

# eRA Project Update

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IV&V Team

Soza & Company / Perot Systems  
Government Services



# Outline

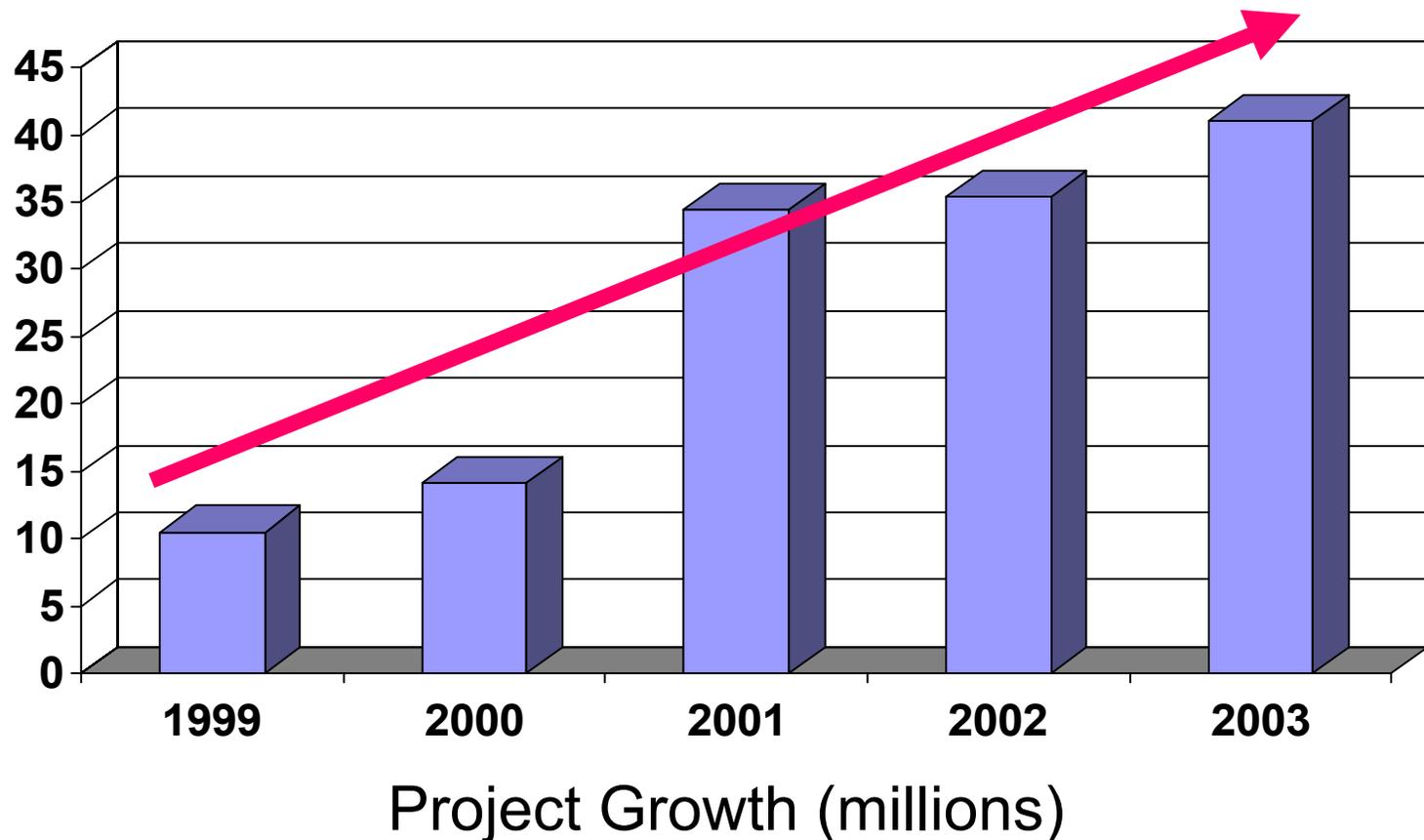
- Assessment
- Initial Findings of 2001
- CY 2002 Initiatives
- Progress
- Analysis of March 2003 Release
- Current Projects
- Challenges
- Current Initiatives

# Assessment

- Return on Investment (OMB 300):
  - 1.5 (50%) over 7 years (FY 2002 – FY 2008)
  - J2EE Migration
  
- Implementation of cost & schedule PM infrastructure in a dynamic environment
  - Evolving ability to baseline, monitor and forecast costs
  - Initial capacity to provide analysis from granular tracking of project data
  - Institution of a PM processes and practices across project modules

# Initial Findings (Nov 2001)

Classic symptoms of rapidly growing project:





# Initial Findings (Nov 2001)

Classic symptoms of rapidly growing project:

- Limited project information availability—alignment across models/sources uneven
  - Lack of detailed cost & resource information
- PM skill set partially developed
- Institutionalization of roles throughout organization structure is evolving
- Project procedures, practices not standardized or fully documented.



