

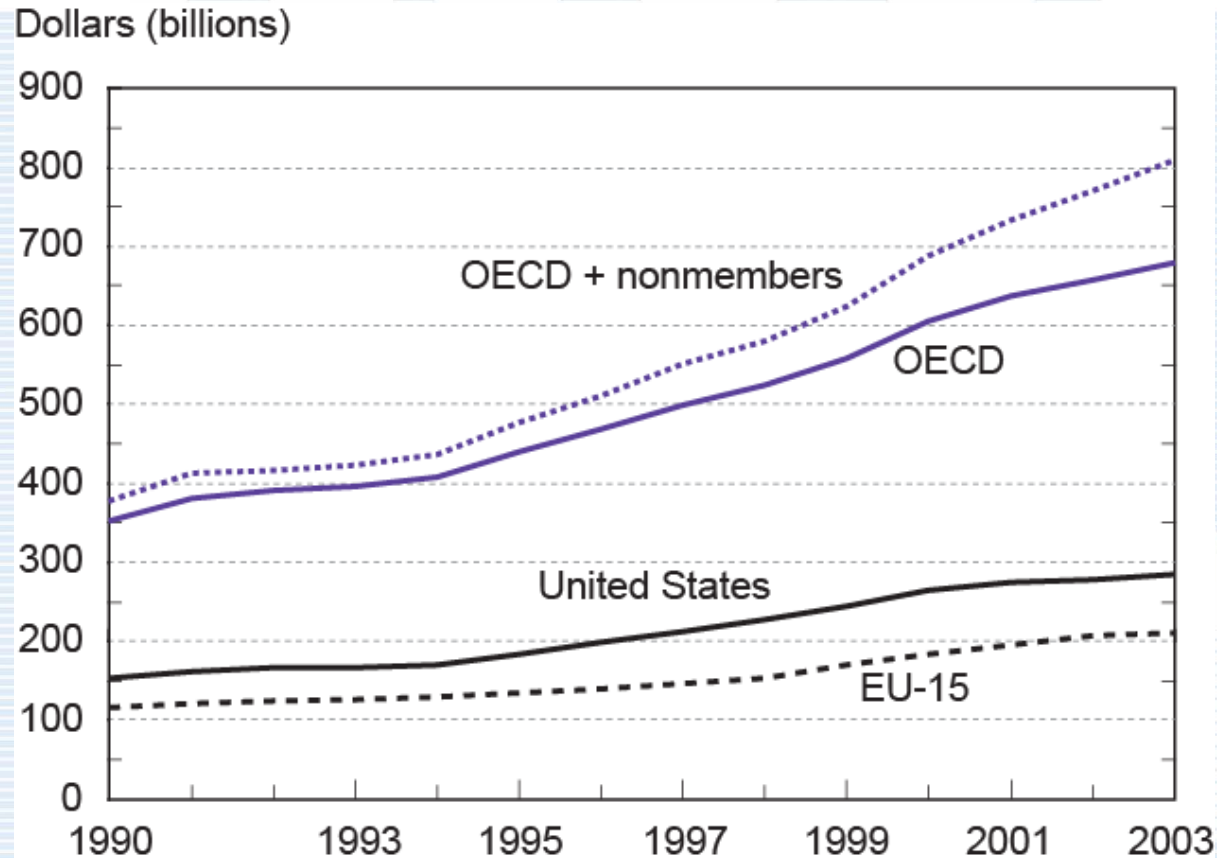


Leibniz
Gemeinschaft

Forschungsförderung in den USA

Dr. Marko Häckel

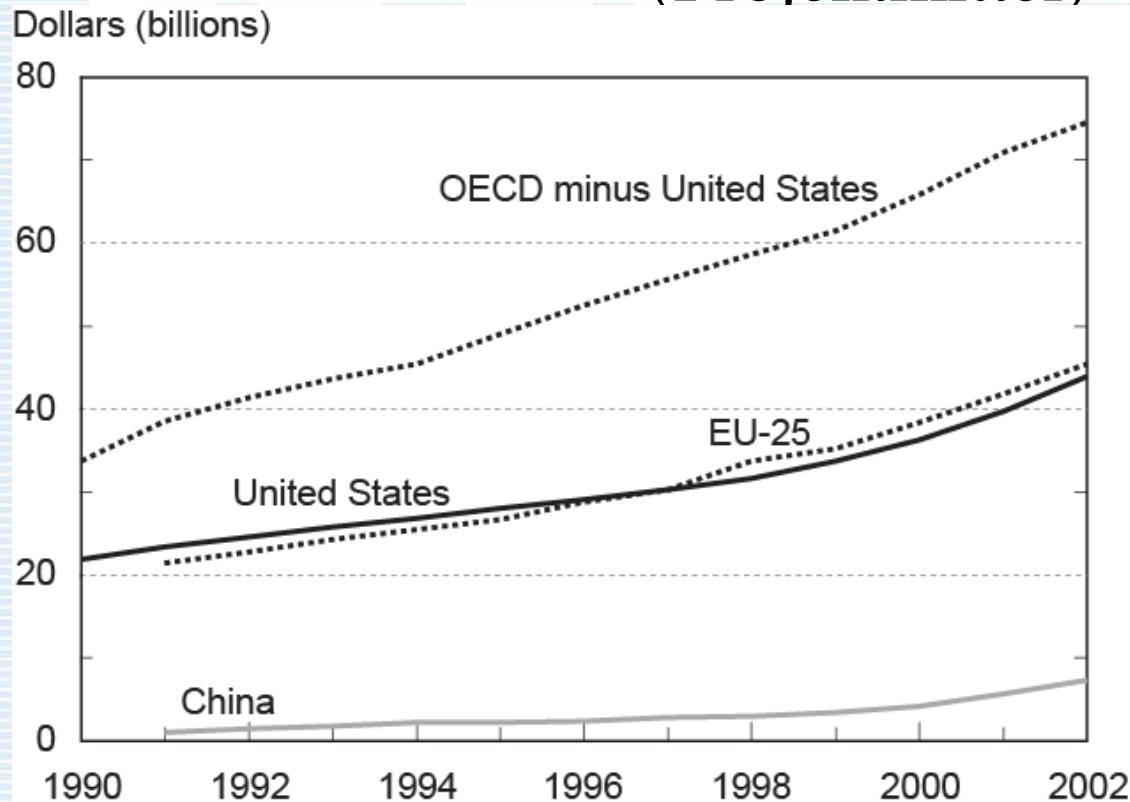
Forschungsausgaben weltweit



EU = European Union; OECD = Organisation for Economic Co-operation and Development

NOTE: Current dollars converted with purchasing power parities.

