



“One half or more of the growth in
the nation’s GDP in recent
decades has been attributable to
professions in technological
innovation.”

Technology and the Wealth of Nations
Stanford, CA, Stanford University Press, 1992



Intel Corporation:

The World's Largest Semiconductor Manufacturer

Leading Manufacturer of Computer, Networking & Communications Products

300 Facilities in 50 Countries

Over \$35B in Annual Revenues from Customers in Over 120 Countries

23 Consecutive Years of Positive Net Income

Approximately 80,000 Employees

43,000 technical degrees, 12,000 Masters in Science, 4,000 PhD's,
4,000 MBA's

One of the Top Ten Most Valuable Brands in the World for 10 Consecutive Years

Invests \$100 Million Each Year in Education Across More than 50 Countries

One Million Hours of Volunteer Service in Our Communities in 2008



Business Value of STEM

TALENT POOL

Educate the next generation
Grow our talent pool

ECONOMY

Build strong economies

INNOVATION

Use innovation to
Transform and
Increase efficiency

GLOBAL

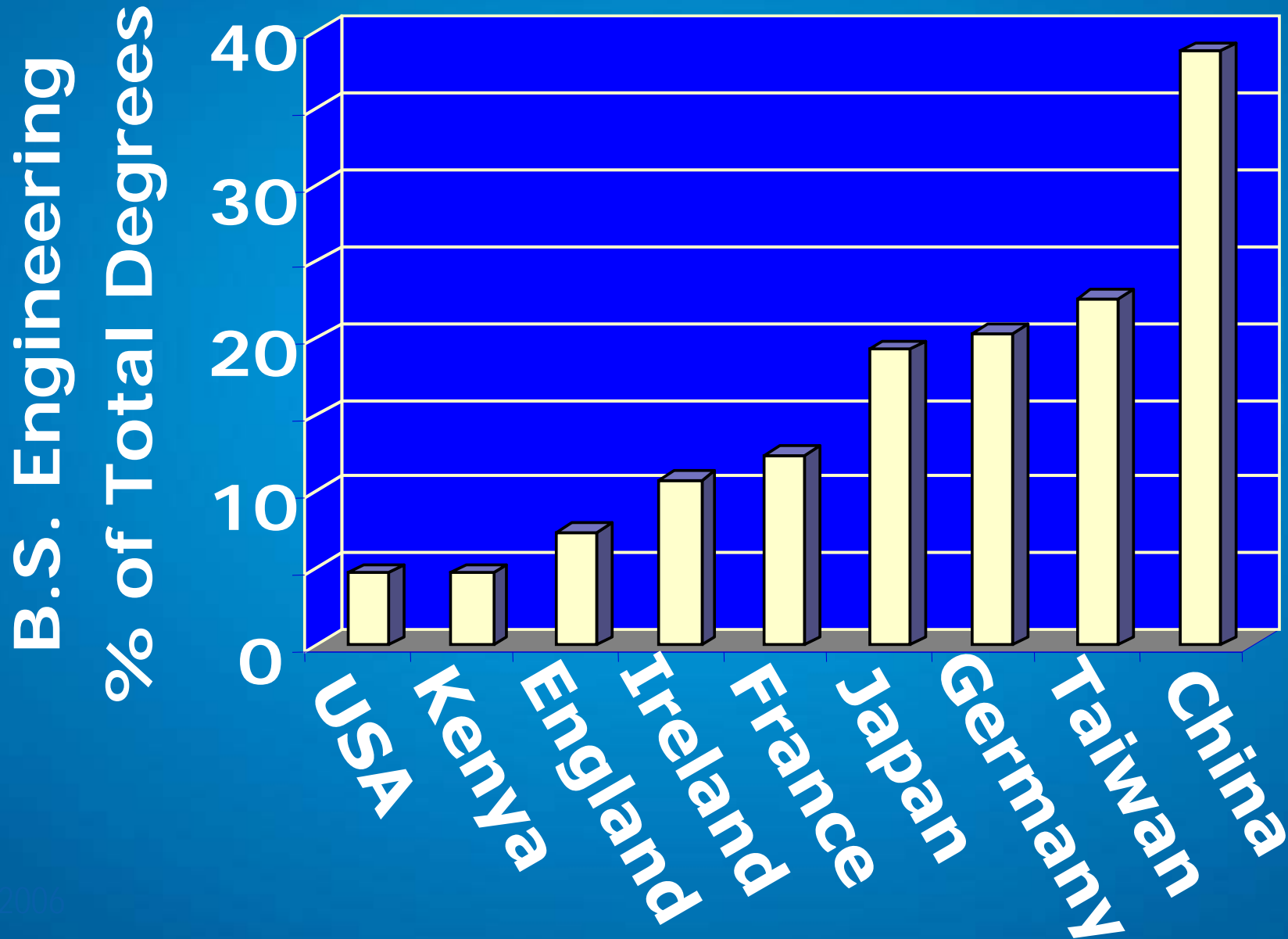
Strengthen technical leadership

Innovation



*STEM makes
innovation
possible*

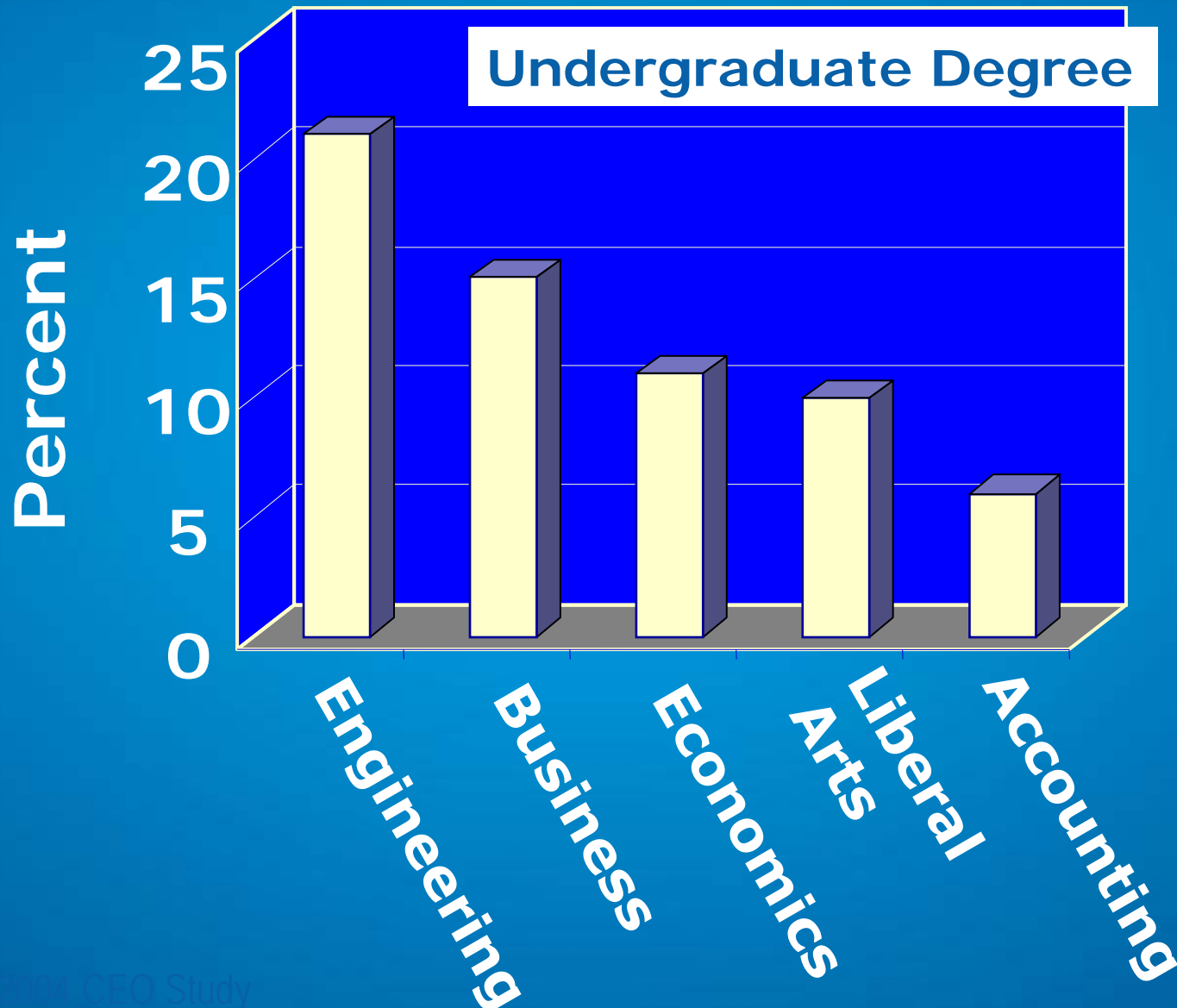
Global STEM View



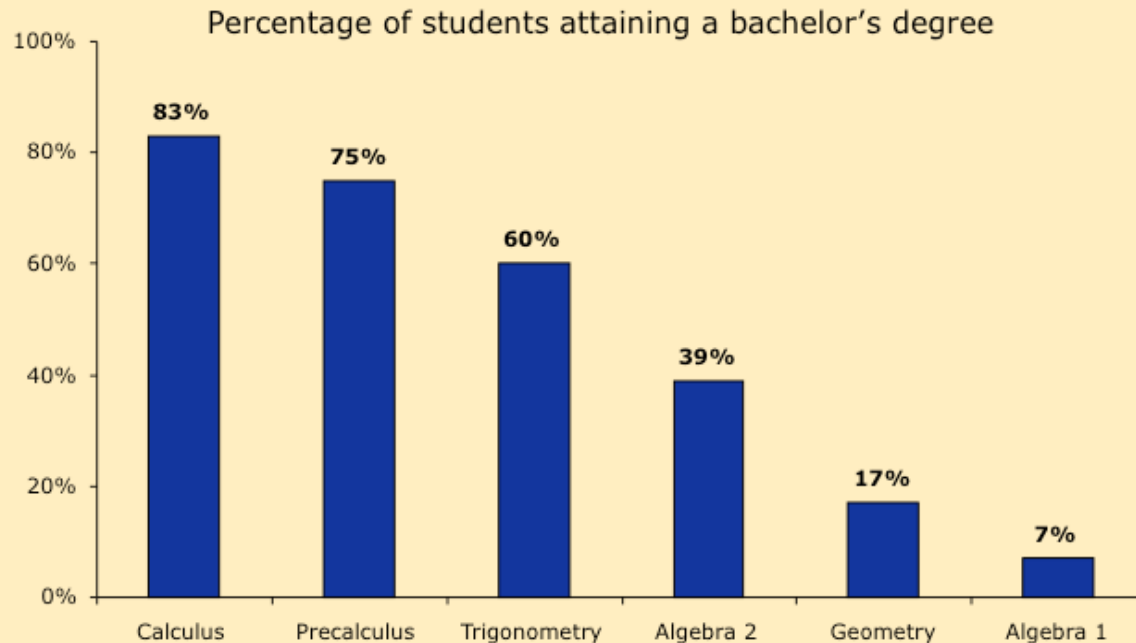
US STEM SNAPSHOT

- By 2018 US industry will only be able to fill half of its available jobs with candidates holding computer science bachelor's degrees from U.S. universities.
- About one-third of the fourth-graders and one-fifth of eighth-graders cannot perform basic mathematical computations
