

ADC Directors Meeting
September 24, 2005
San Diego

National Institute on Aging (NIA)

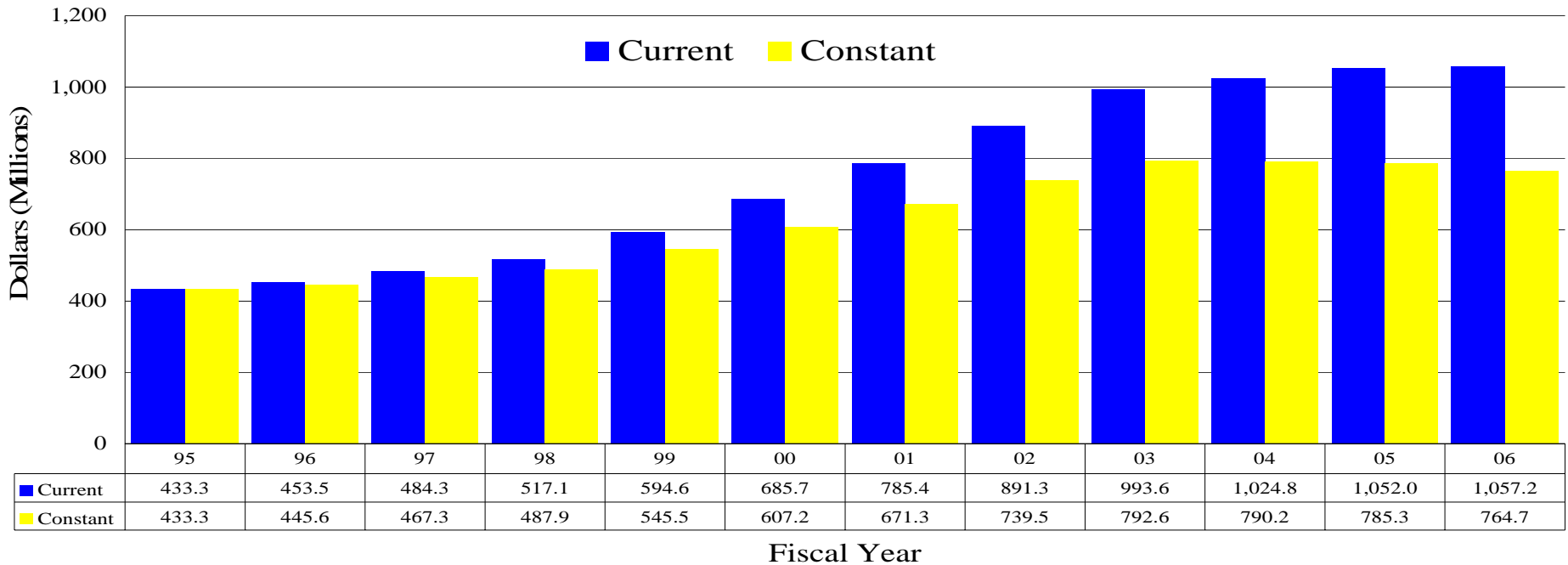
The \$1.057 billion NIA appropriation anticipated for the coming fiscal year (the FY 2006 President's Budget) is only 0.5% more than in FY 2005 and far less than the 3.2% inflation rate for medical research predicted by the Biomedical Research and Development Price Index.

A factor not included in the budget prediction is a cut likely to occur further along in the appropriations process. Congress has taken a rescission - an across-the-board cut in domestic discretionary spending - two years in a row to fund last-minute priorities. In FY 2005, the NIA appropriation started out at \$1.061 billion. (\$3.4 million more than the FY 2006 proposal). The rescission took back some \$8.7 million of that amount, bringing the institute's FY 2005 funding to \$1.052 billion.

The Institute lost \$6.6 million in the same way in FY 2004.

National Institute on Aging (NIA)

Obligations in Current and FY 1995 Constant Dollars



- * **Current dollars** - dollar value of a good or service in terms of prices prevailing at the time the good was sold or service rendered.
- * **Constant dollars** - dollar value adjusted for inflation to demonstrate "real" increases. Determined by dividing current dollars by an appropriate price index, a process generally known as "deflating."

