

The Biosciences

Advancing Arizona's economy
and health in the 21st century

Joan Koerber-Walker

President and CEO

AZBio, The Arizona Bioindustry Association



Arizona Biosciences

Over 96,000 jobs



Arizona Biosciences

\$55,353 average wage



Arizona Biosciences

Jobs growing 3x faster than nation



Arizona Biosciences

Continued job growth
during recession



Arizona Biosciences

All-time highs reached in NIH grants, R&D expenditures



Arizona Biosciences

\$28.8 billion generated
in annual revenues



Arizona Biosciences

Latest healthcare innovations
available to Arizonans



What are the Biosciences?

Agriculture feedstock & chemicals



Drugs & pharmaceuticals



Medical devices & equipment



Hospitals



Research, testing & medical labs



Why Biosciences?

High-paying jobs

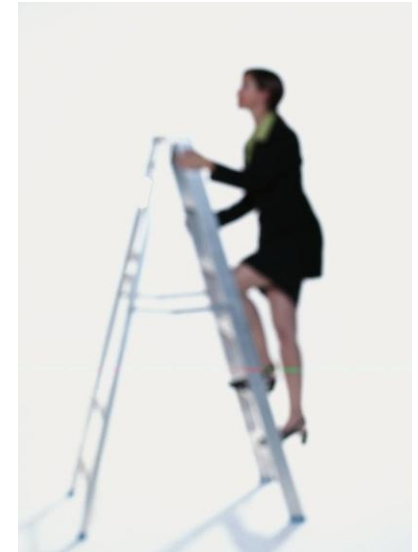


Fast-growing sustainable industry

Jobs across skill levels

Economic diversification

Improved health, quality of life



ARIZONA BIOINDUSTRY ASSOCIATION



Why Biosciences?

1 in 2.5 will develop cancer

1 in 2.5 will develop heart disease

1 in 3 will develop diabetes

1 in 8 will develop Alzheimer's

1 in 110 children is affected by autism



Source: Alzheimer's Association, American Cancer Society,
American Heart Association, Centers for Disease Control

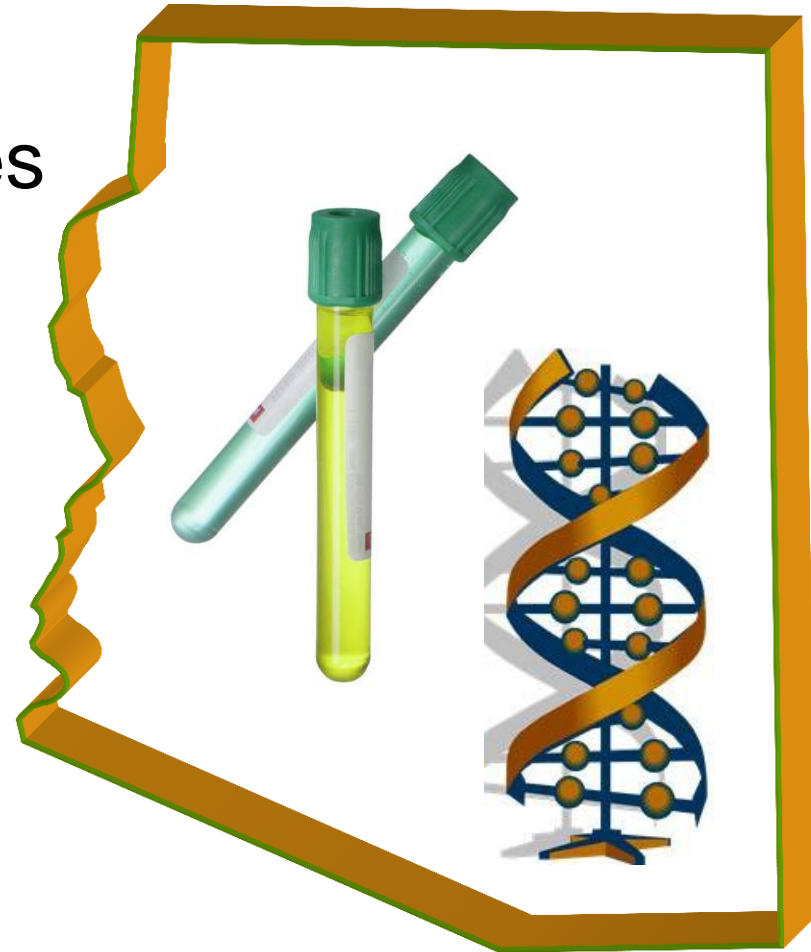
Why Arizona?

