### Federal Professional Services Market

Jim Kerrigan Vice President INPUT, Inc.



#### Overview

- Market Environment
- Market Analysis and Forecast
- Agency Perceptions
- Vendor Perceptions
- Recommendations

Notes		



#### Federal Market Pressures

- Improve productivity
- · Technical staff shortage
- Budget deficit
- Contracting-out bias
- GSA delegation requirements

Notes	



#### **Competitive Forces**

- Set-asides for 8(a) or small businesses
- · New players in the market
  - Aerospace firms
  - Big 6 accounting firms
  - Specialized niche firms

Notes	



## Top PS Vendors, FY1989 Vendor Rank Computer Sciences Corp. 1 Unisys 2 Black & Decker 3 Martin Marietta 4 Grumman Data Systems 5

Notes			



#### Agency PS Budgets— Software Development

\$ Mi	llions	
1990E	1991F	Agency
301	320	Energy
334	404	GSA
440	510	NASA

E = estimated

F = forecast

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Notes		



#### Agency PS Budgets— Software Development

\$ Mil	lions	
1990E	1991F	Agency
424	392	Air Force
429	461	Navy
259	323	Army

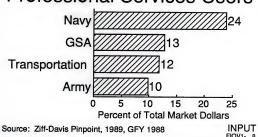
E = estimated

F = forecast

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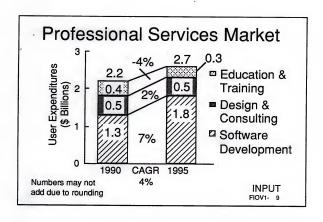


#### Top Federal Government Professional Services Users



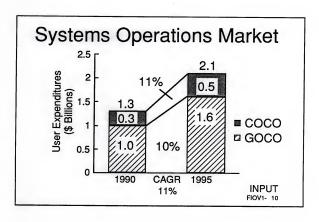
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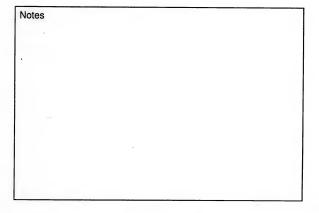




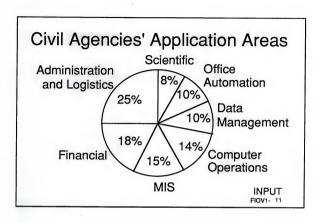
lotes			





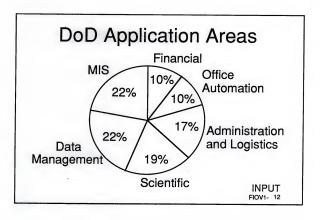






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## Agencies' Software Requirements

- Portable
- Engineering technologies
- High-level development tools
- Analytic tools

Votes		

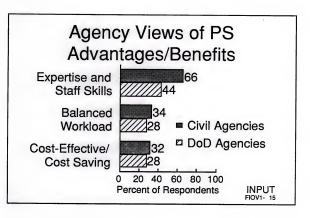


### Agency Use of Artificial Intelligence

- Expert systems for software development and decision support
- Training
- Prototype systems
- Information systems management

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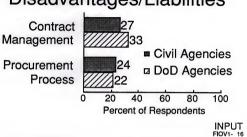




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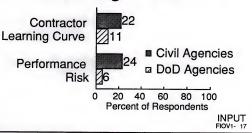
## Agency Views of PS Disadvantages/Liabilities



Notes



## Agency Views of PS Disadvantages/Liabilities



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# Agency Selection Criteria Selection Criteria | Ranking Proposed technical solution | 1 Vendor reputation | 2 Staff experience | 3 Cost | 4 Project management | 5

Notes		



# Agency PS Vendor Preference Vendor/Organizational Type Mainframe manufacturer PS company Not-for-profit Software products vendors Civil Agencies % 16 9 55 9 INPUT

Notes				



## Agency PS Vendor Preference

Vendor/Organizational Type	Civil Agencies %
Mainframe manufacturer	15
PS company	69
Not-for-profit	8
Software products	8
vendors	INPUT FIOV1- 20