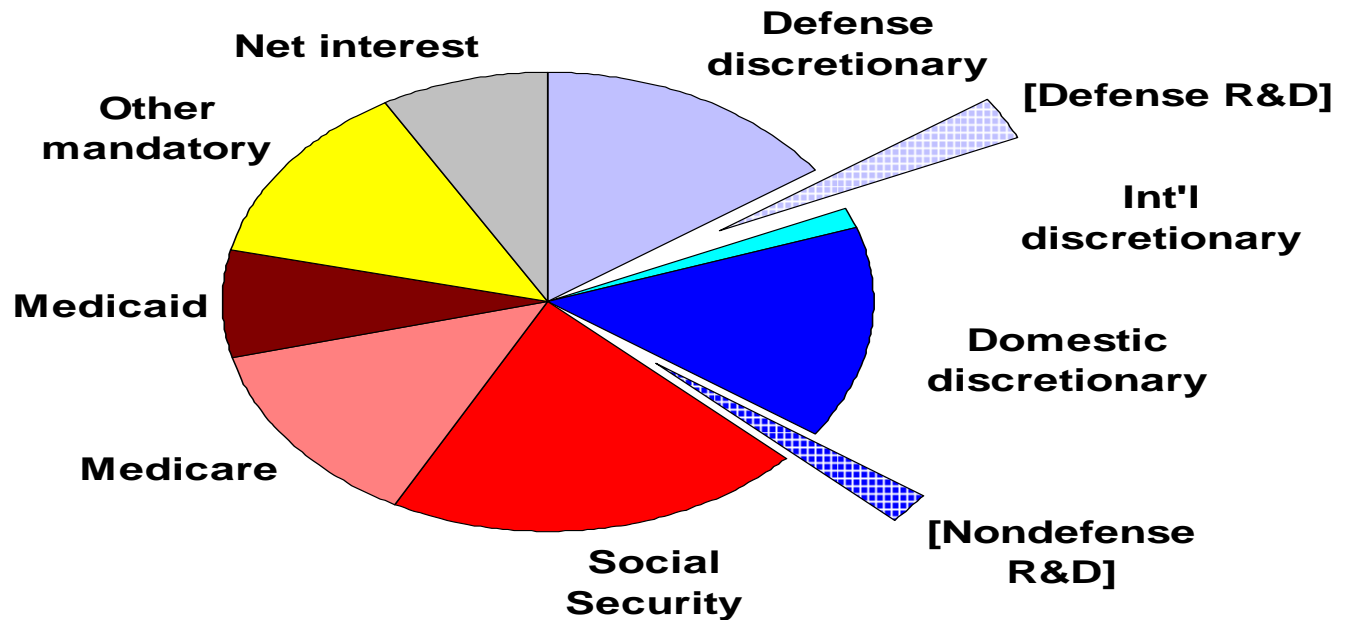
Forschungsausgaben im akademischen Sektor 1990–2003 (Projektmittel)



EU = European Union; OECD = Organisation for Economic Co-operation and Development

NOTES: All data calculated by OECD with purchasing power