World-class talent, facilities

Internationally recognized
research strengths

“Collaborative gene”

Long-term strategic plan



Arizona's Bioscience Roadmap

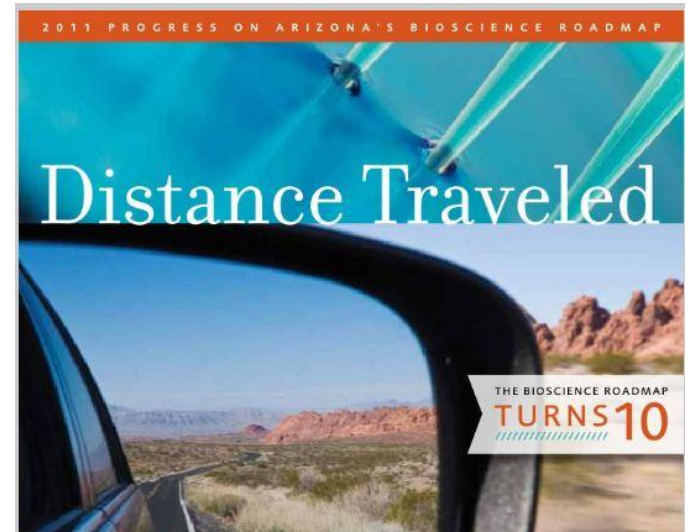