NIH Authorization - Major Issues

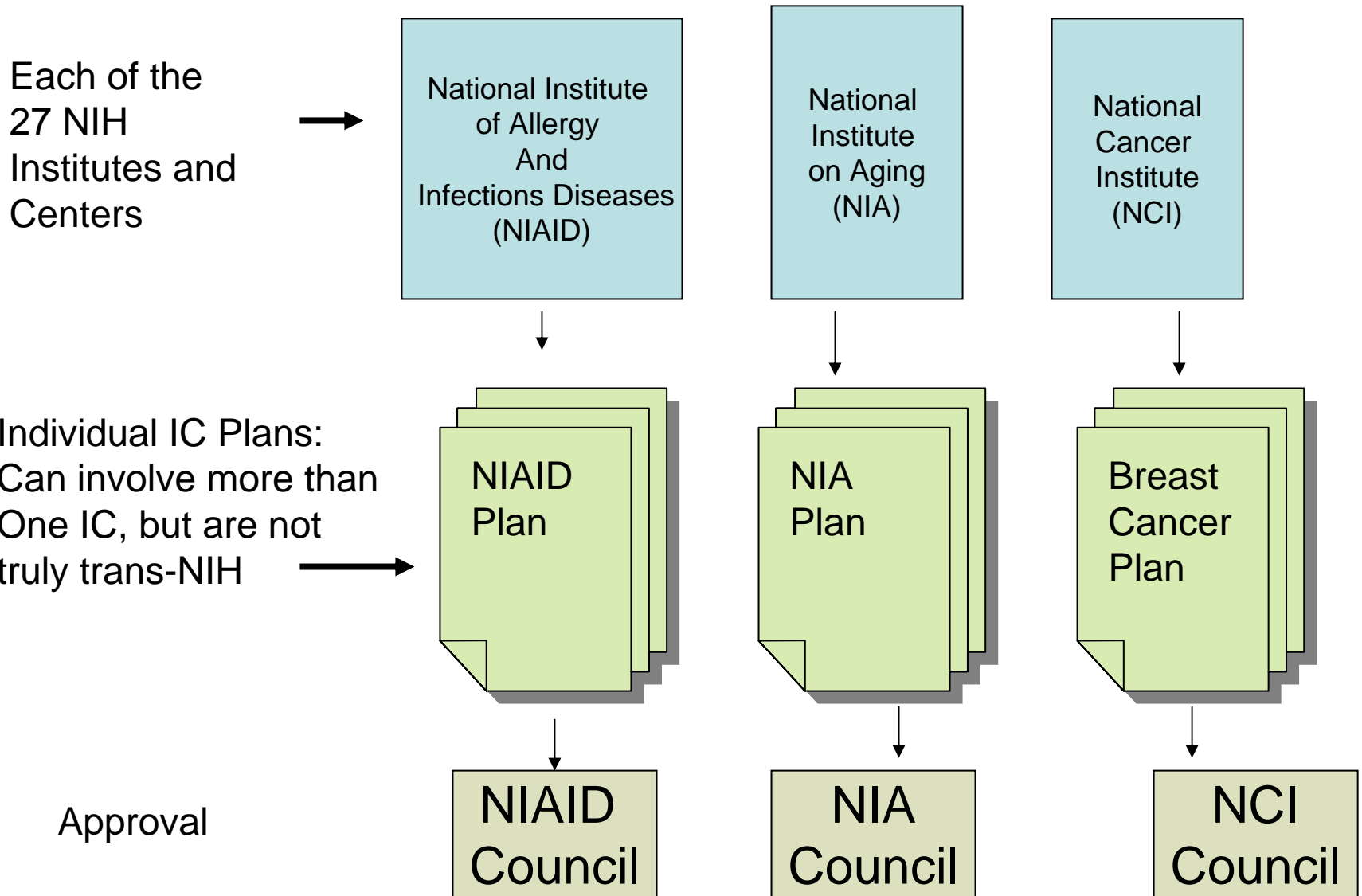
- 1) Budget (authorization) caps – versus “funds as appropriated”**
- 2) Individual IC versus “bundled” appropriations**
- 3) Common fund for trans-IC planning and initiatives**

Proposed Creation of NIH Office of Portfolio Analysis and Strategic Initiatives (OPASI):

