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# **Department of Defense Intelligence Information System (DODIIS) System Security**

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Oct 31, 2000

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# ***Background***

- 497<sup>th</sup> IG/INDI 5 May 00 Memo to DIA/DS-IM requested a *cost comparison* between Air Force DoDIIS Infrastructure (AFDI) and a Commercial-Off-The-Shelf (COTS) solution.
- DoDIIS Management Board tasked ANSER to provide a cost analysis to support this request.



# ***Purpose***

- The software evaluated in this cost analysis is used to secure intelligence information at DoDIIS workstations. It enables sites and workstations to maintain system high (PL2+) accreditation.



# *Scope of Analysis*

- The background and purpose suggests an analysis similar to a formal Analysis of Alternatives, but the compressed timeline does not allow for this scope of analysis.
- “Fair & Reasonable” analysis of cost data not performed.
  - Data provided is used as-is.
  - Cost analysis is not intended to be use in it’s present form for contracting purposes.
  - The primary use is to provide relative costs comparisons between alternatives for discussion by the DoDIIS Management Board.
- Risk analysis not possible without analysis of cost data.
- Some costs were deferred (mil/civ pay).



# ***Alternatives***

- Alt. 1, Status Quo, continue using CSE-SS.
  - Non-viable due to system requirement shortfalls.
- Alt. 2, CSE-SS migration to AFDI.
- Alt. 3, CSE-SS migration to Tivoli and AXENT.
- Alt. 4, CSE-SS migration to AFDI, Tivoli, and AXENT.



# Ground Rules & Assumptions

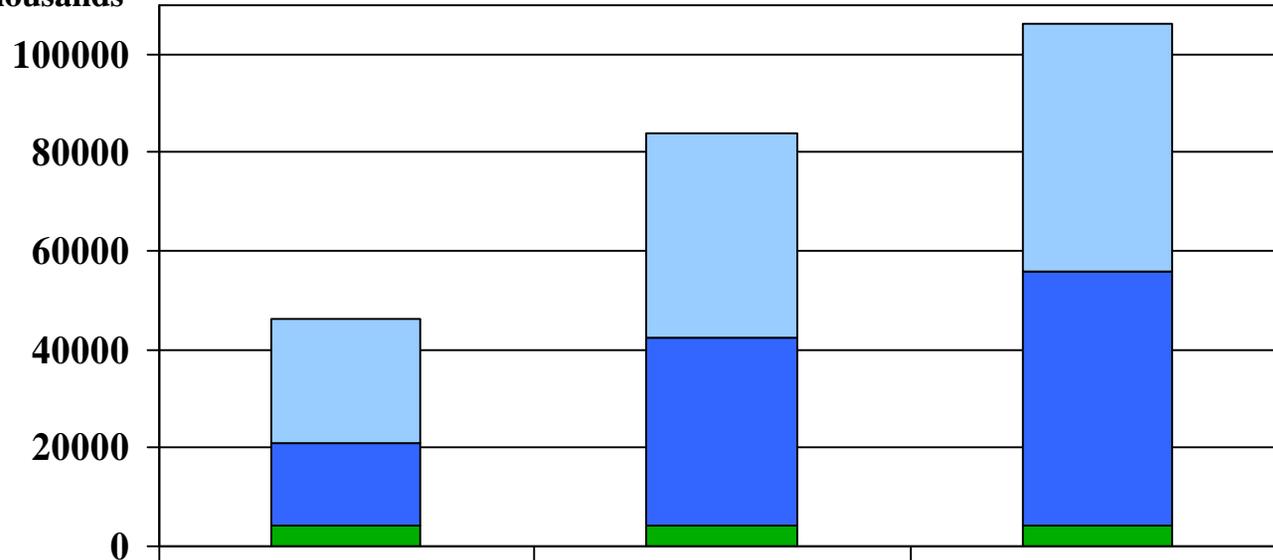
(darkened areas are valid costs)	Alt 2	Alt 3	Alt 4
Program Management	Darkened	Darkened	Darkened
Development	Darkened	White	Light Gray
Procurement	White	Darkened	Light Gray
Operations & Support	Darkened	Darkened	Darkened
Status Quo Phase Out	Darkened	Darkened	Darkened

- AFDI alternatives (2&4) assume government pays for development and “free-issues” software to users.
- COTS alternatives (3&4) assume vendor charges users for fully developed software.
- See detailed analysis for complete list of GR&A.