10-year plan launched in Dec. 2002

Commissioned by Flinn Foundation

Research by Battelle

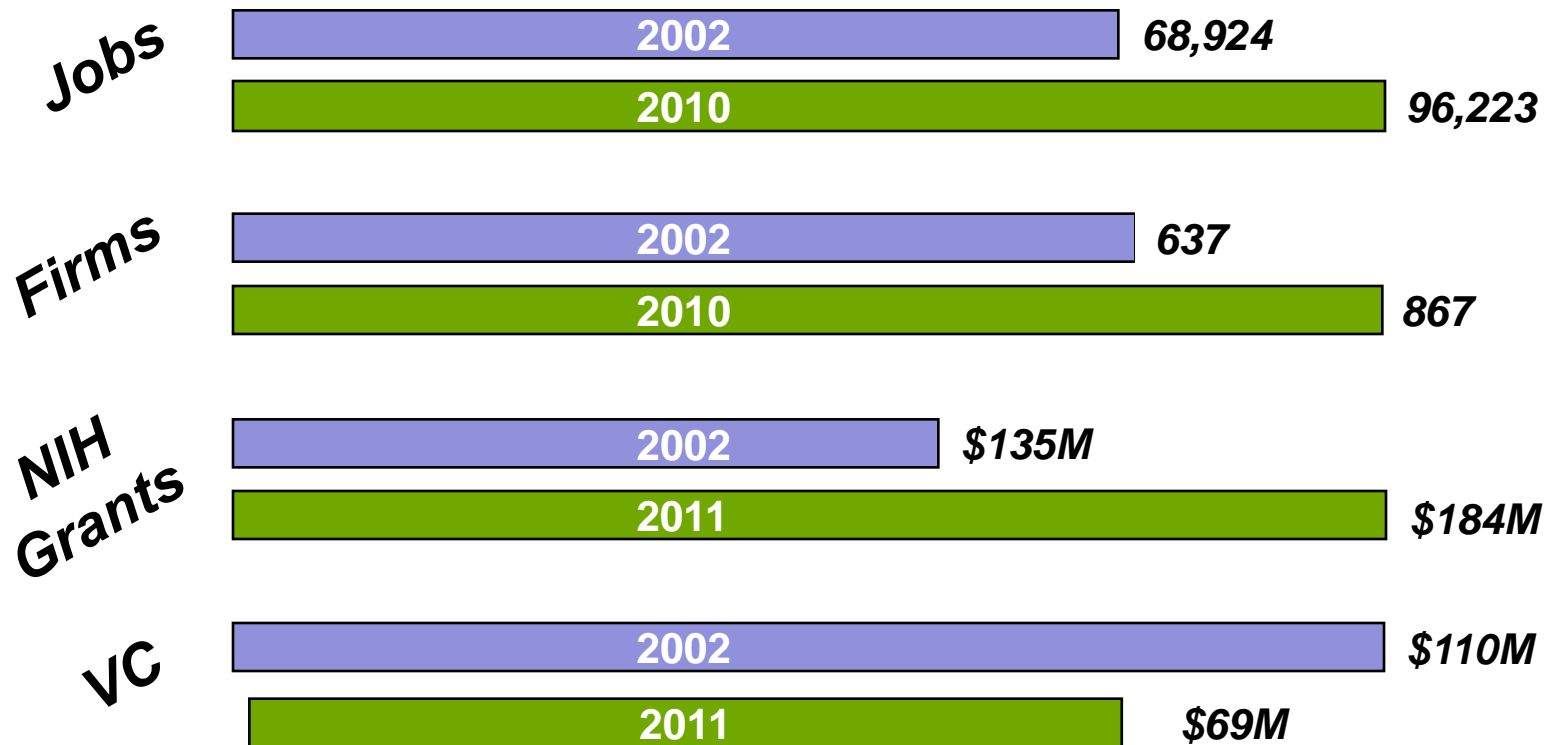
Guided by statewide committees of experts in science, business, policy

