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# Life Sciences, U.S. Economic Competitiveness and Jobs

***Dr. Robert Atkinson***

*President*

*Information Technology*

*and Innovation Foundation*



# ■ Today's Presentation

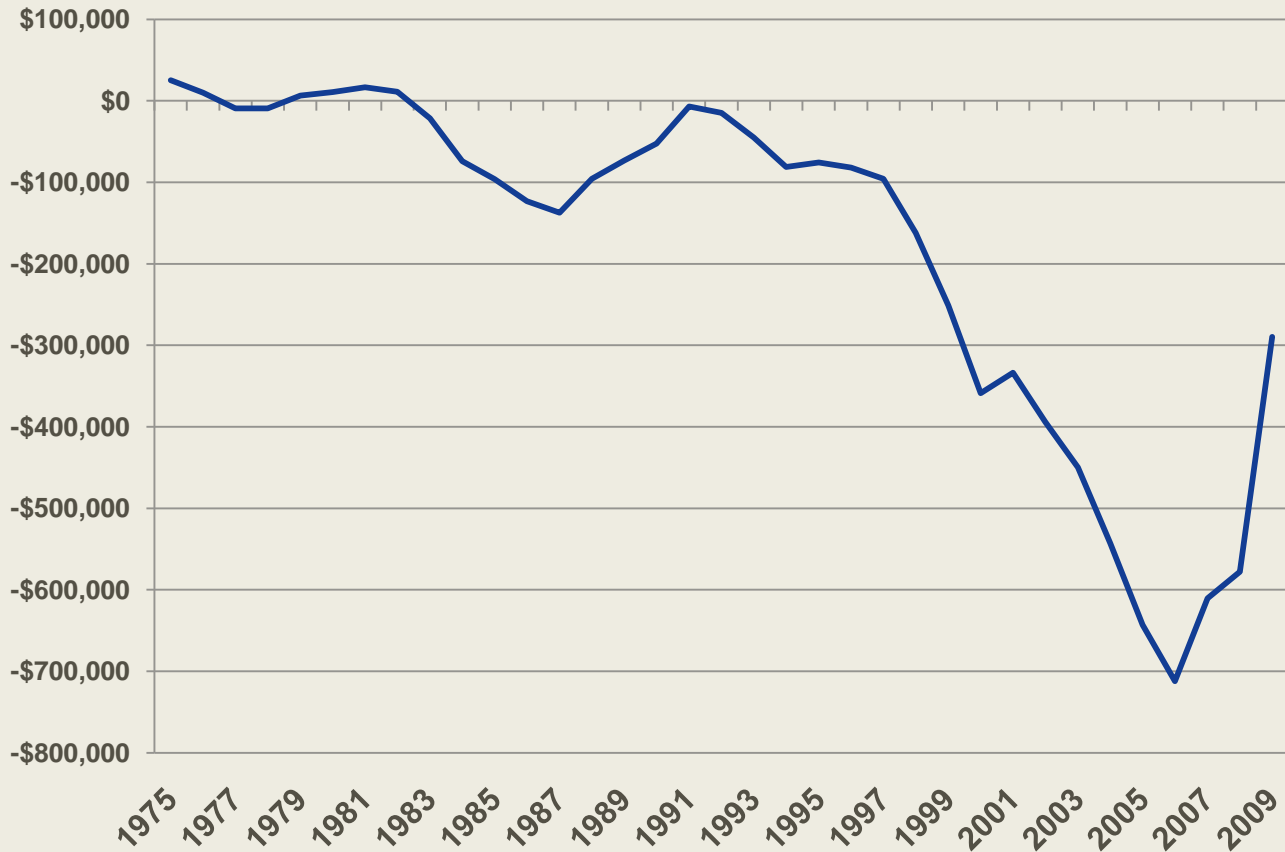
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**Assessing U.S. International Competitiveness**

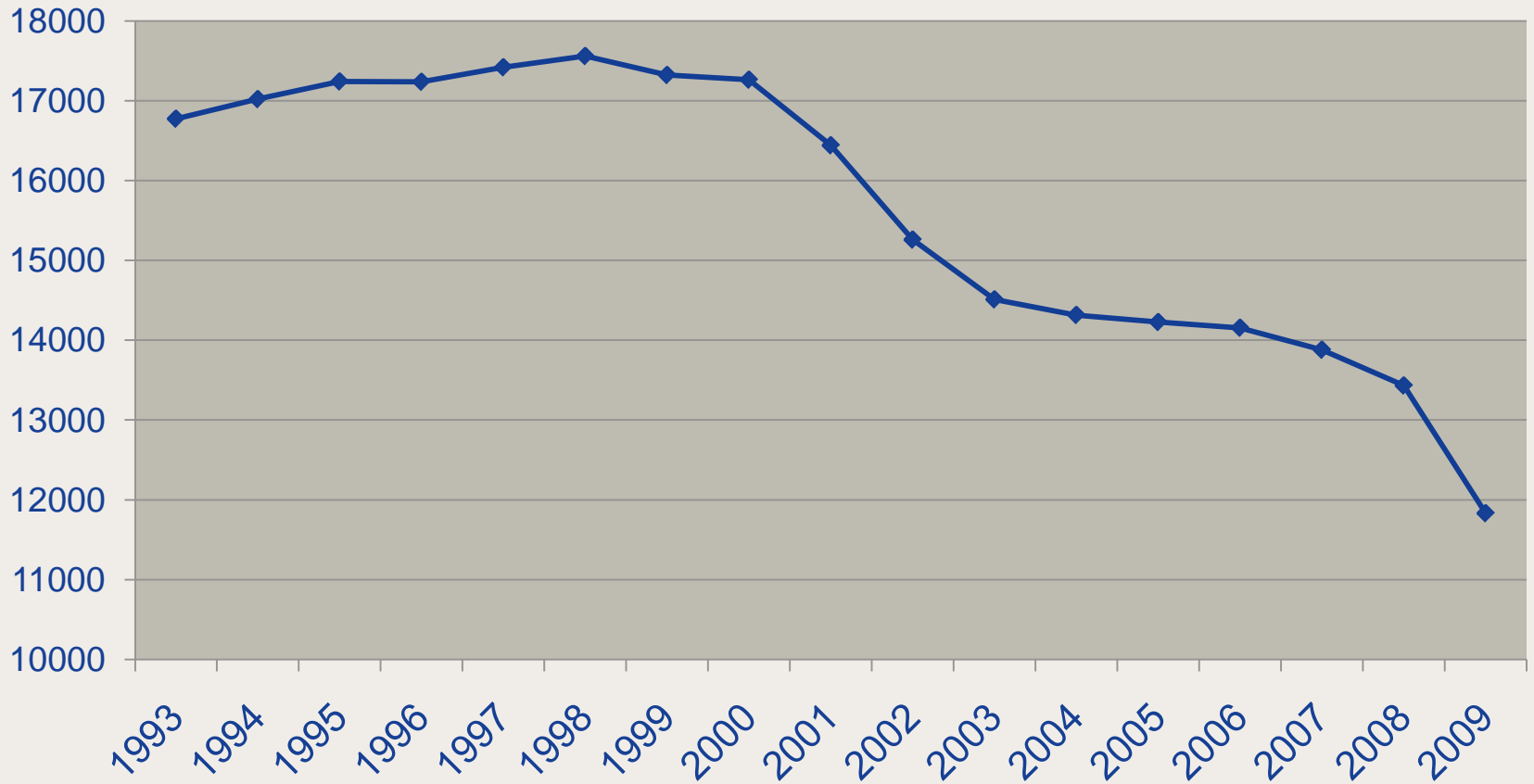
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**Assessing Life Sciences Competitiveness**

