



The University at Albany
NYSUNY 2020 Challenge Grant Proposal



THE WORLD WITHIN REACH

SEPTEMBER 2012

THE EMERGING TECHNOLOGY AND ENTREPRENEURSHIP COMPLEX

► UAlbany NYSUNY 2020 core objectives:

- Advance cutting-edge innovative research & technology and translate into economic opportunity
- Continue to bolster the Capital Region's economic boom
- Increase academic opportunity for *every* student at UAlbany



► Why build the **Emerging Technology and Entrepreneurship Complex (E-TEC)?**



- ▶ Last year, alone, the University at Albany's faculty generated more than **\$450 million in research expenditures.**



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► Translate academic research into economic opportunity

- “New York can and must do more to convert its tremendous research capacity into direct & sustainable economic impact.”

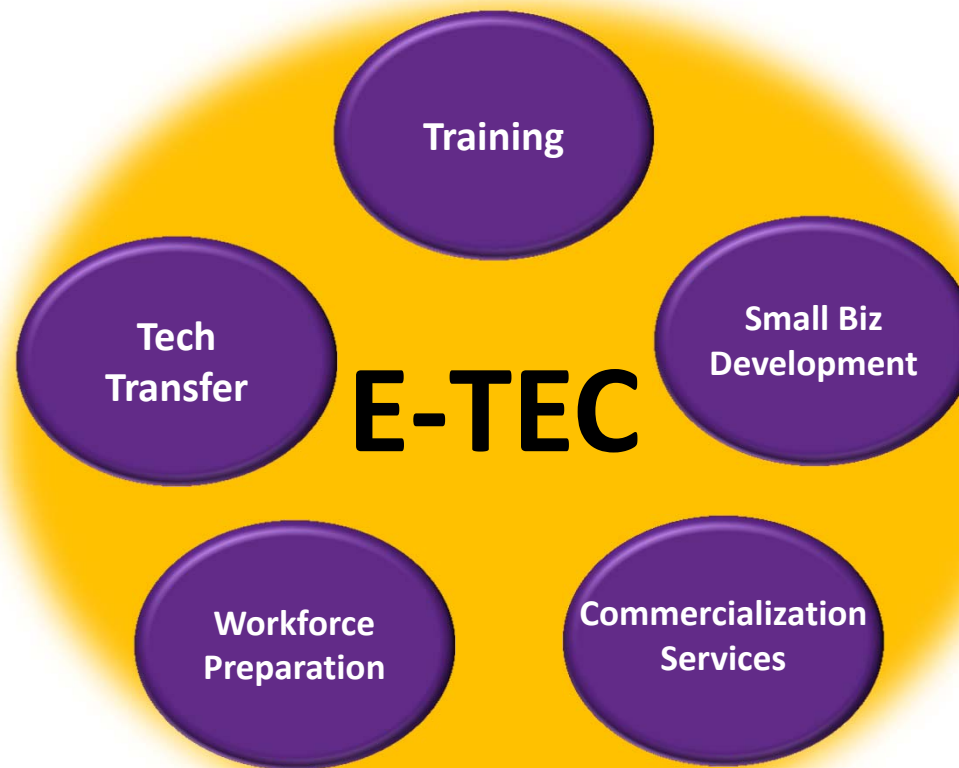
David J. Skorton, Chair

Task Force on Diversifying the NYS Economy through Industry-Higher Education Partnerships
December 2009

