

Individual Demand for Building State Effectiveness

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Abstract

Investments in public sector workers' human capital can generate social returns by improving service delivery and state effectiveness. Yet it is unclear whether public workers internalise these broader benefits when making investment decisions. We elicit willingness-to-pay (WTP) for professional development from Ethiopian public servants and embed randomised interventions targeting anticipated benefits. Baseline WTP is positive but below implementation costs. Explicitly emphasising private benefits modestly raises demand compared to highlighting societal returns. Implicitly increasing the salience of a supportive managerial environment substantially increases WTP, underscoring the role of perceived organisational norms in public service investment decisions.

Keywords: human capital investment, public sector workers, narrative interventions

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1 Introduction

A longstanding question in economics concerns who should bear the cost of investments in human capital [Becker, 1964]. Much of the literature has focused on settings where the benefits of human capital investments accrue to either the worker or firm [see, e.g., Acemoglu and Pischke, 1999; Leuven, 2005; Maffioli, McKenzie and Ubfal, 2023; Cefala et al., 2024; Abebe et al., 2025]. However, investment decisions with wider social benefits – common in the public sector – have received limited attention. It remains unclear whether public sector workers internalise these broader benefits, what drives their investment decisions, or how much they are willing to pay for such investments. Yet understanding these choices is key to strengthening state capability and informing our broader understanding of human capital investments.

This paper provides the first experimental evidence on how public workers choose to invest in their own capacity, highlighting the role of individual motivations and organisational context in shaping these decisions. We exploit two features central to public sector settings and to economic models of human capital investment. First, we test whether workers’ investment choices reflect other-regarding preferences [Bénabou and Tirole, 2003; Ashraf, Bandiera and Jack, 2014], through an audio-based intervention that emphasises either private or pro-social returns to professional development. Second, we examine how demand for training responds to managerial practices typical of hierarchical organisations. We designed a video-based intervention varying perceptions of hierarchy by depicting senior managers who either grant autonomy or emphasise close monitoring [Aghion and Tirole, 1997].

We test these interventions in a field experiment with 500 mid-career public servants in Ethiopia, using an incentive-compatible Becker–DeGroot–Marshak (BDM) mechanism to elicit willingness-to-pay (WTP) for professional development. We interpret WTP as a revealed measure of underlying demand for investing in one’s own human capital—capturing not only monetary but also time, effort, and attention costs. As public officials often face tight resource constraints, WTP provides a common metric to quantify how motivational and organisational features shape investment behaviour, which we reassess in a follow-up survey one year after the intervention.

We find that baseline demand for professional development is modest. The median is 100 Ethiopian Birr (roughly the price of a packet of pens), and over 90% of participants are willing to pay a positive amount for at least one course. Variation in WTP reflects individual motivations: those with more socially oriented goals bid more across all training types. Using manually coded open-ended reflections, we interpret these motivations as relatively stable traits. In the follow-up survey, bids are consistently higher for training that enhances career

advancement, indicating that even socially motivated workers respond strongly to private returns when investing in human capital.

Exploring the drivers of demand with our experiments, we find that WTP depends not only on personal motivations or content, but also on the perceived organisational context for applying new skills. The audio-based narrative that explicitly emphasises career-related benefits increases WTP by 7 ETB ($p=0.064$) across all training types, relative to another audio-based narrative that emphasises pro-social benefits. We find suggestive (though imprecise) evidence that this effect is stronger for individuals with more individualistic motivations. Participants exposed to the enabling management style submitted bids almost one year later that were 87 ETB higher ($p=0.029$) than the control group, who were shown a placebo video about a training institution. By contrast, those exposed to the monitoring management style showed a positive but smaller effect – about one-third the enabling effect – that was not statistically significant, and with suggestive evidence for a difference between the two styles ($p=0.10$).¹

Investments in the human capital of public workers have important implications for state capacity and public service delivery. Competent public servants translate policy into action and manage the personnel and resources that determine government performance [Besley et al., 2022]. Professional development can improve public sector outcomes [Jakobsen, Jacobsen and Serritzlew, 2019; Fornasari et al., 2025; Mehmood, Naseer and Chen, 2024], complementing recruitment and incentive reforms [Dahis, Schiavon and Scot, 2025; Ashraf et al., 2020], particularly for long-tenured staff. Unlike in the private sector, where returns to skill accrue largely to the individual, public sector training can yield social returns through enhanced effectiveness and service quality.²

Our paper makes three contributions to the literature. First, we advance the personnel economics of the state [Finan, Olken and Pande, 2017; Rasul and Rogger, 2018] by providing the first experimental measure of public servants' demand for professional development. While prior work focuses on the impact of training [Mehmood, Naseer and Chen, 2024; Fornasari et al., 2025; Jakobsen, Jacobsen and Serritzlew, 2019; Seidle, Fernandez and Perry, 2016], we

¹We observe no treatment effect immediately after the intervention, potentially because the features highlighted in the video may have become salient once respondents returned to work. Impacts of narrative interventions that target social dynamics, such as the managerial environment at work, may activate later as social reinforcers trigger reflection. This is consistent with other studies that find that video-based behavioural interventions can have effects after a period of time, or that grow [e.g., Peterman, 2025; Bernard et al., 2023], in contrast to interventions that target knowledge [e.g., Orozco-Olvera, Shen and Cluver, 2019].

²Governments invest heavily in capacity building – over half of public employees worldwide report recent participation in training programmes [Schuster et al., 2023], and the World Bank alone spends roughly USD 720 million annually on such initiatives [Belman Inbal and Chin, 2008].

examine individuals' willingness to invest their own time and resources in capacity building – highlighting that, even if the state factors broader social returns into capacity-building decisions that increase state effectiveness, it is unclear to what extent workers themselves do so [Besley et al., 2022]. Our findings suggest that governments could target subsidies toward trainings that generate high organisational or social value but offer limited private returns, while relying more on cost-sharing for trainings with clear private career benefits.