# ■ U.S. Trade Deficit



# ■ U.S. Manufacturing Jobs Have Declined



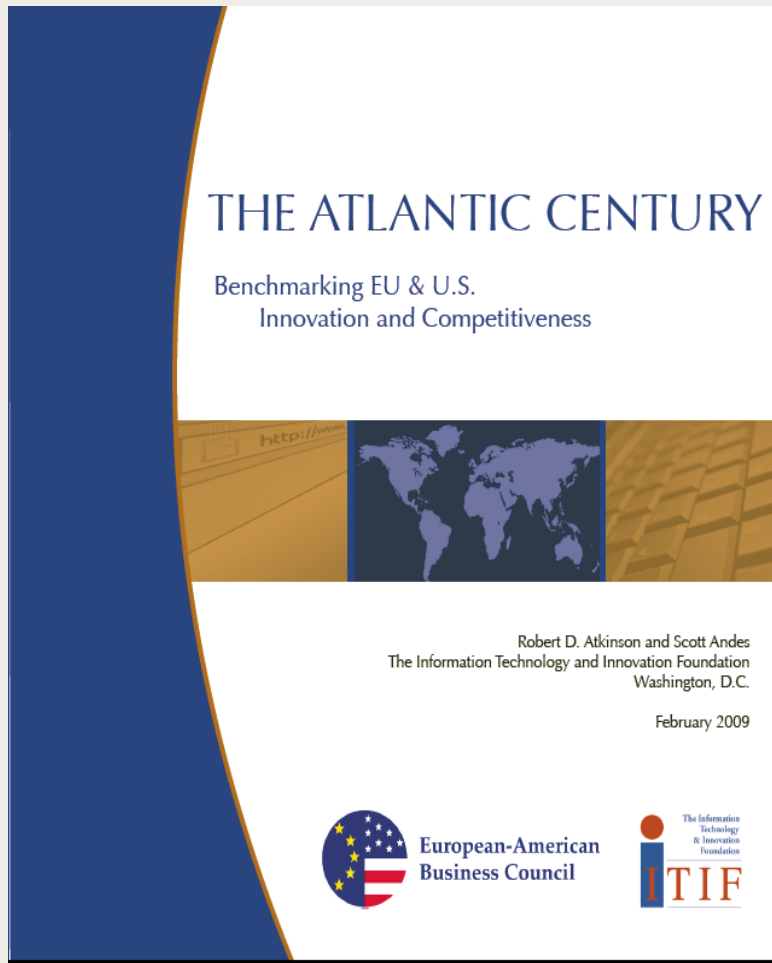
# ■ So How Can We Be No. 1?



# ■ Actually, We're Number 6



# ■ The Atlantic Century Report

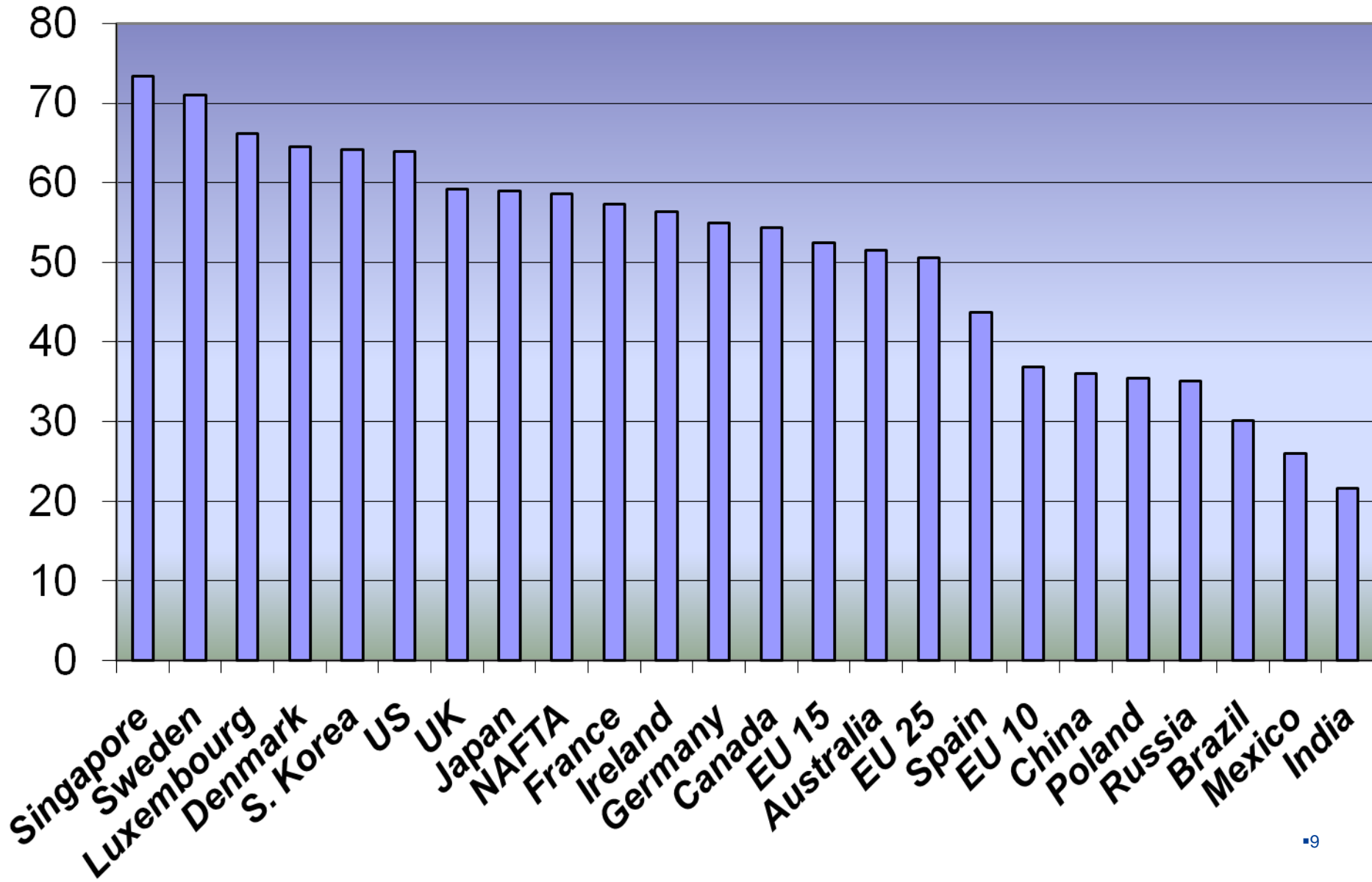


- **The Study:** comparing innovation-based competitiveness of 40 nations and regions.
- **Countries:** EU and NAFTA countries, Australia, Brazil, China, India, Japan, South Korea, Russia, and Singapore
- **Regions:** EU-10, EU-15, EU-25, and NAFTA

# 6 Groups of 16 Indicators to Assess Global Innovation-based Competitiveness:

- Economic Structure
  - human capital (college education; researchers)
  - innovation capacity (corporate R&D; government R&D; scientific publications)
  - entrepreneurship (new firms; venture capital)
  - IT infrastructure (e-government; corporate IT investment; broadband)
- Economic Policy (corp. tax; ease of doing business)
- Economic Performance (trade balance, FDI, GDP per worker, productivity)