Strategy: focus on strengths, leverage collaboration



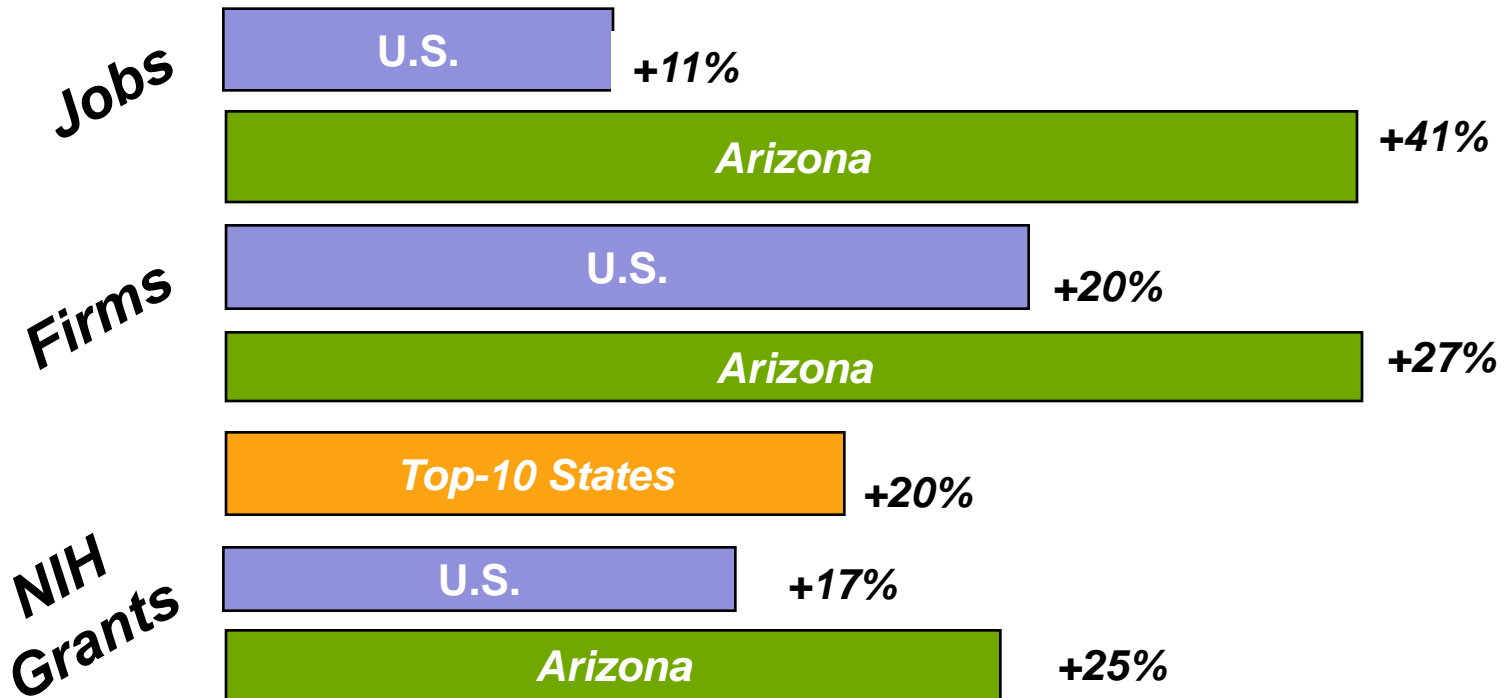
Moving the Needle

Arizona's bioscience performance, 2002-present



Fast Growth

Arizona's bioscience performance, 2002-present

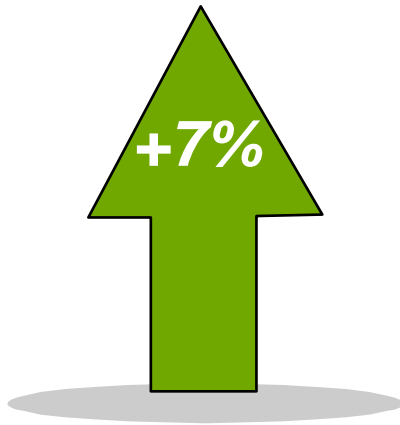


Source: Battelle, 2012

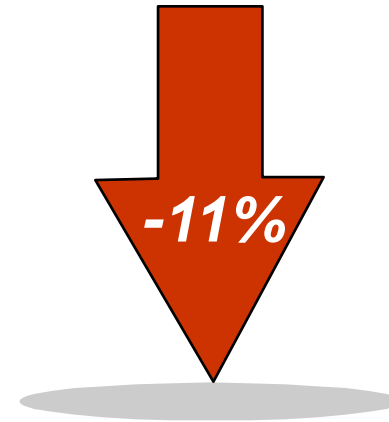


Recession-Tested

Job growth during Great Recession (2008-09)



Arizona Biosciences



Arizona Private Sector



Source: Battelle, 2012

High-Paying Jobs

Average Wages, Arizona, 2011

Total Private
Sector

\$42,090

Total
Biosciences

\$55,353

29%
Higher

Economic Impact

Arizona biosciences generate....

