

# **Commercial Software Licensing**

CHAPTER 11:

# **Software Implementation Service Agreements**

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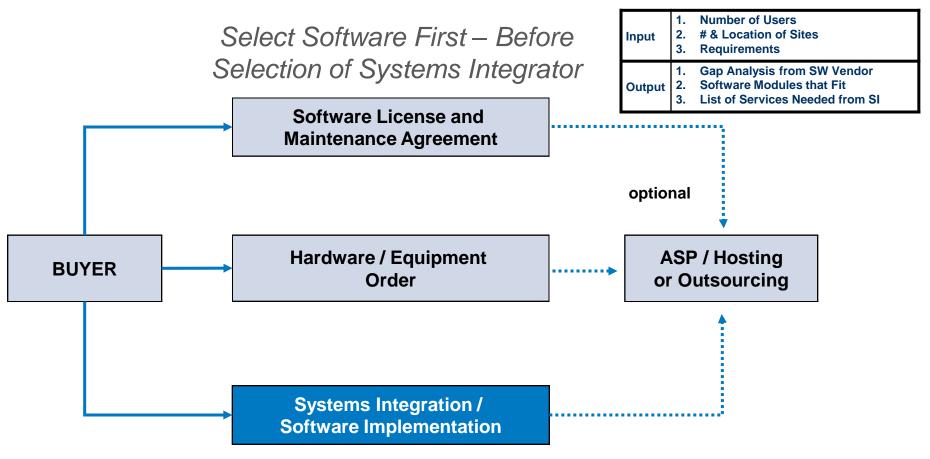
# **Chapter Overview**

- The government uses three primary agreement types for services:
  - Fixed Price (FP).
  - T&M (Time and Materials).
  - Cost Plus.
- This chapter focuses primarily on Fixed Price agreements.
- Each type has pros and cons; the government prefers fixed price arrangements in most cases.
- Cost predictability is the biggest factor favoring fixed price arrangements.
- Cost predictability is driven by certainty of project scope/requirements.



### **Key Contract Elements**

Commercial-off-the-shelf (COTS) Software Program



*Enterprise Software / COTS that requires configuration, implementation, and interfaces* 