Notes		



Preference for PS Contract Type				
Preferred Contract Type	Vendors (%)	Agencies (%)		
Cost-plus/cost-plus-incentive-fee	23	36		
Fixed-price	47	30		
Mix	23	24		
Other	7	10		
		INPUT FIOV1- 21		

Notes			



Basic Ordering Agreements (BOAs)

% of
Change in BOA Use Respondents
Increasing 67
Decreasing 17
Remaining the same 8
Little experience 8
INPUT FIGVI- 22

Notes			



## **Agency Conversion Plans**

Planned Conversion	Civil Agencies (%)
From contractor to	24
in-house staff	
From in-house staff	51
to contractor	
No conversion plans	25
Total	100 INPUT
	FIOV1- 23

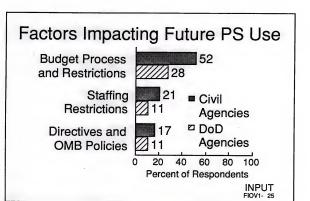
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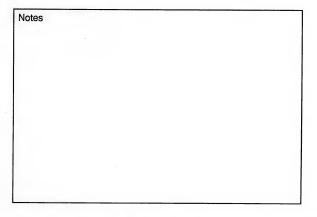


## Agency Conversion Plans Planned Conversion DoD Agencies (%) From contractor to in-house staff From in-house staff to contractor No conversion plans 10 Total 100

Notes		









Factor	Civil Agencies
Evolution in use of personal computers	1
Developments in software development and maintenance	2
	INPUT FIOV1- 26

Notes		



Factor	Civil Agencies
Improvements in end-user capabilities	3
Changes in micro- computer architecture	4
Proliferation of LANs	5 INPUT FIOV1- 27

Notes		



Factor	DoD Agencies
Evolution in use of personal computers	1 .
Changes in micro- computer architecture	2
Proliferation of LANs	3 INPUT
	. FIOV1- 28

Notes		



Factor	DoD Agencies
Developments in software development and maintenance	4
Improvements in end-user capabilities	5 INPUT FIOV1- 29

otes	



## Agency Satisfaction with PS Vendors (Ratings\*)

Quality	Civil	DoD	Vendor
Delivery schedule	2.8	3.3	2.9
Cost	2.9	3.8	3.2
Project management	2.9	3.4	3.1
Development visibility	3.1	3.6	3.1

\*1 = lowest, 5 = highest

INPUT FIOV1- 30

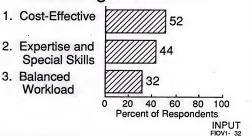
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#### Staff Competition Vendors Losing Contracts from 38 In-House Staff Vendors Gaining Contracts from 69 In-House Staff 60 80 100 Proportion of Respondents Note: Total exceeds 100% because the INPUT results were not mutually exclusive. FIQV1- 31



#### Vendor Views of PS Advantages/Benefits

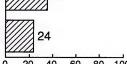




### Vendor Views of PS Disadvantages/Liabilities



2. Dependence on Contractor

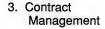


Percent of Respondents

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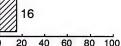


### Vendor Views of PS Disadvantage/Liabilities



16

4. Contractor Learning Curve



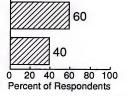
Percent of Respondents

INPUT FIOV1- 34



#### Factors Contributing to Satisfactorily Performed Contracts

- Understanding of Client Needs
- Client/Vendor Communications



INPUT FIOV1- 35



#### Factors Contributing to Satisfactorily Performed Contracts

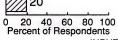
Vendor Management Skills



4. Qualified Vendor

/////3

Agency Management Skills



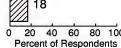
INPUT FIOV1- 36



# Factors Contributing to Poorly Performed Contracts

- 1. Poorly Defined Requirements
- 2. Poor Vendor Management Skills





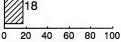
INPUT

Notes



# Factors Contributing to Poorly Performed Contracts

- 3. Cost Overruns
- 18
- 4. Bid Process Favors Low Bidders



O 20 40 60 80 100 Percent of Respondents

INPUT FIOV1- 38

Notes



### Market Differences— Federal

Federal Market	Rank
Greater price sensitivity	1
Complex acquisition process	2
Wider range of evaluation criteria	3 INPUT FIOV1- 39