# *Life Cycle Cost, Base-Year 2001*

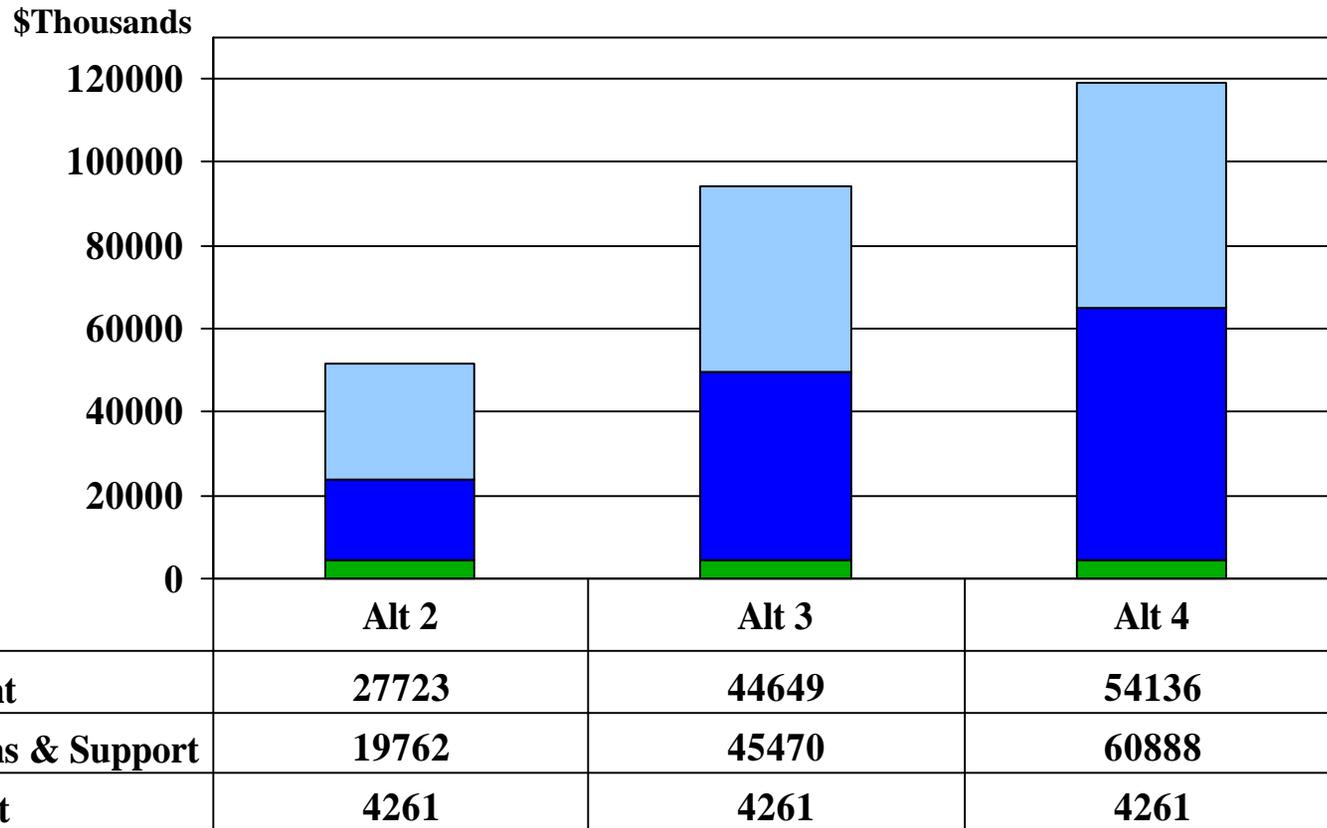
\$Thousands



	Alt 2	Alt 3	Alt 4
Investment	25163	41346	50506
Operations & Support	16847	38408	51532
Phase Out	4168	4168	4168



# *Life Cycle Cost, Then-Year*



# ***Analysis Results***

- AFDI is clearly the least expensive of the three options.
- Cost and Effectiveness should both be taken into consideration when choosing an option.
  - This study did not assess the effectiveness of the options.
- Requirements, schedules, and definitions must be refined for more accurate cost analysis.



# ***Key Points for Alt 2***

- Schedule derived from AFDI deployment costs
  - Used for transition from CSE-SS to AFDI.
  - Software Development/Maintenance schedules do not match deployment.
- AFDI costs represent a level-of-effort to support “nine Unified Commands, three services, DIA, other US agencies and US allies.”
  - There are no linkages between cost and performance.