# **Software Implementation Models**

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### **Enterprise Software**

Software Seller, System Integrator, & Customer

- Most Common Model
- Most Successful Model

Software Seller & Customer

• Least Common Model

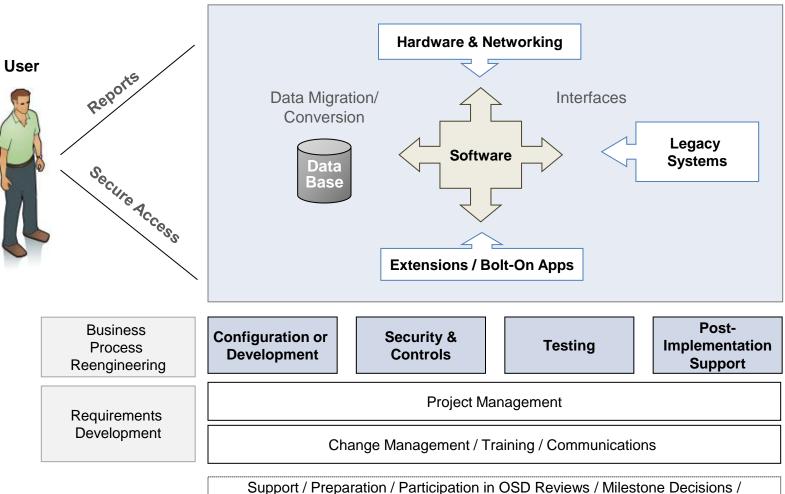
System Integrator & Customer

• Least Successful Model



### **System Integration Services**

For Typical Commercial-off-the-shelf (COTS) Software



Oversight / Certifications / Regulatory Compliance



# **Software Implementation**

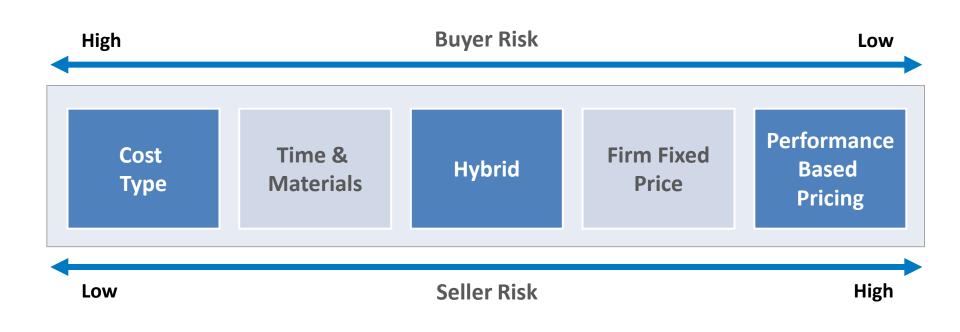
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Capabilities & Requirements

Requirements are met by the COTS Software Adoption of Best Practices as Directed by Standard *(out-of-the-box)* Functionality of COTS/ Enterprise Software

Reports	Interfaces	Data Conversions	Extensions
(non-standard)	(to/from continuing systems)	(from retiring systems)	(functions not covered in COTS solution)





