

Beyond Phase II

Small Business Legislative Update

August 17, 2017

Robert N. Schmidt, PE, MS, MBA, JD
Chairman, Small Business Technology Council
rschmidt@CleveMed.com
216-374-7237



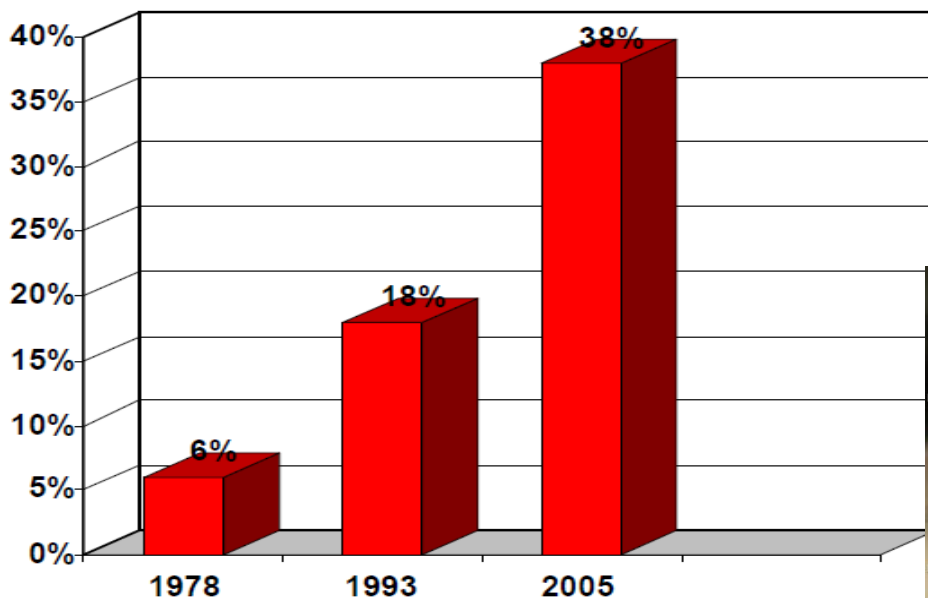
Inc.
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Small Business in the Innovation Ecosystem

- Startups are to an economy what births are to a population
- Small Businesses are to the economy what children are to a population
- High Tech businesses create the most, highest paying jobs
- If you want jobs, you need to foster Small Business
- Patents allow Small Businesses to raise money to grow
- Small High Tech Businesses provide the food for growth for large businesses
- Devaluing patents hurts small businesses and the economy

Percent of U.S. Scientists and Engineers Employed by Companies with Fewer than 500 Employees



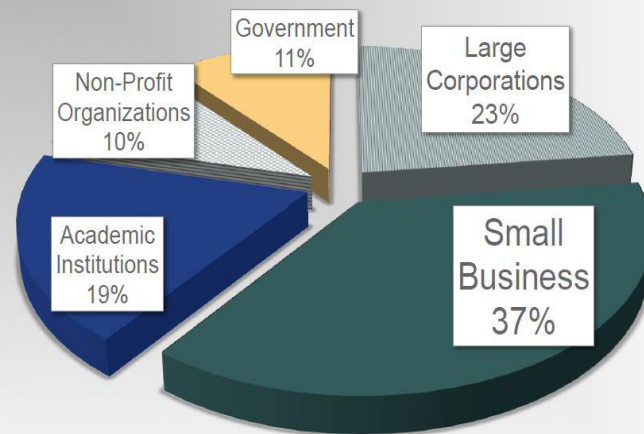
60% more engineers work for small business than for large business



Bell Labs Parking Lot

Who works for whom?