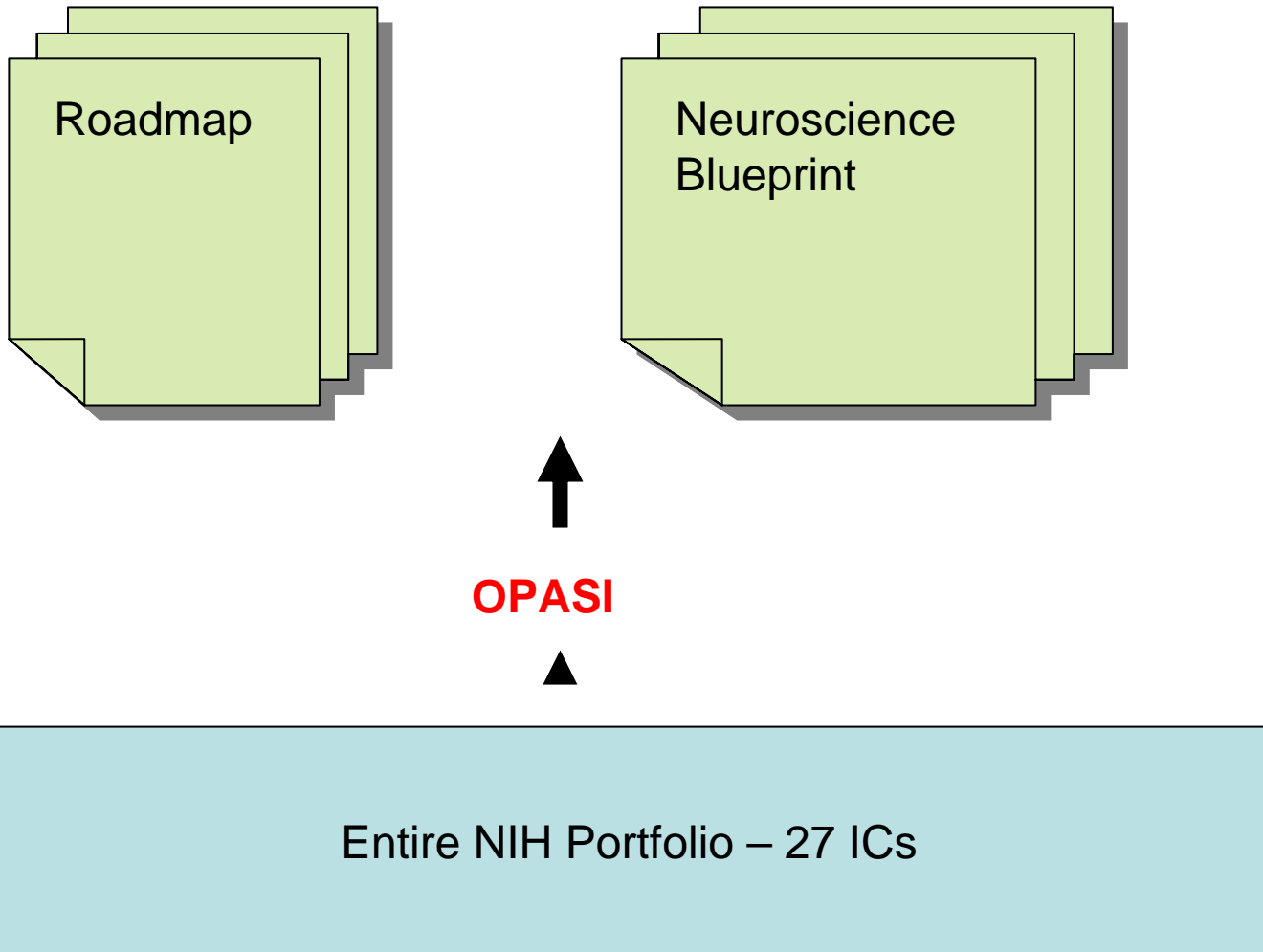
NIH (OD and the ICs) needs better methods and better information for managing our large and complex scientific portfolios.

NIH needs an entity to coordinate trans-NIH scientific initiatives and to provide everyone with better tools for making decisions.