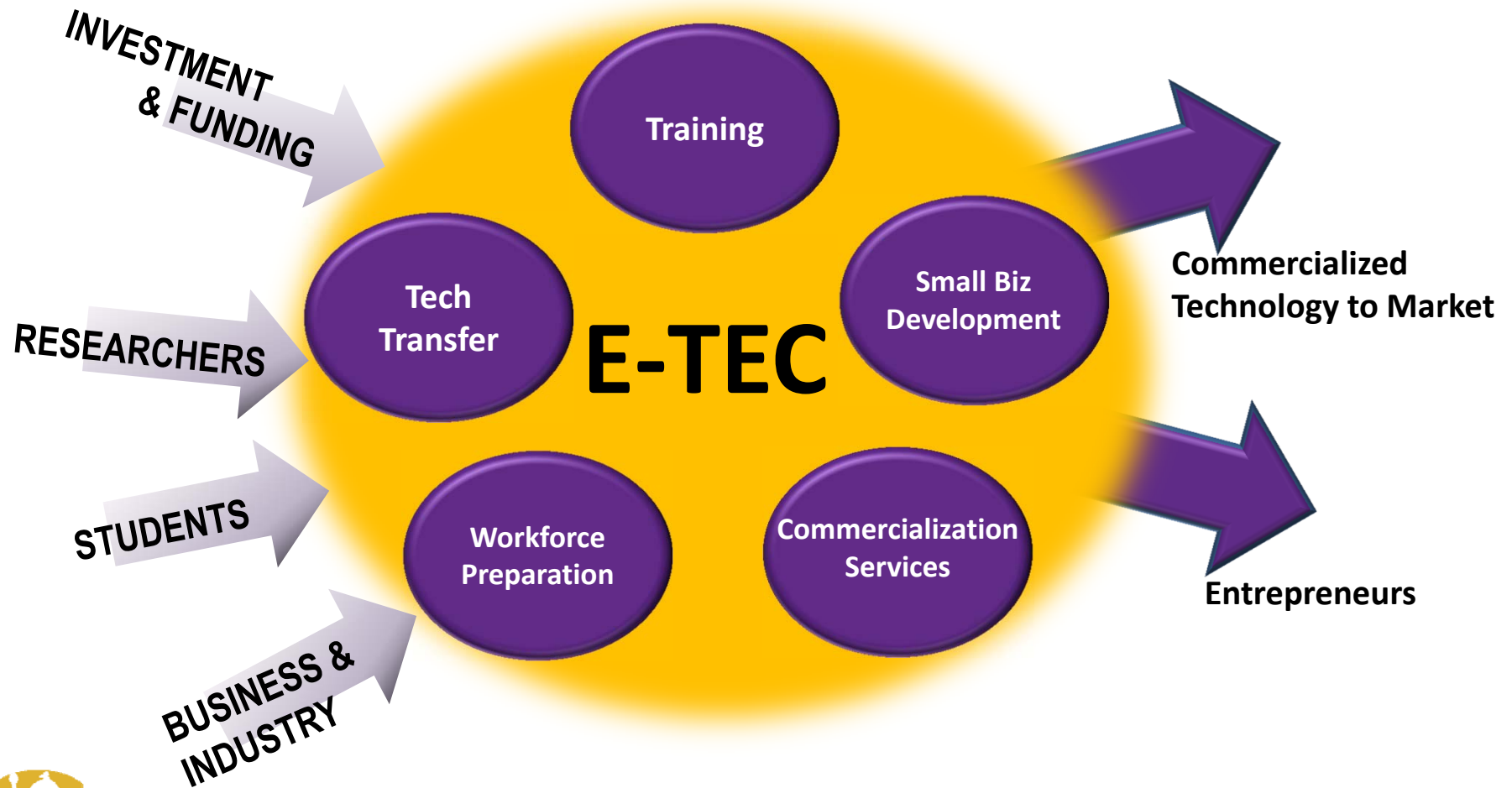
- E-TEC provides an opportunity for the Empire State to become a national leader.



ETEC: Creating an Entrepreneurial Ecosystem



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Atmospheric and
Environmental Science



