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Cost-Benefit Analysis of Bid Protests: A Representative Bidder Model

"If those affected by the breach of rules cannot protest ... rules have no teeth, and competition is stifled. Without the constraints of bid protests, government contracts will be let based on favoritism ... and bribery—as they were before the system was initiated."

(Weckstein & Love, 1995)

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Abstract

Most countries allow disappointed bidders¹ to protest public procurements. The dual goal is to reduce *favoritism*, reduce *fraud and errors*, and increase *competition*. The legal literature that underpins protest systems for the U.S. Federal Government and European Union generally reflects these two goals. The hypothesis is that allowing disappointed bidders to protest public procurements serves as a decentralized oversight mechanism that increases transparency and accountability, which encourages vendor participation. This study offers a cautionary tale for any government agency, country, or international institution that relies on, and/or promotes, bid protests to improve public procurement outcomes. The goal is to explore costs and benefits of bid protests for governments and taxpayers. As a first step, a probabilistic, micro-economic, partial equilibrium, representative bidder model is developed to help evaluate protest systems. The model reveals multiple unintended

¹ Other terms besides *disappointed bidder* found in the literature include disappointed offeror, unsuccessful offeror, excluded offeror, and interested party. For the purposes of this study, these terms are used interchangeably and refer to a company that has standing, or is allowed to protest the solicitation or award of a contract. "Interested party ... means an actual or prospective offeror whose direct economic interest would be affected by the award of a government contract" (FAR 33.101, Definitions).



consequences of protest systems and suggests alternative approaches to improve public procurement outcomes.²

Introduction

Two key claims appear in the legal literature in support of bid protests. First, protests play an important role as a decentralized oversight mechanism to ensure "fairness" of the procurement process. The claim is that allowing vendors to protest public procurements reduces the risk of "crony capitalism," and helps deter favoritism, fraud, and errors. Military procurement offers an important illustration.³

The second claim is that allowing losing bidders to protest makes vendors more willing to compete,⁴ that is, delivering benefits of competitive markets to improve performance, costs, and schedules (Arrowsmith et al., 2000). Experience from major defense acquisitions tends to undermine both claims: that protests deter favoritism, and that they increase competition.

According to the U.S. Federal Acquisition Regulations (FAR), a protest is defined as

a written objection by an interested party to any of the following: (1) A solicitation ... by an agency ... for a contract for the procurement of property or services, (2) The cancellation of the solicitation ... (3) *An award ... of the contract* [emphasis added], or (4) A termination or cancellation of an award of the contract. (FAR, 2005, 33.101; see also U.S.C. 31 § 3551[1])

The relative frequency of protests over these four categories reveals the majority involve (3) "An award ... of the contract," which is the primary focus of this paper. According to the Congressional Research Service, since 2008 the annual rate of protests of government procurements has increased by nearly 50% (CRS). In 2014 alone, the Government Accountability Office (GAO) received over 2,500 protests.⁵

⁵ A key pillar of the U.S. Federal Government's protest process, the Competition in Contracting Act (CICA of 1984, Title 31 of the U.S. Code, §§ 3551–3556) claims bid protests improve procurement outcomes by reducing risks of fraud and errors, and increasing competition. The CICA gives the GAO authority over bid protests as a less expensive alternative to judicial proceedings. Congress directed "to the maximum extent practicable, the Comptroller General (at GAO) shall provide for the inexpensive and expeditious resolution of protests" (31 U.S.C. § 3554(a)). Since the majority of protests are filed with the GAO, that is the primary focus of this study. (Note: From FY2003–2007, nearly 7,000 cases were filed with the GAO, and only 328 with the Court of Federal Claims; see Schaengold, Guiffré, & Gill, 2009, p. 255.)



² Whereas the most common term, and the term used in this study, is *bid protest*, the United Nations Commission on International Trade Law (UNCITRAL) refers to reviews, while the World Trade Organization's (WTO's) *Agreement on Government* Procurement uses the term challenges (see Gordon, 2006).

³ (Fraction of Military Contracts/Total Government Contracts in U.S. & EU? Protest data in both?)
⁴ "Fundamentally, bid protest systems, like audit systems, serve a procurement oversight function. They provide a means of monitoring the activities of government procurement officials, enforcing compliance with procurement laws and regulations, and correcting incidents of improper government action. ... Enforcing compliance with procurement laws implicates not just high standards of integrity, but also ... the maximization of competition." (Troff, 2005, pp. 118, 120)

Although bid protests are relatively rare in low-cost procurements, vendor selection decisions in major (high-dollar) defense purchases appear to be routinely and strategically protested. As former head of the Office of Federal Procurement Policy, Dan Gordon, observed.