Second, we provide new evidence on the drivers of human capital investments. We highlight the complementarity of intrinsic and extrinsic motivations as drivers of demand for professional development. A large literature has focused on private sector workers [Maffioli, McKenzie and Ubfal, 2023; Abebe et al., 2025; Cefala et al., 2024] who invest in training when labour markets enable them to capture productivity gains [Acemoglu and Pischke, 1998, 1999]. We study public sector workers, who often have intrinsic motivations, and face environments with tenure-based promotion, weak links between pay and performance, and externalities benefiting society that may not be fully internalised. While rule-based mandates can increase attendance at required professional development activities, our findings underscore that improvements in state capacity depend on the motivations that lead public servants to adopt and apply new practices [Grindle and Hilderbrand, 1995]. We highlight that a better understanding of what motivates officials to acquire and deploy new capabilities can be achieved by bridging the gap between formal rules and practice.

Third, we contribute to the organisational economics literature by showing that perceptions of the managerial environment within one's own organisation shape investment in professional development. While theory predicts that hierarchy and managerial autonomy influence learning and effort [Aghion and Tirole, 1997; Garicano, 2000; Dessein, 2002], there is little causal evidence on how these factors affect individual investment decisions. Building on theoretical work linking organisational context to specific human capital formation [Prendergast, 1993; Aghion and Tirole, 1997; Gailmard and Patty, 2007], we provide experimental evidence that exposure to different managerial styles – emphasising either autonomy or control – shifts demand for training. Our result is consistent with recent non-experimental findings [Diaz et al., 2025] and complements field experiments on incentives, training, and management practices [e.g. Bandiera, Barankay and Rasul, 2011; Bandiera et al., 2021; Ashraf et al., 2025; Fornasari et al., 2025] by using a low-cost behavioural intervention to change decisions in an organisation [cf. Banerjee, Ferrara and Orozco-Olvera, 2019; Khan, 2025; Bernard et al., 2023]. Our results show that workers' willingness to invest in their own capacity can be influenced by the perception of managerial practices in their home organisation, a finding that could be applicable to both private and public contexts.

This paper continues as follows. Section 2 introduces the study context, experimental design,

and data collection. The estimated baseline demand curves for professional development are presented in Section 3. Section 4 explores mechanisms driving demand using our experimental interventions. Section 5 concludes.

2 Estimating Demand for Capacity Building

2.1 Capacity Building in Ethiopia’s Public Service

Ethiopia’s large public sector makes it a valuable setting to better understand the functioning of public administration in low-income countries. It is Africa’s second most populous country, with 130 million people and a public service that employs half of paid workers [Baig et al., 2021]. The public sector wage premium is 12%, placing Ethiopia mid-range globally and suggesting typical patterns of selection into government jobs. While government effectiveness is relatively weak, Ethiopia is not an outlier, ranking 102nd out of 141 countries in the 10-year average Government Effectiveness index [Kaufmann and Kraay, 2023].

Capacity building is core to Ethiopia’s public sector and often takes the form of in-service training. A 2024 survey of Ethiopian public servants finds that 43% received training in the past year, primarily on public service laws and regulations (73%), administrative processes (32%), ethics (29%), and ministry-specific subjects (27%). This focus reflects the rationale of aligning staff on procedures to improve overall effectiveness. In-service training is viewed positively: 74% of officials rate it as highly relevant, and 92% report that it improves their productivity.³

Incentives to invest in capacity building may differ in distinctive and important ways between the public and private sectors. In the private sector, skill acquisition is commonly rewarded through performance-based promotions and wage gains. While similar mechanisms could operate in the public sector, recent work shows that public servants often face promotion systems driven more by tenure or political connections than by demonstrated ability [Deserranno, Kastrau and León-Ciliotta, 2025; Bertrand et al., 2020; Colonnelli, Prem and Teso, 2020], and that training tends to focus on system-wide improvements in service delivery rather than individual productivity. In such settings, public servants may have low willingness to invest in skills. In the 2024 survey, only half of respondents believed they would be promoted for strong performance, and formal qualifications were rated a far more important predictor of advancement than skill upgrading.

Yet even when private returns are limited, public servants may value capacity building more when they internalise its social benefits and operate in an environment where management practices support obtaining value from human capital investments. Intrinsic motivation, norms

³Details on this survey are in Appendix Section D.

of service, or other-regarding preferences, which public servants often self-select on [Ashraf et al., 2020], may lead some individuals to invest in capacity building with modest private returns. The balance between these private incentives and internalised social returns remains theoretically ambiguous. This ambiguity motivates our investigation into how public servants value training and whether willingness to invest can be influenced by emphasising private returns, social impact, or the broader institutional environment.

2.2 A Framed Field Experiment to Measure Demand

Our sample comprises Ethiopian public servants who are broadly representative of the national public sector. Participants were enrolled at Civil Service University (CSU) in Addis Ababa, with roughly half employed in a *woreda*-level government office.⁴ They are predominantly male, in their mid-thirties, have nearly a decade of public service experience, and were pursuing postgraduate degrees at CSU. Observable characteristics closely match a nationally representative 2016 survey of Ethiopian civil servants (Appendix Table A.3), suggesting that the sample is plausibly representative of the public administration, excluding street-level staff such as teachers and doctors.

We measure individual demand for professional development through a ‘framed’ field experiment [Harrison and List, 2004]. We adapt a Becker-DeGroot-Marshak (BDM) mechanism to our setting to elicit willingness-to-pay (WTP) for three common capacity-building activities – executive training, professional coaching, and work shadowing – building on recent applications of the method in similar contexts [e.g., Berry, Fischer and Guiteras, 2020; Cole et al., 2020; Burchardi et al., 2021; Maffioli, McKenzie and Ubfal, 2023]. First, participants stated their maximum WTP for each activity, in randomised order. If a participant reported a WTP of zero, we asked for the minimum they would require to participate. Second, each participant was assigned one activity (with probabilities: shadowing, 1/9; training, 1/3; coaching, 5/9), and a price, drawn from a mixed uniform distribution between -500 to 3,000 Birr (with 80% of prices below 1,500 Birr). Assignments and prices were pre-randomised but concealed from both participants and enumerators until bidding was complete. Third, if the drawn price for the selected activity fell below the participant’s bid, they purchased the activity at that price; otherwise they did not. Finally, participants wrote a short (150-character) reflection explaining their bidding rationale, which we coded as reflecting either self-regarding or pro-social motivation.