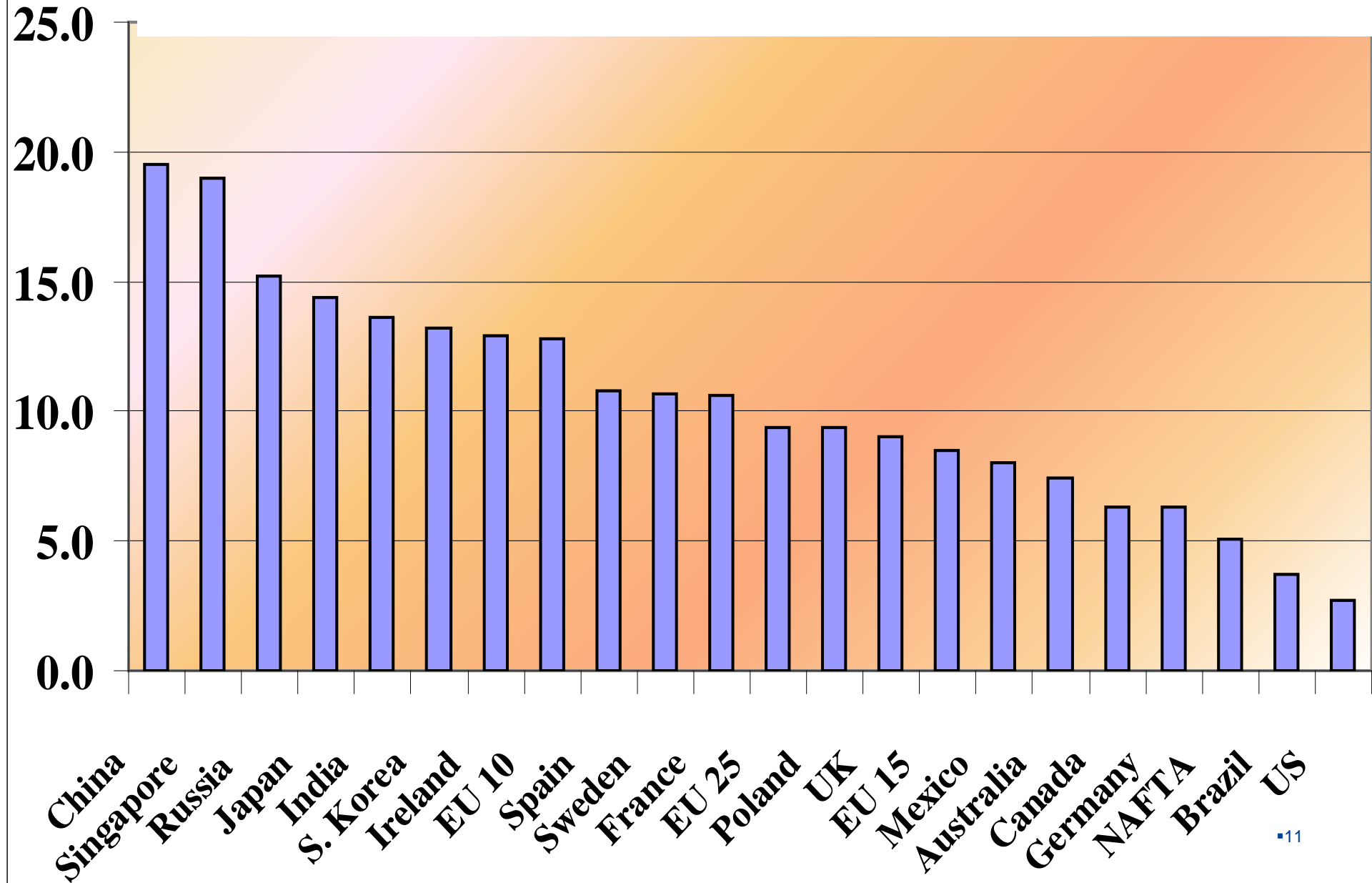
# Overall Scores



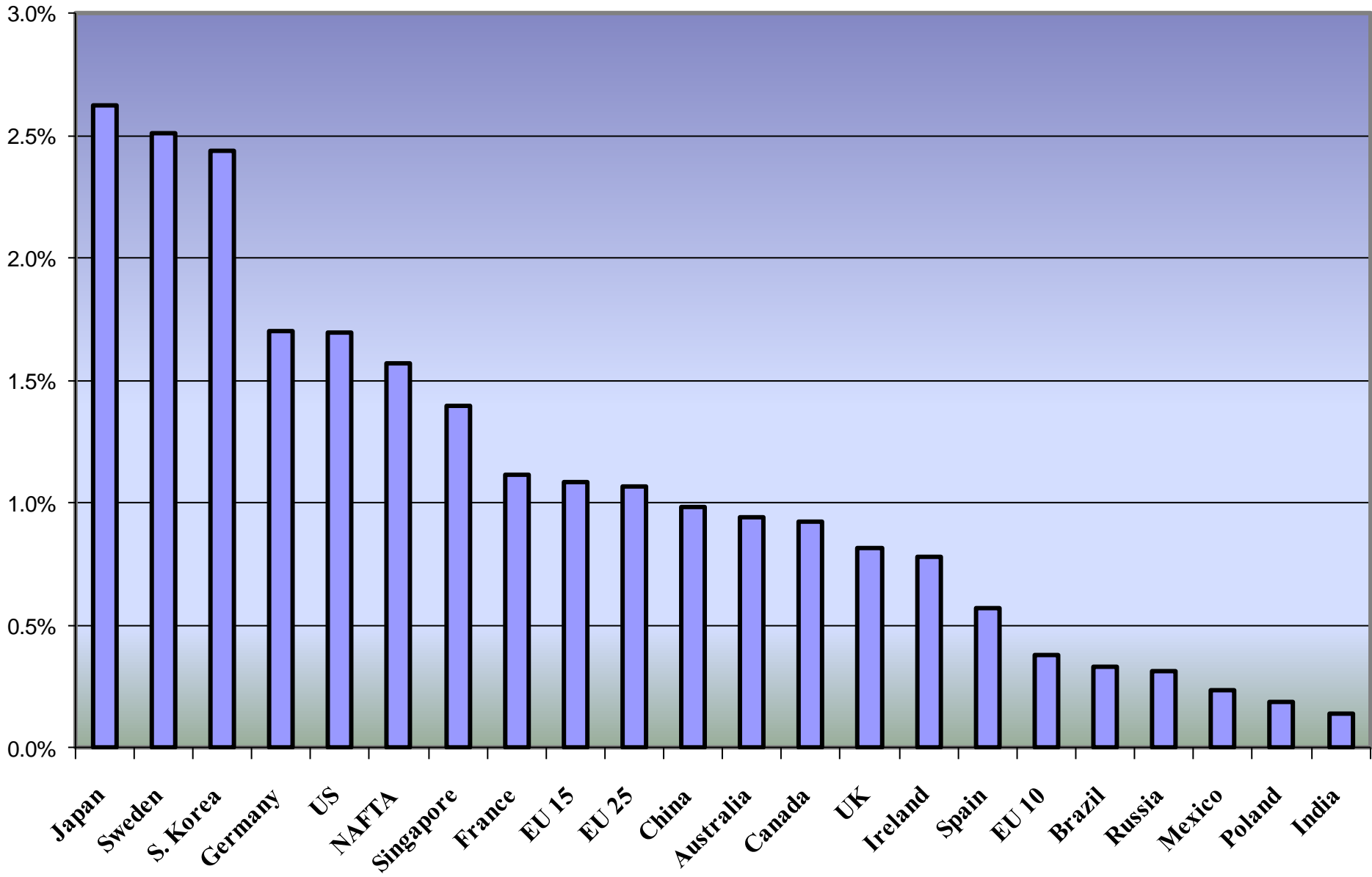
## ■ The U.S. is Behind....

