# *FY 2005 eRA Budget Request*

**March 31, 2004**

# *eRA Realizes Return on Investment*

**This funding request will allow eRA to maintain its momentum on current initiatives and continue to satisfy Federal (OMB, DHHS, NIH) mandates.**

- **"…part of making sense is you get a good return on the dollar…Well before reaching its goal of end-to-end electronic grants administration, eRA has begun realizing a measurable return on its investment…" Mitch Daniels, former OMB Director**

- **"Enough coddling – OMB demands results from IT" …Government Computer News**

# *Serving the Public and Grantee Community*

**By working with the community, eRA is taking the lead toward reducing the grant review-funding cycle: grantees will be able to focus more on science and eRA will be better able to maximize our return on investment.**

- **"eRA represents an opportunity for grantors and grantees to yield significant efficiencies from transforming paper-based processes into seamless electronic communications." Dr. Norman Altman, Vice Provost for Research at the University of Miami.**

- **The scanning of all incoming competitive applications received by the NIH Center for Scientific Review (CSR) has continued to produce effective savings: reduced workload, increased productivity.**

- **The use of the NIH Commons has continued to increase. Use by principal investigators continues to increase, and over 90 percent of NIH awards are going to registered institutions.**

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**Future needs are to fully implement electronic receipt of applications, reducing the demand for scanning.**

# *Serving Peer Review*

**During recent years advances by eRA have provided positive and dramatic effects on the NIH peer review system.**

- **Summary statements can now be completed in days not weeks: electronic processing has facilitated or eliminated multiple steps.**

- **Internet Assisted Review (IAR) also yields significant return on investment. More than 40,000 application reviews have been facilitated by this system. IAR has enhanced the quality of the process and provides the capability of reducing the time spent in review meetings by 33 percent, substantially reducing associated labor costs.**

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**In the future, eRA seeks to facilitate the selection of reviewers by scientific Review Administrators, and make available the option of virtual meetings. The goal of achieving reductions of the grants cycle will require additional changes that enhance the speed and accuracy of assignments by The Office of Receipt and Referral.**

# *Serving Scientific Program Management*

**eRA has put an integrated transactional portfolio management system on the desktop of every NIH program official.**

- **More effective oversight of larger portfolios.**
- **Electronic sign-off and customized checklist capability for GMS, GMO and PO roles.**
- **Initial steps toward scientific program collaboration among program officials by establishing transparency among portfolios.**

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**Future needs require the facilitation of scientific analysis for addressing the public health missions of NIH, and in support of policy and budgetary decisions.**

# Serving Grants Management

**Since 1998, ICs have had an automated awards processing system.**

- **More recently, increased Commons usage by grantees has reduced the burden on Grants Management Specialists**
  - **Financial Status Report**
  - **eSNAP application**
  - **Just in time submission**
  - **No-cost extension**
  - **Access to electronic notice of grant award and other documents via the grant folder**
- **Automated assignment of grant records.**
- **Email of notice of grant award.**
- **Workload status reporting.**
- **Monitoring of grantee compliance issues.**