- U.S. high school seniors recently tested below the international average for 21 countries in mathematics and science
- Countries outperforming the U.S. in science and math, on average, spend 10 percent less of their respective GDPs on primary and secondary education than we do.

Education of Fortune 500 CEOs



Highest level of math in high school is the strongest predictor of BA attainment, regardless of race, family income or background



Source: Clifford Adelman, U.S. Department of Education, *The Toolbox Revisited*, 2006.



Achieve, Inc.

Students who complete Algebra II in high school more than double their chances of earning a four-year college degree

Under-Represented Minorities

- Black and Hispanic representation among those receiving bachelor's degrees in engineering is less than one-half their proportionate share of the overall population.
- A mere 4% of under-represented minorities are "engineering eligible" when they graduate high school
- In 2000, only 4.4 percent of the science and engineering jobs were held by African-Americans and only 3.4 percent by Hispanics



Women

- The most popular STEM field for men is engineering, at 18.9 percent. However, **only 3.8% of women choose engineering.**
- In 2008, women earned 57% of all bachelor's degrees, yet only 18% of computer and information science degrees — **down from 37% in 1985.**
- Similarly, in 2008 women held 57% of all professional occupations in the U.S. workforce but only 25% of all professional IT-related jobs — **down from 36% in 1991.**



Not only is the industry failing to attract new talent, it is also losing talent already interested in technology.

Intel: Making a World of Difference

Creating effective learning environments worldwide with technology, programs, and resources

- Public-private partnerships to provide solutions
- Programs that improve education
- Access to technology, teacher training, and more



More than 160 programs in over 60 countries

Investment of over \$1 billion in the past 10 years

Foundation for Knowledge Creation: 21st Century Skills

- Technology and media literacy
- Effective communication
- Critical thinking
- Problem solving
- Collaboration



**Highly educated workforce + strong technology infrastructure =
foundation for success in knowledge economy**

A Call To Action

- The California labor secretary has estimated that there will be a shortage of 25,000 technical workers in that state in the next seven years.
- Skills for America has the goal of achieving an additional five million community-college graduates by 2020
- Universities are challenged by space and are operating at capacity
- Community Colleges are key to the education deficit

Highly educated workforce + strong technology infrastructure = foundation for success in knowledge economy

SUMMARY

STEM strengthens innovation
Intel is committed to
Education
Community Colleges are key
to education transformation
New opportunities
Knowledge Economies



Thanks for
being here
today

The Next Generation of Innovators