1. China
2. Singapore
3. Estonia
4. Denmark
5. Luxembourg
6. Slovenia
7. Russia
8. Lithuania
9. Cyprus
10. Japan
11. Hungary
12. Slovakia
13. Czech Republic
14. India
15. Latvia
16. Austria
17. S. Korea
18. Ireland
19. EU-10
20. Spain
21. Sweden
22. France
23. Portugal
24. Malta
25. Belgium
26. EU-25
27. Poland
28. UK
29. EU-15
30. Mexico
31. Netherlands
32. Australia
33. Finland
34. Canada
35. Germany
36. Italy
37. NAFTA
38. Greece
39. Brazil
40. United States

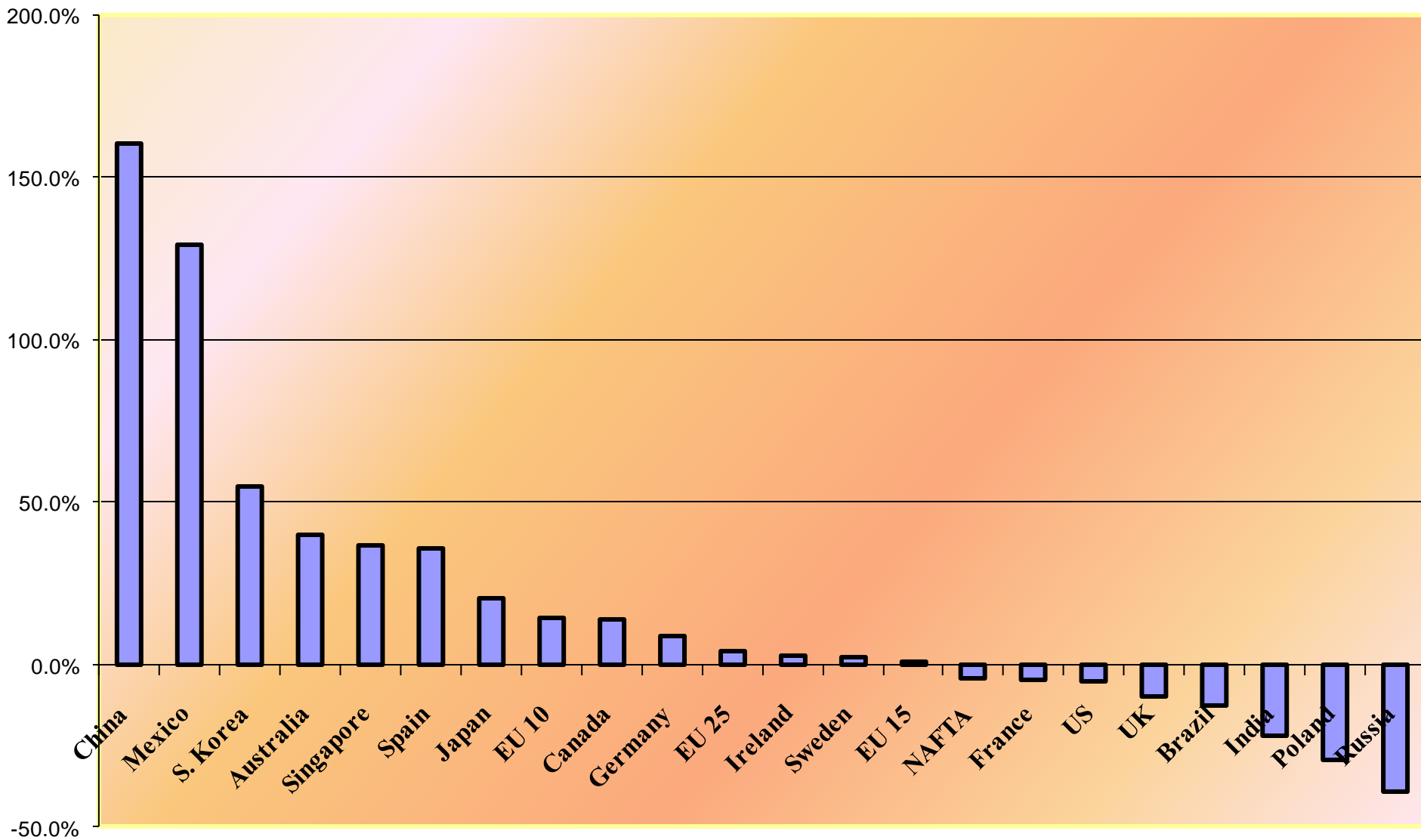
# Overall Change



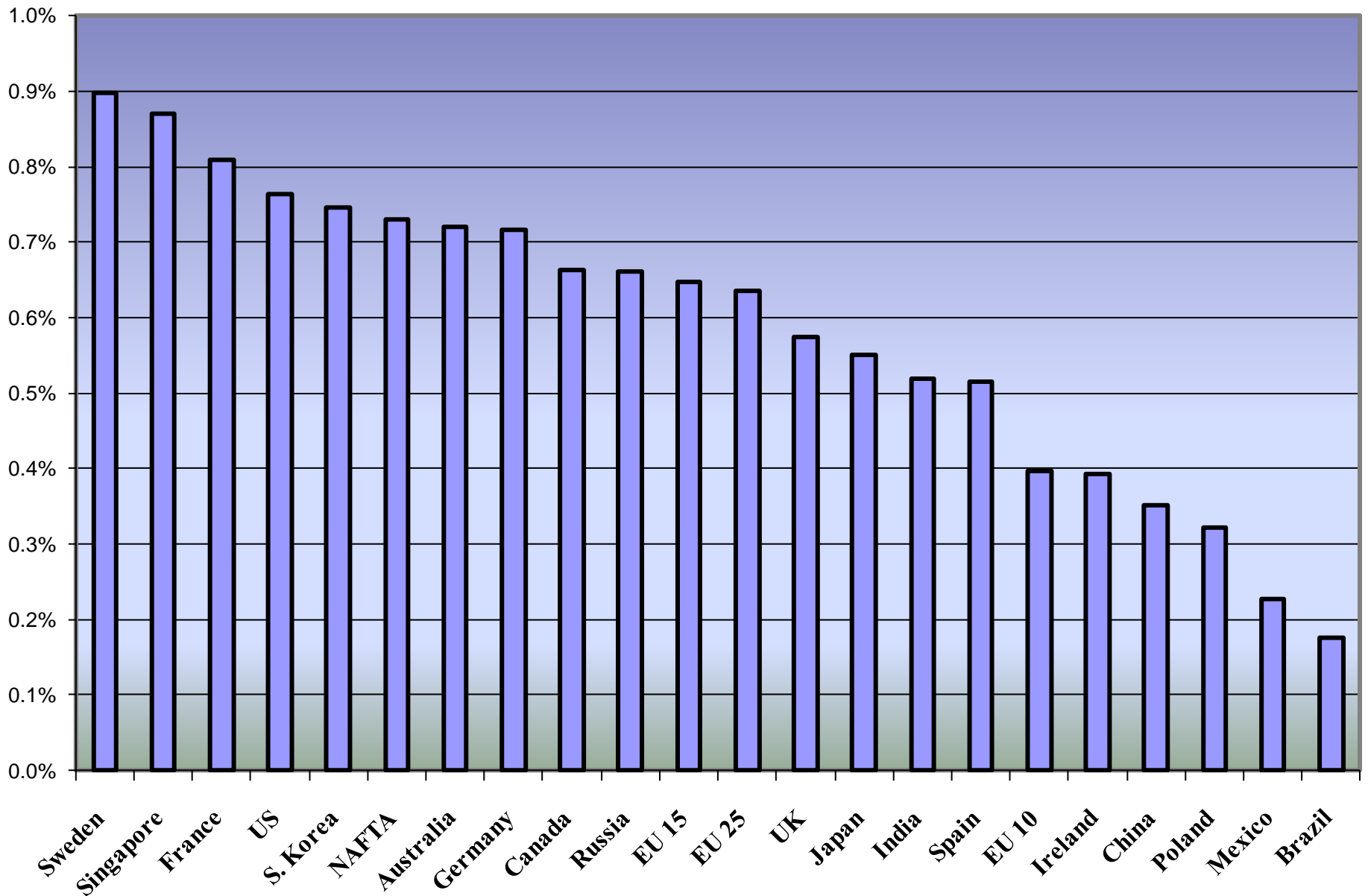
# Corporate R&D



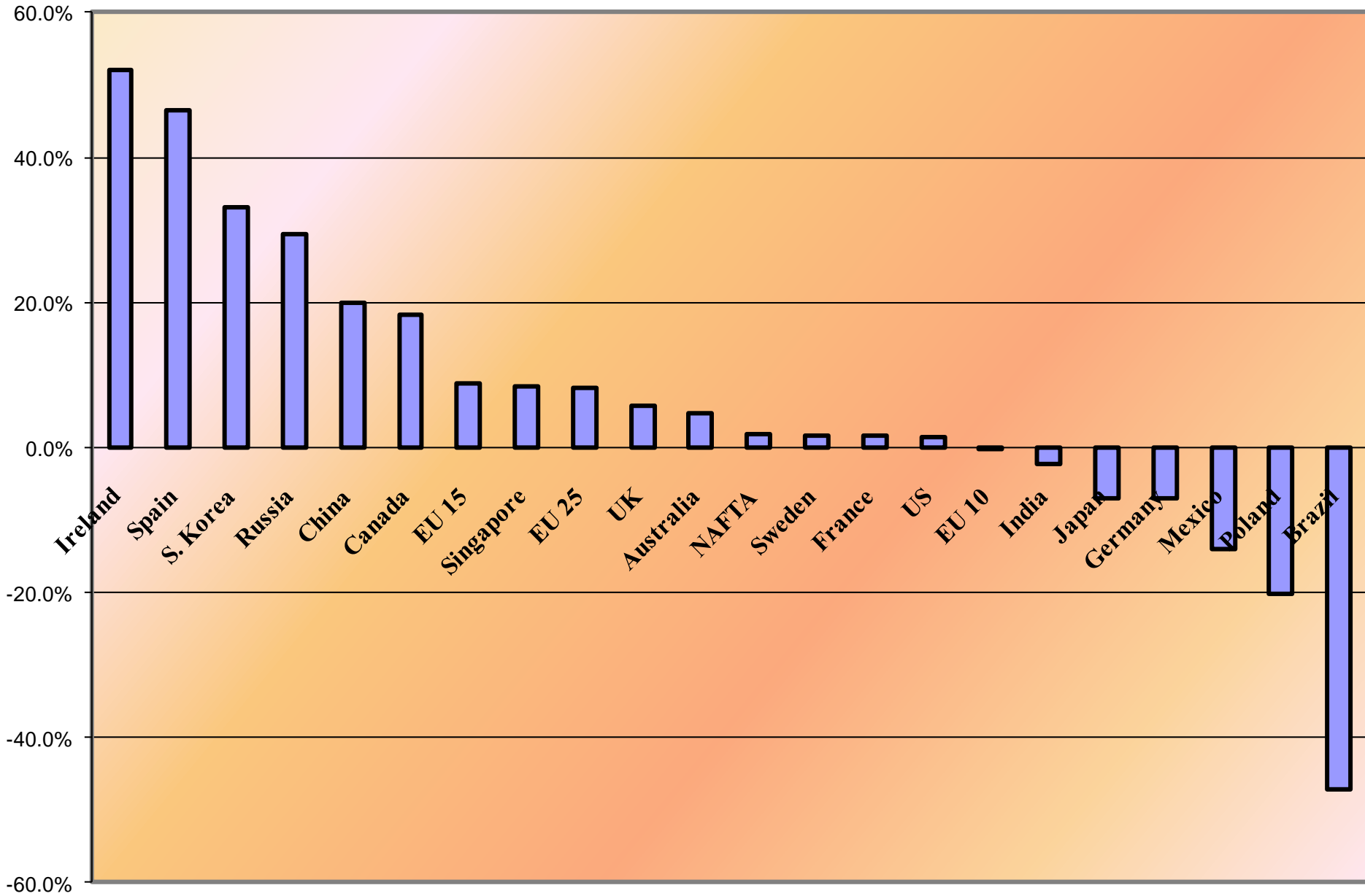
# ■ Corporate R&D Change: 2003-2007



# Government R&D



# Government R&D Change



## ■ Today's Presentation

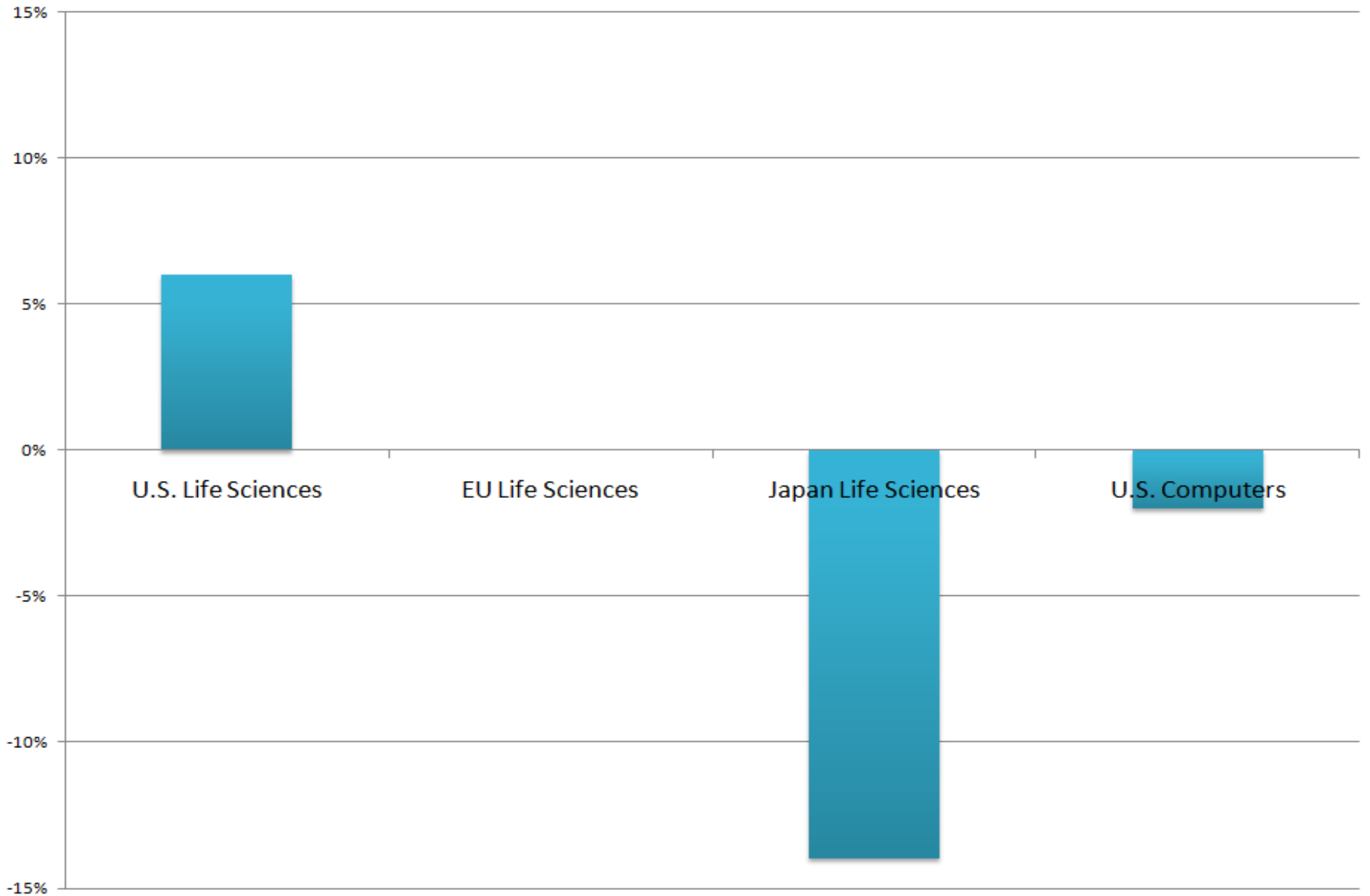
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**Assessing U.S. International Competitiveness**