It is ... true that very high-dollar procurements are much more likely to be protested: the higher the dollar value, the greater the likelihood of a protest. ... For a company that loses the competition ... with all the bid and proposal costs ["bidding costs"] ..., the additional cost of filing a protest ["filing costs"] may seem minimal, so that filing a protest can be very tempting. (Clark, 2013)

The model introduced in this paper focuses on a representative bidder competing for a government contract. The bidder is assumed to be a strategic, profit-maximizing firm responsible to shareholders. Under this assumption, it is demonstrated that well-intentioned protest systems can inadvertently motivate inefficient (and potentially fraudulent) behavior on the part of bidders and public procurement officials, and may or may not increase competition. Some preliminary observations appear below.

Do Protests Minimize Fraud and Errors?

Strategic bidders can use the threat of protests to extract concessions from well-intentioned procurement officials unwilling to risk shortages of critical equipment, services, or supplies ("Fedmail"). Meanwhile, risk-averse procurement officials may have incentives to pre-emptively offer concessions to bidders, to ensure protest-proof procurements that avoid delays in acquiring critical equipment, services, and supplies ("Buy-offs"). For example, Reuters news service recently reported, "Lockheed Martin (LMT) is getting offered a multiyear block buy for its F-35 aircraft in exchange for not objecting to its rival Boeing (BA) getting new orders from the Navy for the F/A-18 fighter" (Reuters, 2016).

Especially troublesome is a measure of successful protests developed and routinely reported by the Government Accountability Office (GAO), misleadingly called the *effectiveness rate*. This measure captures "the percentage of protesters obtaining relief—either through a protest being sustained, or through *voluntary action* [*emphasis added*] taken by the agency" (Kepplinger, 2008).

⁸ A survey by the American Bar Association (1989) found that half of all federal agencies had settled protests to "simply move forward with the procurement ... POs [procurement officials] often settle by enhancing the terms of other contracts that the protester currently has with the procuring agency" (Marshall et al., 1994, p. 300).



⁶ (GAO data reference; Aerial Tanker, Air Force Bomber examples; etc.)

The Congressional Research Service (CRS) reports, "Many ... acquisition professionals are concerned that bid protests can delay contract awards ... costing millions of dollars [and] preventing government from getting the goods and services it needs when it needs them" (Schwartz & Manuel, 2009, p. 8). Government's incentive to avoid the risk of significant transaction costs from bid protests is revealed in an August 2007 memo by then Acting Under Secretary of Defense for Acquisition, Technology, & Logistics John Young, who stated, "Protests are extremely detrimental to the warfighter and the taxpayer. These protest actions consume vast amounts of time of acquisition, legal, and requirements team members; [and] delay program initiation and the delivery of capability" (Schwartz & Manuel, 2009, p. 8).

The Congressional Research Service (CRS) is on record stating, "The *effectiveness* rate may be a good way to measure the number of protests that have actual or potential merit" (Schwartz & Manuel, 2009, p. 5). At first glance, it might appear a greater effectiveness rate reflects positively on the dual goals of a protest system. Unfortunately, this is not necessarily the case. So-called "voluntary actions" can also involve inefficient and potentially fraudulent "Fed-mail" or "Buy-off" settlements. Increases in the "effectiveness rate" could inadvertently reflect government agencies over-generously engaged in Fed-Mail or Buy-off settlements with taxpayer dollars to keep procurements on schedule, minimize delays, or simply avoid negative publicity.

If so, then this clearly contradicts the conclusion drawn by the CRS that the effectiveness rate reflects protests that have merit. The risk of Fed-mail and Buy-off settlements warrants serious rethinking by the GAO, CRS, and others of the protest *effectiveness rate*. It also cautions departments, agencies, and Congress against implementing any analysis or recommendations that utilize this measure.

Do Protests Increase Competition?

A guiding principle of the Competition in Contracting Act and the Federal Acquisition Regulations (FAR) is to promote competition for government contracts. The implicit assumption woven through these documents, and in the legal and regulatory literature, is that the "second-chance" offered by bid protests to address fraud or errors in the procurement process makes prospective *losing* bidder types *more* inclined to participate (thereby increasing competition).

But this ignores prospective *winning* bidder types! The risk they face is that a winning bid will be delayed and disputed, increasing transaction costs, which reduces expected values of winning a government contract. On the margin, this makes prospective winning bidder types *less* inclined to participate (thereby reducing competition). This observation yields the counterintuitive result that reducing protests could actually increase competition (i.e., if reducing the risk of disputes motivates more winning bidder types to participate than losing bidder types drop out). In contradiction to the existing literature, it is therefore an empirical question whether or not a protest system increases the number of suppliers willing to participate.

Unfortunately, even if (on net) a bid protest system succeeds in attracting more vendors, insights from "Transaction Cost Economics" remind us ex-ante competition often leads to ex-post monopoly (Williamson). The risk is that a winning "foot-in-the-door" bidding strategy results in a "hold-up," where the winning bidder more than covers its losses from high prices for change orders, etc. (see Melese et al., 2007). Therefore, attracting more vendors ex-ante does not guarantee better ex-post public procurement outcomes. Similarly, regardless of how slight the probability a protest will be sustained, a losing incumbent on a



re-competed contract has a strong incentive to strategically protest to artificially extend the contract.9

To achieve desirable competitive market outcomes, instead of bid protests, the "contestable markets" literature (Baumol, Panzar, & Willig, 1982, etc.) urges lowering entry barriers as a more cost-effective strategy—for example, by reducing military specifications; excessive rules and regulations; complexity (e.g., "bundling"); unique government accounting/reporting and other regulatory requirements; the degree of asset specificity; or the ability of incumbents to raise entry barriers through strategic bid protests.