Biomedical Science and
Biotechnology



Forensic Science
and Cyber Security



Advanced Data
Analytics



► ***TRANSFORMATIVE R&D CLUSTERS***

Atmospheric and Environmental Science

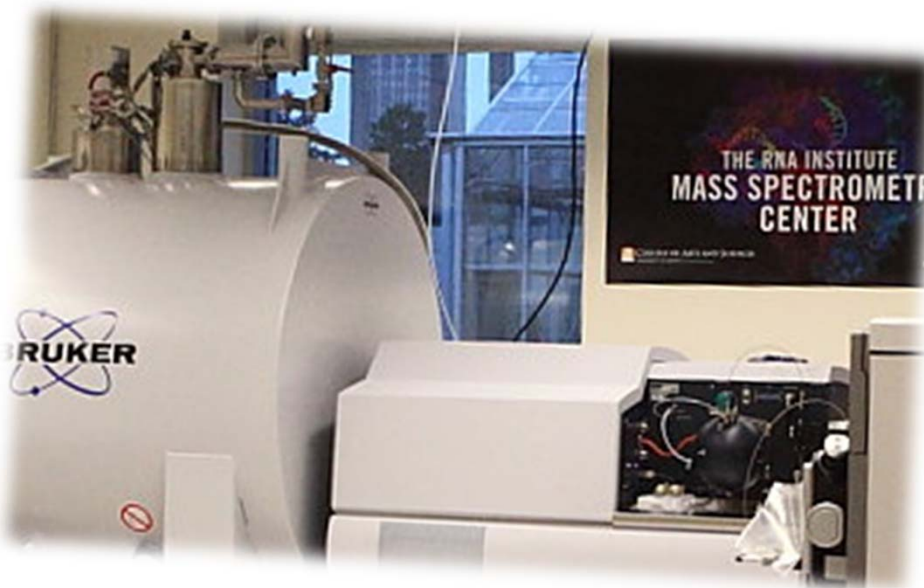
E-TEC will pursue advances in environmental prediction to ensure government can prepare for natural disasters, help climate-sensitive industries make smarter business decisions, and speed the development of clean energy systems.



► *TRANSFORMATIVE R&D CLUSTERS*

Biomedical Sciences and Biotechnology

E-TEC will pursue advances in treatments for neurodegenerative diseases, infectious disease, and cancer, and growing jobs in the pharmaceutical and biotech industries.



► *TRANSFORMATIVE R&D CLUSTERS*

Forensic Science and Cyber Security

E-TEC will build on the University's internationally recognized strength in crime scene forensics technology and counter-terrorism and homeland security research.



► ***TRANSFORMATIVE R&D CLUSTERS***

Advanced Data Analytics

E-TEC will build on the University's strength in developing analytic techniques and computational tools that will make New York-based industries more competitive.



▶ Cutting-edge industry partners.

Seven corporations and private spin-off enterprises have already expressed interest in partnering with E-TEC.



SIRGA ADVANCED
BIOPHARMA

DIRECTGAIN



MBMR Biolabs, Inc.
Fluorescent Imaging Tools of the Future

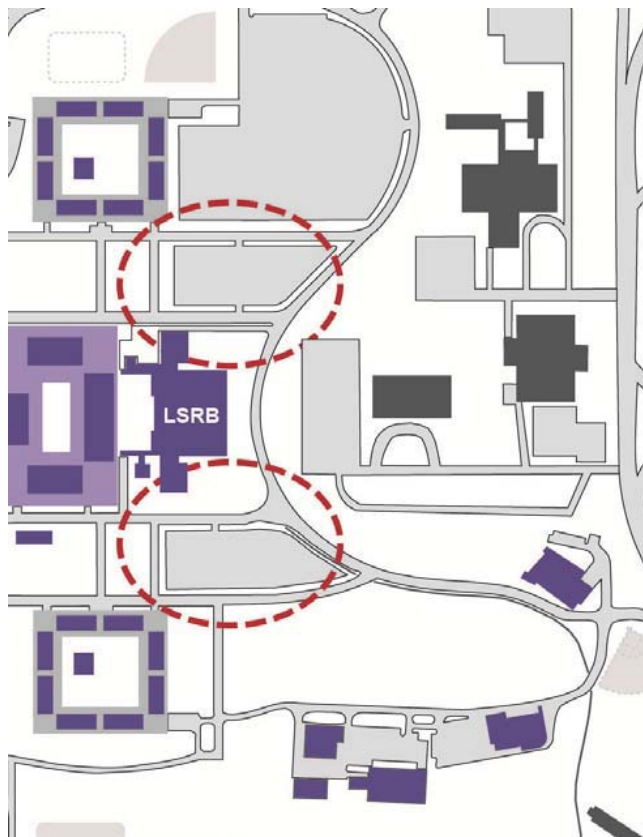


► E-TEC will fuel research at the College of Nanoscale Science and Engineering

E-TEC R&D will strengthen collaborations with CNSE, particularly in the areas of biotechnology, instrumentation, environmental sensors and solar energy research.