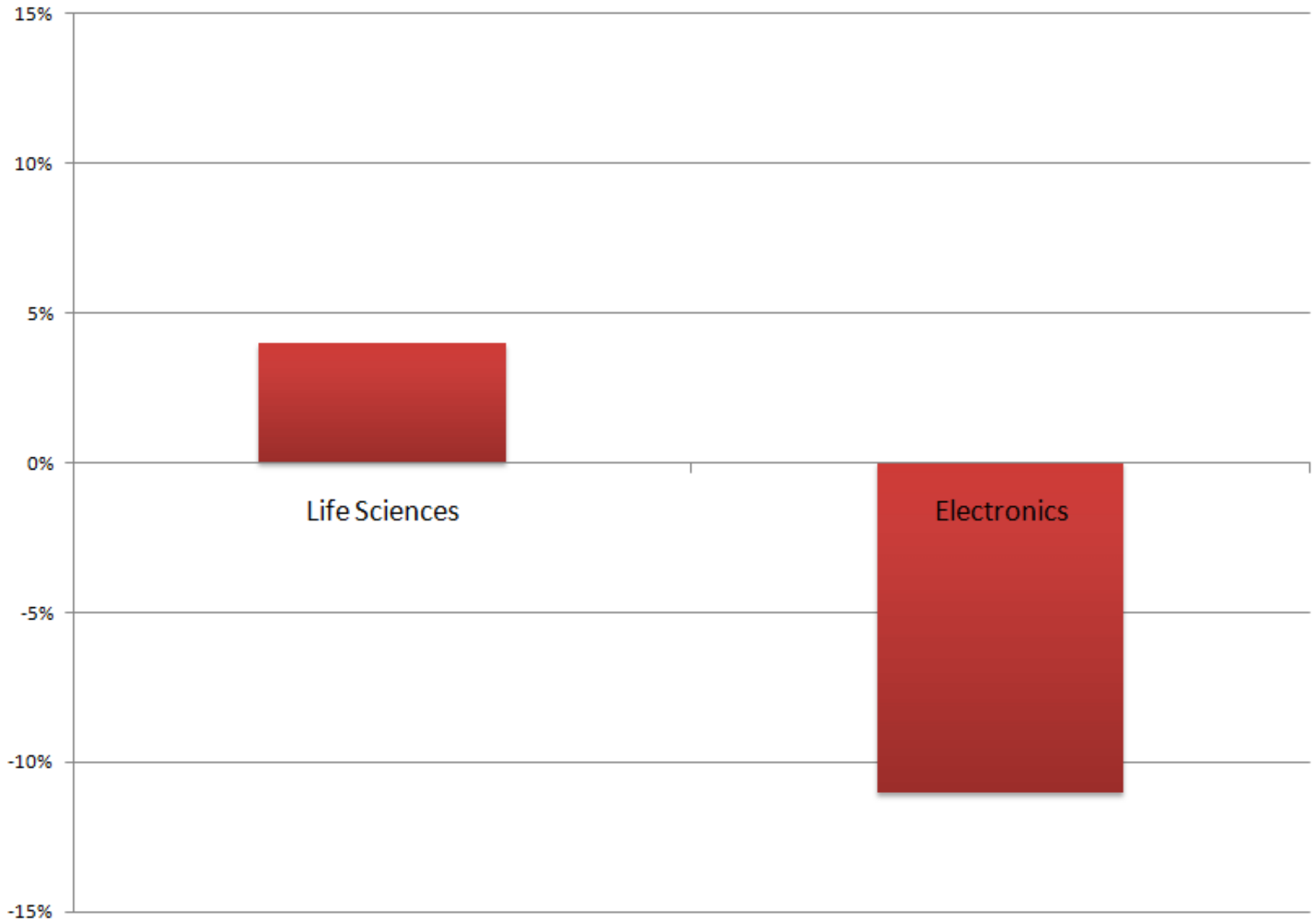
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**Assessing Life Sciences Competitiveness**

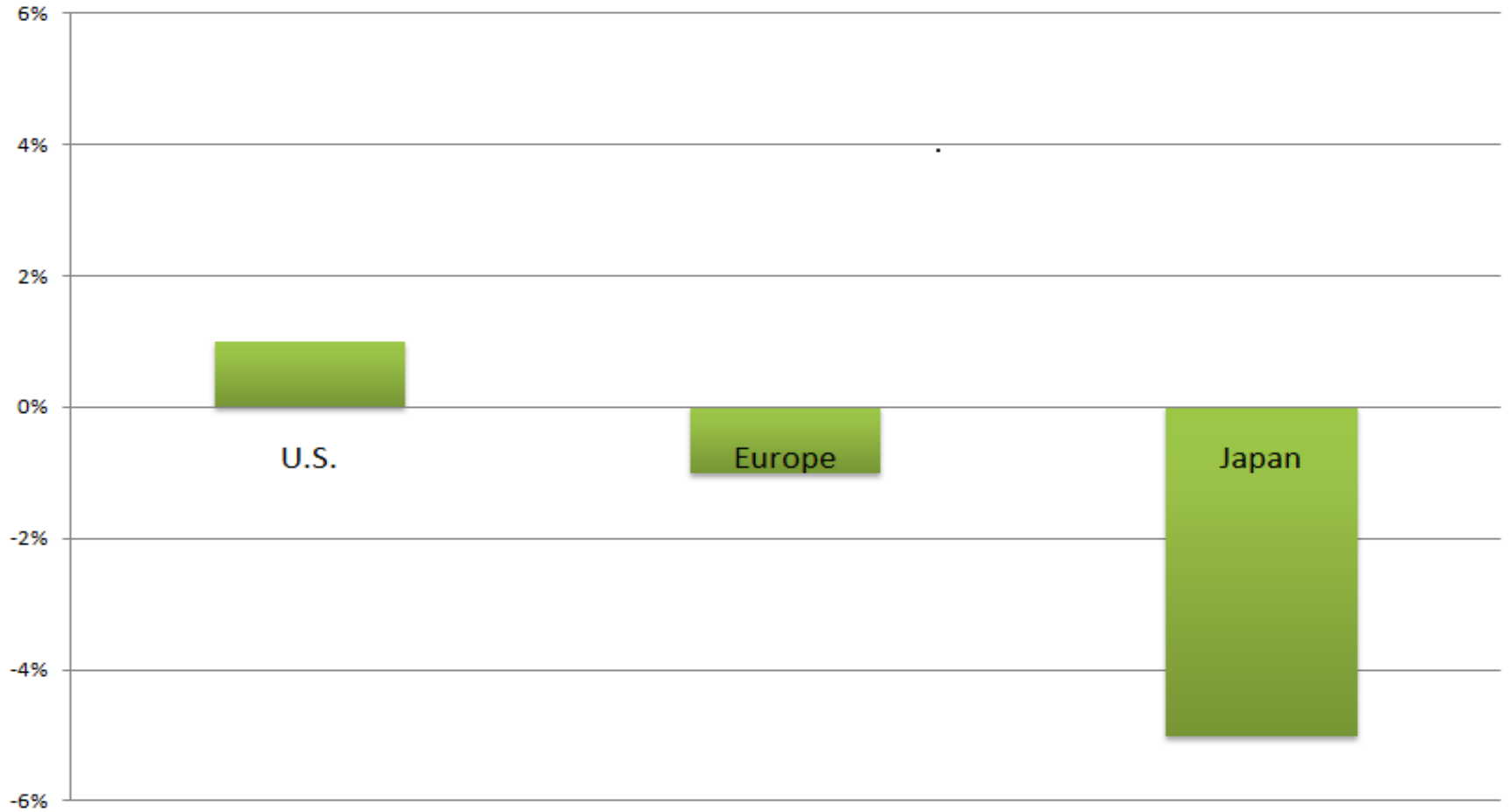
# Change in Share of Global Life Sciences Value-Added 1995-2007