We took several steps to ensure participants understood the mechanism, and that responses reflected true valuations. First, we designed both the capacity-building activities and their presentation based on feedback from focus groups to ensure appeal. We presented the activities

⁴*Woredas* are administrative units comparable to US counties.

as delivered by the country’s leading management institute, in partnership with international organisations, and informed participants they would take place at a convenient time and location (two weeks later). Second, we pre-verified that participants could pay. Thirteen of the 513 sampled individuals were excluded for lacking a payment method, yielding a sample of 500. Third, participants completed a practice BDM round involving a benchmark item, a pen; 86% bid at or below market price, indicating strong comprehension of the mechanism. Finally, to maintain incentive compatibility, we emphasised that payment would occur on the same day, and nearly all participants who were required to pay did so (with only four exceptions). Appendix A provides further implementation details and fidelity checks; our pre-analysis plan contains the protocol.

2.3 Examining Motivations Through a Follow-up Survey

To better understand the motivations underlying demand for professional development, we conducted a follow-up phone survey about one year after the initial experiment, allowing participants to reflect on the intervention over a full annual cycle of public service. Appendix Figure A.1 shows the full study timeline. We successfully re-contacted 88% of the original sample (438 out of 500), with no evidence of differential attrition by age, gender, government tier, location, tenure, organisational experience, or income (Appendix Tables A.4 and A.5, Panel A). During the survey, participants were reminded of the original process, told their initial bids for the training activity, and informed about a potential new round of training. We then elicited their WTP for four versions of the training, each framed to highlight a different objective. Participants were told that their responses would help determine the focus of the future training, and that – although this was not a BDM elicitation – they would be expected to pay an amount at least as large as their bid if the training were to proceed, consistent with their earlier experience.⁵

The follow-up survey varied the framing of the training offered to identify how different types of perceived benefits change demand. The four framings, presented in random order, emphasised: (i) *Career* – skills to support the respondent’s own career advancement in the public or private sector; (ii) *Organisation* – skills specific to improve the productivity within the respondent’s organisation; (iii) *Civil Service* – skills to enhance coordination and performance across the public sector as a whole; and (iv) *Society* – skills to increase the respondent’s impact on citizens. These framings span motivational targets from personal benefit to broader social value.

⁵The phone-survey responses are not influenced by prior attendance at a professional development activity offered in the experiment: using the random price as an instrument, we find that attendance has only a small, not statistically significant effect on WTP in the phone survey (available upon request).

2.4 Narrative Interventions to Vary Perceived Returns

We implemented two narrative-based experimental interventions. Narrative interventions aim to shape beliefs and preferences by encouraging individuals to identify with characters and situations that feel personally or professionally relevant [Banerjee, La Ferrara and Orozco-Olvera, 2019; Berg and Zia, 2017]. Both interventions were designed to prime considerations that may influence workers' perceptions of the benefits of investing in training, either by explicitly varying motivation or by implicitly making more salient different features of their work environment. Appendix Tables A.4 and A.5 (Panel B) confirm balance in respondent characteristics, including income, across treatment groups.⁶

2.4.1 Explicit Narrative on Private versus Social Payoffs

In the follow-up survey, we conducted a simple narrative experiment that explicitly varied the motivations associated with capacity development. Respondents were randomly assigned to listen to a recorded message from the Civil Service Commission, which oversees public sector workers, that emphasised the benefits of training either in terms of career advancement or its impact on citizens. In the career-focused version, the message explained how professional development could enhance personal growth and progression across government and non-government roles. In the social-focused version, the same narrator emphasised the social returns to training, highlighting its potential to improve outcomes for the public.⁷ The messages were framed as official communications and introduced by the enumerator as coming from the Commission, represented by a former senior female public servant.

2.4.2 Implicit Narrative on the Managerial Environment

The second intervention sought to implicitly make salient a key feature of the organisational environment: how individuals are managed, which has been theoretically linked to behaviour in hierarchy [e.g., Aghion and Tirole, 1997; Dessein, 2002], including the development of bureaucratic expertise [Gailmard and Patty, 2007]. Before the initial exercise, participants individually watched one of three short fictional movies set in the Ethiopian public service, featuring the same cast and plot. Two videos subtly highlighted either an enabling or a monitoring managerial environment through specific scenes, involving interactions between a middle manager, their senior manager, and their team. These scenes were designed to trigger reflection on the participant's own professional setting, including how supported or constrained they feel by their superiors. Enabling managers support autonomy through trust and informal feedback; monitoring managers

⁶We achieved full compliance in delivering the treatments since they were brief (under 15 minutes) and integrated into our data collection.

⁷Appendix Section B provides the full scripts.

emphasise oversight and formal accountability.⁸ The third video introduced the history and services of the training institute, designed as a placebo with no reference to management practices.⁹

3 The Demand for Capacity Building

This section presents our baseline estimates of public sector workers' demand for capacity building. We first document how demand varies across training, coaching, and shadowing opportunities (Section 3.1) and explore individual characteristics and stated motivations that correlate with willingness-to-pay (Section 3.2). Next, using data from our follow-up phone survey, we examine how demand for training varies with the type of skills emphasised (Section 3.3).