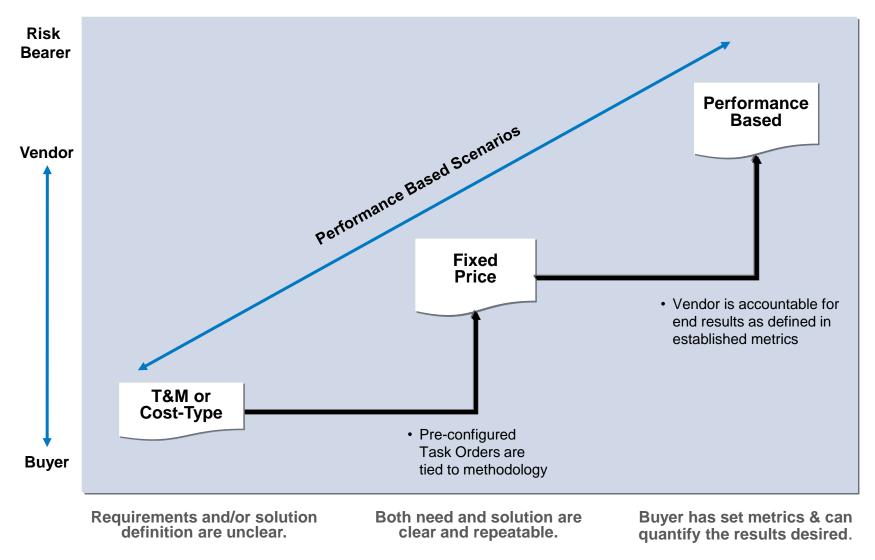


Source: Information Technology Project Management, Fourth Edition

Used in Masters Program at Villanova University



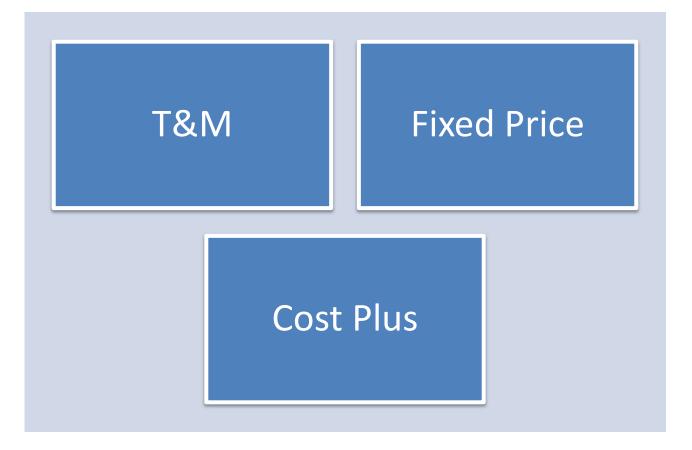
### **Solution-Based Pricing**





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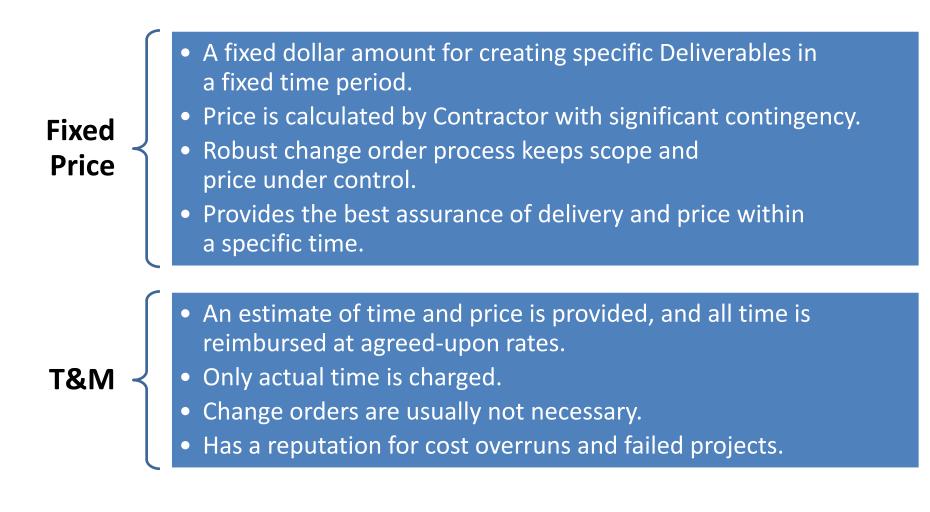
## **Software Implementation Contract Types**





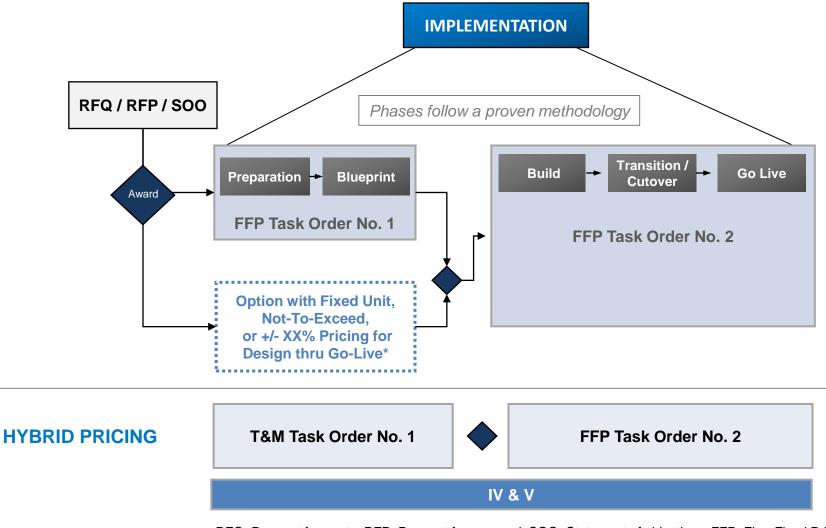
# **Enterprise Software Implementation**

Fixed Price vs. T&M





## **Pricing Tied to Project Phases**



RFQ=Request for quote, RFP=Request for proposal, SOO=Statement of objectives, FFP=Firm Fixed Price



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# **Price for Performance Table**

Tied to Methodology

Methodology Phase:	Blueprint	Baseline Pr	ice Tables Aligned With Metho	dology
Services to be Performed by Contractor	Deliverable(s)	Duration (or due date)	Acceptance Criteria	Payment Upon Acceptance
Perform Process & Functional Gap Analysis and Document Proposed Resolutions.	Detailed <u>Gap</u> <u>Analysis Report</u> including proposed resolutions.	4 weeks.	The documented deliverable shall conform to the format and structure of the sample attached as Attachment D-6.	\$42,500

#### **Sample Performance-Based Holdback**

Deliverable	Deliverable Price	Payment Upon Acceptance	10% Holdback	Performance Scorecard Summary	Payment Based on Performance Scorecard
Change	\$100,000	\$90,000	\$10,000	Exceeds.	\$15,000
Management Plan				Meets.	\$10,000
				Does not meet.	\$0



### **Government Duties**

#### Avoid Assumptions

- Assumptions are a common cause for confusion, failure, delay and avoidable change orders.
- Force clarity of buyer duties and scope conditions as early as possible.
- Establish list of expected buyer duties in RFQ/RFP and obtain bidder validation or expansion of list in proposals (including government personnel needed—by role and cost).
- Identify buyer duties, by milestone or deliverable, and across all phases.
- Don't expect vendors to volunteer resolution of assumptions—they've been used for many years.