What Interventions and Alternatives Exist to Achieve the Goals of a Protest System?

If profit-maximizing strategic bidders can undermine government's goals of a bid protest system, then it pays to investigate ways to modify bidder behavior, and to explore alternatives, that is, more cost-effective governance mechanisms. Risks posed by significant transaction costs and unintended consequences from bid protests should encourage public officials to review costs and benefits of their protest system, and seek alternatives. The model developed in this paper offers a starting point.

The comparative statics results of the model reveal how several key government decision variables could impact a profit-maximizing representative bidder. Recognizing costs as well as benefits of a protest system, this study invites a review of alternative portfolios of governance mechanisms to improve procurement outcomes that could substitute for, or complement, bid protests (e.g., internal audits, external audits, independent investigations, alternative dispute resolution, integrity pacts, and other incentive mechanisms). Results of the model suggest there may be significant returns from another critical investment that impact the protest system—education, training, motivation (incentive alignment), and retention of experienced public procurement officials.

If it is determined the burden of protests outweighs the benefits, then reducing the rate of protests is appropriate, and can be accomplished in two ways: by *reducing expected benefits* of a protest to a "disappointed bidder" (including enabling the protester to achieve desired outcomes through other means), or by *increasing expected costs*. Options include the following: narrowing standing (eligibility), setting stricter time limits for filing and deciding protests, encouraging alternative dispute resolution (ADR), raising filing fees, setting fines for frivolous protests, instituting new rules or reputation assessments to restrict frequent or repeated protestors, or making losers pay as in the UK (see Appendix 1).

A major concern expressed in the legal and regulatory literature is that limiting protests will inhibit competition and result in higher costs. ¹⁰ However, the literature is mostly silent regarding the *strategic* behavior of bidders and procurement officials. It also ignores potential benefits of more timely delivery of projects, products, and services, and lower

¹⁰ "Attempts to disincentivize protests ... may have, on balance, the unintended consequence of harming the federal procurement system by discouraging participation in federal contracting and, in turn, limiting competition" (Kepplinger, 2009, p. 12).



Ρ

⁹ "Federal statutes and regulations ... [require] GAO to ... [resolve] protests within 65 to 100 days after they are filed." "[Automatic] stays triggered by GAO protests [can] encourage contractors to 'game the system ... [where] contractors knowingly file ... protests with GAO in order to harass their competitors and delay awards ... or in the hopes of obtaining short-term contracts ... during the pendency of the GAO protest" (Manuel & Schwartz, 2016, pp. 7, 11).

10 "Attempts to disincentivize protests ... may have, on balance, the unintended consequence of

transaction costs, and potentially lower prices, from fewer protests. Finally, the legal and regulatory literature mostly neglects how the growing burden and complexity of regulations to address past procurement problems complicates the task of procurement officials. The more complex the regulatory environment, the more likely errors are made in the procurement process, raising the probability of bid protests and the probability those protests are sustained, which in turn increases risks of Fed-mail and Buy-off settlements.¹¹

The next section leverages these observations to develop a probabilistic, microeconomic, partial equilibrium, representative bidder model. The following section summarizes and interprets results of the model. The concluding section offers policy recommendations and important avenues for future research.

The Model

The literature generally focuses on two players: a disappointed bidder and the government. In the United States, the "government" consists of several distinct players. Disappointed bidders have the option to challenge any of three key players: government procurement officials (POs) and their agency (department or activity); the quasi-judicial GAO; and the Court of Federal Claims (COFC). For simplicity, we restrict our representative bidder to a single protest (e.g., either with the agency, the GAO, or the COFC). ¹²

Other key stakeholders are often overlooked in the protest literature. Besides a "disappointed bidder," it is critical to consider other bidders (especially the "winning bidder," eager to defend the award); those that ultimately depend on procurement outcomes (e.g., our troops and/or citizens); and taxpayers who foot the bill. ¹³ The goal of this paper is to represent the best interests of the last two players, in the case of military contracts, troops and taxpayers. This section develops a probabilistic, micro-economic, partial equilibrium representative bidder model to help identify opportunities to enhance the efficiency and effectiveness of government procurements, in order to obtain the greatest (troop) value for (taxpayer) money. ¹⁴

Note GAO issues preliminary and final decisions on protests. Again for simplicity, the model assumes a single decision is taken by the Agency, GAO, or COFC.