► E-TEC will be constructed and located on the Main Campus

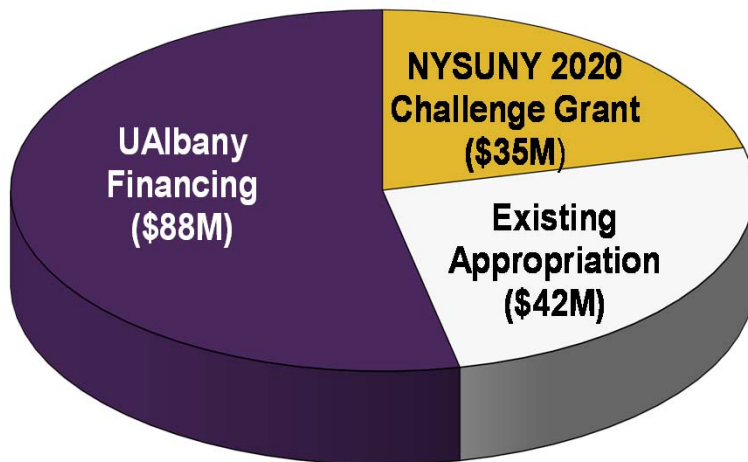


East side of Main Campus

- 225,000 square feet for laboratories, classrooms, and business development offices



► **E-TEC will create short-term jobs in addition to long-term economic opportunity**



CONSTRUCTION COSTS:

- \$165 million to build a state-of-the-art educational and research facility

JOB:

- 1,587 constructions jobs

TIMELINE:

- Kick-off in: 2013
- Completion in: 2017



► Transparency In Our Process

Strict standards of accountability and transparency.

Compliance with New York State statutes related to conflict of interest, as well as the SUNY Board of Trustees' policies.



UALBANY NYSUNY 2020 IMPACT



► **UALBANY NYSUNY 2020 IMPACT**
JOB CREATION AND ECONOMIC GROWTH
1,587 new construction jobs



▶ **UALBANY NYSUNY 2020 IMPACT**
NEW PERMANENT UNIVERSITY JOBS

■ Faculty Positions	187
■ Research Support Staff	355
■ <u>University Support Positions</u>	<u>193</u>