# Initiatives

- Define roles and responsibilities across project
- Refine business planning processes
- Institute a centralized project tracking system
  - communicate issues, status
- Conduct periodic team reviews
- Improve cost estimation capabilities
- Track granular level project reporting data

# Roles & Responsibilities

- Drafting of a Project Management Plan (PMP)
  - Cover key management processes
  - Define roles & responsibilities
- Transform project from “person” to “title” based responsibilities
- April 2002 - Initial Draft
- CY 02 - Period of change
  - Significant personnel changes:
    - Role of Analyst
    - Iteration Manager
    - Deployment Manager
- Final Draft to be completed by May 1

# Refine Business Planning Processes

(Operational level)

- Establish requirements management, configuration management, and change management structures
  - Blueprint Technologies
- Rational Unified Process (RUP)—process framework
- Began implementing SEI/CMM Level II requirements
- Change from waterfall to iterative lifecycle—Release management
- Installation of *RequistePro*—requirements management software tool
- Weekly CCB meetings

# Configuration Control Board (CCB)

- eRA Operations Manager—Chair
- Membership includes
  - Architect
  - Development
  - Operations
  - Quality Assurance—Testing
  - Deployment Manager
  - Relevant
    - Developers
    - Analyst

# Project Tracking System

- Standardize work breakdown structure (wbs); project phases; milestones; deliverables, etc...
- Evaluated COTS products
- Decided on PlanView
  - Ability to modify around eRA processes
  - User friendly
  - Resource management, financial management, baseline, gap analysis, assess risk, etc.....
- Installation underway—Pilot w/ July Release
- Assist with OMB Circular A-11 & OMB 300

