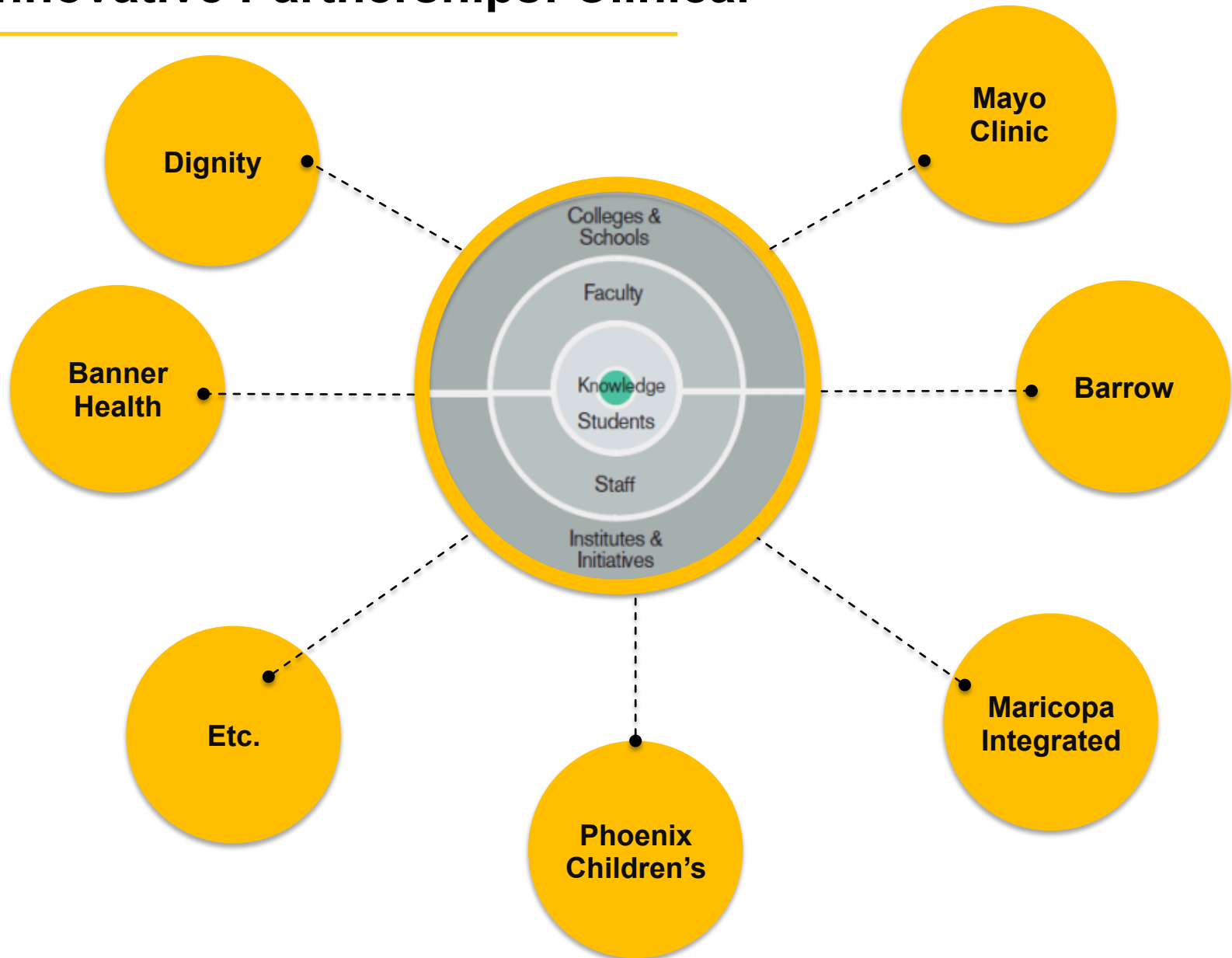


We reimagined a number of existing structures to drive a culture of innovation and created a mindset of perpetual innovation on all fronts

Big Idea Generation



Innovative Partnerships: Clinical



Innovative Programs: School for the Future of Innovation in Society



Planning now for the kind of futures we want.

What knowledge needs to be produced for human betterment?