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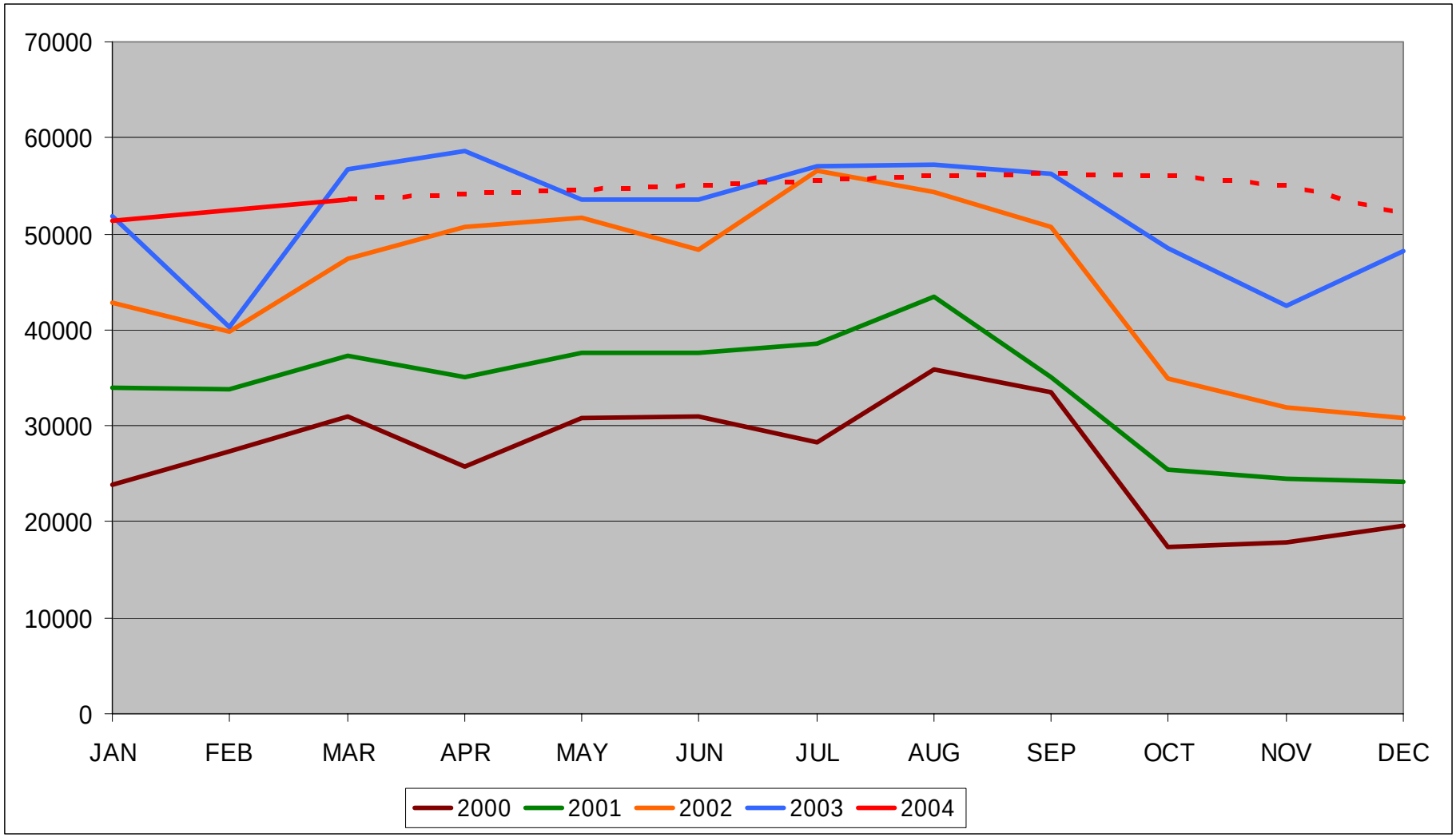
**The on-going redesign of the Grants Management System serves as a focus for the development of an integrated system with program, budget, and some council operations.**

# *Serving the NIH*

**eRA responds quickly and effectively in response to important requests.**

- **Population Tracking**
- **Human Stem Cell Tracking**
- **NIH Director's Pioneer Award**
- **Prototype Disease Coding System**

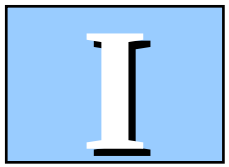
# Increased Usage of IMPAC II



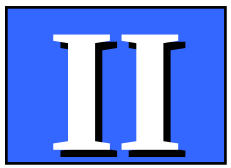
# *eRA Achievements*

- Migration from IMPAC I; fundamental architecture change
- Summary Statement production
- eRA Commons
- Financial Status Report submission via the eRA Commons
- Electronic receipt of FDP Type 5 progress reports
- Internet Assisted Review
- Electronic processing of grant applications
- Grants Closeout
- Scientific Program Management System
- Grants Management and Program Checklists
- Federal Application of iEdison
- Query and reporting tools
- Access to electronic documents through eRA grants folder