3.1 Low but Mostly Positive Demand for Capacity Building

Our estimated demand for professional development is low – insufficient to cover the costs of provision – and economically similar across activities. Figure 1 shows the inverse demand curve resulting from the BDM exercise. The figure indicates the share of subjects that have a WTP less than p , for $p \in [-300, 700]$, across coaching, shadowing, and training. Median bids were modest: 100 Birr for training, 90 for shadowing, and 80 for coaching – equivalent to the value of 3-4 pens, and about 1% of median monthly income.¹⁰ Only 2% of participants were willing to pay more than 10% of their monthly income for any activity. Although the training was designed as a half-day course, a full day of training at the main public sector centre costs 1,000 ETB (17 USD). Demand for training was slightly higher than for coaching or shadowing, though all curves show similar patterns.¹¹

Despite substantial heterogeneity in demand, over 90% of bids were above zero, suggesting that a full subsidy may only be necessary for a small share of public sector workers. At the top of the distribution, the highest 10% of bids exceed 450 ETB – enough to cover at least half the training cost – and show relatively inelastic demand. These respondents are more experienced (10.7 vs. 8.9 years, $p=0.031$), earn higher monthly salaries (roughly 9,000 vs. 7,700 ETB, $p=0.040$), and are older (34 vs. 32.2 years, $p=0.029$) than the rest of the sample. At the other end, only 6% were

⁸The two styles depicted – enabling and monitoring – were identified through factor analysis of survey data from Ethiopia's public sector based on questions derived from the World Management Survey for bureaucracies. Moreover, these characterisations have been empirically linked to bureaucratic behaviour [e.g., Rasul and Rogger, 2018; Rasul, Rogger and Williams, 2021; Bandiera et al., 2021].

⁹The videos were developed for a separate experiment testing a multimedia campaign aimed at improving public sector management and performance [Dienes et al., 2024]. They were developed with local partners, an experienced local production company, and international advisers.

¹⁰The nominal exchange rate was 60 ETB = 1 USD, with bids equivalent to 1.40 USD, 1.60 USD and 1.80 USD respectively. At the time of the study, the market value of a pen was 29 Birr.

¹¹Differences between training and the other activities are statistically significant (Kolmogorov-Smirnov test $p=0.00$), but economically small – approximately the value of a pen. Correlations in individual bids across activities are moderate to high (0.65–0.7).

unwilling to pay anything, indicating full subsidies may be needed only for a small group of public sector workers. This group does not differ significantly in characteristics such as age, gender, wage, or government tier. A distinct kink in the demand curve at zero reflects a sharp drop in demand at even minimal costs, consistent with findings from other settings where socially beneficial goods face low demand at small positive prices [Cohen and Dupas, 2010; Mobarak et al., 2012].

3.2 Correlates of Demand and Qualitative Motivations

Low demand is unlikely to reflect perceptions of low quality of the activities, though ability to pay is a likely contributing factor. At least qualitatively, participants regarded the activities as high quality: attendance among purchasers was 80% (with no conditionality to attend for those that had “paid” a negative price), with all attendees expressing high interest for the certificates of completion, and providing positive feedback throughout. Income is the main observable characteristic associated with demand for professional development, while other characteristics associated with human capital investments do not exhibit a clear correlation (Appendix Figure A.2).

We leverage participants’ reflections to shed light on their motivations, finding that most public servants express self-regarding motives – which are, on average, linked to lower bids. Each participant wrote an open-ended reflection on what drove their bids for continuous professional development at the end of the first elicitation. Research assistants coded the reflections into two categories, highlighting either individual benefits (e.g., career concerns) or other-regarding benefits. Eighty percent framed training as primarily benefiting the individual. Respondents with more self-focused reflections had maximum bids that were 28 ETB lower (though not significant; $p=0.291$), and 34 ETB lower for training specifically ($p=0.238$).¹² Specific examples reveal participants’ thinking along these categories. Career concerns were highlighted in different ways. One respondent stated that training is “for promotion and other performance... to develop my career position” (respondent 1161), while another stated that “training improves my status, so I need it” (1430). Respondents saw training as helping them develop their skills, attitudes, or motivation for their careers. As one stated: “continuous professional development is crucial to enhance one’s career; one must update himself with knowledge and skills” (1088). Some respondents looked to the private sector, with one emphasising “training is important for working in any company in the future” (1484).¹³

Respondents also reflected on benefits to their team, the civil service, and society. Some emphasised the organisational benefits of training beyond their own individual skills – e.g., training

¹²This gap remains (30 and 34 ETB) with controls, including income; 11% of the sample did not report a reflection or could not be coded.

¹³Quotes have been edited. Originals are in the replication files.

develops “awareness to fill the gaps that happen during services delivery” (1238); that “training is not only needed for me, but for my team... with cooperative work” (1196); to “communicate wisely with other colleagues” (1395); and that they “share... what [they] get from training” (1136). Professional development was also seen to address organisational problems, such as a “lack of decision making... and problems managing resources” (1082), within organisations that “lack basic skills on how to share duties and responsibilities” (1157). Public sector-wide reflections included “fostering the performance of civil servants” (1246), aiming to “achieve institutions’ and government’s goal” (1410). A few cited broader societal benefits, such as “social change towards responsibility” (1322) or contributing to “the development plan of my country” (1256).

3.3 Higher Demand for Career-focused Trainings

Since training was the most in-demand capacity-building activity in the initial experiment, and building on the qualitative response, we use the follow-up phone survey to examine how respondents’ bids vary when they are offered new training on one of four types of skills: career generic skills, organisational-specific, civil service-wide, or those benefiting society at large. Appendix Figure A.3 plots the inverse demand curves for the different trainings, alongside the original curve from the incentive-compatible experiment. While emphasising the career benefits of the offered training increases the share of respondents reporting high WTP, about a quarter of follow-up respondents bid negative prices.¹⁴

Respondents value career-focused trainings most and those reporting other-regarding motivations bid higher for all training types. As shown in the top half of Figure 2, respondents are willing to pay 23–27 ETB more for trainings emphasising career benefits – nearly double the average – than for any other emphasis. There are no significant differences among the three public-service-oriented framings. The bottom of Figure 2 further splits these means by respondents’ stated motivations from the reflections, coded as either “individual” or “social”. Three patterns emerge. First, individuals with other-regarding motivations are willing to pay more for all trainings – including those emphasising career benefits. Second, across all groups, WTP declines as training emphasises skills that benefit a wider group of people; beyond the career-focused training, respondents value more trainings that build skills with more proximate social benefits (e.g., organisational) rather than more distant ones (e.g., society).¹⁵ Third, even

¹⁴These responses are based on ex-post direct survey bids, unlike the incentive-compatible elicitation in the original experiment, though framed ex-ante as real bids should the training go ahead. Recent evidence suggests that incentivised and hypothetical WTP distributions are broadly similar [Dizon-Ross and Jayachandran, 2022].