Employment of Engineers and Scientists in the United States



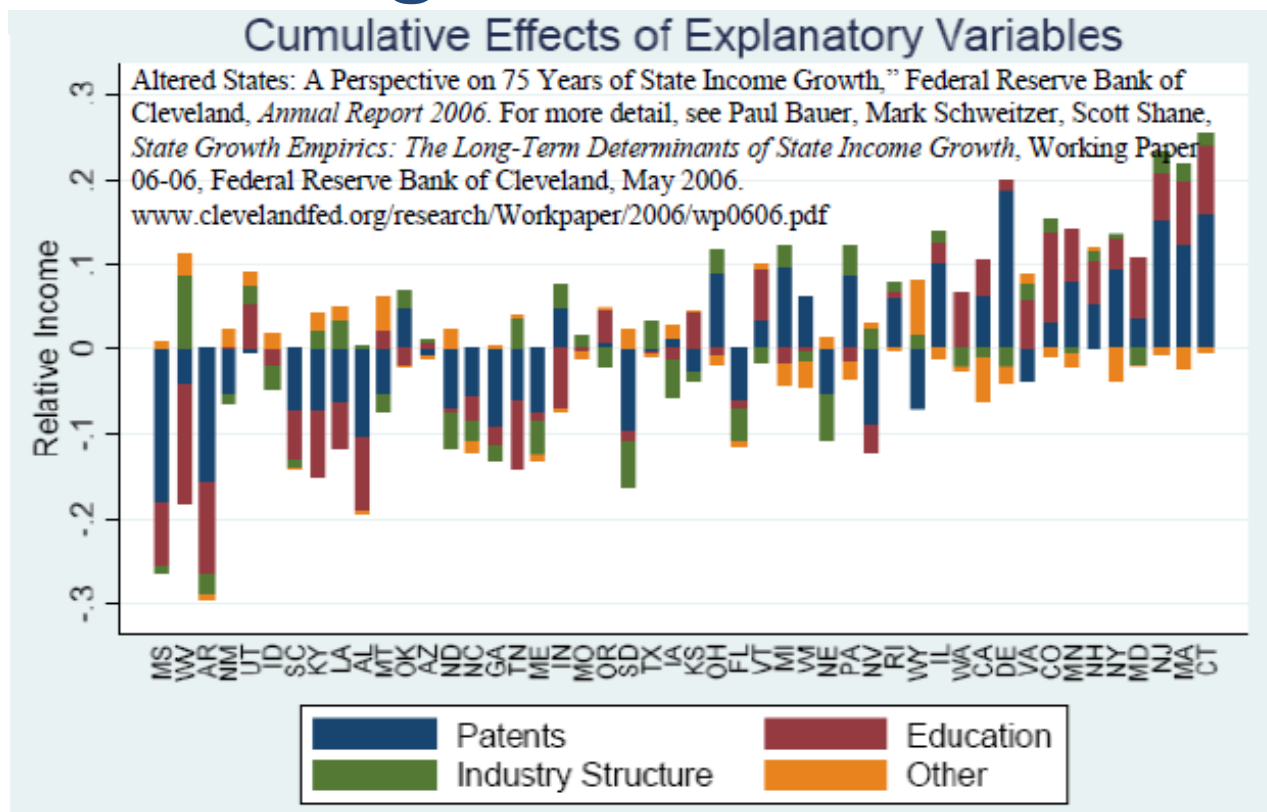
Source: Adapted from most current National Science Board data

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Small Business is Where Innovation Happens

- Small businesses create 60-80% of the net new jobs over the last decade.
- Small businesses create **16.5 times** more patents per employee than large firms.
- SBIR firms have received over 136,000 patents.

