Inbound Transportation Business Case Analysis

Results Briefing September 25, 2012



- Task
- Methodology
- Assumptions
- Size of the Opportunity
- Scenario Costs, Benefits, ROI, Sensitivity and Risks
 - Scenario 2
 - Scenario 3
 - Scenario 4
- Conclusions





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- Success Factors and Conclusions



Task

 To quantify the potential savings opportunity if the Federal government actively managed inbound transportation, by constructing a business case analysis (BCA).



What do we mean by inbound transportation?

- All shipments inbound from a seller to a buyer's delivery point
- For this initiative, shipments of material goods ordered by a government activity from a commercial supplier inbound to a government location
- Typically occurs under free on board (FOB) destination terms
 - The seller arranges for the transportation of goods and normally includes the transportation as part of the purchase price of the goods
 - The buyer takes title to the goods upon delivery
 - Approximately 95% of all purchases are under these terms
- Under FOB origin terms
 - The buyer would arrange for the transportation
 - The buyer would take title to the goods upon pickup at the seller's location



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Analysis Hurdle - Data

 Performing a BCA for inbound transportation is extremely difficult, due to a lack of reference data

Federal Data

- Only a small portion (~5%) of inbound transportation is currently managed FOB Origin
- Current contracts with FOB Destination do not require separate reporting for the cost of transportation
- DLA is investigating pilots on inbound, but no actual data available
- No agencies volunteered to conduct or participate in any pilot efforts

Commercial Data

- Inbound management a new area of focus best served for those organizations who have already optimized outbound transportation and other supply chain areas
 - They have good visibility into future demand and consumption patterns
 - They target very specific commodities based on profitability
- Private data difficult to obtain as it reveals competitive advantages



Methodology Used

- Given the dearth of available data, we used the following approach
 - 1. Identified a set of "pure" alternatives to the current "as is" situation
 - Laid out cost and benefit areas and determined most-feasible method for approximating ranges to use
 - a) Data sources available (e.g. FPDS)
 - b) Industry benchmarks for performance and improvement (e.g. Establish Inc., GENCO)
 - Subject matter expertise based on job experience (e.g. LMI, GENCO)
 - 3. Determined low, high, and "target" (most likely) values for each cost and benefit area, documenting assumptions made as required
 - 4. Evaluated costs versus benefits year-over-year and cumulatively
 - 5. Varied cost and benefit variables to determine sensitivity to values used
 - 6. Identified risks to the cumulative net benefit results
 - Formulated conclusions



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Major Assumptions

Material-related

- Some items will be unreasonable to transition to FOB Origin
 - Type of item (e.g. major end items, liquid bulk items, munitions, ores)
 - Mode of transport (e.g. overweight, oversize, permitting required)

Acquisition-related

- If items are changed to FOB Origin, federal acquisition personnel will be able to negotiate down the current cost at least commensurate with the estimated transportation cost
- Any changes to FOB Origin will be phased in as contracts are renewed or awarded, over a 5-year timeframe
- Not all items reasonable for FOB Origin will be easily modified due to
 - Supplier processes and resistance
 - Supplier leverage and existing low transportation rates
 - Cost of typical shipment and liability concerns
- Additional acquisition professionals will be required to investigate transportation costs during award of contracts for material goods



Major Assumptions (cont.)

Transportation-Related

- Focused on domestic freight movement for the 23 civilian CFO Act agencies (DoD is excluded)
- Includes LTL, Truckload, Air, and Parcel
- Additional transportation staff will be needed for the inbound moves
- The average costs for transportation will decrease if actively managed
- More improvement will be seen at higher levels of centralization due to increased visibility of requirements and ability to leverage volume

Data and Financial-Related

- FPDS represents the most accurate data available for materials acquired
- Industry benchmarks are accurate (GENCO, Establish Inc.)
- Benchmarks and trends based on outbound transportation are transferrable to inbound transportation behavior
- Inflation and discount rates are applied based on current OMB circular guidance