\$28.8 billion in annual revenues

\$1.1 billion in annual state/local taxes

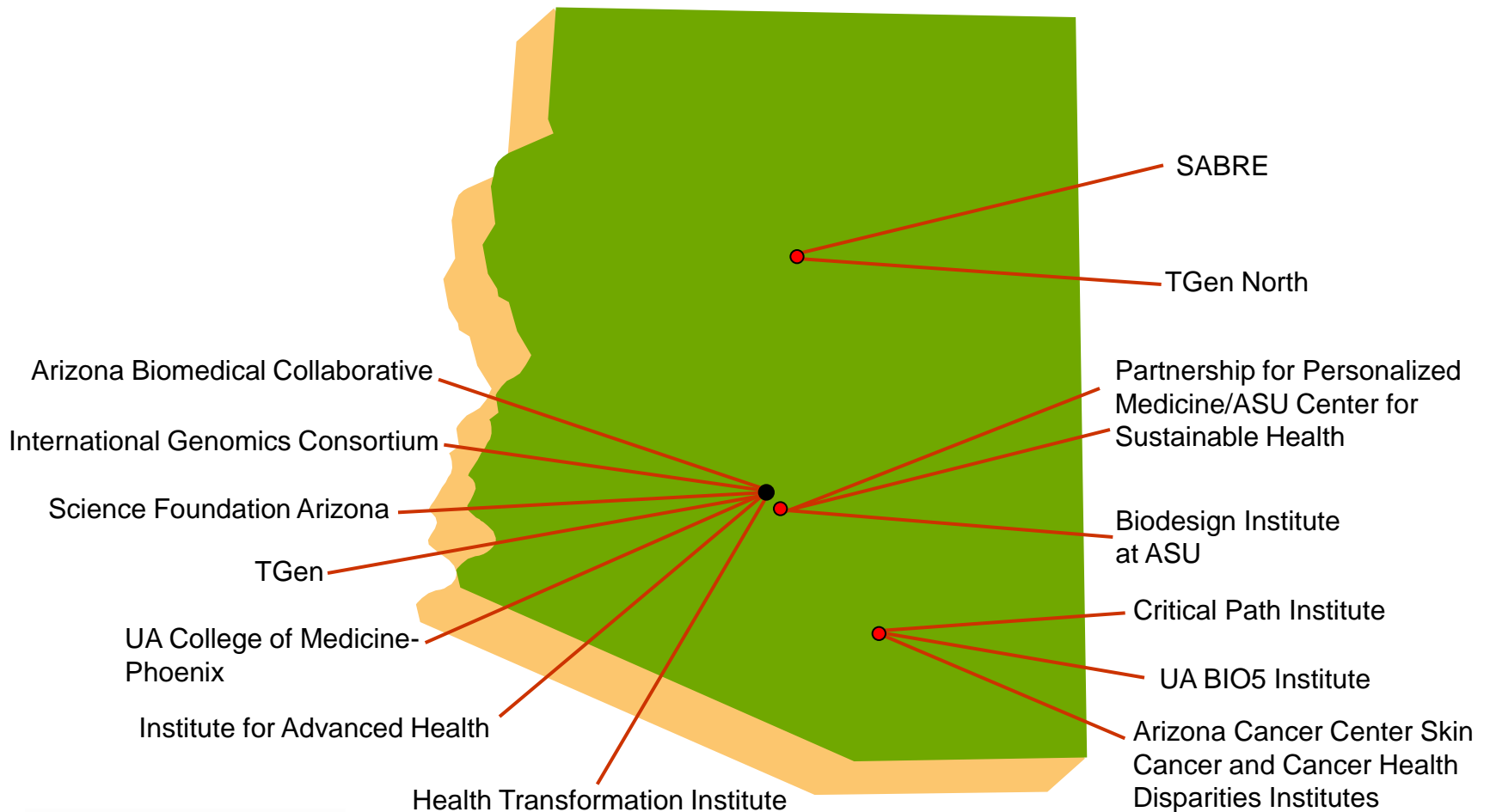


Source: Battelle, 2012



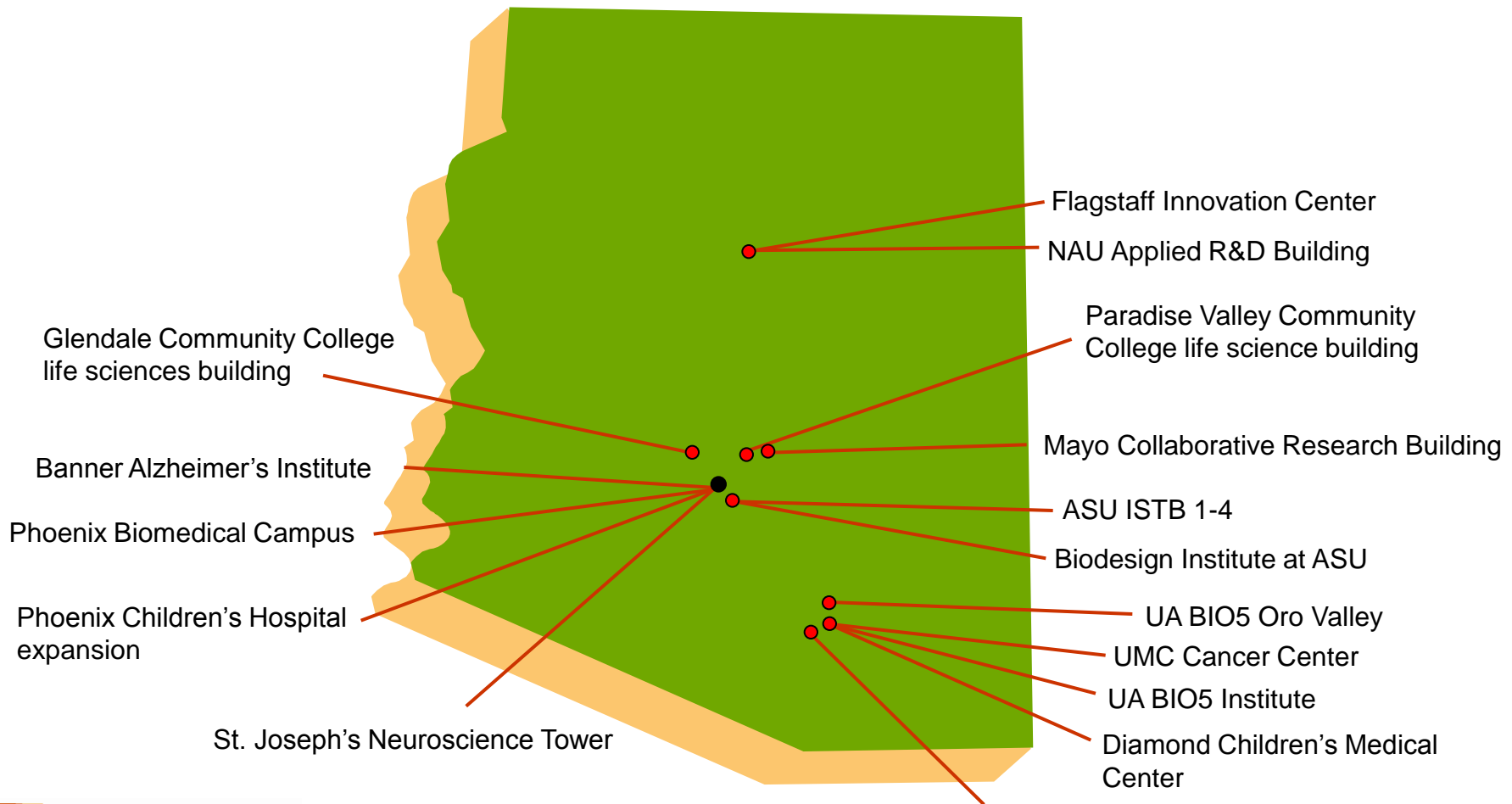
New Since '02

New research institutes & entities (sampling)



New Since '02

New Facilities (sampling)



New Since '02

New Incubators/Accelerators (sampling)