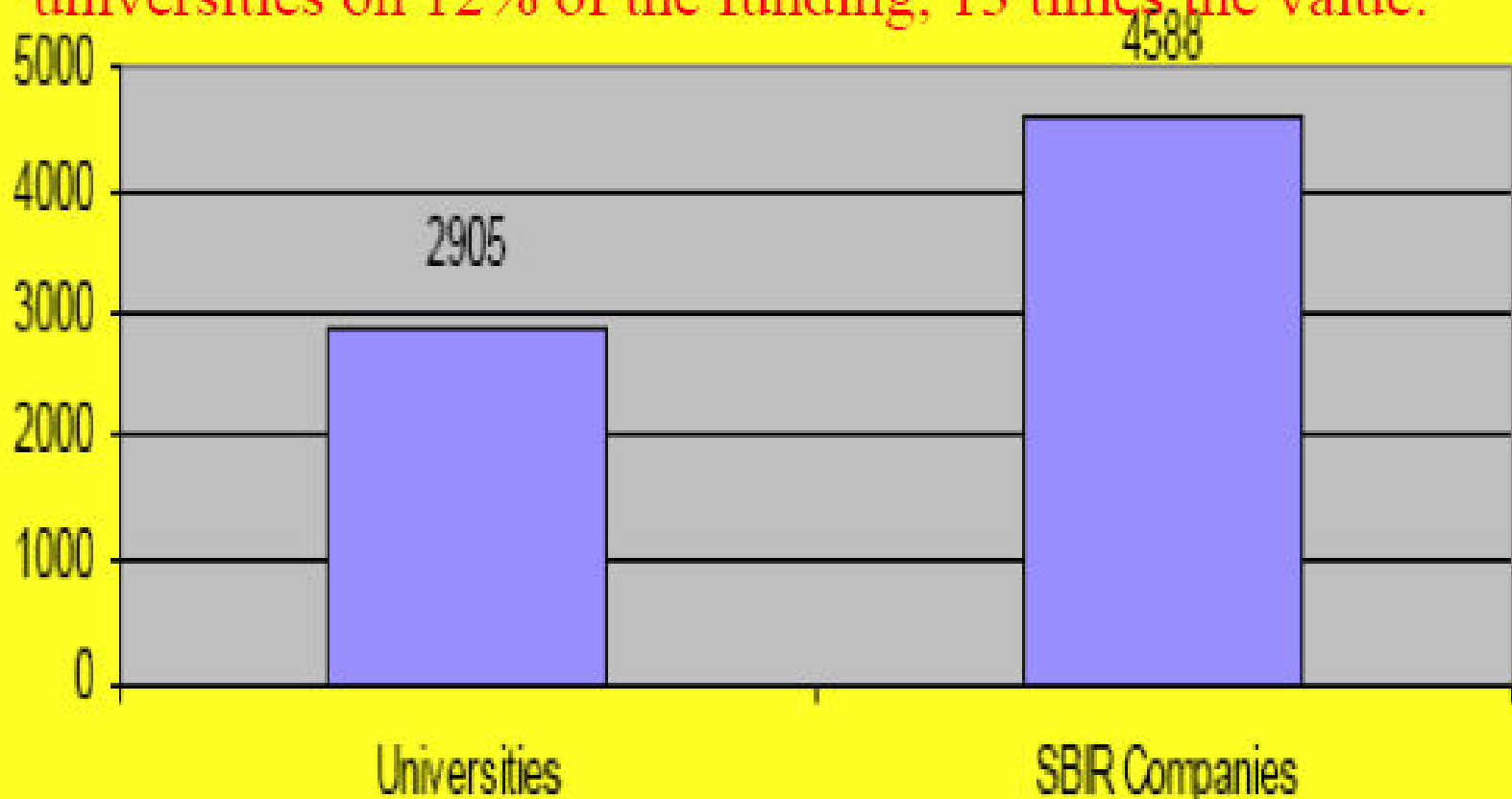
Patents are the #1 Indicator of Regional Wealth



A low-patenting metro area could gain \$4,300 more per worker over a decade's time, if it became a high-patenting metro area.