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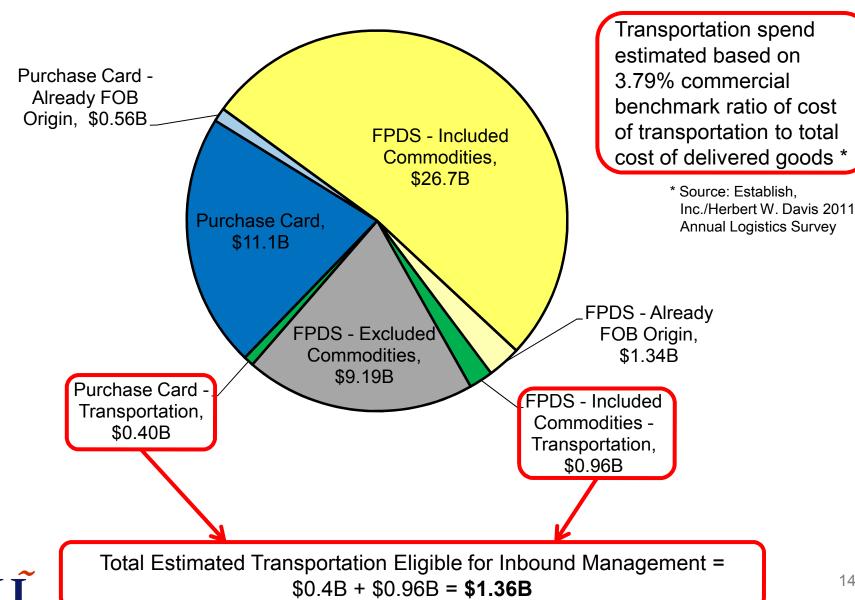


Federal Data Sources Used

- Federal Procurement Data System-Next Generation (FPDS-NG) and FY11 action obligations on material items by:
 - Civilian CFO Act department/agency (23 agencies)
 - Federal supply class code/description (then organized into smaller commodity groupings)
 - Vendor name/location
 - Action obligations greater than \$0
 - FPDS has no data on shipment modes, lanes, weights, or volumes
 - Assumed action obligations represented actual inbound shipment activity
- GSA SmartPay purchase card data
 - FY2011 for civilian CFO Act department/agencies



Breakdown of FY2011 Commodity Spend and Estimated Transportation Costs (in \$ billions)





Excluded Commodities

| Commodity | Reason for exclusion |
|-----------------------------|--|
| Petroleum, oils, lubricants | DoD is single largest buyer, dwarfing all others Includes pipeline shipments not suitable for this initiative |
| Munitions | Freight is highly sensitive and tightly controlled by government requirements, including carrier certifications and security regulations Limited potential to expand number of qualified carriers, which is already limited due to certification requirements |
| Other | Largest single component is minerals/ores, which are among the largest bulk commodities shipped via rail Only 7 class I rail carriers in the US; little overlap in networks and little leeway in negotiating better rates |
| Major end items | Usually requires specialized hauling equipment; can be difficult to procure given unusual demand patterns for freight Often procured via spot bids vs. contracts or capacity agreements |



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Scenarios for Analysis

| Scenario | Name | Description |
|----------|-------|--|
| 1 | As-Is | The current situation; All other scenarios are evaluated based on positive or negative change in relation to this scenario |
| | | Each of the 23 civilian CFO Act agencies arranges IBT individually; acquires own cloud-based TMS service; redundant costs likely |
| 3 | GSA | All 23 civilian CFO Act agencies use GSA to manage IBT GSA uses Transport Integrator (TPI), meaning TMS acquisition and implementation already sunk costs; ongoing and future PMO and TMS costs assumed contained within "pass through" |
| 4 3PL | | All 23 civilian CFO Act agencies use a 3PL or other contractor to manage the IBT |



Cost Areas per Scenario

| | Scenario | | | |
|--|--------------------------------|-----|-----|--|
| | 2 | 3 | 4 | |
| Cost Area | Independent Agency Approach | GSA | 3PL | |
| TMS Information Assurance Certification and Renewal | X | X | X | |
| TMS Usage Fees (Cloud) | X | X* | | |
| Training | X | X | X | |
| Change Management | X | X | X | |
| 3PL Management Fees | | | X | |
| 3PL Award Fees | | | X | |
| PMO Standup and Operations | X | X* | Х | |
| Acquisition FTEs | X | X | Χ | |
| Transportation FTEs | X | X | Х | |

^{*} Costs TPI PMO and TMS handled as an industrial funding fee which is transparent to the end customer but included in the TSP rate tender



Financial Basics

- Inflation estimated at 2% per year, based on M-08-13
 - Government FTE costs inflated at .5% for next 3 years, then 2% per year after, based on OMB current pay freeze status and M-08-13
- Discount rate estimated at 2.8%, based on 10-year rate published in OMB Circular A-94 Appendix C
- Government FTEs assumed to be
 - GS-13 (step 4) for additional acquisition and transportation personnel
 - A mix of GS grades for PMO and IT support staff
- All government FTE cost include salary base using OPM Salary Table 2012-DCB and 36.25% fringe, based on OMB M-08-13 update to A-76
- 10-year horizon with
 - FY2014 the first year of implementation
 - Benefits starting FY2015 and ramping up from 20% to 100% realization by FY2019