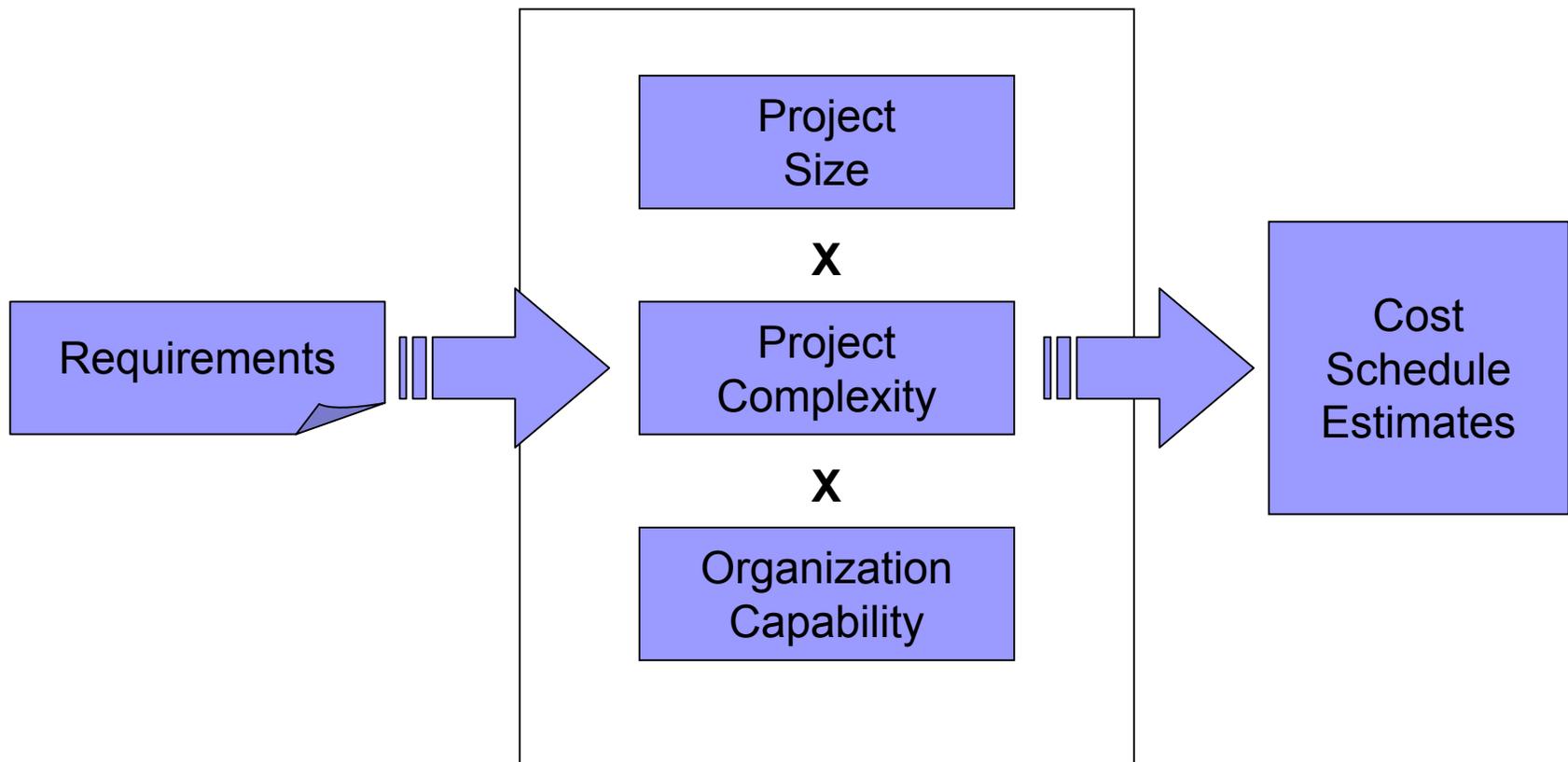
# Cost Estimation Capabilities

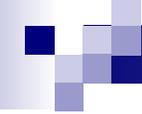
## 2-Tier Approach:

- **Baseline requirements**
  - Estimate based on historical cost & current requirements
  
- **Function Point Analysis**
  - Internationally recognized methodology for measuring software projects “size”
    - FP = Software unit: cubic foot, pound, gallon, etc...
  - *Cost Xpert*—Industry accepted modeling tool

# Function Point Analysis

Quantitative and Qualitative Elements





# Tracking Granular Project Data

- Implemented Oracle Small Business Suite (SBS)
- Online time tracking system—all project team members
- Data collected weekly

# Oracle SBS

The screenshot shows the Oracle SBS Weekly Time Tracking interface. The browser address bar indicates the URL: C:\Documents and Settings\PasquinJ\My Documents\National Institutes of Health OER eRA - Oracle Small Business Suite Weekly Time Tracking.mht. The page title is "National Institutes of Health OER eRA - Pasquina, Joe (Employee Center)".

The interface includes the following elements:

- Employee Center** header with "Employee Center >" and "National Institutes of Health OER eRA - Pasquina, Joe (Employee Center)".
- Weekly Time Tracking** section with "Employee Pasquina, Joe" and "Week of" input field.
- Organization** dropdown menu set to "SOZA".
- Cost Category:Module** list with a scrollable dropdown menu. A yellow callout box labeled "Cost Categories" points to this list.
- Service Item** and **Payroll Item** dropdown menus.
- Memo** text area.
- Save** and **Save & Next** buttons.
- Totals** row at the bottom of the table.

Cost Category:Module	Sun	Mon	Tue	Wed	Thu	Fri, 28	Sat, 29	Total
Commons Version 1 - X-Train Maintenance								
COTS Ad-Hoc Query Tool								
CRISP on the WEB Maintenance								
CRISP-Plus Maintenance								
Customized Checklists								
DCIS Contracts Data Migration								
DEA Module								
E-Mail Registration & Notification System								
E-Mail Registration and Notification System Maintenance								
e-Request System								
E-SNAP Maintenance								
ECB-CAM Maintenance								
ECB-QVR Maintenance								
Edison Administration								
eRA Project Management								
<b>Totals</b>			0:00	0:00	0:00	0:00	0:00	0:00

# Oracle SBS

Address <C:\Documents and Settings\Pasquin\My Documents\National Institutes of Health OER eRA - Oracle Small Business Suite Weekly Time Tracking.mht> Go

**ORACLE**  
small business suite

Sign Out | Help ?