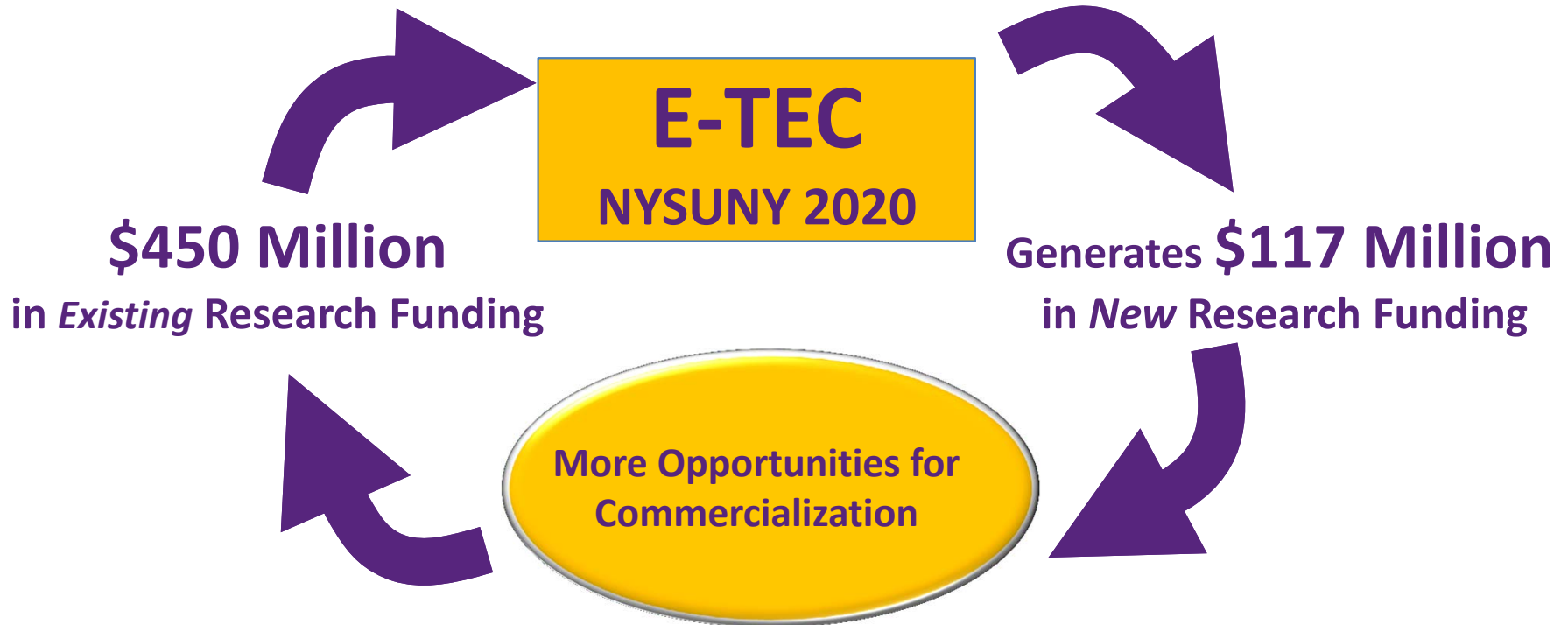
TOTAL JOBS CREATED 735



► UALBANY NYSUNY 2020 IMPACT

PRIVATE AND FEDERAL RESEARCH FUNDING

NYSUNY 2020 Generates More Economic Activity.



► UALBANY NYSUNY 2020 IMPACT

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

Every College and School across the campus will benefit from UAlbany's NYSUNY 2020 plan.



▶ UALBANY NYSUNY 2020 IMPACT

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

Expanding Course Offerings by adding 700 courses



► UALBANY NYSUNY 2020 IMPACT

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

Will work to eliminate need for 5th year because of limited class availability by
Improving Graduation Rates by 7% which will result in 100
more students graduating each year.



► UALBANY NYSUNY 2020 IMPACT

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

We will grow enrollment by **1,350 new students** over the next 5 years



► **UALBANY NYSUNY 2020 IMPACT**

ACADEMIC EXCELLENCE: EDUCATIONAL IMPACT

Training a **New generation of entrepreneurs**



► UALBANY NYSUNY 2020 IMPACT

ENSURING AFFORDABILITY & ACCESS

In order to ensure that access and affordability are protected, an amount equal to **30% per year** of the undergraduate tuition increase – **\$5.2 Million** – will be set aside for TAP eligible students.



► UALBANY NYSUNY 2020 IMPACT **ENSURING AFFORDABILITY & ACCESS**

We will also increase the level of merit based financial assistance by **\$2.5 million** to programs including our **Carson Carr and Frederick Douglas scholarship** programs.



▶ UALBANY NYSUNY 2020 IMPACT **DIVERSITY & INCLUSION**

Building upon and Extending our Diversity Efforts across
our Campus Community and Beyond.



▶ UALBANY NYSUNY 2020 IMPACT MINORITY AND WOMEN OWNED BUSINESS ENTERPRISE

We will continue to build upon and strengthen our **MWBE Outreach Efforts** setting a **goal of 25 percent** for all NYSUNY 2020 contracts.