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### Market Differences— Federal

Federal Market	Rank
Lengthy phased	4
development cycle	
Subject to greater	5
legal and economic	
constraints	INDUT
	INPUT FIOV1- 40

Notes		



### Market Differences— Commercial

Commercial Market	Rank
Less price sensitivity	1
Simpler purchasing procedures	2
Narrower basis for award	3
	INPUT FIOV1- 41

Notes		



### Market Differences— Commercial

Commercial Market	Rank
Shorter-term evolution	4
Less-rigid legal and	5
economic constraints	

INPUT FIOV1- 42

Notes		
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# Vendor Ranking—Products and Services

Products/Services	Rank
Software development	1
Consulting	2
Project management	3
Financial systems	4
Support	5 INPUT FIOV1- 43

Notes			
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# Ranking of Factors Affecting Future PS Spending

Factor	Rank	Effect
Budget changes	1	Negative
Gov't personnel availability	2	Positive

INPUT FIOV1- 44

Notes			



## Ranking of Factors Affecting Future PS Spending

Factor	Rank	Effect
Regulatory policy changes	3	Positive
Price	4	Negative
1 1100	T	ivegative

INPUT FIOV1- 45

Notes		



# Ranking of Industry Trends Affecting Revenue

Industry Trends	Rank
New technology	1
Industry standardization efforts	2
Increased competition due to CICA	3
Consolidation of contracts	4
	INPUT FIOV1- 46

Notes		



# Impact of Technology on PS Vendors

	ı % of
Impact	Responses
Acquire more technical expertise	57
Increase responsiveness	43

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# Impact of Technology on PS Vendors

	% of
Impact	Responses
Increase programmer productivity	14
Impacts cost	14
•	INPUT FIOV1- 48

Notes			



# Vendor Qualification in Ada

desponses 67
67
07
19

Notes	



# Vendor Qualification in Ada

	% of
Status	Responses
Vendors with no current plans for Ada	14
Total	100

INPUT FIOV1- 50

Notes			
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## Vendor Ranking of Technological Factors

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Factor	Rank	
Increase in optical	1	
disk storage capabilities		
Developments in	2	
artificial intelligence		
Standardization efforts	3	
	INPUT FIOV1- 51	

Notes		



### Vendor Ranking of Technological Factors

Factor	Rank
Developments in	4
interface capabilities	
Increase in use of	5
supercomputers	
	INPUT FIOV1- 52

Notes		
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# Vendor Ranking of Technological Factors

Factor	Rank
Telecommunications developments	6
Increased use of fiber optics	7
	INPUT FIOV1- 53

Notes			



# Civil Agencies' Suggestions

Suggestions	Rank
Increase cooperation and responsiveness to	1
agency needs Increase experience of staff	2
	INPUT FIOV1- 54

Notes		



# Civil Agencies' Suggestions Suggestions Rank Increase adherence to agency pricing policy Increase management skills Increase availability of off-the-shelf software

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FIOV1- 55



# Defense Agencies' Suggestions Suggestions Rank Increase availability of integrated services Increase awareness of DoD standards Increase use of 4th-gen. tools for development Input Four. 56

Notes	



# Defense Agencies' Suggestions

Suggestions	Rank	
Increase work force's knowledge and ability	4	
Increase awareness of agency requirements	5	
	INPUT FIOV1- 57	

Notes				



### Recommendations

- Maximize pricing strategies
- · Comply with federal standards
- Vertically penetrate agencies
- · Maintain positive reputation

INPUT

Notes			



### Recommendations

- Direct marketing efforts to reflect political emphasis on programs
- Capitalize on specialized expertise
- Target markets

INPUT