# ***Key Points for Alt 3***

- Procurement information based on the costs and quantities supplied by Tivoli and AXENT.
  - No estimate was made for integration between Tivoli and AXENT.
- Schedule derived from AFDI deployment costs.
  - Used for transition from CSE-SS to Commercial Software.
  - Procurement of COTS software costs begin in FY02.
- Many of the cost elements for the AFDI software option are re-used since many of the government responsibilities will remain, regardless of the option.



# ***Key Points for Alt 4***

- Procurement information based on the costs and quantities supplied by Tivoli and AXENT.
  - No estimate was made for integration between Tivoli, AXENT, and AFDI.
- Schedule derived from AFDI deployment costs.
  - Used for transition from CSE-SS to Commercial Software.
  - Procurement of COTS software costs begin in FY02.
- Many of the cost elements for the AFDI software option are re-used since many of the government responsibilities will remain, regardless of the option.

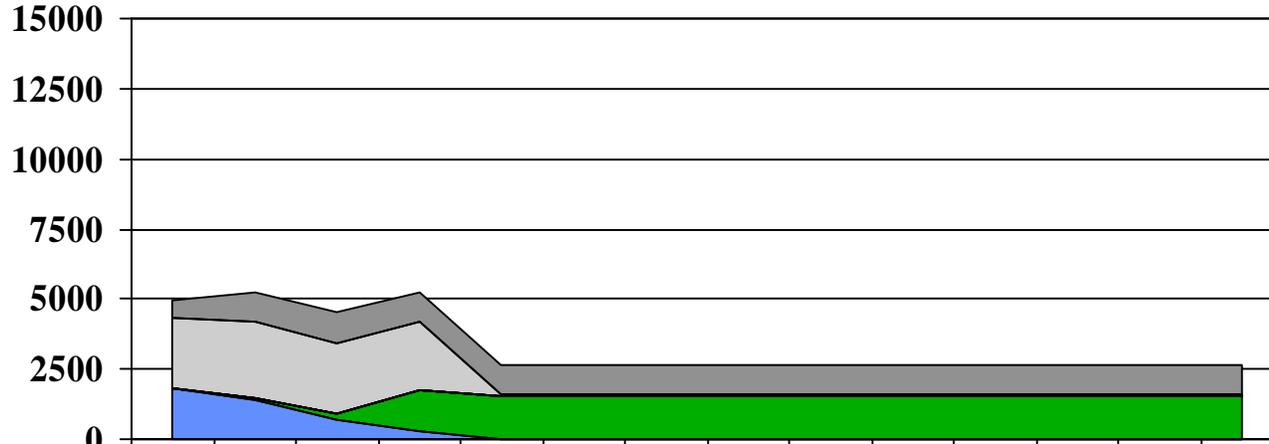


# Detailed Cost Information



# Alternative 2 Base-Year 2001

\$Thousands

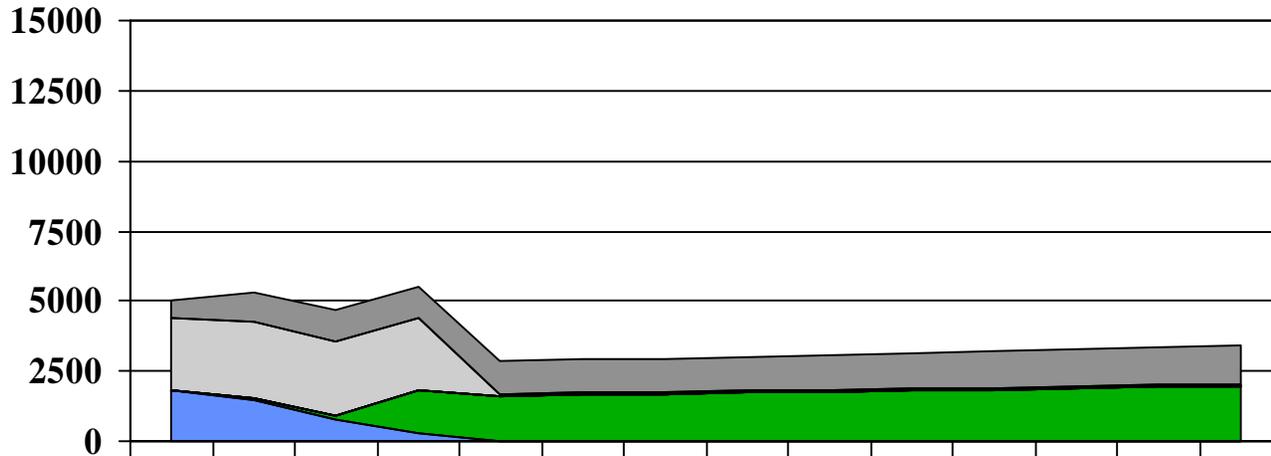


	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14
■ Program Management	628	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058	1058
□ Development	2523	2677	2545	2444	60	60	60	60	60	60	60	60	60	60
■ Procurement	0	0	0	0	0	0	0	0	0	0	0	0	0	0
■ System Init/Impl/Field	0	0	0	0	0	0	0	0	0	0	0	0	0	0
■ Operations & Support	0	70	194	1467	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512
■ Phase Out	1805	1408	704	253	0	0	0	0	0	0	0	0	0	0