**Employee Center**

Employee Center > National Institutes of Health OER eRA - Pasquina, Joe (Employee Center) 

## Weekly Time Tracking

Employee Pasquina, Joe Organization SOZA

Week of  

Cost Category:Module null

Service Item Memo

Payroll Item

Sun  Mon  **Workflow Function** Fri  Sat

**Save** **Save & Next Week**

--No Workflow--  
Analysis & Design  
Business Modeling / Reqs  
Deployment  
Development & Implementation  
Integration Testing  
Pilot / Data Conversion  
Task Management  
Troubleshooting  
User Documentation & Training

Cost Category:Module	Sun, 23	Mon	Tue	Wed	Thu, 27	Fri, 28	Sat, 29	Total
<b>Totals</b>	0:00	0:00	0:00	0:00	0:00	0:00	0:00	0:00

Loading... Internet

start 3 Microsoft... 2 Microsoft... 2 Microsoft... Steering Inbox - Mic... 2 Internet... 3:41 PM

# Oracle SBS

**ORACLE**  
small business suite

Employee Center

National Institutes of Health OER eRA - Pasquina, Joe (Employee Center)

## Weekly Time Tracking

Employee Pasquina, Joe

Week of

Cost Category: Module

Service Item

Payroll Item

Sun  Mon  Tue  Wed  Thu  Fri  Sat

**Save** **Save & New** **Reset** **Print**

**Various Organizations**

- Contractors
- Government

Organization: SOZA

Core  
EKG  
GBL  
LTS  
MITR  
NGIT  
Nusoft  
OER  
Oracle  
QRC  
RNS  
SRA  
SS  
TCG

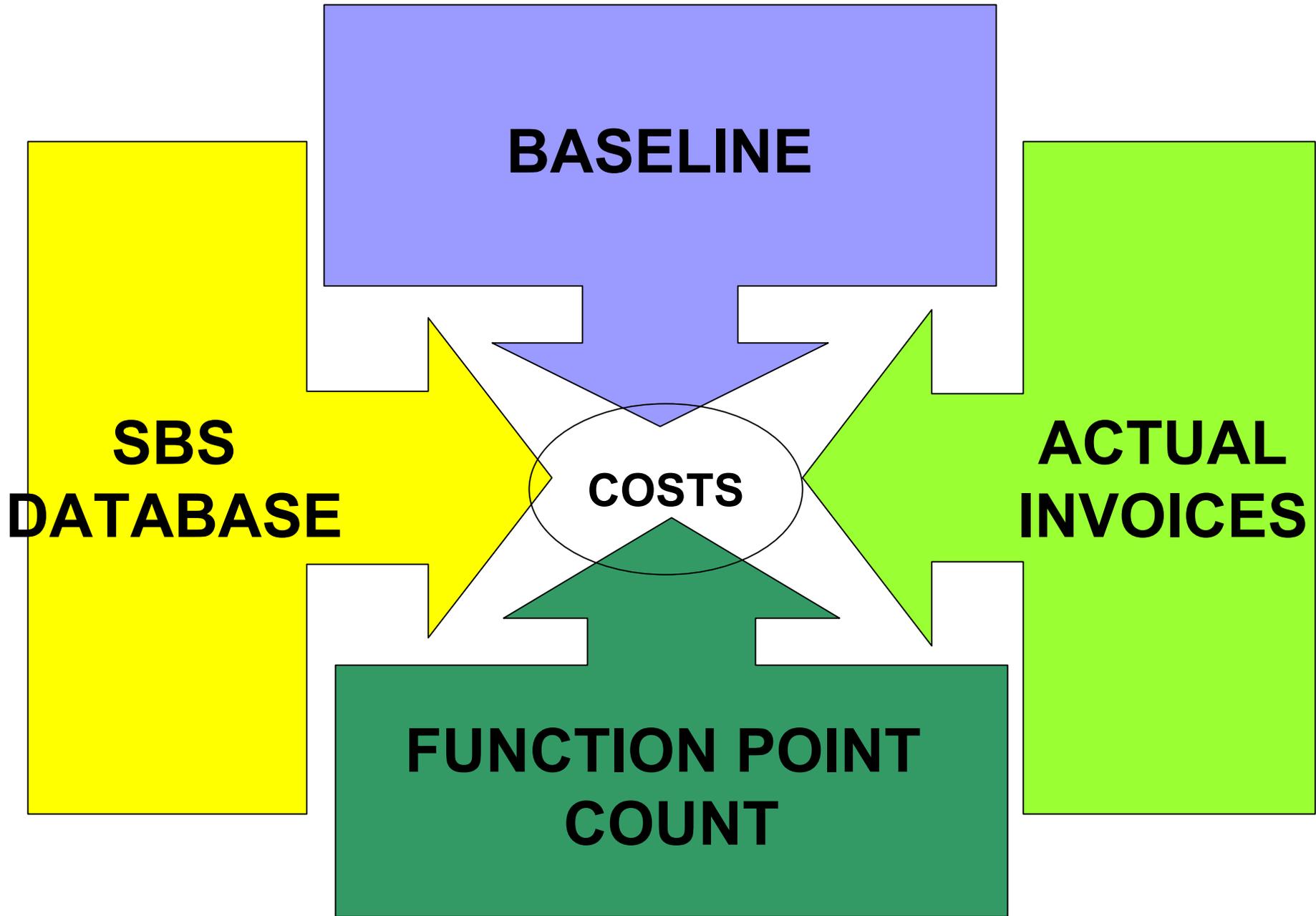
Cost Category: Module	Service Item	Tue	Wed, 2	Thu	Fri	Sat, 29	Total
<b>Totals</b>		0:00	0:00	0:00	0:00	0:00	0:00