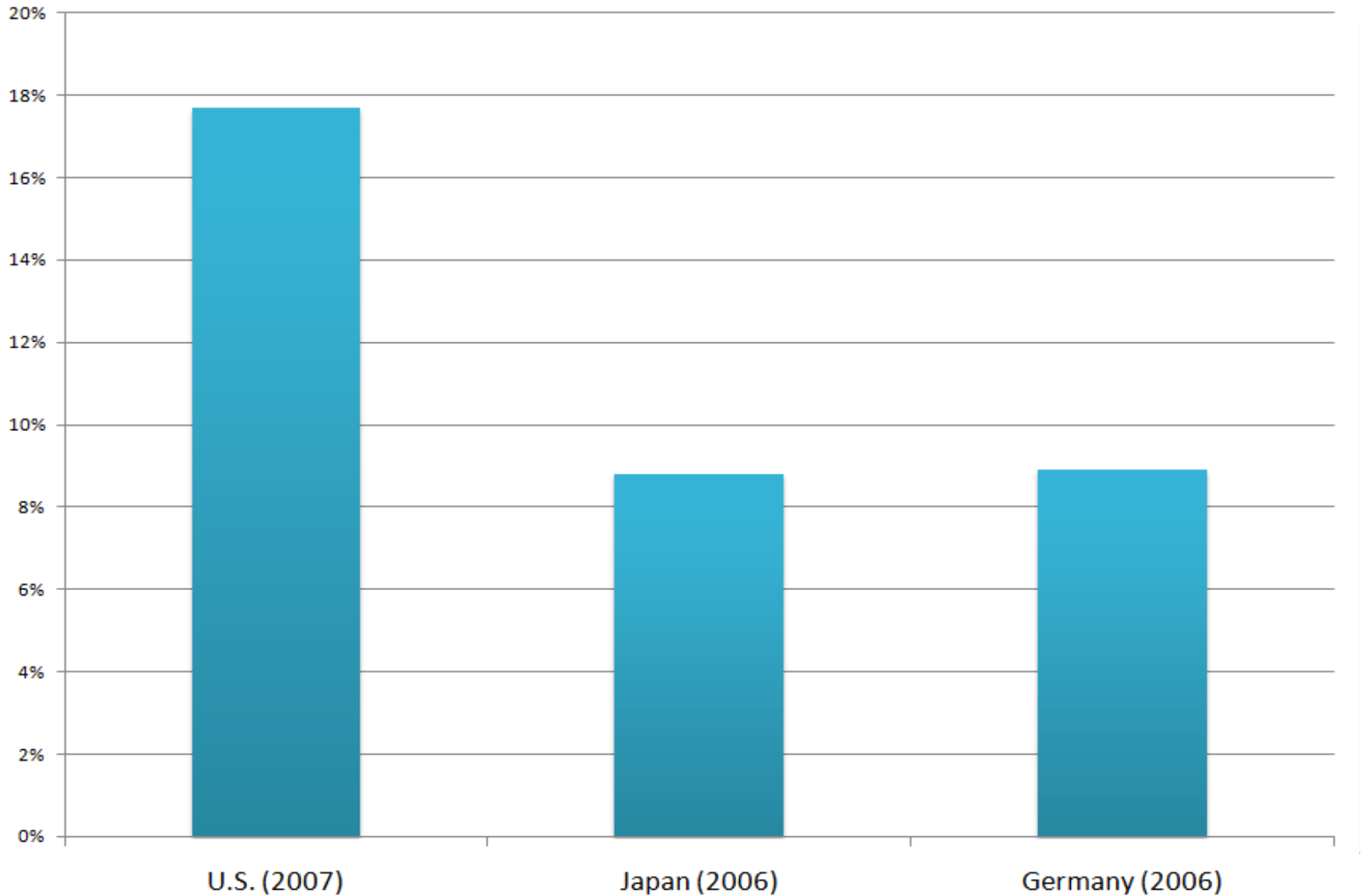
## ■ Change in Share of U.S. High Tech Exports 1995-2007



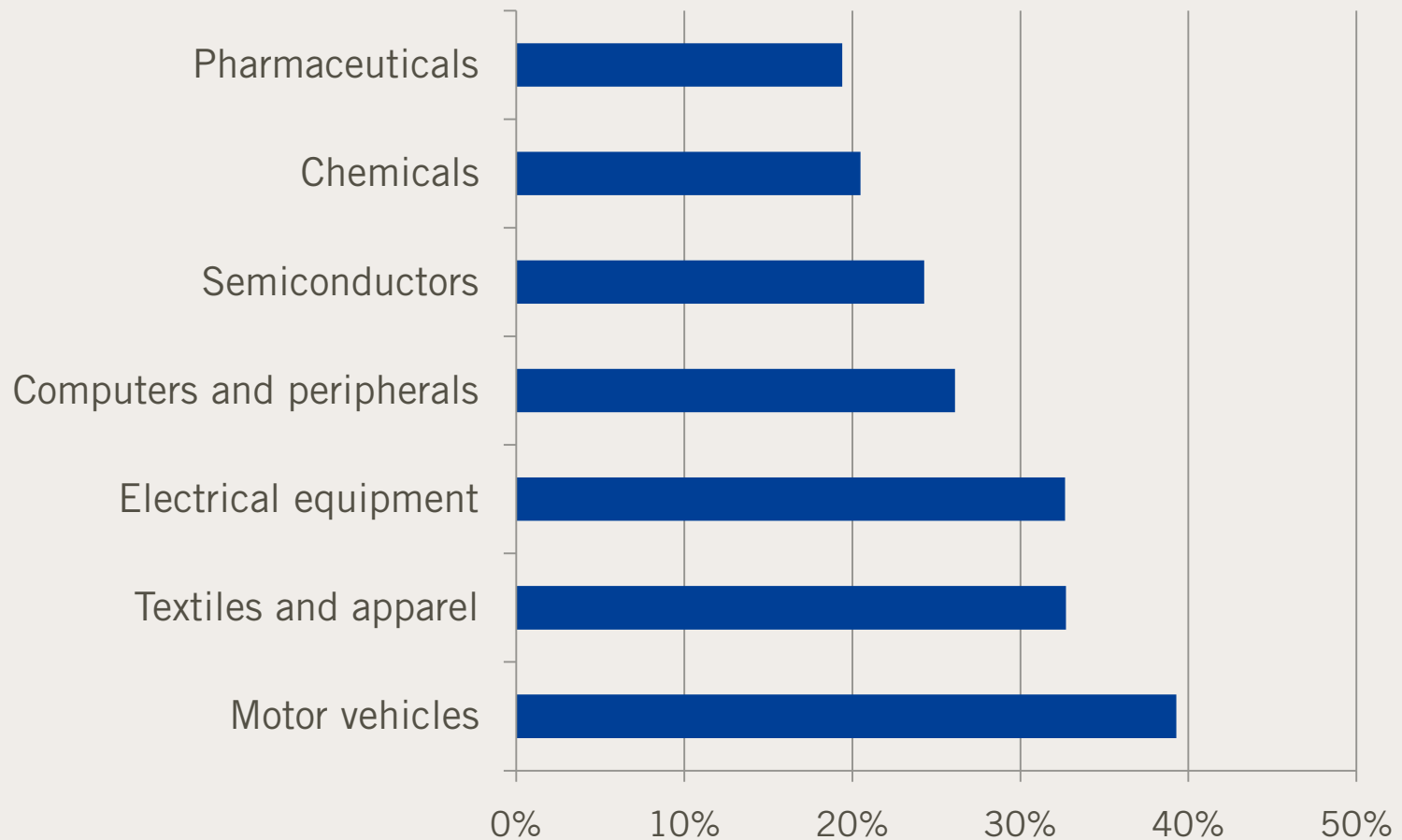
# Change in U.S. Patent Life Science Filings 1995-2007