parities. EU-25 is EU-15 plus 10 new member states.

Der US-Haushalt: 2.6 Billionen \$



Note: Projected Unified deficit is \$390 billion.

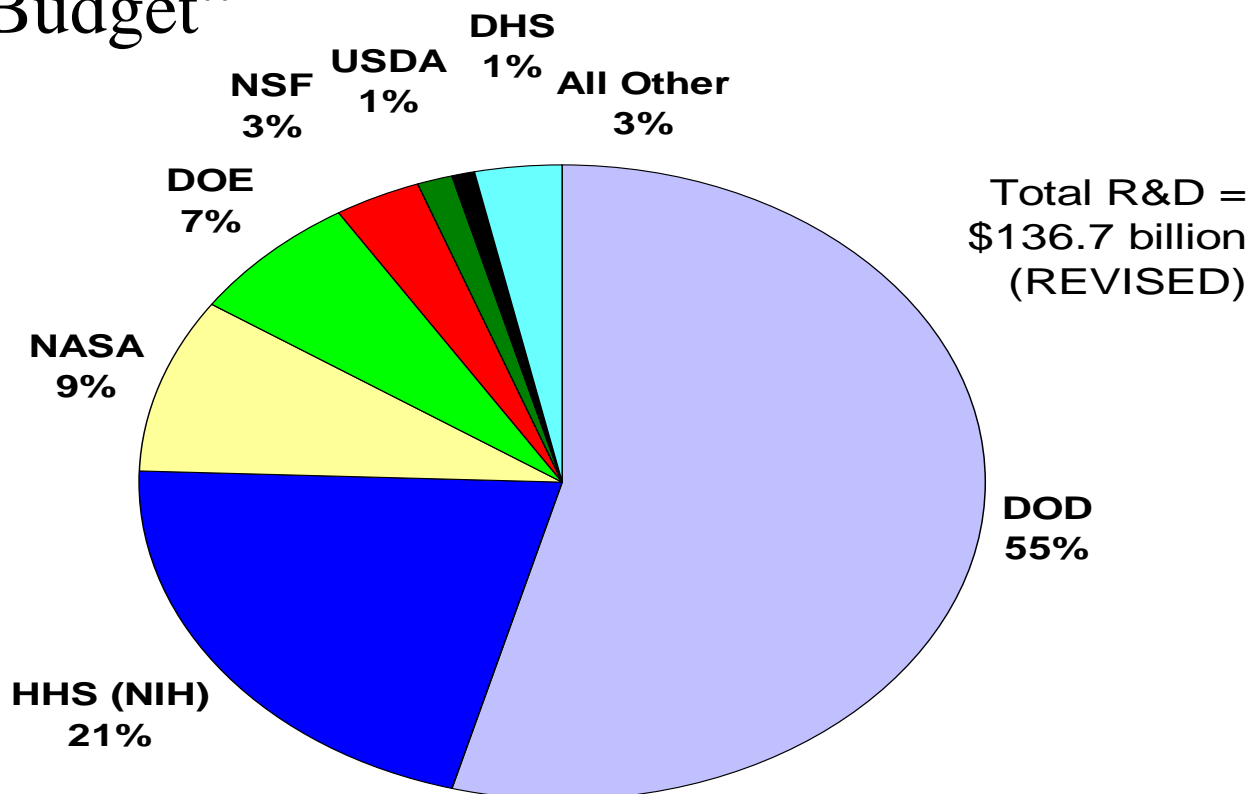
Figures exclude Iraq occupation costs, and Social Security reform.

