

USTAR

AT Utah State University

CRPGE
2006 Summer Forum
June 24, 2006



African Proverb

from
The World is Flat,
Thomas L. Friedman

*Every morning in Africa, a gazelle wakes up.
It knows it must run faster than the fastest lion or be killed.
Every morning a lion wakes up.
It knows it must outrun the slowest gazelle or it will starve to death.
It doesn't matter whether you are a lion or gazelle.*

When the sun comes up, you better start running.

INTRODUCTION

Research Universities Drive Economic Growth

- Silicon Valley- Stanford, UCSF, UC-Berkeley
- Research Triangle- Duke, UNC-Ch. Hill, NC State
- Boston's Route 128 corridor- MIT, Harvard, +7

Worldwide Investment in Science

China

- 100 new world-class research universities
- Top Chinese scholars recruited to return home

Singapore

- Recently invested in biomedical sciences
- Attracting global drug makers and researchers

United States

- Many states are investing in research universities for economic growth

University Technology Commercialization

- Bayh-Dole Act in 1980 changed the climate of university research

R&D CHANGES AT USU SINCE 2001

Revised IP Policy

To increase faculty motivation to create inventions and technologies

- Raised percent of royalty given to faculty
- Made patents count toward tenure/promotion

Built Technology Commercialization Office

- Several key hires made 2002-2004
- Launched 8 spin-out companies in past three years
- Completed 7-10 deals/year

Grown Innovation Campus

- Land acquisition to expand from 36 to 150 ac.
- Completion of master plan
- \$2.5 M EDA grant for Grand Avenue
- \$10 M to begin moving Agriculture facilities to allow for growth

USTAR UTAH SCIENCE, TECH. & RESEARCH INITIATIVE

USTAR ECONOMIC DEVELOPMENT INITIATIVE

Initiative Vision

- To increase university research capacity and expand Utah's high-tech industry
- Co-led by business and industry groups, including Salt Lake Chamber and Utah Information Technology Association (UITA), EDCU, ULSA

Senate Bill 75 (USTAR)

- Creation of governing authority
- Funding of research teams
- Construction of research facilities
- Creation of tech program

1. Programmatic Investment at USU & U of U

- New research teams
- Areas of strength
- Interdisciplinary research focus
- Senior faculty, junior faculty, post-docs, graduate students
- Cost of \$5 million each over 5 years

2. Facilities

- USU: Bio Innovations Research Institute (BIRI), located at Innovation Campus

3. Statewide Technology Innovation Centers

- To promote statewide entrepreneurial activity
- Help existing firms with best-practices
- Assist other state universities and colleges with commercialization

USTAR Appropriations '07

Ongoing Funding

USU/UofU Researchers	\$11.00 M
Technology Outreach	\$4.00 M
Administration	\$0.25 M
FY 2006 Funding	\$4.00 M

TOTAL	\$19.25 M
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Total USTAR Funding

Subtotal 2007 (ongoing & one-time funding)	\$69.25 M
USU Match (facilities)	\$10.00 M
UofU Match (facilities)	\$30.00 M
USTAR Bonding	\$110.00 M

TOTAL	\$219.25 M
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USU Investment: Areas of Focus

- Microbe Biotechnology
- Advanced Nutrition
- Infectious Disease
- Intelligent Systems- Sensors & Robotics
- Water, Watershed, & Energy

USTAR Next Steps

- Recruit key researchers
- Identify \$10M non-state funding for BIRI
- Design and implement management and communications plans

"The presence of a major research university is a basic infrastructure component of the creative economy. It is more important than the canals, railroads and freeway systems of past epochs and a huge potential source of competitive advantage." - Richard Florida, Rise of the Creative Class