### Examples of Language to Use

- "Provide a Project Manager who will ... (or) Provide staff resources who ..."
- "Provide all hardware, software ..." (or) "Provide office space, telecommunications, ..."
- "Provide documentation of business processes ..." (or) "Document data and database file structure ..."
- "Perform data and file cleanup on legacy systems..." (or) "Stage legacy system data for conversion ..."
- "Conduct User Acceptance test ..."
- "Limited hosting is restricted to hardware, security, connectivity, networking aspects of IT environment."

Milestone	Services to be Performed by Contractor	Deliverable	Detailed Deliverable Description	Buyer's Duties



# **Managing Contractor Assumptions**

#### **Effective Assumption Management**

 Include in RFP (Section L – Instructions) that Contractor identify all Assumptions, Deviations, and Exceptions (ADEs) to the RFP in a specific section of the Proposal Price/Cost Volume.

#### Guidelines

- Instructions include statement that ADEs appearing anywhere else in the proposal will not be considered part of the Proposal/Offer and therefore not meaningful nor binding in any way.
- Require Contractors to identify Technical, Schedule and Cost impact on awarded contract of any Assumptions that are not met, Exceptions that are not granted, and Deviations that are not approved.
- Include statement that the Government reserves the right to include the Cost impact of any ADEs in the evaluated price.
- Include Statement that Government reserves the right to adjust Technical and Management scores during the evaluation for the additional risk posed by ADEs.



# **Phased Approach**

Price Tied to Methodology

PROJECT PHASES						
Threads	1.0 <b>Plan &amp; Analyze</b>	2.0 <b>Design</b>	3.0 Build	4.0 <b>Deliver</b>	5.0 <b>Operate</b>	Total
Project Management	\$114,735	\$285,701	\$437,789	\$126,581	\$47,491	\$1,012,297
Value Realization	\$94,082	\$42,595	\$81,228	\$35,080	\$35,661	\$288,646
Strategy & Operations	\$163,918	\$712,069	\$1,927,378	\$574,632	\$396,257	\$3,774,255
Technology	\$58,573	\$255,540	\$956,439	\$236,489	\$151,049	\$1,658,089
Security & Controls	\$27,955	\$130,457	\$424,655	\$74,547	\$37,273	\$694,888
People	\$62,765	\$138,454	\$494,223	\$155,049	\$96,161	\$946,652
Total	\$522,028	\$1,564,817	\$4,321,712	\$1,202,378	\$763,892	\$8,374,826
Duration in Months	1.5	3.5	5.5	2.0	2.0	14.5

FACTOR	SCOPE / QUANTITY
End Users	2000
Commands / Sites	1
Business Processes	5
Sub-Processes	50
Instances	1
RICE (Reports, Interfaces,	5 Reports, Interfaces, Customizations, each at low, medium & high complexity;
Customizations, Enhancements)	1 Enhancement at low, medium & high complexity.

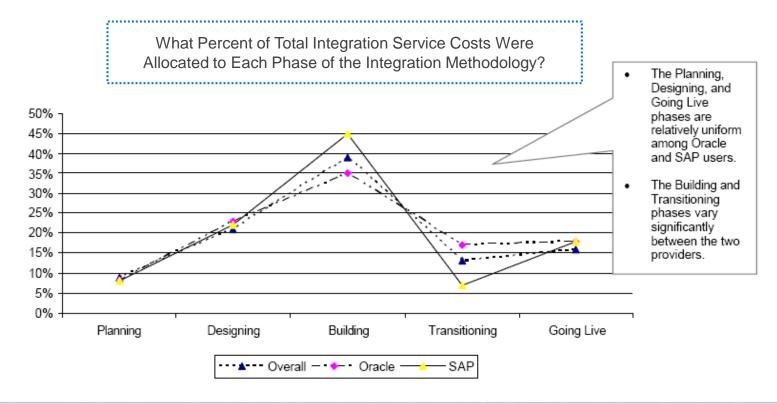


# **Price Breakdown by Methodology Phase**

Results From The Enterprise Resource Planning (ERP) Spending Pulse Survey | Survey EPR SPENDING TRENDS

# **Cost Along the Pipeline**

#### The single largest integration service costs occur in the building phase...





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### **Fixed Pricing Menu for Variable Scope**

Where quantity of RICE is not nailed down, use unit pricing tied to complexity level definitions.