¹⁵We note that these patterns are consistent with different interpretations of “other-regarding preferences”. The first, that they have a lower valuation of benefits that are farther removed from them. The second that the benefits of training on social groups less proximate to the self are more ambiguous. Both imply that public servants are less likely to invest in public service capacity building for the benefit of less proximate social

the highest WTP – among individuals coded as socially-oriented for the training emphasising career-generic skills – falls short of covering training costs. Based on these bids training would not be privately funded without subsidies.

4 Experimental Evidence on Drivers of Demand

Having descriptively characterised demand for capacity-building, we next present evidence from two experiments that use narratives to vary the perceived benefits. The first *explicitly* framed training as either advancing careers or benefiting society, with treatment implemented during the phone-based follow-up. The second experiment that we present *implicitly* shifted perceived benefits by varying the organisational environment through videos portraying different managerial styles. The treatment was implemented during the initial elicitation at CSU. Our analysis follows pre-analysis plans registered before data collection ended; Appendix C details minor deviations and other pre-registered analyses. An additional variation tested for organisational spillovers by varying the (hypothetical) number of colleagues attending the training, but we find little evidence of such effects (see Appendix Section B.2.2).

4.1 Explicitly Highlighting Private Benefits Modestly Increases Demand

A narrative that explicitly highlights career benefits increases willingness-to-pay relative to one that emphasises societal impact. We estimate variations of the following regression:

$$Y_{post,i} = \alpha_2 Y_{pre,i} + \beta T_i + \mathbf{S}\delta_2 + \varepsilon_i \quad (1)$$

where $Y_{post,i}$ is the post-treatment WTP for a training with a specific emphasis, $Y_{pre,i}$ denotes the initial WTP elicited for the corresponding training emphasis, T_i is an indicator for the nature of the treatment (1=career emphasis, 0=citizen impact emphasis), and \mathbf{S} is a vector of fixed effects for training emphasis. Column 1 in Table 1 shows that priming public servants with a career-focused narrative increases WTP by 7 birr, relative to a social-impact narrative. Compared to the baseline median WTP of 100 birr, this suggests a modest but economically small effect. Compared to the other group mean of 20 Birr, this represents a 35% increase, though small relative to costs (1000 Birr). Column 2 tests whether the effect of the career-focused narrative is specific to the trainings that emphasised career-skills or reflects a general increase in demand. The small and not statistically significant interaction suggests that the narrative raises WTP regardless of emphasis.

We find suggestive evidence that the career-focused narrative has a larger effect among groups, but for distinct reasons.

respondents who expressed more individualistic motivations. Column 3 examines heterogeneity based on whether respondents’ open-ended reflections were coded as primarily individualistic or socially motivated (“social reflections”). Among those with individualistic motivations, the treatment effect remains positive and statistically significant. Among socially motivated respondents, the effect is smaller and not statistically significant, though imprecise estimates mean the evidence remains suggestive. Restricting to career-focused training yields similar results: no significant interaction of the treatment and socially-oriented individuals (Column 4).

4.2 Implicitly Highlighting an Enabling Organisational Environment Substantially Increases Demand

We next examine whether features of the organisational environment influence demand, by varying exposure to different managerial styles. As described in Section 2.4.2, respondents were randomly assigned to watch one of three video treatments prior to submitting their first bid. The videos presented a narrative of a public sector manager adopting either an enabling, supportive management style; a monitoring, directive approach; or a placebo without reference to management style. Because managers shape organisational incentives through their routine practices, making this aspect of the environment salient may influence public sector workers’ willingness to invest in their own skills, as they weigh how those skills will be recognised and rewarded within the organisation. To estimate the impact of the narrative intervention over time, we estimate variations of the following regression:

$$Y_{t,i} = \mathbf{T}_i \boldsymbol{\beta} + \mathbf{S} \boldsymbol{\delta}_1 + \varepsilon_i \quad \{t = CSU, pre, post\} \quad (2)$$

where $Y_{t,i}$ is the WTP for a training with a specific emphasis elicited at round t . $Y_{CSU,i}$ is the WTP elicited in the initial in-person bid, $Y_{pre,i}$ denotes the first bid elicited during the follow-up phone survey, and $Y_{post,i}$ is the post-phone treatment WTP. \mathbf{T}_i is an indicator vector for the nature of the video treatment (video with enabling manager, video with monitoring manager, and the placebo movie). \mathbf{S} is a vector of fixed effects for training emphasis, which is not included for the CSU-elicited WTP. An additional control for the audio-based narrative treatment is included for $Y_{post,i}$.¹⁶

While the implicit narrative had no immediate effect on bids in the initial elicitation, we find a substantial impact of the enabling manager narrative nearly one year later. Table 2 presents re-

¹⁶As robustness checks, we include controls such as income – which, though balanced across groups, significantly predicts bids (Appendix Table A.10). Following Dizon-Ross and Jayachandran [2022], we also control for a benchmark good (pen). Full disaggregated results in Appendix Table A.8 are also consistent.

sults across elicitation rounds: CSU baseline (Column 1), pre-treatment phone survey (Column 2), and post-treatment phone survey (Columns 3 and 4). The coefficients on “Manager Monitors Movie” and “Manager Enables Movie” capture the effect of each video relative to the control. We find no significant immediate effect during the initial elicitation in-person of either narrative. However, during the phone survey elicitation, exposure to the enabling manager narrative substantially raises WTP by approximately 90 ETB. This result suggests that framing management as enabling increases the perceived value of capacity-building. In contrast, the monitoring manager narrative has smaller and not statistically significant effect, compared to the placebo video.

