Arizona Solar Energy Production

Trillion BTUs

Future is Not Yet Realized

People Demand Further Change

-Arizona We Want Report
Arizona We Want

Education

Individualized education programs and increased graduation requirements

Healthcare

Public programs available to low-income residents and children

Quality Jobs

Job training programs for unemployed adults and lowering business taxes

Infrastructure

State-wide water conservation plan and preservation of open space

Energy Independence

Investing in renewable energy generating and energy efficiency incentives
How does change occur?

Individuals

Institutions

Technologies
Mechanisms of Change: Individuals

Carl T. Hayden

Sandra Day O’Connor
Student Level Changemaking

**direct**
- **direct service**
  - Community Service
  - Service Learning
  - AmeriCorps

**indirect**
- **awareness**
  - Courses
  - 10,000 Solutions

**entrepreneurship**
- Innovation Challenge
- Edson Student Entrepreneur Initiative

**advocacy**
- Valley of the Sun United Way
- Student clubs
Student Level Changemaking

direct

indirect
ASU Freshman Enrollment by Annual Family Income

Annual Family Income in Thousands

Fall 2002

Fall 2007

Only includes first-time, full-time freshman
ASU Freshman Enrollment by Annual Family Income

Only includes first-time, full-time freshman
ASU Degree Production: 2002-03 to 2019-20

Penn State  UCF  Ohio State  UT-Austin  Texas A&M

Undergraduate
Mechanisms of Change: Institutions

Granite Reef Diversion Dam, 1903
Institutional Examples

ASU Chandler Innovation Center
ASU Phoenix Downtown Campus
ASU Colleges at Lake Havasu City
ASU Downtown Phoenix Campus
ASU Colleges at Lake Havasu City
Mechanisms of Change: Technologies
Targeting technologies and industries that don’t yet exist

- Flexible Electronics and Display Center
- Arizona Center for Algae Technology and Innovation
Flexible Electronics and Display Center

Named by CNN as one of ten ideas that will change the world
Arizona Center for Algae Technology and Innovation
What change will ASU create going forward?

- Individuals
- Institutions
- Technologies
Individuals

Great Little Companies
Why Bees?

Develop breeding systems to improve the quality of honey bee stocks used for pollination, valued at over $20 billion annually, and honey production

Understand how nutrition during early stages of development affects metabolic functions throughout life and life span

Understand how genetic and hormonal systems evolve and control behavior

Illuminate the neuro-biochemistry of behavior, learning and memory

Understand the fundamentals of associative learning and the relationship between reward value and memory

Understand how complex social behavior self-organizes from collections of individuals
“Never doubt that a small group of thoughtful, committed citizens can change the world. Indeed, it is the only thing that ever has.”

Margaret Mead