Source: AAAS, based on *Budget of the United States Government FY 2006*.

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DoD: Department of Defense
HHS: Department of Health & Human Services
NIH: National Institutes of Health
DoE: Department of Energy
NSF: National Science Foundation
USDA.: U.S. Department of Agriculture
DHS: Department of Homeland Security

Forschungsförderer „Federal Budget“



Source: AAAS, based on OMB R&D Budget Data and agency estimates for FY 2006.
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Gremien / Organisationen

- Ministerien (Departments) und Bundesagenturen (Kontrolle durch 13 verschiedene Kongresskomitees)
- Office of Science and Technology Policy (OSTP) im Weißen Haus
- Presidential Council of Advisors on Science and Technology (PCAST)
- National Academy of Sciences (NAS)
- National Science Board (NSB)
- National Science Foundation (NSF)
- National Institute of Health (NIH)

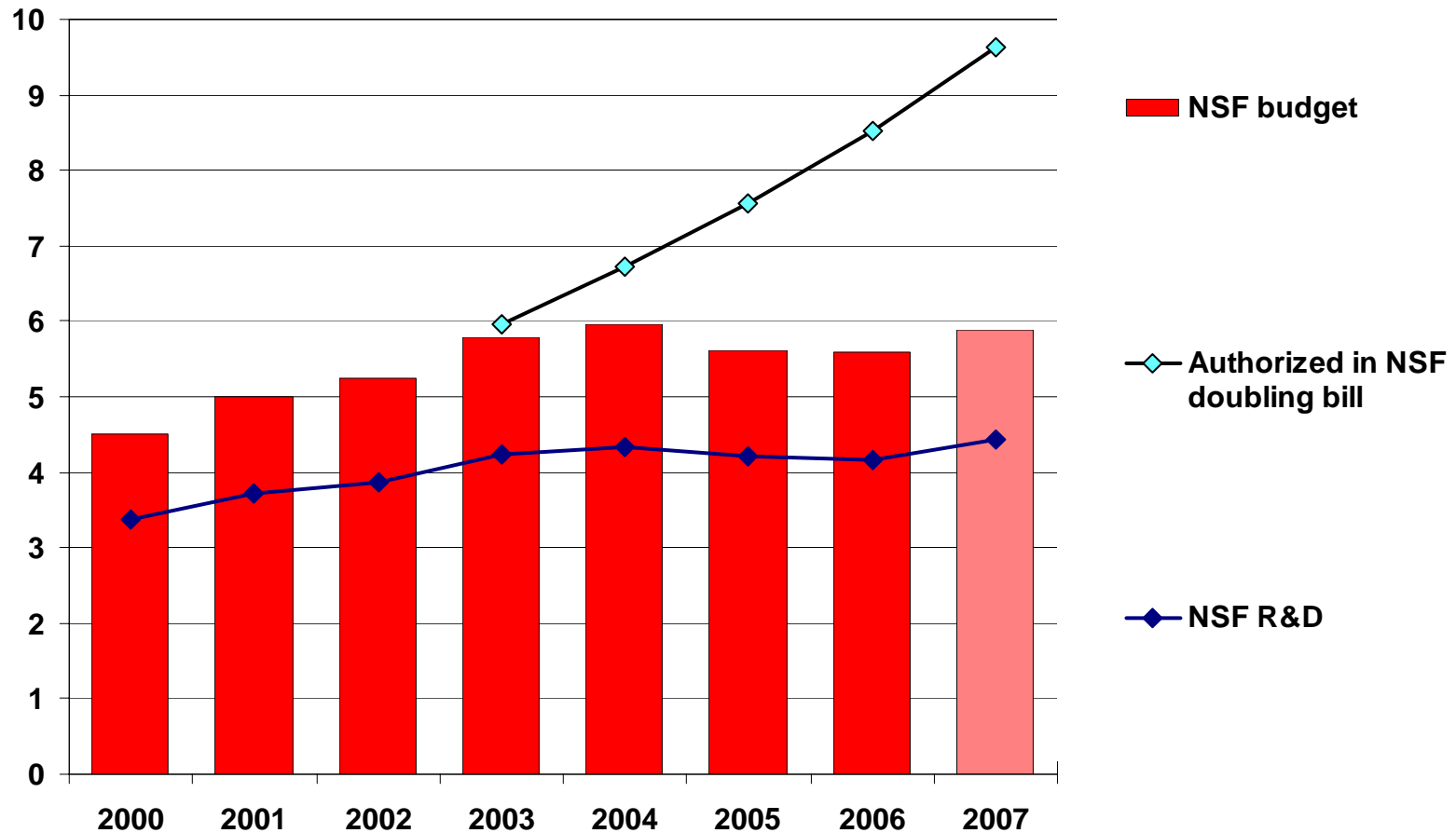


- Biological Sciences (BIO)
- Computer and Info Science and Eng (CISE)
- Engineering (ENG)
- Education and Human Resources (EHR)
- Geosciences (GEO)
- Math and Physical Sciences (MPS)
- Polar Research (OPP)
- Social, Behavioral and Economic Sciences (SBE)
- Cross-cutting Research

(ca. 20 % der Forschungsförderung an den
Universitäten), DFG Analogon

National Science Foundation Budget, FY 2000-2007

(budget authority in billions of constant FY 2006 dollars)



Source: National Science Foundation, Public Law 107-368, and latest AAAS estimates of FY 2007 budget. FY 2007 is budget request.

Authorized levels are authorizations in Public Law 107-368 (Dec. 2002).

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Department of Defense: Förderkultur