start | 3 Microsof... | 2 Microsof... | 2 Microsof... | Steering | Inbox - Micr... | 2 Internet... | 3:35 PM

# Tracking Granular Project Data

## eRA Cost Tracking Database

- MS Access Database:
  - 126 Cost Categories—93 Active
  - 297 employees
    - 58 government
    - 239 contractors
  - 134 invoices
  - 28 contracts
  - 22 contractors + government
  - 127 labor categories (rates)



# March 2003 Release—Analysis

- 26 cost modules tracked
  - Maintenance projects
  - Development projects
- ≈\$1.8 million baseline
- SBS data ≈ \$1.9 million
- Invoiced \$600K: 2-month lag
  - Most Dec
  - Partial Jan
  - Little Feb
  - No March

# March 2003 Release

- Comparing SBS vs. Invoice—December
- Strong correlation within the modules (97%)
- 2 outlier modules (<10%)
- SBS = \$318K
- Invoice = \$292K
  - + 9%

# March 2003 Release

Module Category	December	
	SBS	Invoice
Committee Management Fast Track	\$ 97,075.91	\$ 92,471.54
CRISP on the WEB Maintenance	\$ 7,091.45	\$ 8,874.00
GM Closeout Maintenance	\$ 2,787.13	\$ 1,740.85
GM Maintenance	\$ 20,482.86	\$ 20,118.22
Grants Payment Management Maintenance	\$ 15,283.68	\$ 16,659.39
Grants Update Module (GUM) Maintenance	\$ 775.02	\$ 775.02
ICO Maintenance	\$ 11,180.95	\$ 13,018.63
ICSTORE Maintenance	\$ 336.40	\$ 379.19
IM Module	\$ 1,278.90	\$ 1,510.96
IRDB Maintenance	\$ 21,861.81	\$ 12,494.77
Person Module Maintenance	\$ 5,936.88	\$ 5,939.90
Receipt and Referral Maintenance	\$ 23,954.80	\$ 20,218.87
Review - Internet-Assisted Review	\$ 17,569.34	\$ 35,362.99
Review Module Maintenance	\$ 11,365.22	\$ 11,111.22
Type 4's, 6's, and 7's Module	\$ 1,277.92	\$ 3,024.52
Type 5s Module Maintenance	\$ 2,014.57	\$ 4,102.30
<b>TOTALS</b>	<b>\$ 240,272.84</b>	<b>\$ 247,802.37</b>