# *eRA Objectives for FY05*




**Maintenance, Performance, Data Quality** **$30.042 Million**




**Electronic Receipt of Applications** **$4.651 Million**


**End-to-End Process** **$6.322 Million**


**Future Innovations** **$4.040 Million**

# System Maintenance Performance & Data Quality - $ 30.042 Million ($ in millions)

| | |
|---|---|
| Project Management | $3.951* |
| Planning, Communication & Outreach | 1.697 |
| Architecture | 1.857 |
| Operations & Maintenance | 4.819 |
| Requirements, Analysis, Design & Implementation Staff | 1.677 |
| Federal Oversight for Design & Development | 2.188 |
| Data Quality & Acceptance Testing | 4.786 |
| Technology Infrastructure | 5.009 |
| Rent | 2.058 |
| IV & V – NIH CIO | 2.000 |

*Rounding Adjustment

# Electronic Receipt - $4.651 Million

## ($ in millions)

| | |
|---|---|
| Exchange of information, computer-to-computer, with Grants.gov. Competing Grant Application Process (CGAP) anticipated in production for modular RO1s. | $1.349 |
| eRA Commons interface for the Electronic Non-Competing Application Process (eNAP). Currently, eSNAP is in full production | 1.442 |
| Initiate pilot CGAP for a full range of grant mechanisms and grants management transactions. | 1.860 |

# *End-to-End Processing – $6.322 Million*

## *($ in millions)*

***Includes the intersection of scientific program management, budget, extramural activities and grants management.***

| | |
|---|---|
| **Electronic document management and grant folder** | **$1.264** |
| **Flexible permissions architecture for eRA (Virtual Organizational Layer)** | **.948** |
| **System-wide workflow for routing, approvals, paylists, notifications between business areas.** | **1.264** |
| **Workflow for scientific collaboration** | **1.582** |
| **Single Sign-on** | **.632** |
| **Electronic submission of annual reports and animal assurances to Office of Laboratory Animal Welfare** | **.632** |

# Cost Drivers

**Growth in functionality in various business areas and user communities continues to expand expectations for what the eRA should deliver.**

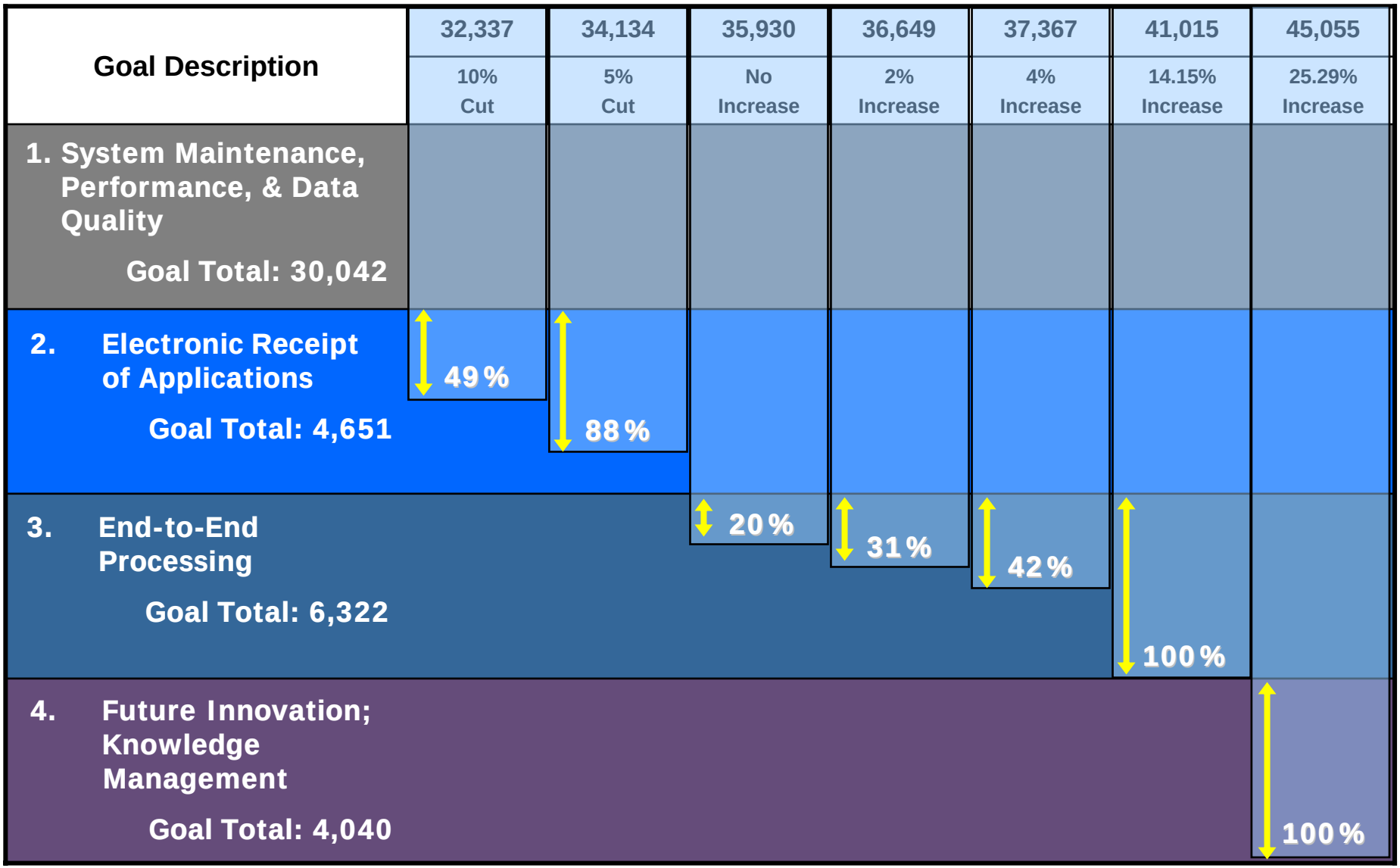
**Shifts in scope that require additional, often unexpected, resources are driven by NIH, HHS (OPDIVs), and Federal (Grants.gov) priorities.**