▶ **UALBANY NYSUNY 2020 IMPACT**
PUBLIC – PRIVATE PARTNERSHIPS



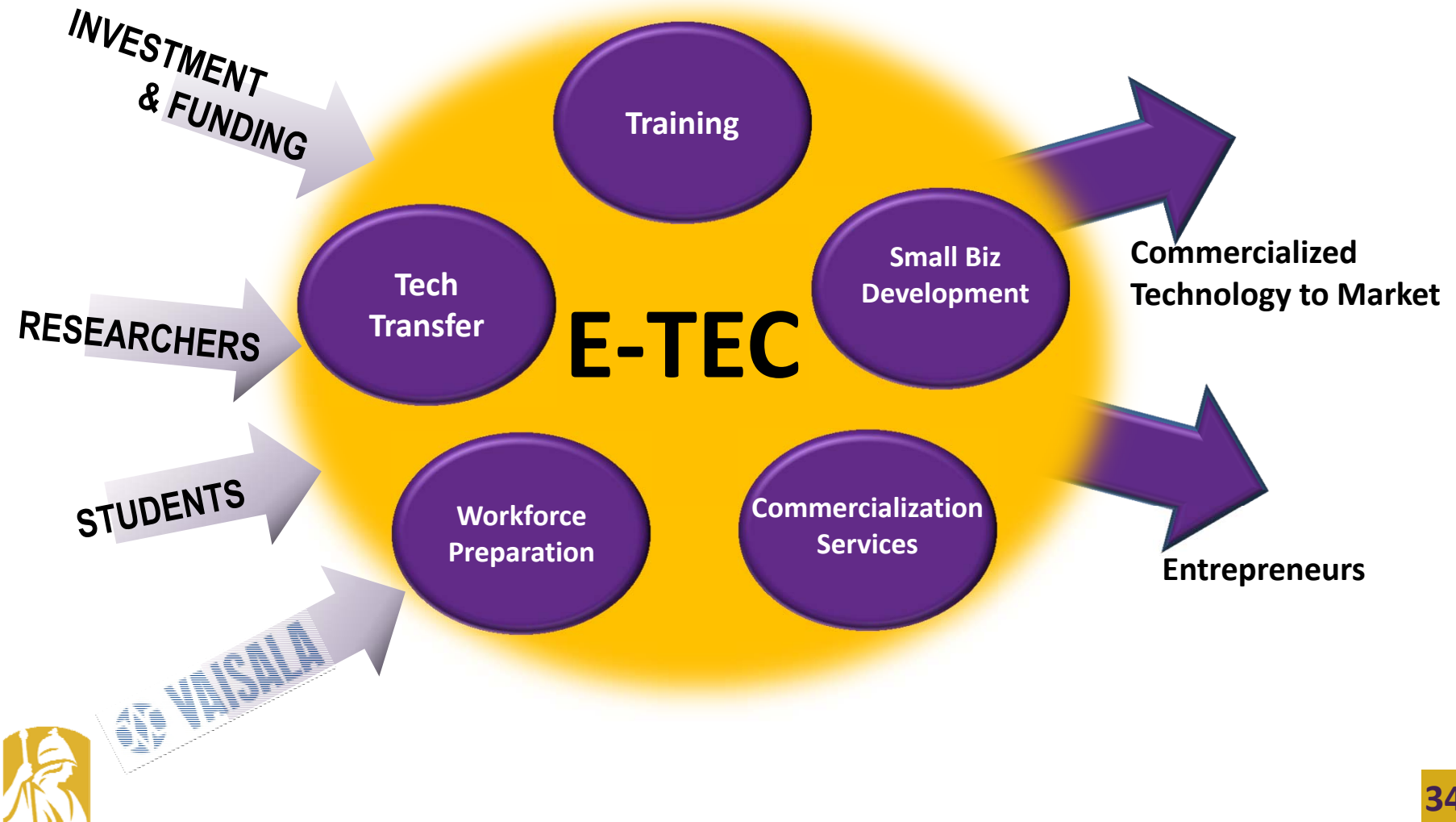
Old Model: The Wild, Wild West...



10 Years of Trial by Error



New Model: An entrepreneurial ecosystem





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▶ UALBANY NYSUNY 2020 IMPACT **ECONOMIC IMPACT**

The Capital Region Economic Development Council
unanimously approved the University at Albany's NYSUNY 2020 plan as a
Transformational Project



► UALBANY NYSUNY 2020 IMPACT **STRONG COMMUNITY SUPPORT**

More than 300 Capital Region business and community leaders and more than 2,000 friends of UAlbany have come together in support of the University's NYSUNY 2020 plan.



▶ UALBANY NYSUNY 2020 IMPACT **ECONOMIC IMPACT**

UAlbany's plan generates a total job impact of **over 2,300 jobs** in the Capital Region.



▶ UALBANY NYSUNY 2020 IMPACT ECONOMIC IMPACT

Our NYSUNY 2020 initiative will generate more than **\$1.8 billion in economic impact** throughout the Capital Region—50 times the investment of the NYSUNY 2020 Challenge Grant.



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