¹⁴ "The federal procurement system was designed by Congress to leverage maximum public benefit from scarce taxpayer funds through three guiding principles: competition, integrity, and transparency. The aim of allowing bid protests is to "play an important role in ensuring integrity in the federal procurement system while ... enhancing transparency and accountability" (JAT, 2009, p. 1).



¹¹ In fact, Wong & Gerras (2015) conclude U.S. Army officers became comfortable lying about complying with regulations, partly as a result of the challenge of compliance with conflicting regulations.

¹³ Gordon (2006) focuses on four principal parties: the disappointed offeror who is denied a contract award or the potential offeror who is excluded from competition, the acquiring agency, the public at large and their elected representatives, and an intervening offeror or successful awardee. Each has a different objective in resolving the protest. The unsuccessful offeror seeks a forum to air complaints, to learn as much information as possible about the denial or exclusion of their offer, and, ultimately, to obtain some type of meaningful relief. The acquiring agency seeks to resolve the protest in a way that minimizes the impact on the efficiency and effectiveness of the acquisition process. The public seeks a resolution that promotes the integrity, transparency, and accountability of the acquisition system. The successful awardee (or intervening offeror) seeks a resolution that supports the original award (Gordon, 2006, p. 4).

¹⁴ "The federal procurement system was designed by Congress to leverage maximum public benefit

Assuming a representative bidder's goal is to maximize expected profits, the objective function for any bidder/offeror entering a competition for a government contract consists of three scenarios (or "states of nature"): (1) expected returns from winning the competition, E(W); (2) expected returns from winning a protest given they lose the competition (i.e., protest is "sustained," E(W/L); and (3) expected returns from losing the competition and losing the protest (i.e., protest is not sustained, E(L/L).

Our representative bidder's problem is illustrated in Figure 1. The probability the bidder wins the competition is Pw, and the probability a protest is sustained is Ps. ¹⁵ Expected payoffs at the end of each branch (E[W]; E[W/L]; E[L/L]) are explained in detail below.

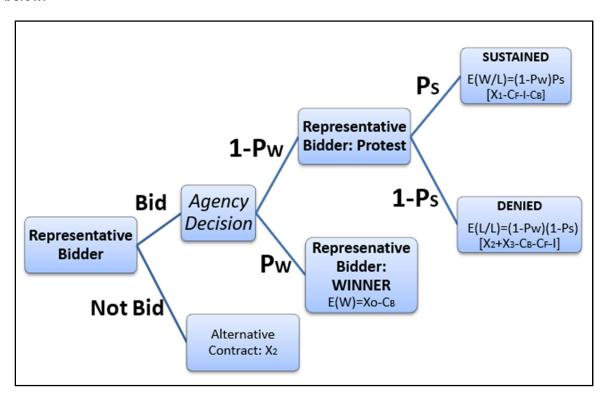


Figure 1. Representative Bidder Decision Problem

The two key decision variables controlled by our representative bidder are the bid price, P≥0, for the contracted quantity, Q≥0; and the investment, l≥0, to sustain a protest in the event the bidder loses the competition. The bidder's problem is to select an optimal combination of bid price and protest investment (P*, I*) to maximize overall expected profits:

Max
$$V(P,I) = E(W) + E(W/L) + E(L/L)$$
. (1)

¹⁵ Note the sum of the probabilities of the three possible states of nature (winning the competition E[W]; losing but winning the protest E[L/W]; losing and losing the protest E[L/L]) are mutually exclusive and collectively exhaustive, and therefore must sum to one: i.e., $P_w+(1-P_w)[P_s+(1-P_s)]=1$.



The first term is the expected return from winning the competition given by

$$E(W) = P_W(X_0 - C_B). \tag{2}$$

Profits from a winning bid are: $X_0 = PQ - C(Q,R)$, where C(Q,R) is the winning bidder's cost function, and R represents regulatory complexity, such that $\delta C/\delta Q > 0$, and $\delta C/\delta R > 0$, that is, a more complex and burdensome regulatory environment raises production costs.

To allow the possibility other bidders might protest a winning bid, we introduce the possibility of "split buys" (see Coughlan & Gates, 2012). The contracted quantity is therefore given by $Q=Q(I_0)$, where $I_0\geq 0$ represents cumulative protest investments of other losing bidders, such that $\delta Q/\delta I_0<0$, that is, the greater the cumulative protest investment, the smaller the quantity allocated to a winning bidder.

To simplify the model, bid and proposal costs, C_B, act as a proxy for quality of the project, product, or service, and capture any other non-price variables of interest to the government. We assume these costs are directly related to the measure of effectiveness (MOE) of the bidder's proposal (i.e., not including price).