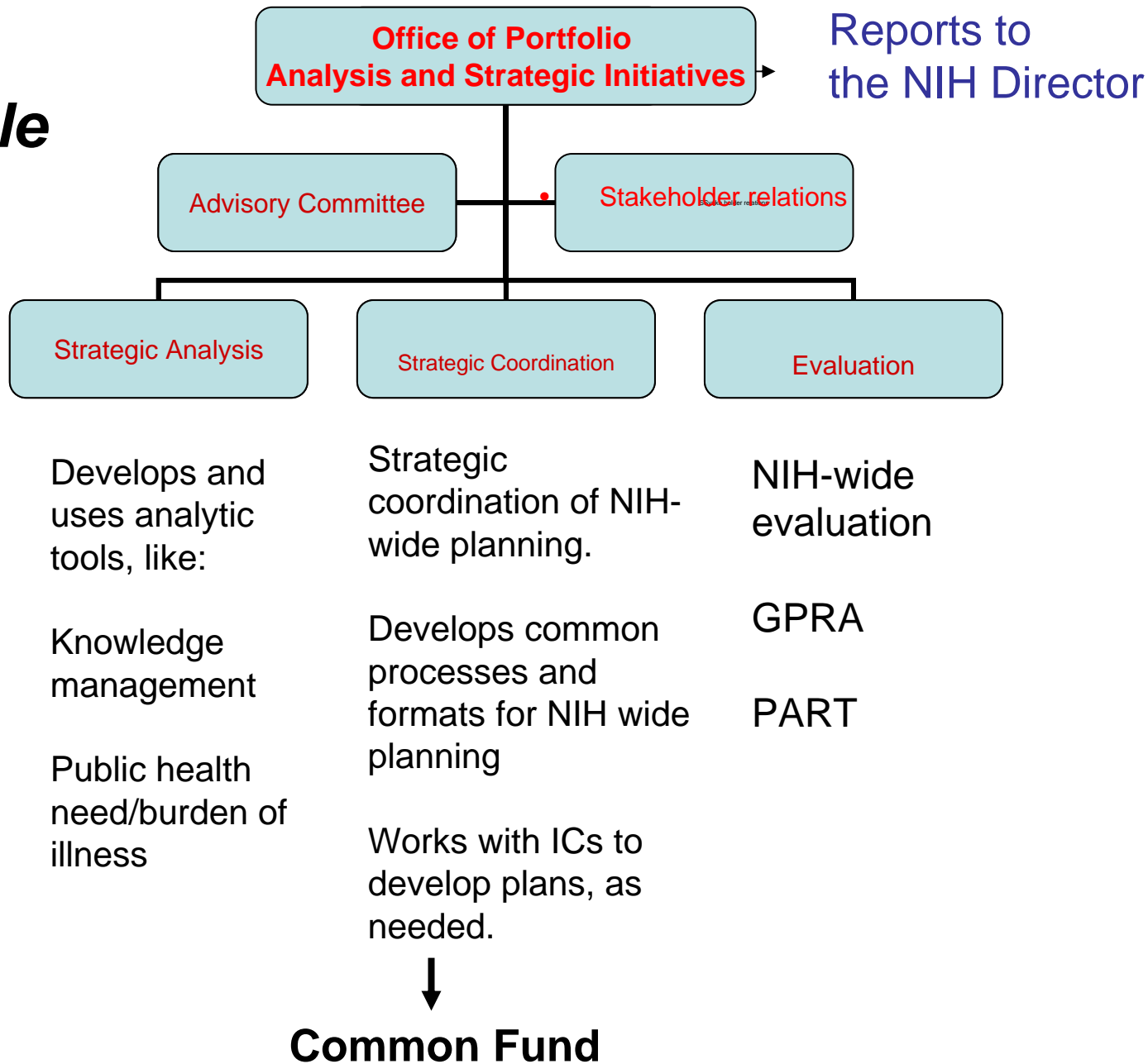
Priority setting at the level of the Institute