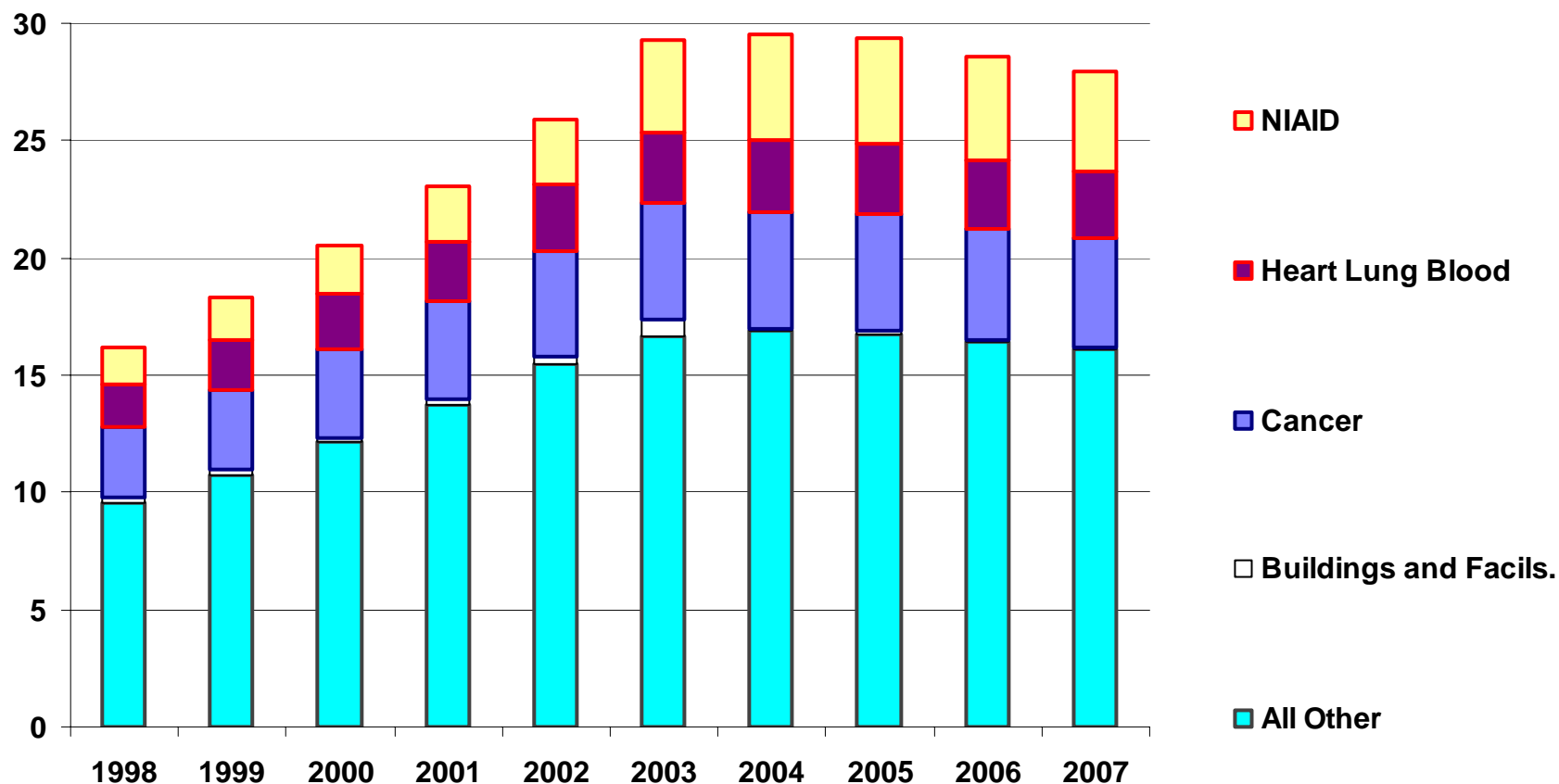
- Highly mission-oriented
- Research designated:
 - 6.1 – basic research
 - 6.2 – applied research
 - 6.3 – applications
 - DARPA funds more basic, high-risk research
but basic research also funded at other agencies
- Highly directed by Program Officers
 - Personal relationship very important!
 - Connection to defense companies helpful
- Intramural research

National Institutes of Health

- World's largest supporter of biomedical, behavioral, and social science research and training.
 - FY 2006 \$28.6 billion
 18,636 employees
- 28 Institutes and Centers (ICs).
 - Categorical ICs: Organs and diseases
 - Non-categorical ICs
- Extramural and Intramural Research.