Benefit Levels per Scenario

| | | Scenario | | | |
|--|--|--------------------------------|--------------------|--------------------|--|
| | | 2 | 3 | 4 | |
| | | Independent Agency Approach | GSA | 3PL | |
| Total Inbound Transportation Spend | The estimated amount of current spend on inbound transportation | \$1.36B | \$1.36B | \$1.36B | |
| Raw Transportation Cost Improvement Range* | The benchmarch percentages lower for transportation costs, based on other initiatives and GENCO 3PL experience | 5%-15% | 5%-15% | 5%-15% | |
| Effectiveness Probability** | The probability of the scenario capturing all of these savings, or the expected percentage of the full savings the scenario will achieve | 60% - 70% | 80%-85% | 95%-100% | |
| Resulting Cost Savings \$ Range | Resulting annual cost savings range, based on the scenario, at 100% participation | \$40.8M - \$142.8M | \$54.4M - \$173.5M | \$64.6M - \$204.1M | |
| Participation Levels | The range of participation a scenario will see, based on other major initiatives | 30% - 50% | 30% - 50% | 30% - 50% | |
| Final Annual Likely Cost Savings Range | The likely cost savings based on the benchmark savings, modified by the effectiveness of the scenario and the participation level | \$12.2M - \$71.4M | \$16.3M - \$86.7M | \$19.4M - \$102.0M | |

^{*} Based on other study targets including DLA First Destination Transportation and Packing Initiative, and GENCO ATC research of June 2012 rate performance

^{**} Based on LMI assessment of scenario performance factors



Implementation Timing

- Year 1 = FY2014 = Startup
 - Would be most likely entirely planning and implementation with little to no benefits incurred
 - TMS
 - 3PL service and PMO
- Years 2-6 = FY2015-FY2019 = Phase-In
 - Contracts would be modified as they came up for renewal or were competed
 - 20%/year
 - Increase in transportation cost benefits
 - Increase in acquisition and transportation FTEs needed
 - Increase in 3PL service fees
- Years 7 and Beyond = Maturity



Scenario Variants

- Because many of the costs and benefits are closely related to the level of participation, the following three variants are investigated for each scenario
 - Target Participation
 - Low Participation
 - Less transportation savings
 - Higher 3PL transaction fees
 - Lower number of additional FTEs needed within the government
 - High Participation
 - Higher transportation savings
 - Lower 3PL transaction fees
 - Higher number of additional FTEs needed within the government



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Costs and Benefits

Scenario 2 – Independent Agency Approach

| Cost Type | Cost Description | Low | Target | High |
|----------------------------------|---|---------------|---------------|---------------|
| | TMS Cloud Configuration | \$ 2,625,000 | \$ 4,462,500 | \$ 6,037,500 |
| Startup | Information Assurance | \$ 1,000,000 | \$ 2,125,000 | \$ 3,450,000 |
| | Change Management | \$ 4,305,600 | \$ 9,149,400 | \$ 14,854,320 |
| First year costs associated with | Training | \$ 229,600 | \$ 459,000 | \$ 781,200 |
| planning and | Contractor Support (Planning, Acquisition) | \$ 7,038,000 | \$ 11,964,600 | \$ 16,187,400 |
| acquisition | Government FTEs (Planning, Acquisition) | \$ 11,013,687 | \$ 18,723,268 | \$ 25,331,480 |
| | TOTAL | \$26,211,887 | \$46,883,768 | \$ 66,641,900 |
| | TMS Cloud Usage | \$ 1,700,000 | \$ 2,890,000 | \$ 3,910,000 |
| | Information Assurance | \$ 780,000 | \$ 1,657,500 | \$ 2,691,000 |
| Recurring * | Change Management | \$ 1,076,400 | \$ 1,829,880 | \$ 2,475,720 |
| | Training | \$ 57,600 | \$ 115,000 | \$ 195,600 |
| Annual costs associated with | Contractor Support (Operations, Maintenance) | \$ 4,235,220 | \$ 7,199,874 | \$ 9,741,006 |
| operations and | Government FTEs (Operations, Maintenance) | \$ 11,013,687 | \$ 18,723,268 | \$ 25,331,480 |
| maintenance | Government FTEs - Additional Transportation Staff * | \$ 19,615,357 | \$ 26,153,809 | \$ 32,692,261 |
| | Government FTEs - Additional Acquisition Staff * | \$ 10,675,024 | \$ 21,483,486 | \$ 35,761,330 |
| | TOTAL | \$49,153,288 | \$80,052,817 | \$112,798,398 |