New level of coordination of planning needed



- **One Possible Model**

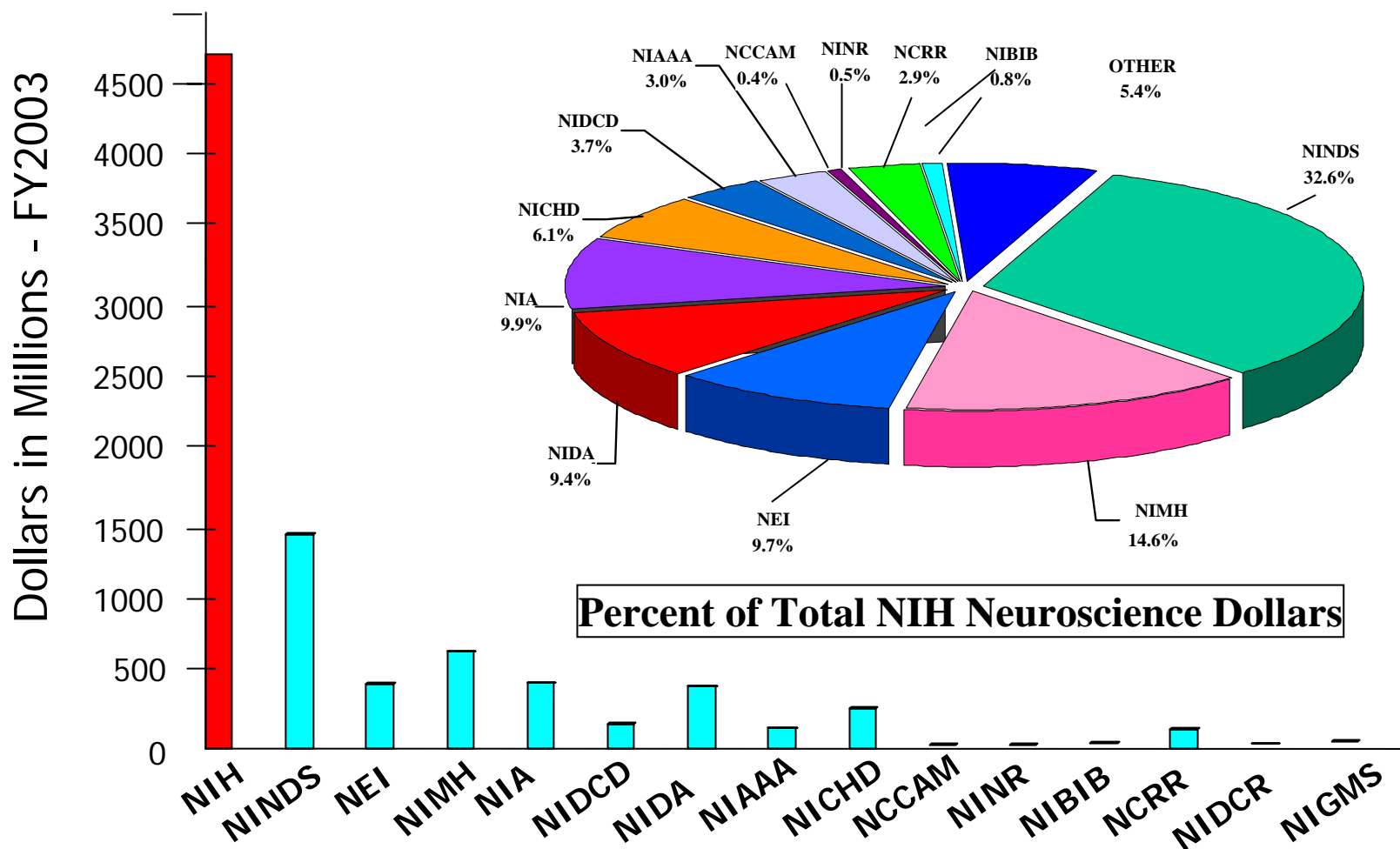


NIH Neuroscience Blueprint

*Building Collaboration and a
Toolkit for the Future*



Neuroscience Investments at 15 NIH ICs > \$4.5 Billion



Research on the Nervous System at NIH

- More than 60 cooperative programs across Institutes or Centers in the last five years (GENSAT, MMRRC, Microarray Consortium, etc.)
- Support that spans a broad spectrum, such as pre- and post-doctoral training, pediatric neuroimaging, gene expression, neurodegeneration, and stem cells

Neuroscience Blueprint History

- NIH Director announces Neuroscience Blueprint
- Inventory of major NIH neuroscience efforts
- Meetings of, and recommendations from, consultants to individual ICs
- Neuroscience Blueprint Consultants meeting
- Outreach to Societies and Advocates
- Public launch of Neuroscience Blueprint at the Society for Neuroscience Meeting
- Strategies, agreements, & organizational structure established
- FY05 and FY06 initiatives launched

Neuroscience Blueprint Rationale

By pooling resources and expertise, the neuroscience Institutes and Centers can:

- Take advantages of economies of scale
- Reduce redundancy
- Confront challenges too large for any single Institute or Center
- Develop resources, tools, and infrastructure that will serve the entire neuroscience community