R.I.C.E Pricing Table					
	Complexity				
	Low	Medium	High		
Reports & Forms	\$3,592.52	\$6,286.91	\$8,083.17		
Interfaces	\$3,592.52	\$10,777.56	\$21,555.13		
Conversions	\$7,668.88	\$23,006.63	\$46,013.27		
Extensions & Workflow	\$9,580.06	\$29,937.68	\$80,232.98		

Price includes creation of technical specification, coding, documentation and unit testing.



# **Fixed Pricing Menu for Variable Scope**

Driver Item	Basis	Scope/Criteria
Enhancements (Low)	1	Additional code triggered by package provided tools that will not alter upgradeability. Includes workflow programs.
Enhancements (Medium)	1	Medium = extension to sub-process to include specific client capabilities and requirements.
Enhancements (High)	1	High = whole sub-process that must be designed and coded because it is not supported by package.
Interfaces (Low)	5	Low = batch interface using flat file in or flat file out with error reports.
Interfaces (Medium)	5	Medium = live interface with middleware and batch error reports.
Interfaces (High)	5	High = live interface with middleware and error alerts and data translation tables.
Conversions (Low)	5	Low = flat file records from legacy with no translation to Enterprise Resource Planning (ERP) package.
Conversions (Medium)	5	Medium = flat file from legacy with data translation and multiple ERP record destinations.
Conversions (High)	5	High = legacy data must be combined with other data in intermediate programs to fabricate the ERP package data required.
Reports (Low)	5	Reports include forms such as purchase order or invoice. Low = small modification to existing ERP package report or form.
Reports (Medium)	5	Medium = extensive modification to ERP package provided report or form.
Reports (High)	5	High = build from scratch report or form which may require intermediate processing of data to produce.



# **Scope and Budget Management**

### Effective Scope and Budget Management

• Requires discipline and leadership to "stay the course", prevent scope creep.

#### Guidelines

- Well defined scope via requirements, SOO, and contract terms (marriage of project management and contract).
- Senior leadership who will make the tough decisions to stick to the original Scope (*Commit to adoption of the new way, rather than doing things just because "that's the way we've always done it"*).
- Both sides must be ready to say "NO!" to unnecessary changes.
- Business Process Reengineering (BPR) occurs up front.
- Phased pricing mapped to methodology (modular contracting).
- Enforce Bonus and Penalty Pricing (tied to a Quality Assurance Surveillance Plan—QASP).



# **Roadmap for Success with a FP Contract**

Requirements	Competition	Scope & Budget Management
Do you know what you need?	Who has the best experience to deliver this solution for you?	How will you mitigate the amount of changes to your baseline scope and price?
Mission	Market Research	• Leadership
Goals	• RFP / SOO	• Firm Requirements
Vision	Evaluation	Buyer Duties Fulfilled
Challenge	Contract	<u>Contract Management</u>
<ul> <li>Financial Justification</li> </ul>	Buyer Duties	Project Management
Business Case	Clearly Defined	<u>Communications</u>
• SOO / Requirements		
Project Charter		



#### Define Requirements According to Outcomes

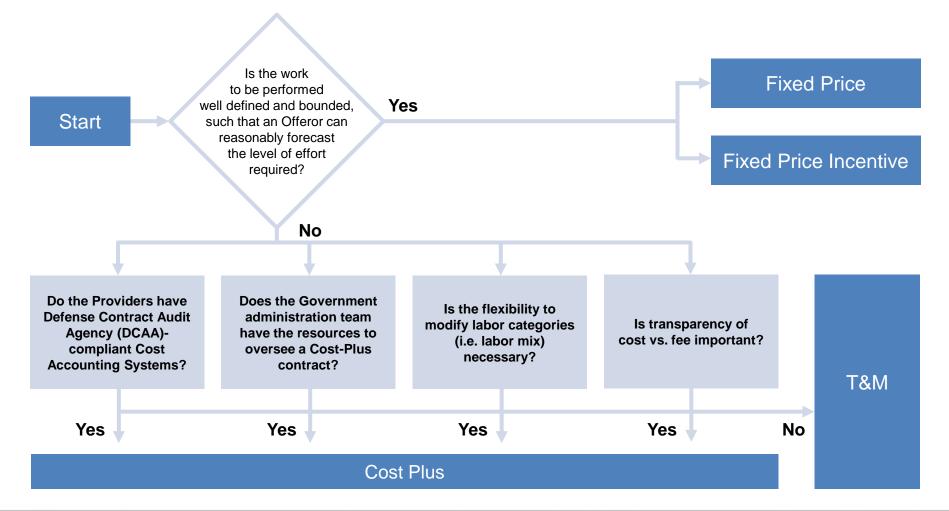
- Commercial buyers define content of requirements by the outcome of the work.
- "If you don't know your requirements, maybe you should slow down and think about whether you should be buying anything."
- Leave it to vendors to propose "how to do it."
- This allows vendors to bring forth expertise, experience, and proprietary approaches (e.g. methodologies).