National Institutes of Health Budget by Institute, 1996-2007

(budget authority in billions of constant FY 2006 dollars)

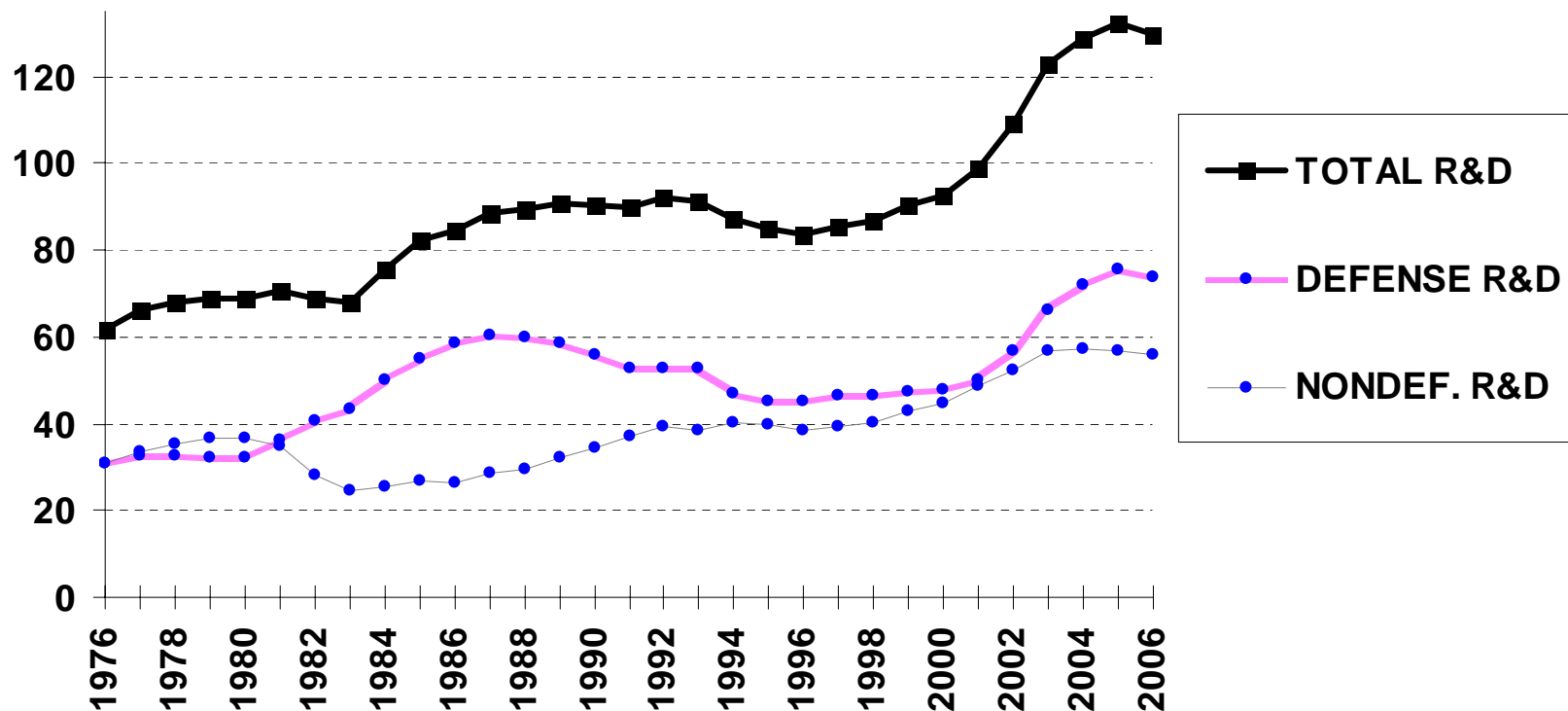


Source: AAAS R&D reports from NIH budget documents 1996-2006. 2007 is FY 2007 request. Adjusted for inflation using OMB's GDP deflators.
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Trends in Federal R&D, FY 1976-2006