Therefore, higher bid and proposal costs, C_B , incurred by our bidder (ceteris paribus), increase the probability they win the competition, given by $P_W=P_W(P,N,C_B)$, such that $\delta P_W/\delta C_B>0$ and $\delta^2 P_W/(\delta C_B)^2<0$. Conversely, the higher the price bid, P, and the more bidders, $N\geq 2$, the lower the probability of winning, such that $\delta P_W/\delta N<0$ and $\delta P_W/\delta P<0$, ¹⁶ where $\delta^2 P_W/(\delta P)^2<0$, $\delta^2 P_W/\delta P\delta N\leq 0$, and $\delta^2 P_W/\delta P\delta C_B\geq 0$.¹⁷

The second term in Equation 1 represents expected returns from losing the competition, but winning the protest (i.e., protest is "sustained"):

$$E(W/L) = (1-P_W)P_S[X_1-C_F-I-C_B],$$
 (3)

where (1- P_W) is the probability of losing the competition; C_F , are exogenous government-set filing fees, and for simplicity, $X_1 \le X_0$ is the award or "prize" in the event the protest is sustained.

The probability a protest is sustained is given by $P_s=P_s(P,I,N,T,I_0,R,C_B)$. The higher the bid price, P>0, the lower the probability a protest is sustained, such that $\delta P_s/\delta P<0$,

¹⁷ The greater the number of bidders, N, then for any given bid price, P, the lower the probability of winning, P_W. Conversely, the greater a representative bidder's investment in the quality of their proposal reflected in bid and proposal costs, C_B, then for any given bid, P, the greater the probability of winning, P_W.



¹⁶ We further assume the absolute value of the elasticity of the probability of winning the competition with respect to the bid price is less than one, that is, the elasticity is the %reduction in P_w for a given %increase in P_v or $|(\delta P_w/\delta P)(P/P_w)|<1$

where $\delta^2 P_s/(\delta P)^2 < 0.^{18}$ However, the greater the representative bidder's investment in the protest process, I>0, the greater the likelihood a protest is sustained, such that $\delta P_s/\delta I > 0$, where $\delta^2 P_s/(\delta I)^2 < 0$, that is, bidder protest investments increase the probability a protest will be sustained, but at a decreasing rate, and $\delta^2 P_s/\delta P \delta I \le 0$ (the larger the protest investment, the smaller the impact of a high bid price on the probability the protest is sustained). Also, for any given protest investment, the greater the quality of the proposal (reflected in higher bid and proposal costs, C_B), the greater the probability the protest is sustained, or $\delta^2 P_s/\delta I \delta C_B > 0$.

The proxy variable, T, represents the training/education/experience of government procurement officials. The greater T, the lower the risk of errors in the acquisition process, and the better communication, documentation, contract specifications, quality of debriefings, and so forth. Thus the greater T, the less likely a protest will be sustained, or $\delta P_s/\delta T < 0$, where $\delta^2 P_s/\delta I \delta T < 0$, and $\delta^2 P_s/\delta P \delta T \le 0$.

The reverse is true for regulatory complexity, represented by the parameter, R. The more complex and burdensome the regulatory environment, not only does this increase production costs, but it leads to a greater risk of missteps and errors by procurement officials, which increases the probability a protest is sustained, or $\delta P_s/\delta R > 0$, where $\delta^2 P_s/\delta I \delta R > 0$ and $\delta^2 P_s/\delta P \delta R \ge 0$.

Since bid and proposal costs are a proxy for quality, the greater C_B , the greater the probability a protest is sustained, $\delta P_s / \delta C_B > 0$, where $\delta^2 P_s / \delta C_B)^2 < 0$, $\delta^2 P_s / \delta P \delta C_B \ge 0$, and $\delta^2 P_s / \delta I \delta C_B \ge 0$, that is, the greater a representative bidder's investment in their proposal, C_B , then for any given bid, P_s , or protest investment, P_s , the greater the probability a protest is sustained, P_s .

Data reported in Maser & Thompson (2010) suggests increasing the number of bidders (ceteris paribus) increases the probability a protest is sustained, $\delta P_s/\delta N > 0$. However, the sign on $\delta^2 P_s/\delta I \delta N$ is an empirical question: positive (negative) depending if more bidders increases (decreases) the likelihood a representative bidder's protest is sustained, for any given protest investment.

Finally, it is also an empirical question whether greater cumulative protest investments by other bidders, I_o , raises or lowers the probability a given bidder's protest is sustained (i.e., $\delta P_s / \delta I_o =?$). It is also unclear if greater cumulative protest investment makes it more or less likely an individual bidder's protest will be sustained for any given bid price (i.e., $\delta^2 P_s / \delta P \delta I_o =?$), and more or less likely any individual bidder's protest is sustained for a given protest investment (i.e., $\delta^2 P_s / \delta I \delta I_o =?$).

 $^{^{18}}$ Note that it is likely the percentage difference in price relative to the low price bid, (P-P_L)/P_L, is more likely to influence the probability a bid is sustained, than the absolute price bid, P. This can be accommodated by constraining the functional form of the relationship given by $\delta P_s/\delta P{<}0$ and $\delta^2 Ps/(\delta P)^2{<}0$, so that the Price is bounded between the low price bid, P_L (where $P_s{=}1)$ and $P_{Max}{=}(1{+}X\%)P_L$ (where $P_s{=}0$), that is, where X reflects how far the price in percentage terms can reasonably be above the low bid before there is no chance a protest will be sustained. In this case, the comparative static results will be the same if we use either the bid price, or the percentage difference between the bid price and the low bid.