We explore this effect further by presenting three additional pieces of suggestive evidence on potential channels through which the video-treatment may affect willingness-to-pay. Column 4 tests heterogeneity by respondent motivation, interacting treatments with a “social reflection” indicator. While statistical power is limited, there is suggestive evidence that socially motivated respondents respond less to these narratives, possibly due to their already higher baseline WTP. The lack of an immediate effect in the initial elicitation suggests that respondents continued to reflect on the video afterwards. They may draw on existing work experience, or embed capacity building in a new narrative of their management environment on returning to work. We find suggestive evidence that work experience amplifies the effect of the videos, and that the enabling video and other-regarding message predict higher WTP at lower years of experience (Appendix Figure A.5). The video treatments may operate through increasing the perceived promotion returns to capacity building, though we do not find evidence for this channel. Table A.11 finds no effect on the expected impact of training on promotion chances. Non-monetary motivators such as meaning in work, mission, or intrinsic motivation may lead the enabling video to increase WTP by reinforcing the idea that workers can apply their skills with more autonomy. Since the experiments were designed to test factors shaping demand, a fuller account of these pathways is left to future research.

Overall, aspects of the bureaucratic environment appear to influence investment in state capacity, with evidence that enabling management styles may increase willingness to engage in capacity development. A comparison with the explicit narrative effects in Table 1 suggests that the enabling manager narrative may have an impact an order of magnitude larger. This could indicate that organisational factors in public administration – such as managerial style – play a stronger role in shaping public servants’ WTP for training than explicitly varying perceived benefits. However, this comparison should be treated with caution, given the different modality (audio rather than video) and the absence of a control group in the first intervention. These findings are broadly consistent with literature connecting enabling management practices to

improved bureaucratic performance [Rasul and Rogger, 2018; Bandiera et al., 2021], as well as related results observed in private sector contexts [Diaz et al., 2025].

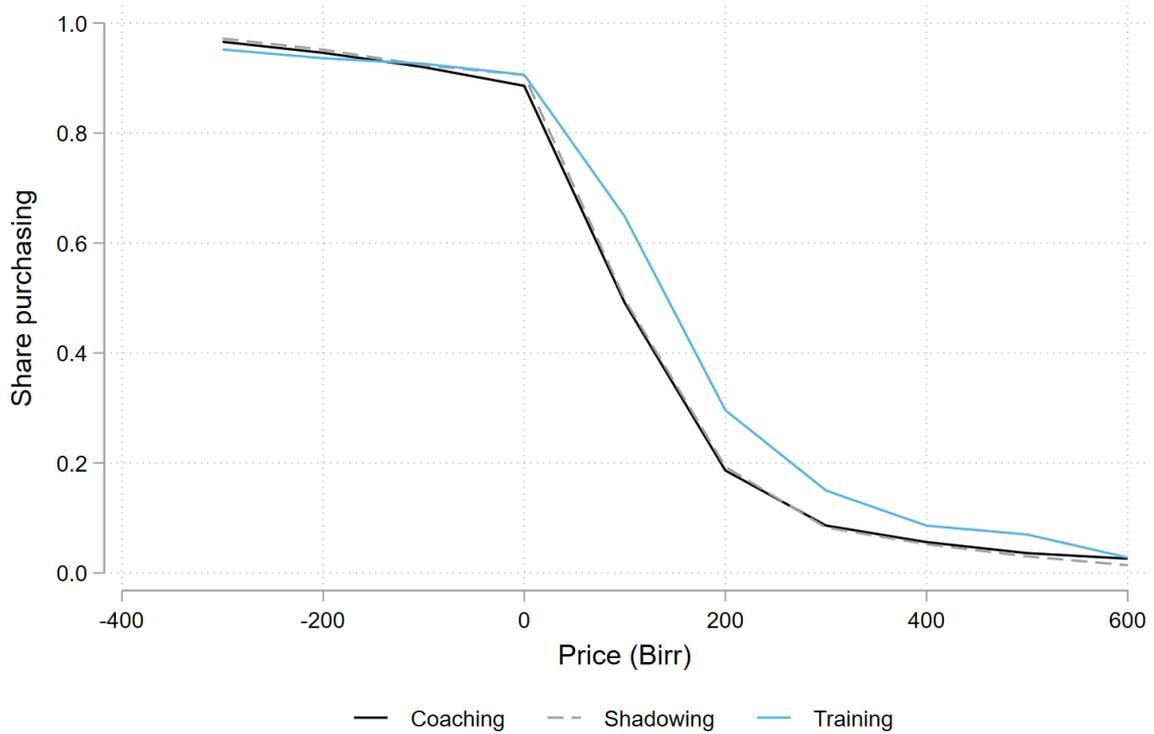
5 Conclusion

Building human capital within the public sector is central to strengthening state effectiveness, as institutional performance depends on the skills and motivation of individual workers. Governments may mandate trainings that are potentially valuable for the public sector mission. Yet without direct extrinsic or career progression benefits, such an approach may not maximise the willingness of public servants to engage with, absorb and apply professional development. This creates risks of institutional failures that could perpetuate low capacity.

This paper presents a field experiment among Ethiopian public servants that tests whether narratives highlighting different benefits of human capital accumulation influence workers' willingness to invest in their own capacity. We find modest willingness to pay for the professional development opportunities we offered. Career-oriented narratives increase willingness to pay somewhat more than those emphasising broader social returns, though there is suggestive evidence that other-oriented actors invest more to start with. Demand rises substantially, however, when a supportive managerial environment is made salient, underscoring the importance of organisational context in shaping individual investment decisions in the public sector.