Neuroscience Blueprint ICs (15 of 27)

NCCAM	NIBIB	NIDCR
NCRR	NICHD	NIGMS
NEI	NIEHS	NIMH
NIA	NIDA	NINDS
NIAAA	NIDCD	NINR

Neuroscience Blueprint Collaborative Funding

Each participating IC contributes a percentage of its **neuroscience** research budget:

- FY05 – 0.15%
- FY06 – 0.30%
- FY07 – 0.45%
- FY08 – 0.60%
- FY09 – 0.60%

~ \$100 million over 5 years from 15 ICs

FY06 PB includes \$12M from OD

NIH Neuroscience Blueprint Initiatives FY2005

- Course Development in the Neurobiology of Disease
- Gene Expression Nervous System Atlas (GENSAT)
- Neuroscience Microarray Consortium
- Pediatric MRI Study of Normal Brain Development
- Neuroscience Information Framework
- International Neuroinformatics Coordinating Facility

NIH Neuroscience Blueprint Initiatives FY2006

- Neuroscience Core Grants
- Neuromouse Project
- New Ways to Image Neural Activity
- Neuroimaging Clearinghouse
- Cross-Institute Neuroscience Training Programs
 - Neurobiology of Disease
 - Computational Neuroscience
 - Neuroimaging
- NIH Neurological and Behavioral Function Assessment Toolbox

Neuroscience Blueprint FY2007 Initiative Planning

- Approx \$30 million total budget
 - \$10MM available for new initiatives (can be supplemented by ICs)
- Bold effort with impact on trans-Institute neuroscience
- Would not be done otherwise
- Cross-disciplinary

Course Development in the Neurobiology of Disease RFA

Development of graduate courses that

- Span the breadth of nervous system disorders
- Emphasize links and common mechanisms
- Address pathology and basic underlying science
- Increase crosstalk between clinical/basic investigators and departments

Neuroscience Information Framework

A publicly accessible inventory of neuroscience resources

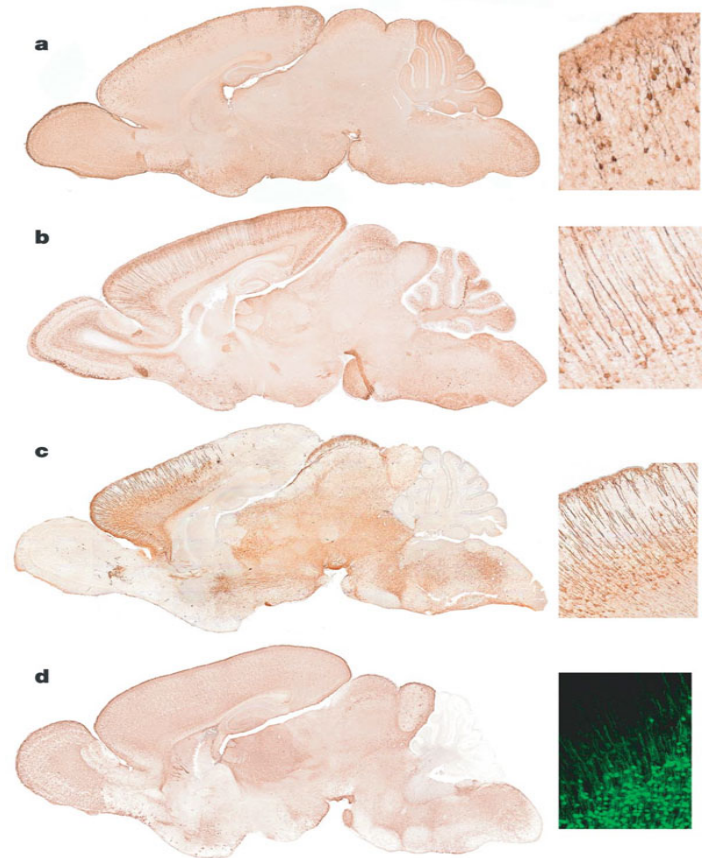
- Global in perspective
- Web-based
- Searchable



Gene Expression Nervous System Atlas (GENSAT)