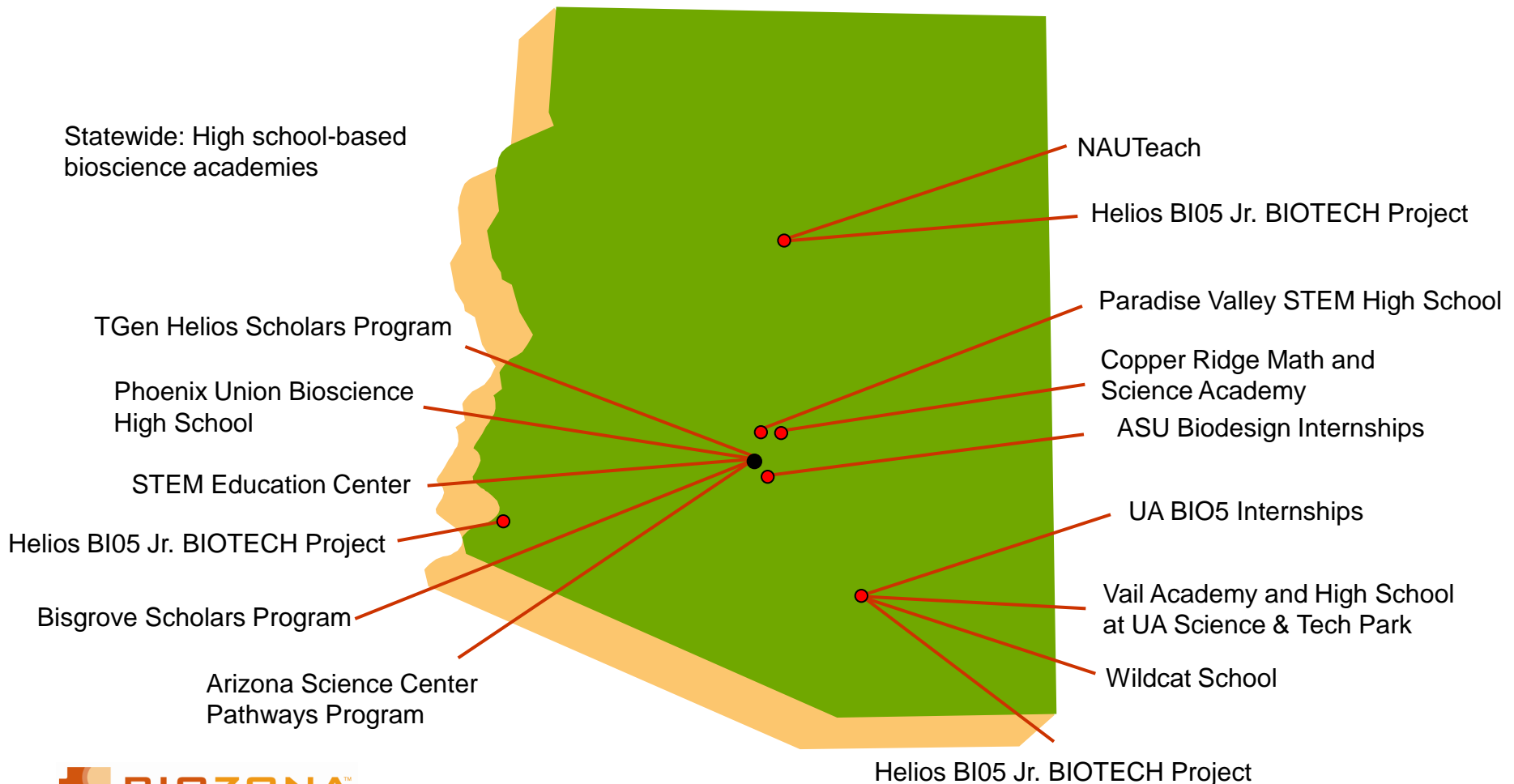
New Since '02

New or Expanded Major Companies (sampling)



New Since '02

New Schools and Education Programs (sampling)



Next Steps

- Sustain investments: private, state/local, federal
- Build workforce /Expand STEM education
- Commercialize Research
- Expand Manufacturing Base



Resources:

AZBio:

www.AZBIO.org @AZBIO @AZBioCEO

Arizona's Bioscience Roadmap:

www.flinn.org

Arizona Bioscience 101:

www.arizonabiobasics.com

Arizona Bioscience News:

[Twitter.com/biozonanews](https://twitter.com/biozonanews)