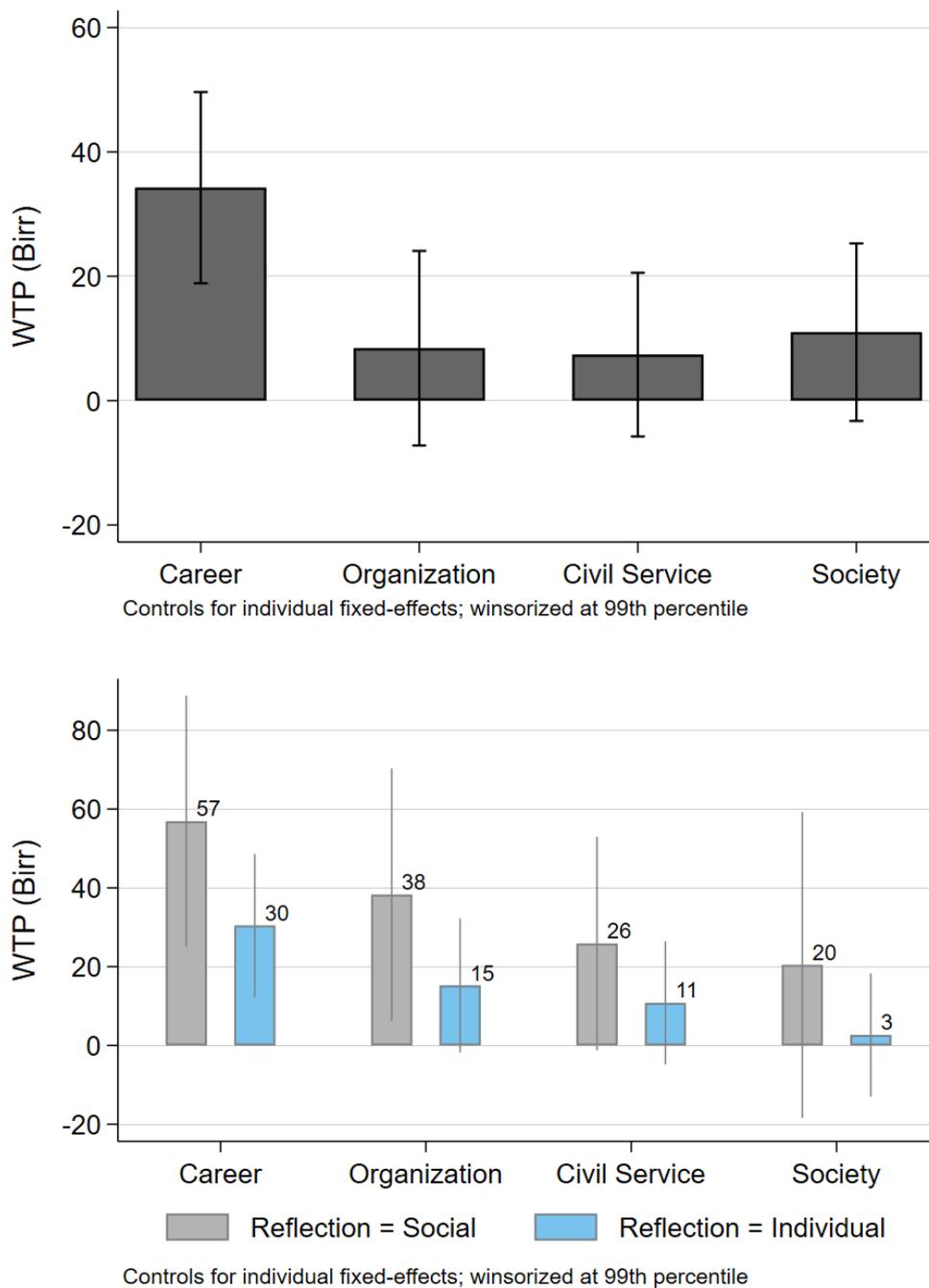
We leave several avenues for future research into the microfoundations of state effectiveness. Future work could examine how professional development that emphasise different goals – career, social, or institutional – affect downstream outcomes in learning and performance. Another promising direction involves studying how shifting perceptions of management within public institutions reshapes managerial behaviour and performance. Viewing management as more, or less, supportive may change norms and motivation, and ultimately service delivery. Motivating stronger investments in public service capabilities may be a function of existing capabilities in ways that are not yet well understood.

Figures



Notes: Estimates of willingness-to-pay (WTP) in Ethiopia Birr (ETB) and share of the sample purchasing at different elicited prices. Demand curves estimated with $N=438$. Bids winsorised at the 99th percentile.

Figure 1: Inverse Demand Curve for Coaching, Shadowing and Training



Notes: Predicted means of Willingness-to-Pay for training by emphasis and motivation, after controlling for individual fixed-effects, 95% confidence intervals are reported and constructed from robust standard errors. Elicited demands are winsorised at the 99th percentile. Motivations coded from reflections on rationale for initial bids. The top panel is estimated using 438 respondents, while the bottom panel is estimated using the 385 respondents for which we have measures of other-regarding motivations.

Figure 2: Average WTP for Training by Emphasis and Motivation

Tables

Table 1: Relative Treatment Effects of Career Message

Dependent variable: Willingness-to-pay for training type				
	(1)	(2)	(3)	(4)
Treatment: “Training is good for your career”	6.994*	8.264**	9.600**	7.012
	(3.771)	(4.089)	(4.310)	(4.504)
Other-Regarding Training	2.163	3.013	2.172	
	(2.260)	(2.608)	(2.264)	
Treatment x Other-Regarding Training		-1.692		
		(4.513)		
Social Reflection			4.807	-6.677*
			(6.235)	(3.524)
Treatment x Social Reflection			-13.84	3.987
			(9.535)	(9.483)
Clusters	438	438	438	438
Observations	1752	1752	1752	438
Predicted Reference Mean	19.695	19.695	19.588	36.819
Training Type Sample	All	All	All	Career

Notes: Treatment effects on a measure of willingness-to-pay (WTP) for training. Regressions control for the pre-treatment WTP elicited during the in-person elicitation in 2023 and the phone-survey elicitation conducted before the treatment. “Treatment” is an indicator for whether participants received a message emphasizing career advancement benefits before stating their final WTP bids. “Other-Regarding Training” is an indicator for whether the training content emphasised benefits to the team, organisation, or society at large. “Social Reflection” is an indicator for whether the participant, in an open-ended response explaining their WTP, focused on benefits to the team, organisation, or society (rather than individualistic benefits). Interaction terms are combinations of these indicators. Where social reflection is missing, the value is imputed with the median and an indicator of missingness included. Predicted reference mean is the predicted WTP of the group treated with the other-regarding audio message, given the model controls – similar to the unconditional mean. Standard errors in parentheses are clustered across bids at the individual-level. Bids winsorised at 99th percentile.