Can nanotechnology, synthetic biology, geoengineering and artificial intelligence be developed and governed responsibly?
Should they be?

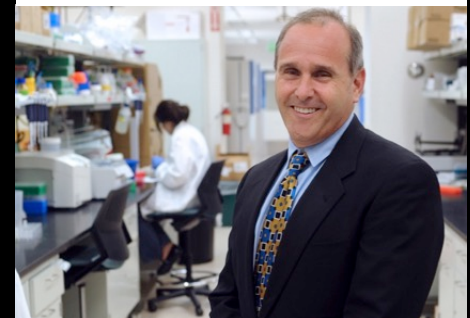
Innovative Research: Biodesign Institute



For advancing human health, national security and sustainability



 **HealthTell™**



Translating Research into Impact

Impact on Technology

**Kentucky
BioProcessing**

Breezing

Roche

**Provista
Diagnostics**



Economic Impact

\$291 million

AZ annual direct impact

3,165 AZ jobs
added yearly

\$24.1 million

Annual state and
local tax revenues

Growth

18 startup companies and
licensed technologies

640 inventions

74 patents

101 diseases under study
including **20** types of cancer

14 research centers

Biodesign: Expansion

- **ASU-Banner Neurodegenerative Disease Research Center:** *Assembling the world's largest team of neurodegenerative disease researchers.*
- **Biodesign Center for Applied and Fundamental Microbiomics:** *Advancing our understanding of microbiomes to aid in the development of practical applications for health care, food production and environmental restoration.*
- **Biodesign Center for Immunotherapy, Vaccines and Virotherapy:** *Addressing the looming crisis in antibiotic resistance and infectious disease.*
- **Biodesign Center for Applied Structural Discovery:** *Moving fully into drug discovery with the world's first compact XFEL*



Biodesign: Next Phase



Biodesign C

Designed to leverage the university's investment to maximize the opportunities for research growth

Campus: Tempe

Sq. Ft.: 188,000

Total cost: \$120,000,000

Open: June 2018

Into the Future....

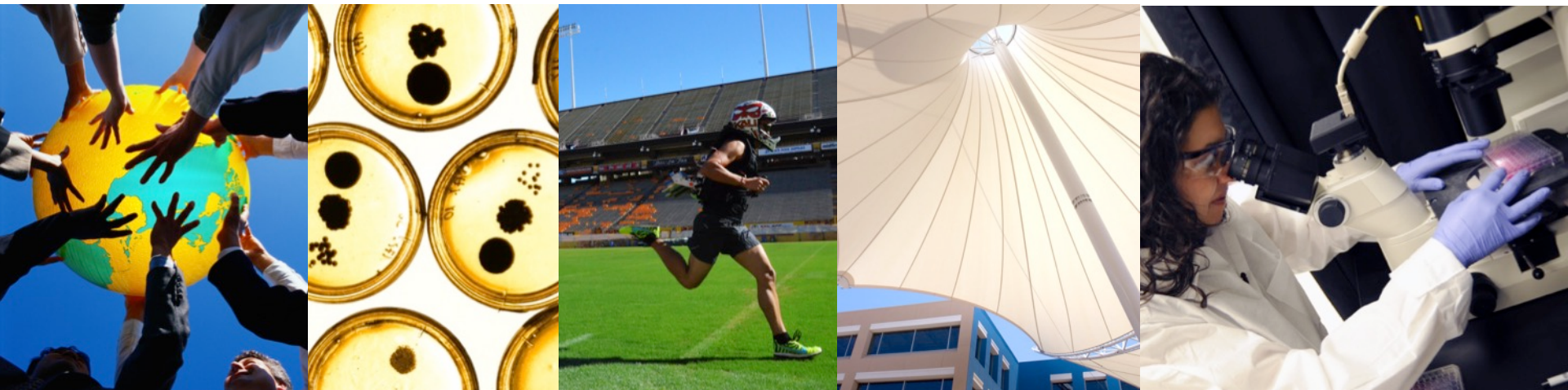
The type of innovation that will revolutionize the future of education is not a tool, technique or device.

Real, meaningful disruptive innovation will come from **collaboration**.

We need your **ideas, engagement and advocacy** to help our students and Arizona to succeed.



Thank you



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