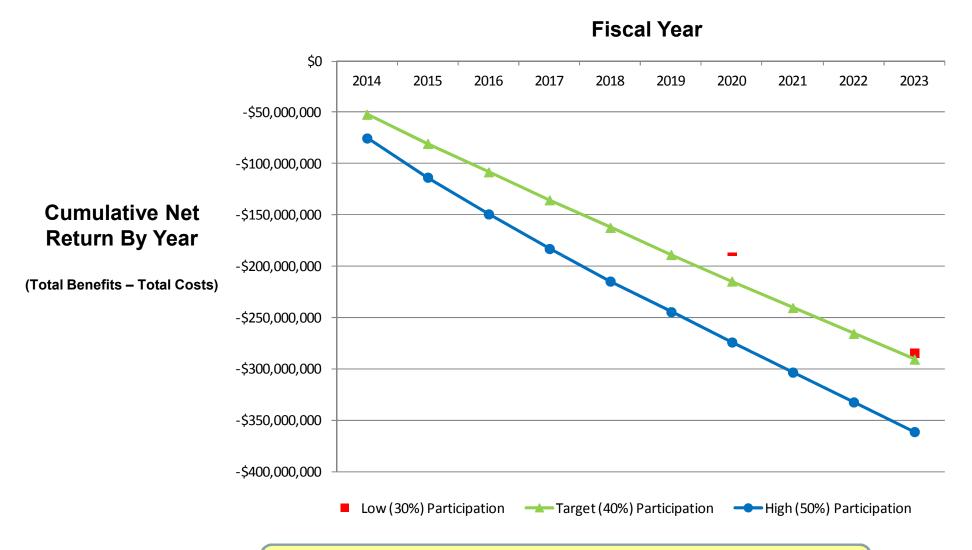
| Benefit * | Benefit Description | Low | Target | High |
|---|--------------------------------------|---------------|---------------|----------------------|
| Annual savings or avoidance through better managed inbound transportation | Annual Transportation Savings Cost * | \$ 12,243,802 | \$ 44,213,728 | \$ 71,422,175 |



Based on full maturity of program, with 20% program roll-out each year, starting in FY2015 and completing in by FY2020; All figures based on current year dollars for this table; Actual analysis adjusted costs and benefits in each out-year to consider the time-value of money, using OMB Circulars A-76 and A-94.

Return on Investment – Cumulative Net Benefit

Scenario 2 – Independent Agency Approach





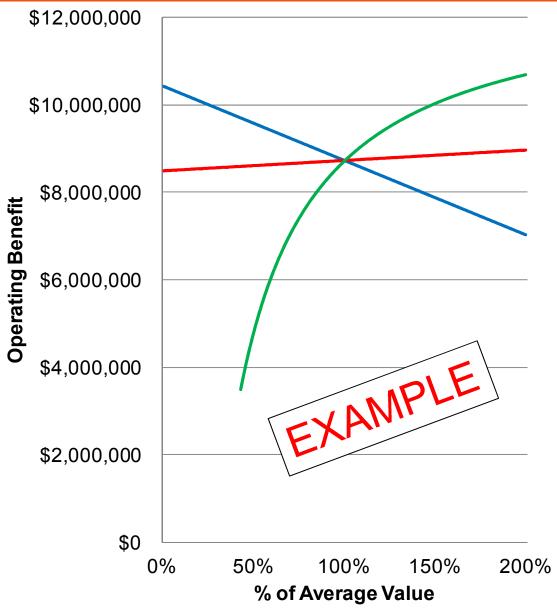
- Not profitable under any conditions
- Too hampered by costs of multiple individual efforts

Sensitivity Analysis

- Identify key variables for the scenario
- Vary one variable at a time +/- from the target value and assess cumulative net benefit
- Plot the results of all key variables onto one graph, creating a "spider graph"



Reading a Spider Graph



- All variable lines will intersect at 100% - the average use case results
- The slope of the line indicates a positive or negative correlation between the variable value and the overall financial performance
- The severity of the slope indicates the impact of that variable in comparison to the other variables