ACQUISITION RESEARCH PROGRAM: Creating synergy for informed change The final term in our representative bidder's profit Equation 1 is the expected return from losing the competition, and losing the protest:

$$E(L/L) = (1-P_w)(1-P_s)[X_2+X_3-C_{F}-I-C_{B}],$$
 (4)

where the variable, $X_2 < X_0$, represents the bidder's "opportunity cost," or value of the next best alternative project available if they lose the competition (or decide not to participate; see Figure 1). If a representative bidder's protest is denied, then the variable, X_3 , can represent two possibilities: $X_3 > 0$ represents compensation that might be offered a losing bidder (i.e., possibly reflecting "Fed Mail" or "Buy Offs," or perhaps valuable information obtained about competitors), while $X_3 < 0$ represents a penalty for losing the protest (e.g., "loser pays").

Maximizing the representative bidder's expected profits (given by (1), (2), (3), and (4)) to solve for the optimal bid price and protest investment (P*,I*) yields the following First Order Necessary Conditions for an Optimum:

$$V_1 = \delta V / \delta P = P_w Q + (\delta P_w / \delta P)[X_0 - (X_2 + X_3) - C_F - I] + (X_1 - X_2 - X_3)[(1 - P_w)(\delta P_s / \delta P) - Ps(\delta P_w / \delta P)] = 0;$$
 (5)

and

$$\mathbf{V_2} = \delta \mathbf{V} / \delta \mathbf{I} = (1 - P_w) [(\delta P_s / \delta I)(X_1 - X_2 - X_3) - 1] = 0.$$
 (6)

Conditions required to ensure the Second Order Sufficient Conditions are satisfied at the optimum (or that, $V_{11}V_{22}$ - V_{12}^2 >0), include the following: $\delta^2 P_s/(\delta I)^2$ <0; $\delta^2 P_s/(\delta P)^2$ ≤0; X_1 >(X_2 + X_3); and X_0 >[(P_sX_1 +(1- P_s)(X_2 + X_3))- C_F -I].

From the Implicit Function Theorem, the first order necessary, and second order sufficient, conditions for a maximum yield a set of comparative statics results for the two decision variables: the optimal bid price, P*, and protest investment, I*. Applying the Envelope Theorem¹⁹ further reveals the impact of changes in the exogenous variables on a representative bidder's expected profits, V*. A summary of the results appears in Table 1.

	X 1	X 2	X3>0 (X3<0)	N	lo	Св	CF	T (R)
P*	+?	+	+ (-)	-;	-;	+	1	- (+)
I *	+	-	- (+)	-;	-	+	0	- (+)
V*	+	+	+ (-)	?	-	?	-	- (?)

Note. "?" indicates: given certain conditions.

Results

To interpret the results in Table 1, we work our way from left to right across the top row, and discuss each model parameter in turn. The bigger the expected "prize" from a protest, X_1 , the greater the optimal bid price, P^* . When a protest offers a bigger prize/award, it is optimal to increase bids, taking a greater risk of losing the competition, because of the

¹⁹ From the Envelope Theorem (Silberberg, 1978, pp. 168-71), taking partial derivatives of the objective function with respect to any parameter, k, yields the change in the overall value function at the optimum, **V***, with respect to a change in k. Detailed calculations are available upon request.



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greater expected value from the "second chance" provided by a bid protest. Not surprisingly, a bigger protest prize also justifies a bigger investment, I*, to increase chances of winning the protest. Naturally, a bigger protest prize also boosts overall expected profits at the optimum, V*.

While a greater value of a representative bidder's next best alternative project, X_2 , justifies a higher bid price for the government contract, P^* (i.e., there is a lower opportunity cost to losing the competition), it also reduces the incentive to invest in a protest, I^* . Of course, an increase in the value of any alternative to the government contract increases overall expected profits, V^* .

Now consider the possibility of "Fed Mail" or "Buy Offs" so that losing a protest still offers a consolation prize, **X**₃>**0**. Then any increase in such benefits (presumably made by a government agency to reduce future disruptions from unhappy bidders), besides directly raising agency costs and indirectly other costs, involves a serious negative externality—an unintended consequence is higher optimal bid prices, P*, which increases overall government procurement costs. However, since a bigger consolation prize means the same expected value of a protest can now be achieved with a lower probability of winning the protest, this has the effect of lowering incentives to invest in bid protests, I*. Of course, a higher consolation prize increases overall expected profits, V*.

Instead of receiving a consolation prize for losing a protest, now suppose penalties apply, or that **X**₃<**0**. In this case, increasing penalties yields the opposite results: The optimal bid price, P*, will be lower to try to win the competition, since there is now greater risk in protesting. The greater risk of punishment from *losing* a protest also means it pays to invest *more in winning the protest*, I*. Finally, the added risk (expected cost) of a possible penalty reduces overall expected profits, V*.