# Alternative 2 Then-Year

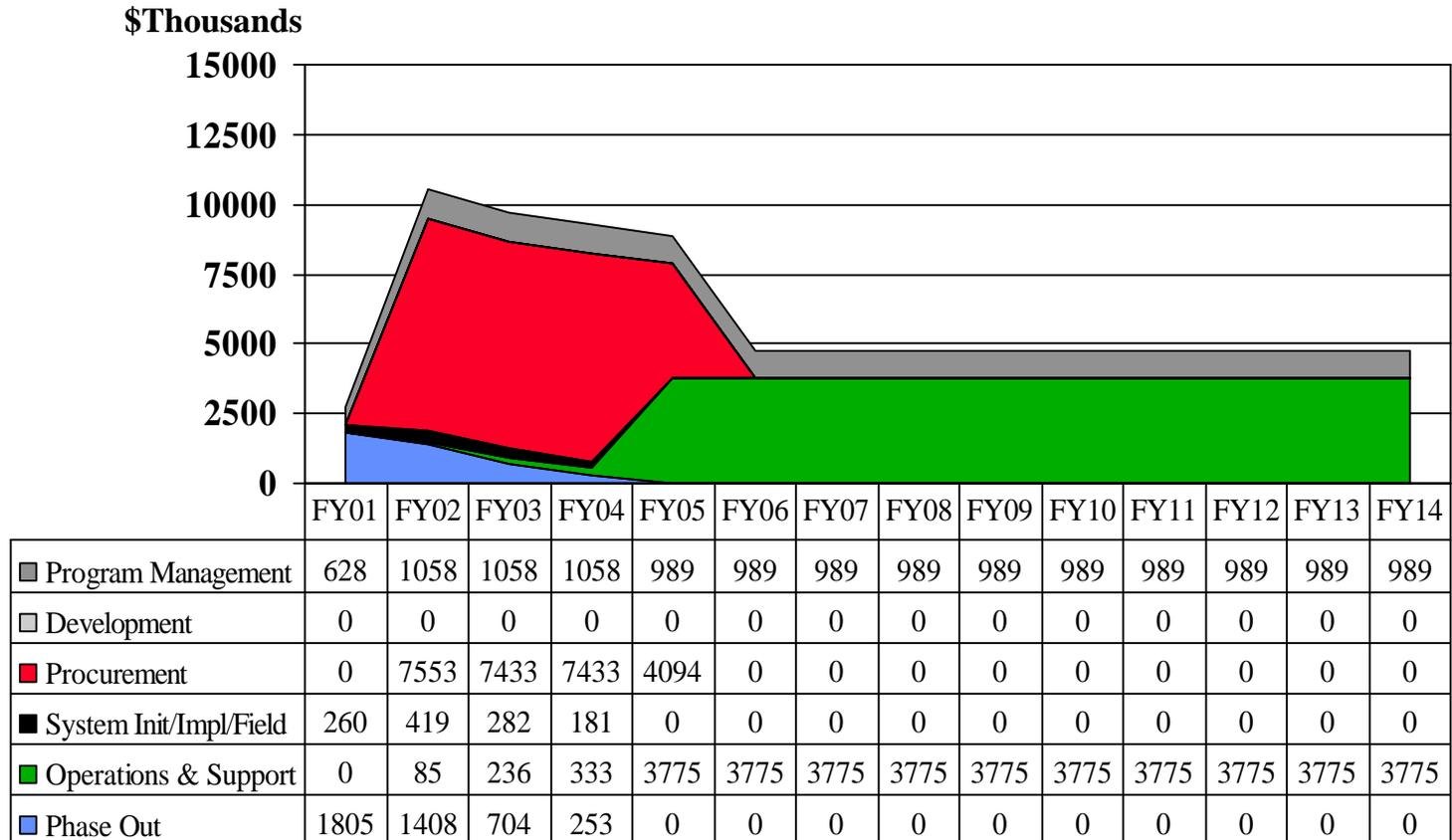
\$Thousands



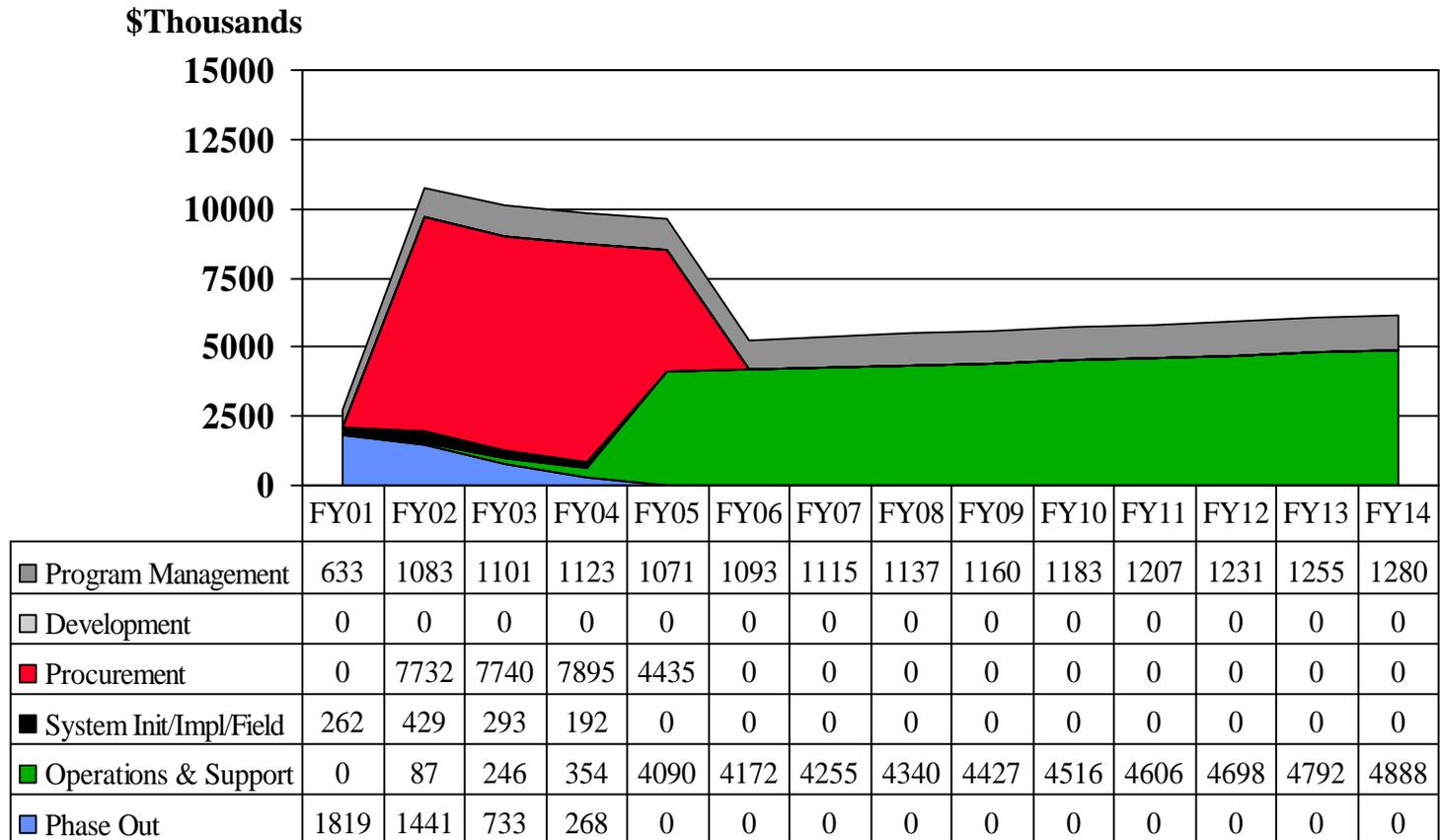
	FY01	FY02	FY03	FY04	FY05	FY06	FY07	FY08	FY09	FY10	FY11	FY12	FY13	FY14
■ Program Management	633	1083	1101	1123	1146	1169	1192	1216	1240	1265	1290	1316	1342	1369
□ Development	2544	2740	2650	2596	65	66	67	69	70	72	73	74	76	77
■ Procurement	0	0	0	0	0	0	0	0	0	0	0	0	0	0
■ System Init/Impl/Field	0	0	0	0	0	0	0	0	0	0	0	0	0	0
■ Operations & Support	0	72	202	1558	1637	1670	1704	1738	1772	1808	1844	1881	1919	1957
■ Phase Out	1819	1441	733	268	0	0	0	0	0	0	0	0	0	0