Major Variables for Sensitivity Analysis

Scenario 2 – Independent Agency Approach

| Variable Name | Target Participation Level Value | Sensitivity Range |
|--------------------------------------|----------------------------------|-------------------|
| Participation Level | 40% | 0 – 80% |
| Transportation Savings | 12.5% | 0 – 25% |
| Effectiveness Level | 65% | 0 – 100% |
| Transportation Spend % of Total Cost | 3.79% | 0 - 7.58% |
| Additional FTEs Needed | 393 | 0 – 796 |

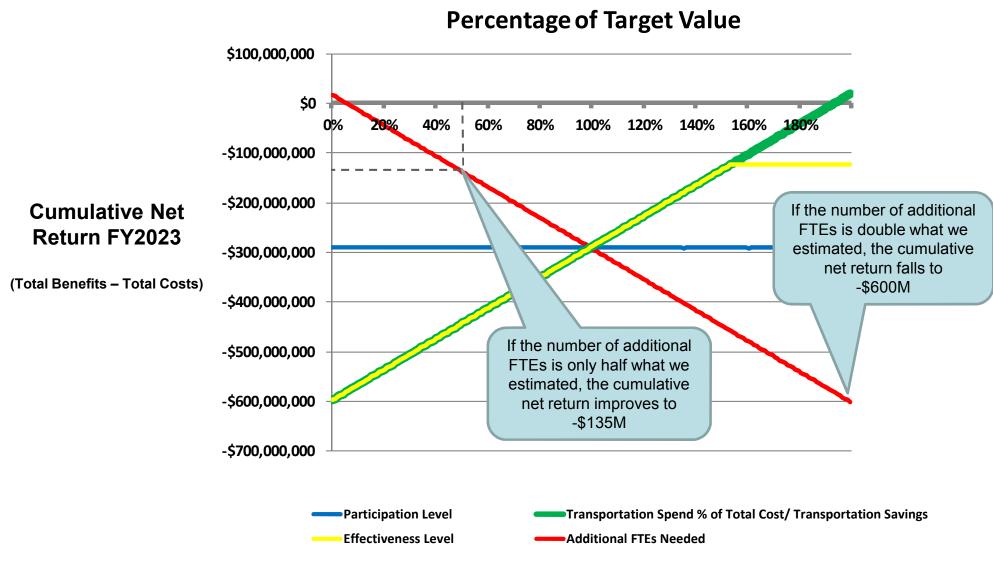
Other variables were also examined for Scenario 2 ROI sensitivity but had negligible impact

- TMS cloud costs
- Training costs
- Change management costs
- PMO and Contractor costs



Sensitivity Analysis

Scenario 2 – Independent Agency Approach





Risks

Scenario 2 – Independent Agency Approach

- Because Scenario 2 has no chance of profitability, the overall risk is that this scenario occurs...
- If each agency attempts to manage inbound transportation on their own the result will be redundant
 - TMS costs
 - Contractor costs
 - Government support costs (IT and management)
 - Government transportation and acquisition FTE



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Costs and Benefits

Scenario 3 - GSA

| Cost Type | Cost Description | Low | Target | High |
|---|--|--------------|--------------|--------------|
| Startup Information Assurance | | \$100,000 | \$125,000 | \$150,000 |
| First year costs | Change Management | \$861,120 | \$1,076,400 | \$1,291,680 |
| associated with planning | Training | \$184,000 | \$370,000 | \$627,600 |
| an acquisition | TOTAL | \$1,145,120 | \$1,571,400 | \$2,069,280 |
| | Information Assurance | \$78,000 | \$97,500 | \$117,000 |
| Recurring * | Change Management | \$107,640 | \$161,460 | \$215,280 |
| | Training | \$46,000 | \$92,500 | \$156,900 |
| Annual costs associated with operations and | Government FTEs - Additional Transportation Staff ** | \$14,678,158 | \$19,615,357 | \$24,552,555 |
| maintenance | Government FTEs - Additional Acquisition Staff ** | \$8,006,268 | \$16,145,974 | \$26,820,998 |
| | TOTAL | \$22,916,066 | \$36,112,790 | \$51,862,733 |
| | Benefit Description | Low | Target | High |
| Benefit * | | | | |
| Annual savings or avoidance through better managed inbound transportation | | | | |
| | Annual Transportation Savings Cost * | \$16,325,069 | \$56,117,424 | \$86,726,927 |



^{*} Based on full maturity of program, with 20% program roll-out each year, starting in FY2015 and completing in by FY2020; All figures based on current year dollars for this table; Actual analysis adjusted costs and benefits in each out-year to consider the time-value of money, using OMB Circulars A-76 and A-94.