The greater the number of bidders, N, the lower any individual competitor's optimal bid price, P* (a public benefit of increased competition), and protest investment, I* (if $\delta^2 Ps/\delta I\delta N<0$). It also lowers the expected overall profits of any individual bidder. V*.²⁰

Knowing there is an increase in protest expenditures by other bidders, I_0 , will reduce the optimal bid price of a representative bidder, P^* (if the absolute value of elasticity of P_w with respect to P is less than one), and the representative bidder's own protest investment, I^* . It also reduces the bidder's expected profits, V^* .

An increase in filing fees for a protest, C_F , lowers the optimal bid price, P^* , but has no impact on protest investment, I^* , since they are essentially "sunk costs." Of course, higher filing fees will lower overall expected profits, V^* .

²¹ Condition for P* holds if absolute value of impact of cumulative protest expenditures by other bidders, I_o , on a representative bidder's contract quantity ($\delta Q/\delta I_o < 0$) is small enough, or the probability the representative bidder's protest is sustained ($\delta P_s/\delta I_o < 0$) is big enough, and/or that (X_1 - X_2 - X_3) is big enough. Condition for I* holds since $\delta^2 P_s/\delta I\delta I_o < 0$.



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 $^{^{20}}$ Condition for P* is satisfied if $\delta^2 P_w/\delta P\delta N$ =0 (or small enough). Condition for I* is satisfied if $\delta^2 P_s/\delta I\delta N$ <0. Condition for V* is satisfied if positive impact of N on P_s ($\delta P_s/\delta N$ >0) is small enough, and/or if the absolute value of the impact of N on P_w ($\delta P_w/\delta N$ <0) is big enough. Higher bid costs increase the probability of winning the competition, but the extra costs lower profits from winning, requiring a higher price to "break even."

Conversely, since an increase in bid and proposal costs, C_B, reflects an increase in the quality (MOE) of the proposal, this increases the optimal bid price, P*, and the optimal protest investment, I*. 22 The impact on overall expected profits, V*, is indeterminate, that is, positive (negative) if benefits from increasing the probability of winning and sustaining a protest are bigger (smaller) than the higher investment costs of preparing the bid.

Paradoxically, adding well-intentioned rules and regulations that inadvertently increase regulatory complexity, R, can have perverse effects. It raises optimal bid prices, P*, increasing the costs of public projects, products, and services. Increased regulatory complexity also contributes to higher bid protest investments, I*, increasing transaction costs and possibly triggering other unintended consequences. The impact on overall expected profits, V*, is negative (positive) if added expected production costs from regulation, $P_w(\delta C/\delta R)$, are bigger (smaller) than the expected increase in profits from a protest, given the marginal increase in probability of winning a protest from greater errors, etc., resulting from increased regulatory complexity, $(1-P_w)(\delta P_s/\delta R)[X_1-(X_2+X_3)]$.

Finally, boosting government investments in education/training/experience of public procurement officials, T, has multiple payoffs. It lowers optimal bid prices, P*, cutting the costs of public projects, products and services. It also reduces the optimal amount invested in bid protests, I*, lowering transaction costs, and possibly limiting other unintended consequences. The impact of increasing the competency of procurement officials in reducing optimal prices bid, P*, and protest investments, I*, is reflected in lower overall expected profits for bidders. V*.23

Conclusion

The goal of a public procurement system is to obtain the best "value for money." To help achieve this goal, countries around the world have adopted bid protest systems. The legal and regulatory literature that underpins protest systems in the United States and European Union claim allowing disappointed bidders to protest public procurements reduces favoritism, fraud, and errors, and encourages competition. This study offers a cautionary tale for any government agency, country, or international institution that relies on, and/or promotes, bid protests to improve public procurement outcomes.

The paper explores costs and benefits of bid protests. As a first step, a probabilistic. micro-economic, partial equilibrium, representative bidder model is developed to evaluate protest systems. The bidder for a government contract is assumed to be a strategic, profitmaximizing firm responsible to shareholders. Under this assumption, it is demonstrated that well-intentioned protest systems can inadvertently motivate inefficient (and potentially fraudulent) behavior on the part of bidders and public procurement officials, and may or may not increase competition.

Risks posed by significant transaction costs and unintended consequences from bid protests should encourage public officials to review protest systems and consider alternatives. If the burden of protests outweighs the benefits, then reducing protests is appropriate and can be accomplished in two ways: reducing expected benefits of a protest



²² Condition on P* is satisfied if $\delta^2 P_w / \delta P \delta C_B \ge 0$, and $\delta^2 P_s / \delta P \delta C_B \ge 0$. Condition on I* is satisfied if
$$\begin{split} & \delta^2 P_w / \delta I \delta C_B {>} 0. \\ & ^{23} \text{ Condition on P* is satisfied since } \delta^2 P_s / \delta P \delta T {\leq} 0. \text{ Condition on I* is satisfied since } \delta^2 P_s / \delta I \delta T {<} 0. \end{split}$$

to a "disappointed bidder" (including enabling the protester to achieve desired outcomes through other means) or increasing expected costs.