in billions of constant FY 2005 dollars

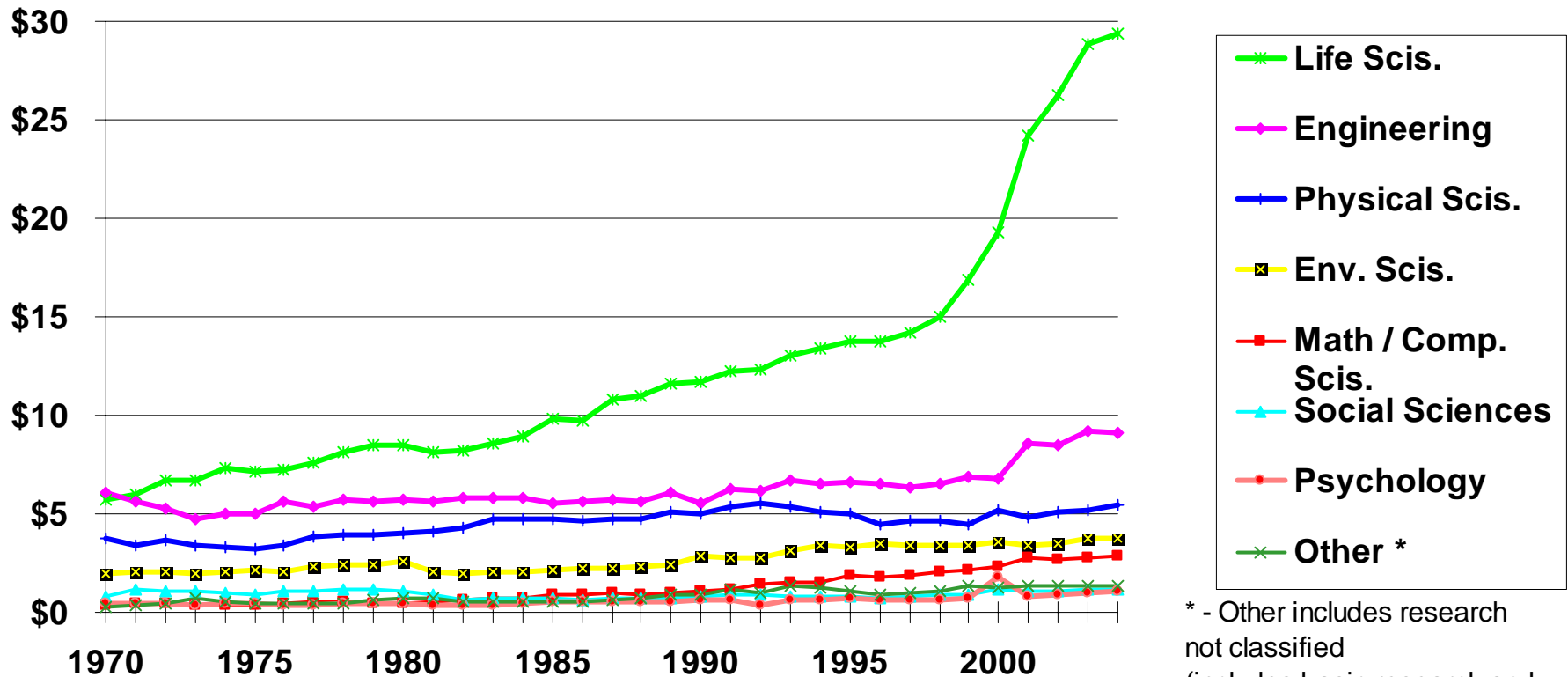


Source: AAAS analyses of R&D in *AAAS Reports VIII-XXX*. FY 2006 figures are President's request. R&D includes conduct of R&D and R&D facilities.
MARCH '05 REVISED © 2005 AAAS



Trends in Federal Research by Discipline, FY 1970-2004

obligations in billions of constant FY 2004 dollars



* - Other includes research not classified (includes basic research and applied research; excludes development and R&D facilities)

Source: National Science Foundation, *Federal Funds for Research and Development FY 2002., 2003, and 2004, 2004*. FY 2003 and 2004 data are preliminary. Constant-dollar conversions based on OMB's GDP deflators.
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