^{**} Additional Transportation and Acquisition FTEs are at the 23 civilian CFO Act departments/agencies to handle additional workload in process transportation moves and evaluating and negotiating contracts for goods.

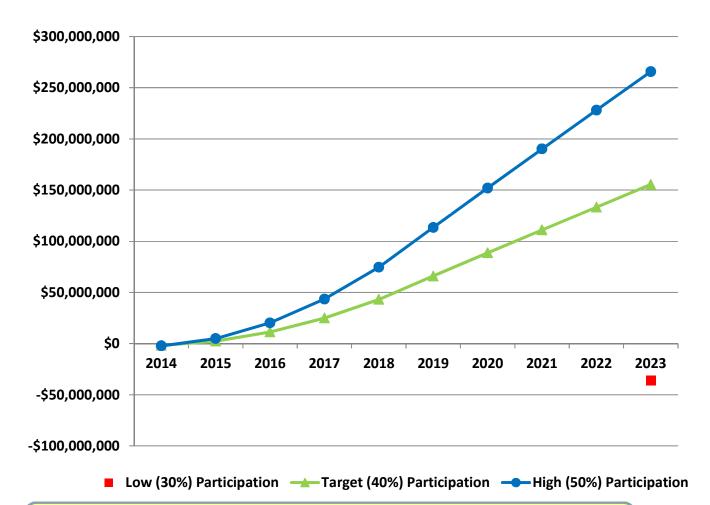
Return on Investment – Cumulative Net Benefit

Scenario 3 - GSA

Fiscal Year

Cumulative Net Return By Year

(Total Benefits - Total Costs)







Major Variables for Sensitivity Analysis

Scenario 3 - GSA

| Variable Name | Target Participation Level Value | Sensitivity Range |
|--------------------------------------|----------------------------------|-------------------|
| Participation Level | 40% | 0 – 80% |
| Transportation Savings | 12.5% | 0 – 25% |
| Effectiveness Level | 83% | 0 – 100% |
| Transportation Spend % of Total Cost | 3.79% | 0 – 7.58% |
| Additional FTEs Needed | 295 | 0 – 590 |

Other variables were also examined for Scenario 2 ROI sensitivity but had negligible impact

- TMS cloud costs
- Training costs
- Change management costs
- PMO and Contractor costs



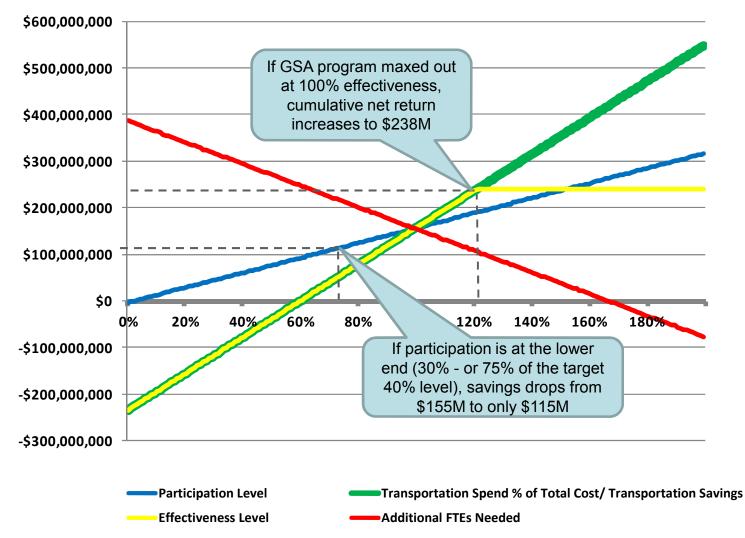
Sensitivity Analysis

Scenario 3 - GSA

Percentage of Target Value

Cumulative Net Return FY2023

(Total Benefits - Total Costs)





Risks

Scenario 3 - GSA

- This scenario becomes unprofitable
 - If the effectiveness of this scenario drops from the target 83% to only 50%
 - If the percentage transportation savings achieved falls below 7.5%
 - If the number of additional transportation and acquisition personnel exceeds 500 total
- To mitigate these risks
 - Extensive data collection on specific commodity areas and transportation charged is required
 - A detailed workload forecast should be conducted to determine the number of extra transportation and acquisition personnel