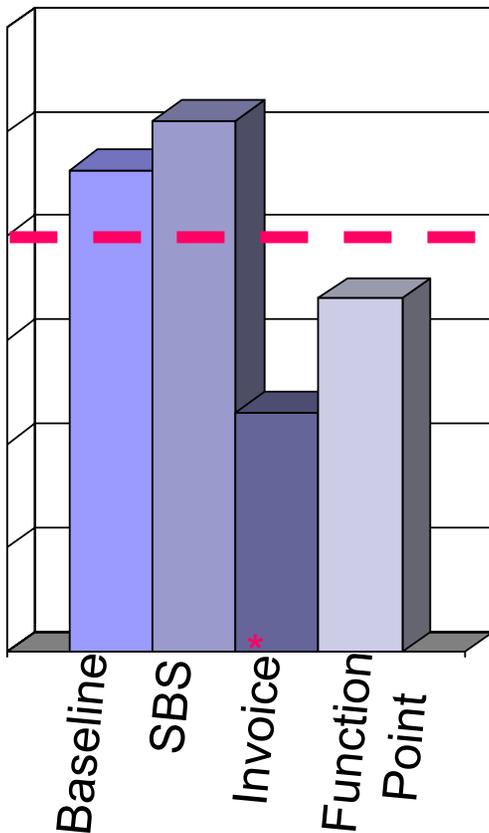


# March 2003 Release—Analysis

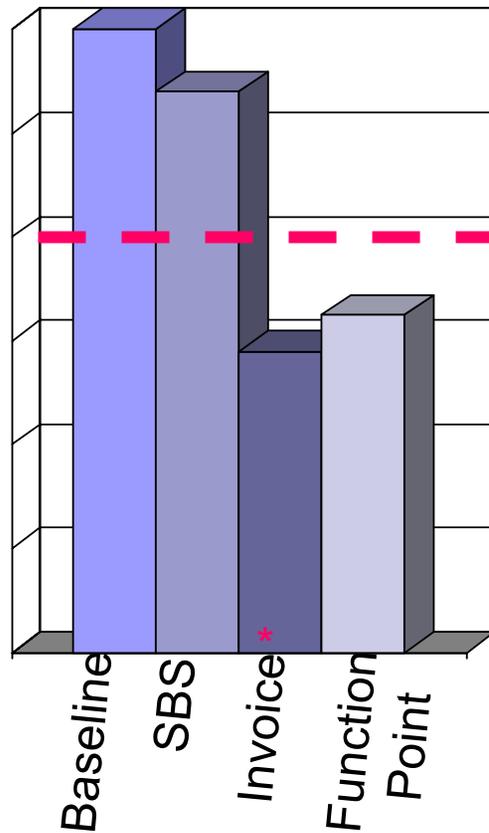
- Function Point Counted Several Modules
  - Peer Review Module
  - Receipt & Referral
  - Grants Management
    - GM Closeout
    - GM Maintenance

# March Release Examples

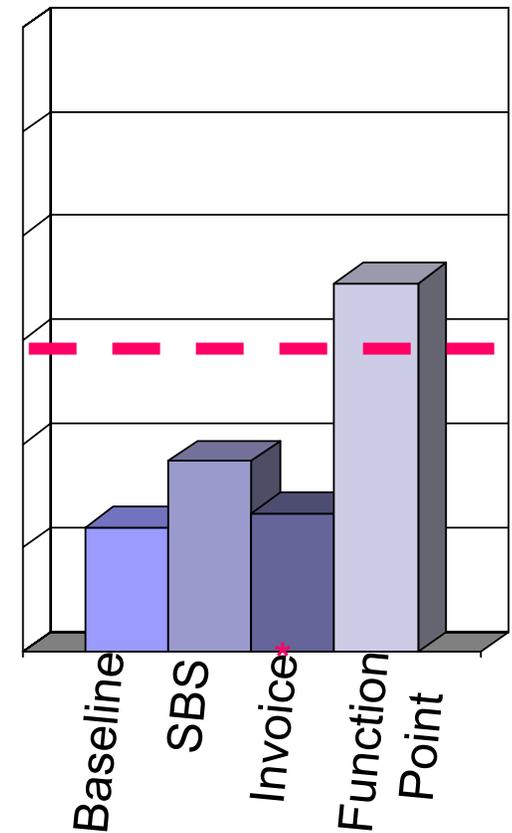
## Receipt & Referral



## Grants Management



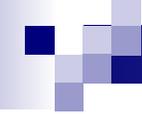
## Peer Review



*Note: Not all invoices have been received*

# Current Projects

- April 2003
  - CGAP & XML Specs
  - iEdison redesign
- July 2003
  - J2EE customizable checklist & query tool
  - Person Module redesign
- Additional July 2003 requirements under review



# Current Challenges

- Ability to project user requirements beyond 3-month window limits ability to forecast costs
- Ability to resource level and monitor scope creep still evolving
- SBS and Cost Tracking Database reaching functional limits