Blueprint support enables

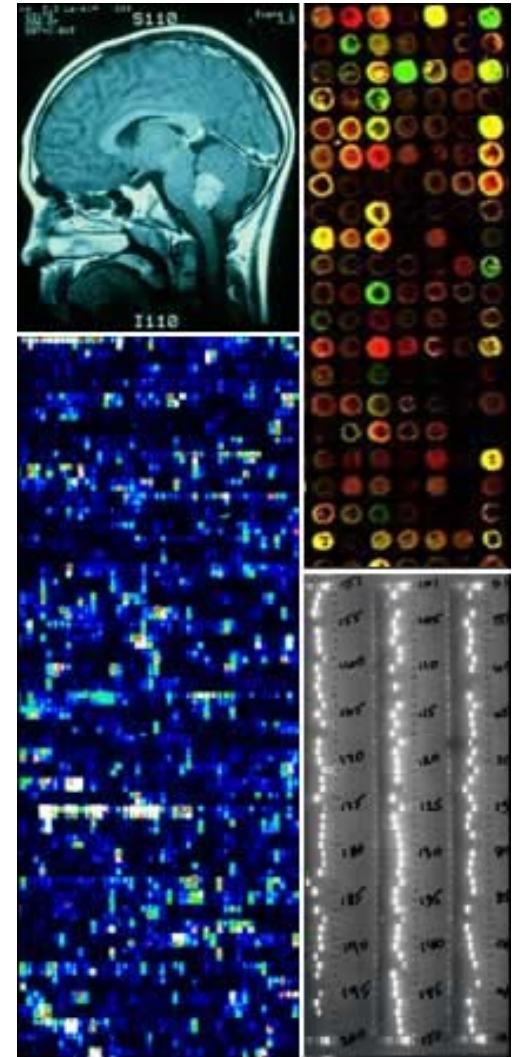
- Feasibility studies to expand GENSAT to analyze eyes, ears, pain pathways
- Development of annotated database
- Storage/distribution of mouse strains



from GENSAT—Layer-specific gene expression in the developing cerebral cortex

Neuroscience Microarray Consortium

- Expansion of NINDS/NIMH program
- All neuroscience NIH grantees have access
- Offers gene expression and SNP genotyping services
- Data is made publicly available on web



Pediatric MRI Study of Normal Brain Development

Blueprint support enables

- Recruitment of additional research subjects
- Collection of DTI data
- Improve analysis capabilities



High field MRI System

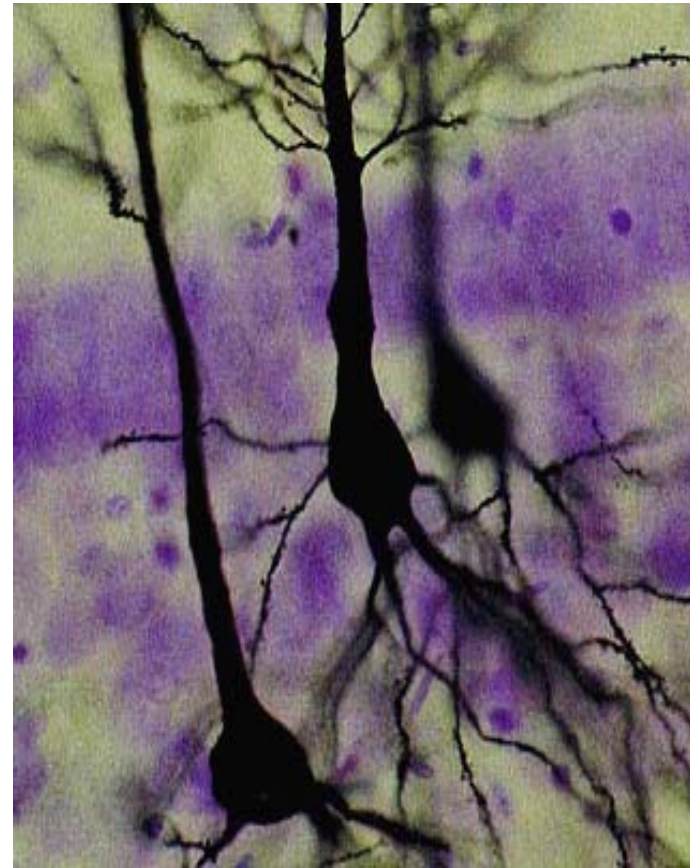
For More Information

Visit the Neuroscience Blueprint
Website

<http://neuroscienceblueprint.nih.gov>

Share your thoughts and ideas
via e-mail

blueprint@mail.nih.gov



Nerve cells and their fibers in the brain