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Costs and Benefits

Scenario 4 – 3PL

| Cost Type | Cost Description | Low | Target | High |
|---|--|--------------|--------------|---------------|
| Startup | Information Assurance | \$100,000 | \$125,000 | \$150,000 |
| Curtup | Change Management | \$1,076,400 | \$1,506,960 | \$1,937,520 |
| First year costs | Training | \$156,800 | \$316,000 | \$535,200 |
| associated with planning | PMO Standup - Staff | \$1,000,000 | \$1,150,000 | \$1,300,000 |
| an acquisition | PMO Standup - Contractor Support | \$3,000,000 | \$3,600,000 | \$4,200,000 |
| | TOTAL | \$5,333,200 | \$6,697,960 | \$8,122,720 |
| | Information Assurance | \$78,000 | \$97,500 | \$117,000 |
| | Change Management | \$430,560 | \$645,840 | \$430,560 |
| | Training | \$39,200 | \$79,000 | \$133,800 |
| Recurring * | PMO Operations Staff | \$1,000,000 | \$1,150,000 | \$1,300,000 |
| | PMO Operations - Contractor Support | \$1,500,000 | \$1,800,000 | \$2,100,000 |
| Annual costs associated with operations and | Government FTEs - Additional Transportation Staff ** | \$11,742,526 | \$15,745,660 | \$19,615,357 |
| maintenance | Government FTEs - Additional Acquisition Staff ** | \$6,405,014 | \$12,943,467 | \$21,483,486 |
| maintenance | 3PL Management Fee | \$9,795,041 | \$11,971,717 | \$10,203,168 |
| | 3PL Award Fee | \$612,190 | \$2,176,676 | \$5,101,584 |
| | TOTAL | \$31,602,532 | \$46,609,860 | \$60,484,954 |
| Benefit * | Benefit Description | Low | Target | High |
| Annual savings or avoidance through better | | | - | |
| managed inbound transportation | Annual Transportation Savings Cost * | \$19,386,019 | \$66,320,591 | \$102,031,679 |



^{*} Based on full maturity of program, with 20% program roll-out each year, starting in FY2015 and completing in by FY2020; All figures based on current year dollars for this table; Actual analysis adjusted costs and benefits in each out-year to consider the time-value of money, using OMB Circulars A-76 and A-94.

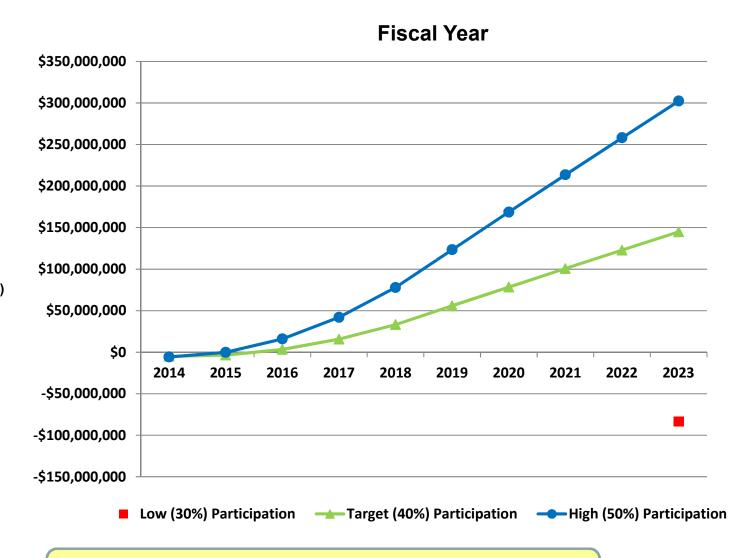
^{**} Additional Transportation and Acquisition FTEs are at the 23 civilian CFO Act departments/agencies to handle additional workload in process transportation moves and evaluating and negotiating contracts for goods.

