Combining Excellence In Education, Research and Impact

SNS Seminar
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Stanford Goals

• Educate future leaders
  – In society
  – In the professions
• Perform world-class, cutting edge research
• Contribute to the surrounding society
Educate Future Leaders

- Admit outstanding students via thoughtful process
  - Grades
  - Outstanding achievements
    - Often better predictor of future performance
- Teachers educate and inspire
  - Teachers must be outstanding scholars and/or professionals
  - All faculty teach
- Provide broad liberal arts education
  - Students will take on many different roles in life
- Provide deep education in major
Perform World-class, Cutting-Edge Research

• Perform national or international search for all faculty members including junior
  – Select the very best researcher teachers
  – "Outsiders" bring new ideas, techniques and perspectives

• Hire assistant professor unless need for senior leadership or special opportunity
  – Outstanding research promise
  – Help if teaching needs improvement
  – Independent, but mentored
  – Tenure to those who are truly outstanding researchers and teach well (about 1/2)
Research and Teaching
Mutually Reinforcing

• All faculty teach and do research
• Outstanding researchers
  – Remain current
  – Remain interested throughout their careers
  – Inspire students
• Teaching enhances research
  – Teaching yields deeper understanding of field
  – Bright, highly motivated students ask challenging questions
Contribute to the Surrounding Society
Students – Most Important Contribution

• Perform outstanding research as students
• Scholars
• Professionals
• Public servants
• Entrepreneurs
  – Companies
  – Non-government organizations
Contribute to the Surrounding Society
Faculty

- Educate the students
- Perform outstanding research
- Public servants
  - Part-time as advisers
  - Full-time on leave
- Entrepreneurs
  - Companies
  - Non-government organizations
- Consultants
  - Provide expertise to industry and government
  - Particularly important for start-ups
  - Enhances teaching and research
Technology Transfer

- Stanford considered world leader
  - 2011-12
- $66.8M in royalty revenue
- From 600 technologies
- 101 new licenses were concluded
- 8 new companies were started up.
- ~$32M were shared by the University's departments, schools and Vice Provosts of Research and Graduate Studies
Eesley-Miller Report

• 39,900 active companies can trace their roots to Stanford
• If these companies collectively formed an independent nation, its estimated economy would be the world’s 10th largest.
• ~5.4 million jobs
• Annual world revenues of $2.7 trillion.
• Far greater contribution than technology licensing
• Over 30,000 non-government organizations formed
• Moral – Educate students well
WEALTH CREATED IN SILICON VALLEY BY STANFORD ALUMS IS STAGGERING

- Of the 150 largest* publicly traded companies in the Valley, 37 Stanford alumni-founded companies (25% of total) represent
  - $453 billion in market value (46% of total)**
  - $138 billion in revenue (47% of total)

* Ranked by 2003 revenues
** As of March 31, 2004
Source: Stanford Fact Book – 2004 based on The Mercury News Silicon Valley 150 (SV 150) as of April 12, 2004
The End