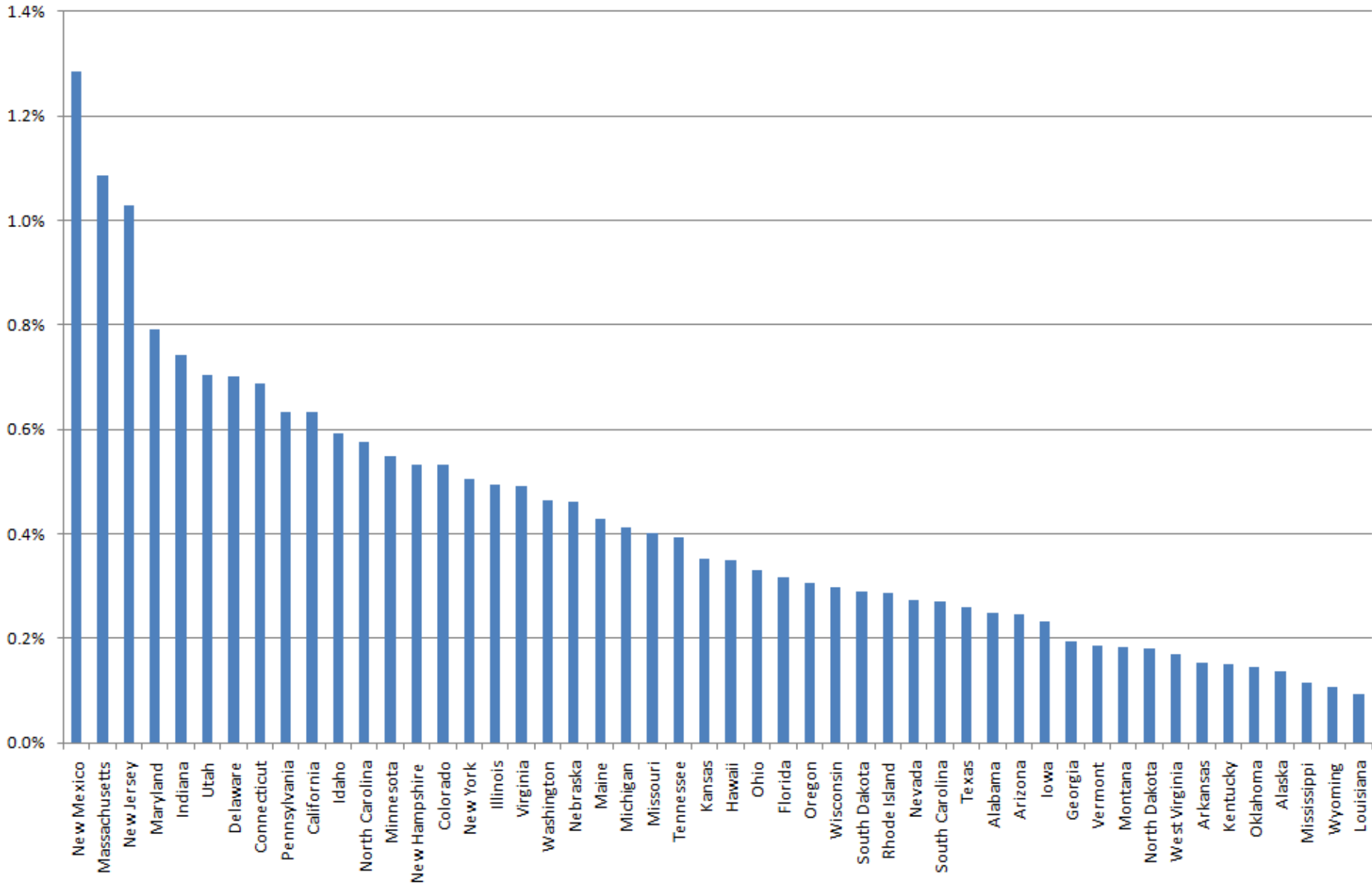
# ■ Share of R&D Conducted by Life Science Industry



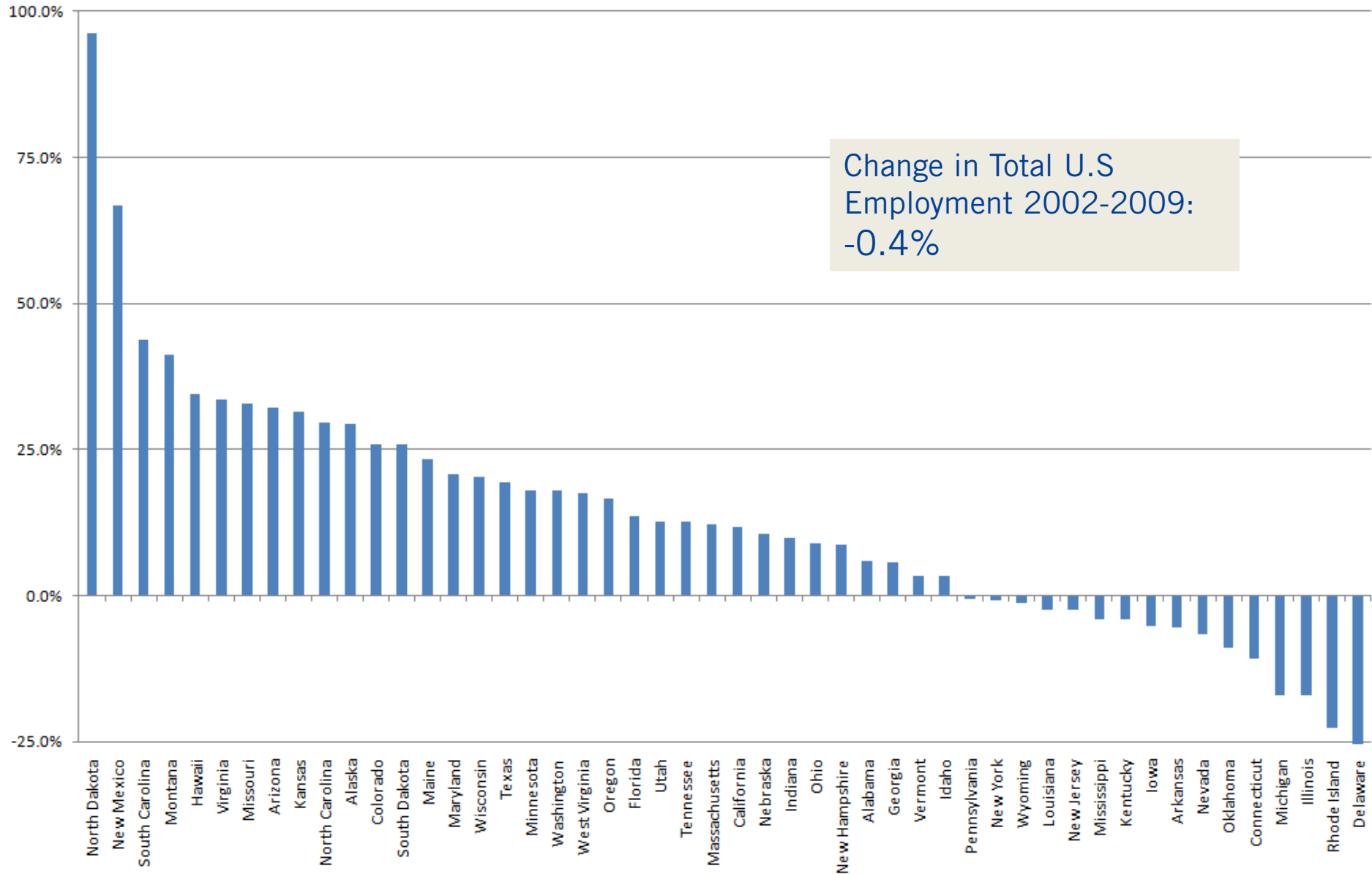
## ■ Percentage of Company R&D Performed Overseas



# ■ Biomedical Employees per Capita



# Change in Biomedical Employees 2002-2009



# Thank you!



[ratkinson@itif.org](mailto:ratkinson@itif.org)  
[www.itif.org](http://www.itif.org)