### **Determination Decision Process**

### High-Level Contract Type

Following this decision-tree helps determine the optimal contract type for an IT services requirement.





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# When to Use Fixed-Price Contract Type

#### **Optimal Zone CONSIDERATIONS** High Degree of Clarity & Specificity Low Degree of Clarity & Specificity **Clarity & Specificity** of the Requirement Unbounded **Tightly Bounded Bounding of the** Requirement Predictable Unpredictable **Predictability of Cost** RESULTS Risk to IT Buyer Risk to the Contractor **Risk to IT Buyer &** to the Contractor **Minimal Incentive Significant Incentive** Incentive to **Control Cost** Minimum Transparency Maximum Transparency **Cost Transparency**



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# **Drawbacks to T&M Contract Type**

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#### CONSIDERATIONS

Optimal Zone

Clarity & Specificity	Low Degree of Clarity & Specificity	High Degree of Clarity & Specificity
of the Requirement		
Bounding of the Requirement	Unbounded	Tightly Bounded
Predictability of Cost	Unpredictable	Predictable
RESULTS		
Risk to IT Buyer & to the Contractor	Risk to IT Buyer	Risk to the Contractor
Incentive to Control Cost	Minimal Incentive	Significant Incentive
Cost Transparency	Minimum Transparency	Maximum Transparency



# **Key Considerations by Contract Type**

Situation	Potential Contract Type	Considerations
<ul><li>Well-defined requirement.</li><li>Bounded as to scope, timeframe, and</li></ul>	Fixed Price	<ul> <li>If requirements are not well defined this can, in fact, be the riskiest type for the Government.</li> </ul>
performance.		<ul> <li>Technical, functional, and performance requirements must all be well-defined.</li> </ul>
<ul> <li>Unbounded, ill-defined requirements.</li> </ul>	Cost Plus	• Appropriate when requirement cannot be well defined or several
<ul> <li>One or more dependencies that cannot be predicted and can impact the</li> </ul>		dependencies exist that make proposing a Fixed Price challenging.
Contractor's cost.		<ul> <li>Requires the Government contract administration team to be</li> </ul>
<ul> <li>Desire for flexibility to move costs among labor categories and offshore</li> </ul>		trained and equipped to manage a Cost-Plus type contract.
development centers (ODCs).		<ul> <li>Only Contractors with DCAA-compliant cost accounting systems can propose this approach.</li> </ul>
<ul> <li>DCAA-compliant Contractors.</li> </ul>		
<ul> <li>Sufficient contract administration resources.</li> </ul>		<ul> <li>Enables flexibility to move costs among labor categories and various ODCs such as equipment, travel, etc.</li> </ul>
<ul> <li>Unbounded, ill-defined requirements.</li> </ul>	Time &	<ul> <li>Most challenging contract type in terms of approvals; substantial</li> </ul>
One or more dependencies that cannot	Materials	justification is required.
be predicted and can impact the Contractor's cost.		<ul> <li>In general, labor categories and hours ordered must be performed, and little (<i>if any</i>) flexibility exists to change them.</li> </ul>
		<ul> <li>Easiest to cross the line into personal services.</li> </ul>



Name the three types of software implementation service agreements available to the government.

Discuss the pros and cons of each agreement type from the perspective of the government.

Discuss the pros and cons of each agreement type from the perspective of the contractor.

Discuss the strengths and weaknesses of the government's preferred agreement type as it relates to definable scope and certainty of requirements.