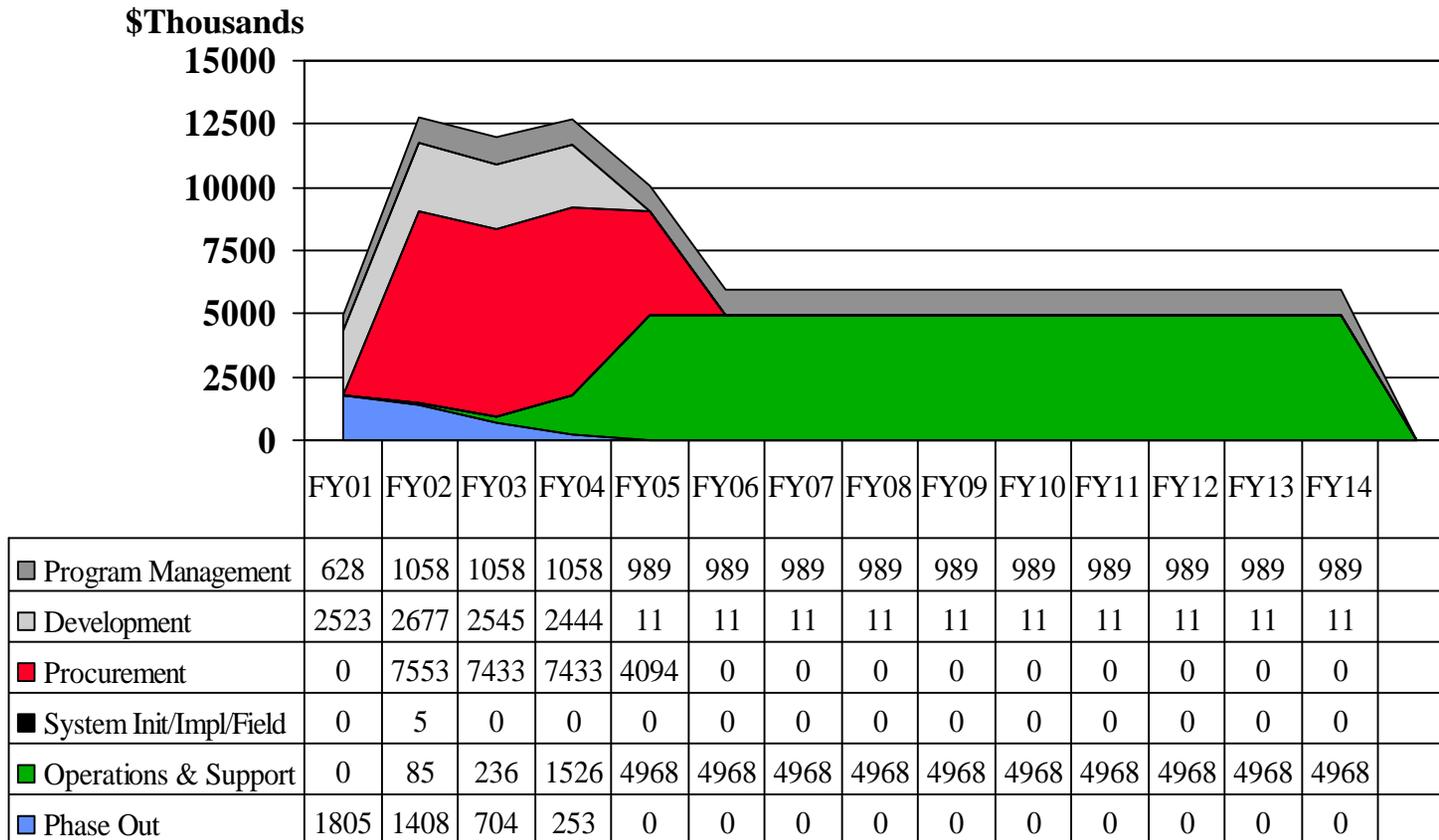
# Alternative 3 Base-Year 2001



# Alternative 3 Then-Year



# Alternative 4 Base-Year 2001



# Alternative 4 Then-Year