**At NIH, needs are related to reorganizations (MEO), major initiatives (Roadmap, Disease Coding), and enterprise architecture (maintaining system quality requires lifecycle redesign every 3-5 years, and redesign of 25% software each year)**

# IV Knowledge Management - $4.04 Million
## ($ in millions)

| | |
|---|---|
| **Disease Coding: Expand Current Prototype to Pilot of all IC's, and all mechanisms** | **$1.53** |
| **Prepare and maintain data archive for all Current & future applications** | **1.05** |
| **Expand Grant Reviewer Selection to production phase** | **1.07** |
| **Initiate new prototype (Receipt & Referral, Program Analysis, Bio-security)** | **0.39** |

# eRA FY05 Goals & Associated Costs



# eRA Five Year Budget Trends

| Dollars in Thousands | | | | | |
|---|---|---|---|---|---|
| **FY03 - 07 Major Goals; Frozen at FY 2005 Request** | | | | | |
| | **FY03** | **FY04** | **FY05** | **FY06** | **FY07** |
| **Description** | **Costs** | **Budget** | **Estimate** | **Estimate** | **Estimate** |
| 1. System Operations, Maintenance and Performance | 26,690 | 27,643 | 30,042 | 30,943 | 31,872 |
| 2. Electronic Receipt of Grant Applications | 2,550 | 4,577 | 4,651 | 1,000 | 1,030 |
| 3. End-to-End Processing of Grants | 11,720 | 6,865 | 6,322 | 6,512 | 6,707 |
| 4. Future Innovation, Knowledge Management | 0 | 2,000 | 4,040 | 3,000 | 2,000 |
| **Total NIH SSF Budget Request** | **40,960** | **41,085** | **45,055** | **41,455** | **41,609** |
| **Funds Available for New Priorities Subject to ITWG/MBWG governance** | | | | **4,952** | **6,190** |

# Request

**This request will enable:**

- **Electronic receipt of applications**
  - User community, Grants.gov
  - Reduction of the grants cycle

- **End-to-end processing of applications**
  - Administrative coordination
  - Reduction of the grants cycle
  - Electronic facilitation of oversight responsibilities

- **Future Innovation – Initiatives using Knowledge Management**
  - Disease coding
  - Review (Reviewer Selection, Receipt and Referral)
  - Program investment analysis, policies, priorities
  - Bio-security

# Summary

**eRA is a mission-critical application, processing more than a million daily transactions last year by some estimates. Usage of the system is growing exponentially. eRA requires adequate funding to keep up with the demand for its services. It cannot maintain its momentum on current initiatives, satisfy departmental and federal mandates on schedule, and undertake new challenges without an appropriate level of investment by its community of users.**