U.S. Patents Granted, 2006

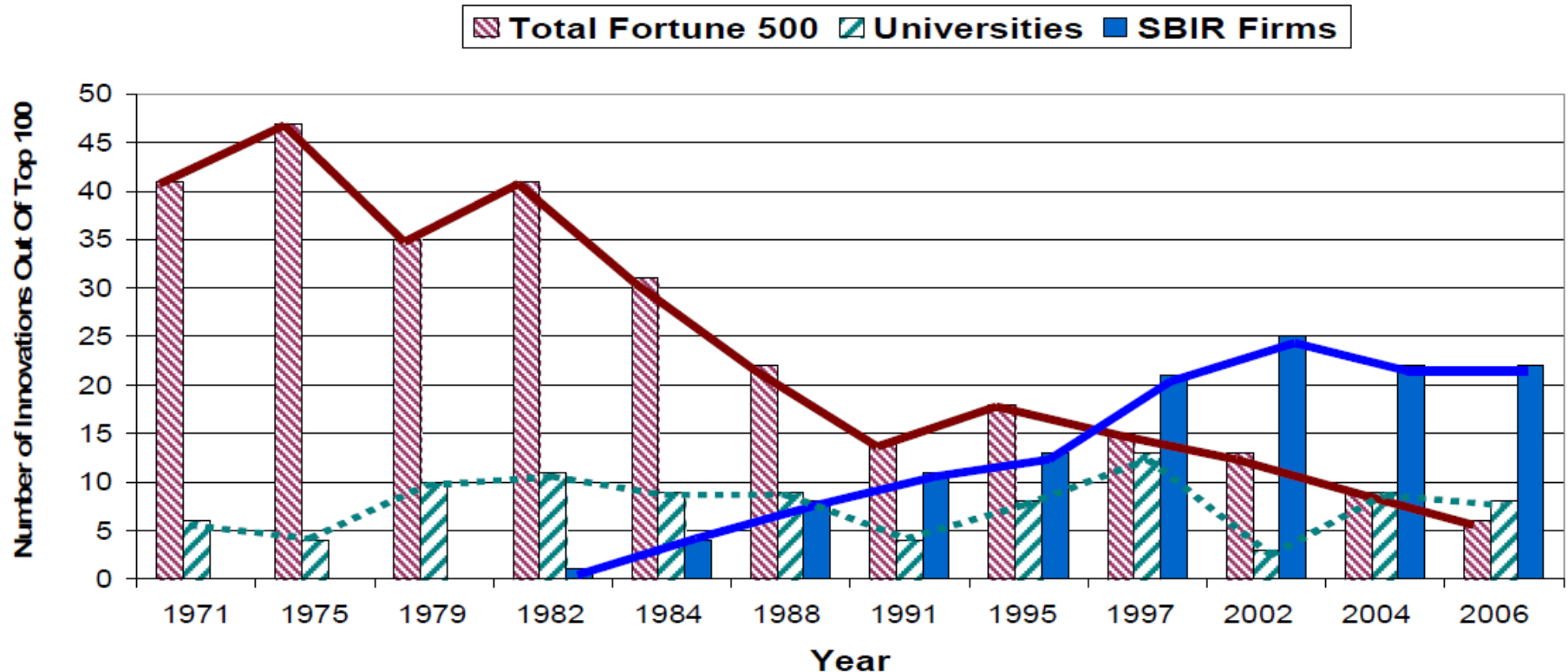
SBIR Companies provide 58% more patents than universities on 12% of the funding, 13 times the value.



Source: SBIR patent database, Innovation Development Institute, www.innovationviation.com

Who Creates the R&D 100, Best Patents

Figure 3. Where Do Key Innovations Come From?



Fred Block and Matthew Keller, *Where Do Innovations Come From? Transformations in the U.S. National Innovation System 1970-2006*, Information Technology and Innovation Foundation, July 2008.

Patent rights are the weakest they have ever been in the 223 years of our patent system

Over the last decade, our government has damaged the investment grade value of patents in several critical ways.