# CY 2003 Initiatives

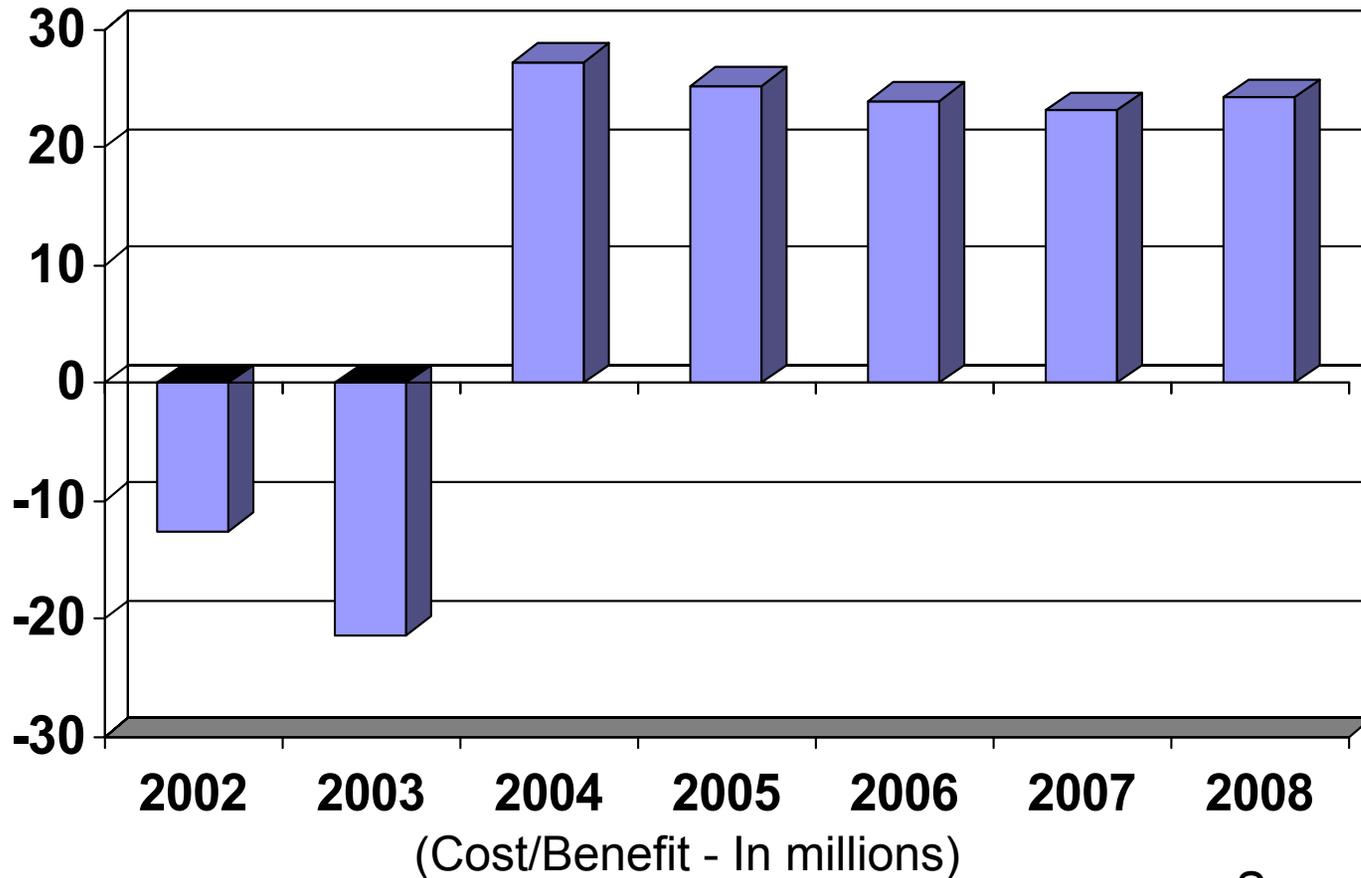
- Calibrate baselines across all modules
- Finalize Project Management Plan
- Migrate Oracle SBS & eRA Cost Tracking Database to PlanView
- Refine cost estimating models
- Independent cost & schedule estimates across all models
- Further expand SEI/CMM Level II capabilities
  - Build repeatable processes
- Emphasize cost control and contractor invoicing



**QUESTIONS???**

# Assessment – eRA Project

Return on Investment: 1.5



Source: OMB 300

# Cost & Schedule Assessment