Return on Investment – Cumulative Net Benefit

Scenario 4 – 3PL



(Total Benefits - Total Costs)



Profitable under all but Low Participation conditions



Major Variables for Sensitivity Analysis

Scenario 4 – 3PL

| Variable Name | Target Participation Level Value | Sensitivity Range |
|--------------------------------------|--|-------------------|
| Participation Level | 40% | 0 – 80% |
| Transportation Savings | 12.5% | 0 – 25% |
| Effectiveness Level | 98% | 0 – 100% |
| Transportation Spend % of Total Cost | 3.79% | 0 – 7.58% |
| 3PL Management Fees | 5.5% | 0 – 11.% |
| Additional FTEs Needed | 248 | 0 – 496 |

Other variables were also examined for Scenario 2 ROI sensitivity but had negligible impact

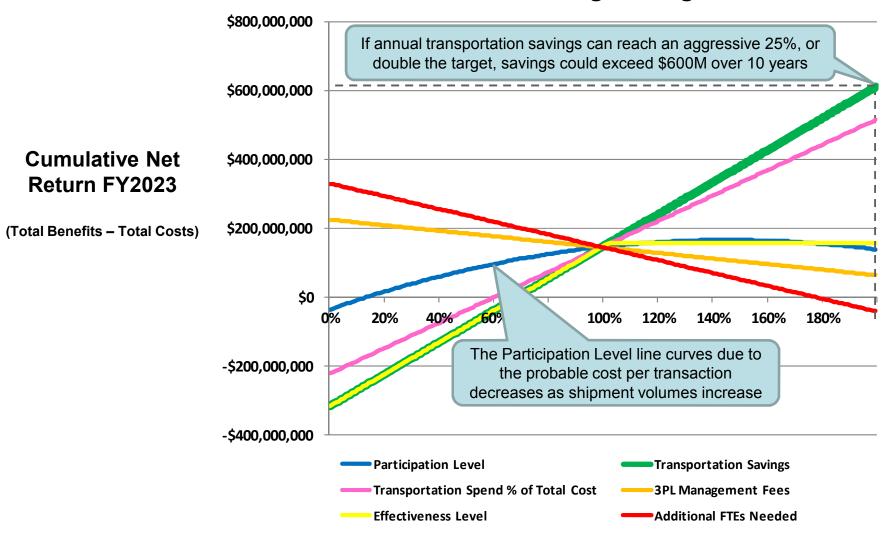
- TMS cloud costs
- Training costs
- Change management costs
- PMO and Contractor costs



Sensitivity Analysis

Scenario 4 – 3PL

Percentage of Target Value





Risks

Scenario 4 – 3PL

- This scenario becomes unprofitable
 - If the effectiveness of this scenario drops from the target 98% to only 70%
 - If the percentage transportation savings achieved falls below 8.5%
 - If the number of additional transportation and acquisition personnel exceeds 450 total
- To mitigate these risks
 - Extensive data collection on specific commodity areas and transportation charged is required
 - A detailed workload forecast should be conducted to determine the number of extra transportation and acquisition personnel



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Success Factors

Acquisition

- Acquisition offices actively attempt to transition contracts to FOB
 Origin and do transportation cost research independently to determine best value based on total landed cost.
- Acquisition personnel negotiate reasonable decreases in the cost of goods approximate to the transportation cost.

Suppliers

- Large suppliers agree to let the government choose FOB Origin without penalty special processing charges.
- Small suppliers embrace a Federal Inbound Transportation Program as a means to level the playing field.
- Transportation suppliers and industry groups do not obstruct a Federal Inbound Transportation Program with concerns about competition and small business participation.



Success Factors

- Federal policy and execution
 - Change or waive the "inspection upon receipt" requirement.
 - Determine how to repurpose procurement funds to be used for transportation of procured items.
 - Require suppliers to provide invoices that detail the cost of the goods versus the cost of transportation and delivery.
 - Provide forecasting and planning guidelines and tools for agencies to use with major commodities
 - Will not only allow for better transportation planning but may result in lower cost of goods if suppliers can plan production/distribution
 - Extensive supply chain and transportation change management and training on the impacts of forecasting, planning, and coordinated transportation management on overall costs to the government



Conclusions

Either GSA or 3PL option have the potential for savings

| | | 10-Year Cumulative Net Savings | | | Net Savings |
|----------|-----|--------------------------------|-------------|---------------|-------------|
| | | Target (40%) High (50%) | | | High (50%) |
| Scenario | | Participation | | Participation | |
| 3 | GSA | \$ | 155,413,426 | \$ | 265,756,734 |
| 4 | 3PL | \$ | 144,868,487 | \$ | 302,302,614 |

- 3PL performs better at higher participation levels because 3PL management fees usually decrease per transaction as the transaction level increases
 - Small volume = up to 10% management fee
 - High volume = as low as 3% management fee
- There is risk in pursuing an effort to manage inbound transportation given the lack of data and the sizeable number of success factors needed to realize savings.
- Consideration should be given to the required change management efforts, policy and process changes, agencies' commitment to participate and the ROI based on savings estimates.