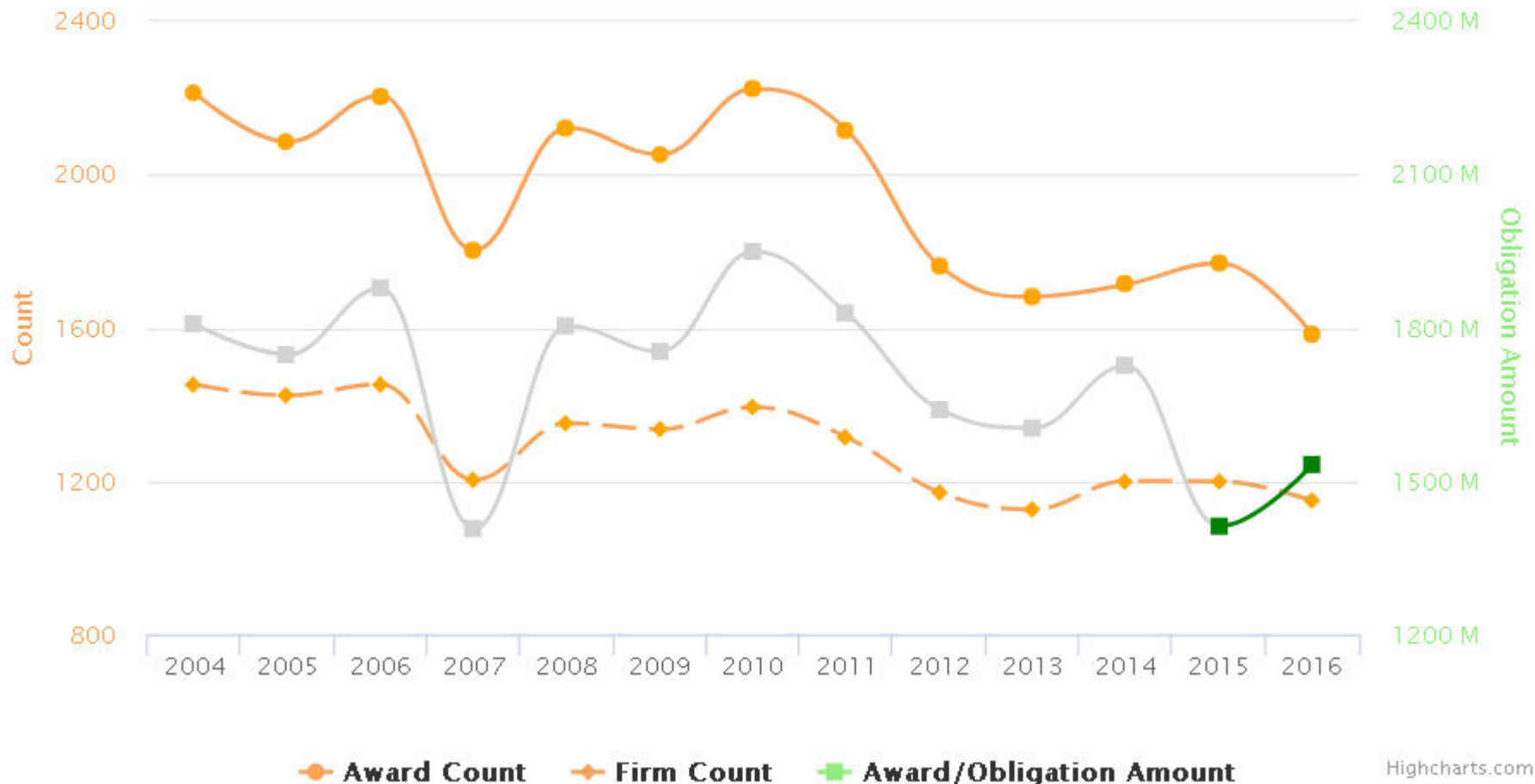
- Elimination of Exclusive Right to an invention, **permanent injunction was denied: eBay v. MercExchange.**
- Deletion of **presumption that a patent is valid: KSR v. Teleflex, Bilski v Kappos,**
- Added costs to keep a patent **America Invents Act (AIA)**
 - Post Issuance Procedures, Patent Trial and Appeals Board
 - Multiple suits against **similarly situated infringers to be filed separately.**
- **A patent can take ten or more years of examination at the United States Patent and Trademark Office (USPTO) before it is allowed.**

America is Damaging its Invention Driven Economic System

- **“Regulatory Birth Control”** hampering new startups with SEC, Banking, and Patent hurdles.
- **Starving “Small Business Children”** with essentially the same regulations that are burdens for giant corporations, and with reduced R&D funding.
 - Reducing funding to small businesses
 - Reducing our investment in R&D
 - Overregulating small businesses
 - Reducing the value of patents
- We are shifting our economy from an invention-based economy to a market-dominance based economy
- By making patents weaker, Congress is legislating a Poorer America

Reduced Ph I SBIR Funding (2004-2016)

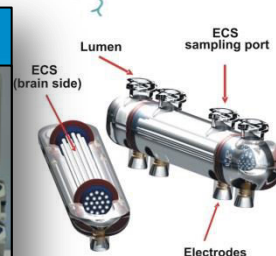
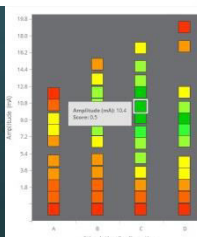
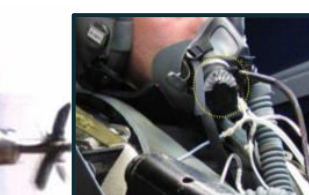
Award Summary By Year



Highcharts.com

The Stronger Patents Act, S. 1390, Deserves our Support

- **Sponsor: Coons; Cosponsors: Cotton, Durbin, Hirono**
- **Makes It Easier to Get Injunctions and Prove Infringement**
 - Treating patents like other property
- **Improves Patent Trial and Appeals Board Proceedings**
 - Same standards as District Courts
- **Limits Challenges to a Patent**
 - Limiting repetitive and harassing challenges against inventors
 - Requiring petitioners have a business standing
- **Ends Diversion of Patent Fees**



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The Economic Impact and Value of Patents

Patent Policy: A Small Business Perspective

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