The comparative statics results of the model reveal how several key government decision variables could impact a profit-maximizing representative bidder. Our bidder controls the bid price, P^* , and any investment they make to sustain a protest, I^* . The government controls the variables: X_1 , X_3 , C_F , T, and R. Reducing the protest prize (X_1) and unnecessary regulatory burdens (R), and increasing investments in human capital (R), all reduce expected benefits of a protest. Alternatively, governments can raise expected costs by increasing filing fees (R) and/or introducing penalties for losing a protest (R).

Reducing the protest award, (X_1) , can be accomplished by (i) unbundling the contract vertically, in terms of different stages of production, or horizontally, in terms of quantities; (ii) sharing the award (split buys); or (iii) keeping records of protests by firms and using this information in future competitions (i.e., using a company's reputation to establish contract quantities).

Constructive ways of reducing the probability of a successful protest include (i) investing in training and experience, (ii) initiatives to build integrity (e.g., codes of conduct, ethics training, etc.), (iii) aligning incentives for procurement officials to improve procurement outcomes, such as linking pay and promotions to successful procurement outcomes, (iv) ensuring transparency of assessment criteria, (v) ensuring the transparency and accountability of the evaluation and selection process, (vi) making companies aware of the low probability of awards being overturned, and (vii) substituting protests for alternatives such as random (internal and external) audits and investigations, encouraging alternative dispute resolution (ADR), etc. Alternatively, the probability of successful protests would drop if the GAO narrowed standing (i.e., eligibility) or raised the threshold required for a protest to have merit.

An important avenue for future research is to review alternative portfolios of governance mechanisms to improve procurement outcomes that could substitute for, or complement, bid protests. This study offers a starting point.

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Appendix

Note that in the United States, restricting the number of protests may be unconstitutional on First and Fifth Amendment grounds. To limit the number of non-frivolous protests would violate the First Amendment right to petition the government for the redress of grievances, and the Fifth Amendment right to due process. Federal courts tend not to favor broad limitations on access to the legal process. For example, the Supreme Court held in *Bill Johnson's Restaurants, Inc. v. National Labor Relations Board* (461 U.S. 731 [1983]), that a Federal agency cannot halt lawsuits brought even for improper motives unless those lawsuits are based on "intentional falsehoods or on knowingly frivolous claims," or otherwise lack a reasonable basis. In another case, *California Motor Transport Co. v. Trucking Unlimited* (404 U.S. 508 [1972]), the Supreme Court held that Federal antitrust laws may penalize businesses bringing lawsuits and petitions to Federal agencies only if such petitions and lawsuits are "a mere sham to cover what is actually nothing more than an attempt to interfere directly with a business relationship of a competitor." Federal appellate courts also identified two limited ways which can render a legal action frivolous:

First, a legal action is considered "frivolous as filed" when a plaintiff or appellant grounds its case on arguments or issues "that are beyond the reasonable contemplation of fair-minded people, and no basis for [the party's position] in law or fact can be or is even arguably shown." ... Second, a legal action is considered "frivolous as argued" when a plaintiff or appellant has not dealt fairly with the court, has significantly misrepresented the law or facts, or has abused the judicial process by repeatedly litigating the same issue in the same court. (GAO, 2009, p. 11)

However, options include agency policies requiring mandatory consideration of stay overrides, requiring vigorous objections, setting stricter time limits for deciding or resolving protests, mandating alternative dispute resolution (ADR) as the default resolution mechanism, or other approaches such as replicating sanctions for frivolous protests available at the Court of Federal Claims in GAO protests, or instituting rules such as the posting of bonds for the expenses of delays resulting from stays of protests that are ultimately not sustained. In addition, the standard of review at the GAO may be adjusted from the more relaxed and subjective "reasonableness" standard to the "arbitrary, capricious, abuse of discretion, or otherwise not in accordance with law" standard used by the COFC under the Administrative Procedures Act (Choice of Forum for Federal Government Contracts Bid Protests, at 298, 2009). Further, agencies can be encouraged not to allow post-award bid protests challenging the evaluation and the conduct of source selection to result as a matter of course in pre-award corrective actions, such as total cancellation of solicitation and full re-competition. (The Competition in Contracting Act [CICA of 1984, Title 31 of the U.S. Code, §§ 3551–3556]) is a key pillar of the U.S. protest process, together with the Federal Acquisition Regulation [FAR Parts 5, 10, 12-15, and 33], the Tucker Act, Title 28, Section 1491 of the U.S. Code, Executive Order No. 12979, Agency Procurement Protests, and various case law precedents. Legal insights provided by former NPS colleague, Max Kidalov, in Melese et al., 2010.)





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