Table 2: Treatment Effects of Narrative Intervention on Public Official’s Management

Dependent variable: Willingness-to-pay for training				
	(1)	(2)	(3)	(4)
	CSU	Pre	Post	Post
Treatment: Manager Monitors Movie	27.16 (33.09)	33.27 (38.01)	34.03 (39.24)	26.35 (44.48)
Treatment: Manager Enables Movie	-5.40 (33.98)	87.18** (39.72)	91.52** (41.85)	103.32** (47.93)
Social Reflection	31.38 (31.44)	20.07 (40.53)	17.61 (42.15)	21.40 (63.34)
Manager Monitors x Social Reflection				47.53 (93.73)
Manager Enables x Social Reflection				-62.51 (96.15)
Clusters		438	438	438
Observations	438	1752	1752	1752
Predicted Control Mean	103.44	-31.64	-25.64	-25.81
Monitor vs. Enable <i>p</i> -value	0.21	0.11	0.10	0.04

Notes: Treatment effects on a measure of willingness-to-pay (WTP) for training. “Treatment: Manager Monitors Movie” indicates the respondent was shown a movie during the CSU framed field experiment that provided a narrative of a monitoring and directive senior manager. “Treatment: Manager Enables Movie” indicates they were shown a movie that showed an enabling senior manager. “Social Reflection” is a binary that takes the value 1 when the respondent provided a socially-oriented reflection. Column (1) reports the WTP measure collected in person at Civil Service University (CSU). Column (2) uses the WTP measure from the follow-up phone survey about one year later, before respondents received additional treatments (Pre). Columns (3) and (4) use the WTP measure from the same phone survey after respondents received additional treatments (Post). Models (2), (3), and (4) control for training type. Models (3) and (4) control for “Career Treatment”, an indicator for whether participants received a message emphasizing career advancement benefits before stating their final WTP bids. Where social reflection is missing, the value is imputed with the median and an indicator of missingness included. Predicted control mean is the predicted WTP of the control group, given the model controls, which is similar to the unconditional mean. Standard errors in parentheses are clustered across bids at the individual-level for models (2), (3), and (4). For model (1) standard errors are robust. Bids winsorised at 99th percentile. Monitor vs. Enable *p*-value displays the test statistics comparing the coefficient for Monitor Treatment against Enable treatment. Model (4) shows this *p*-value for respondents with individual (i.e., not “social”) reflections, comparing coefficients in the first two rows.

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

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Supplemental Materials

In this Online Appendix, we provide details of several aspects of the study. Appendix Section A provides details on our WTP elicitation method. Appendix Section B gives details about the follow-up phone-survey. Appendix Section C describes any changes relative to our pre-analysis plan. Appendix Section D describes secondary sources of data. Finally, Appendix Section E provides additional tables and figures.

A Willingness-To-Pay Elicitation Procedure

We used a Becker-DeGroot-Marschak (BDM) mechanism to elicit participants' willingness-to-pay (WTP) for three professional development opportunities: training, coaching, and shadowing. Participants stated their maximum WTP for each opportunity, in a randomised order. One of the three was then randomly selected, and a price was randomly drawn for that particular opportunity. If a participant's bid met or exceeded the random price, they purchased the opportunity at the drawn price; otherwise, no transaction occurred. Participants were reminded that bidding truthfully was in their best interest, as the price would not be influenced by their bid. To reinforce understanding and promote accurate valuation, respondents completed a practice round using a pen, answered comprehension checks, and were required to confirm their ability to pay the amount they bid, either via the most common mobile money platform (*TeleBirr*) or in cash on the same day. The full script that enumerators used in the elicitation procedure are reported in our pre-analysis plan (<https://www.socialscienceregistry.org/trials/12407>).

Non-payment

Non-payment can distort revealed preferences, particularly if participants anticipate that payment will not be enforced. Messaging the need to pay may itself reduce expectations that opting out is acceptable. While existing studies vary in rates of non-payment, our experience compares favourably. Maffioli, McKenzie and Ubfal [2023], for example, report that over half of selected participants refused to pay the full amount. In contrast, studies that request payment immediately after bidding tend to see much lower default rates [Berry, Fischer and Guiteras, 2020; Burchardi et al., 2021]. A review by Maffioli, McKenzie and Ubfal [2023] finds that most such studies report single-digit non-payment rates.

To mitigate non-payment and ensure bids reflect true demand, we followed best practices in implementing the willingness-to-pay mechanism. Participants were required to pay upfront if they drew a randomised price below their stated bid. To reinforce this, they received two follow-up prompts after submitting their bids: first, whether they would still pay a slightly higher price; and second, a reminder that payment would be required if the random draw fell below

their bid. They then reviewed and confirmed all three bids side by side. Our implementation method was effective – only 4 out of 111 selected buyers ultimately declined to pay.

Coding of Reflections of Rationale for Bids

As part of the initial elicitation of bids, we asked each participant to write a short reflection on what drove their pricing decisions. 89% of respondents provided a reflection that could be analysed. Two research assistants independently coded each reflection by identifying its primary focus—the ‘unit of analysis’—as individual, team, organisation, or society. They then reconciled any differences. For analysis, we grouped the latter three into a single category reflecting other-regarding motives.

B Eliciting Demand Through a Follow-up Phone Survey

We undertook follow-up phone-based surveys with respondents between November 5, 2024 and February 4, 2025. To ensure as small an attrition rate as possible, we used the following procedure: participants are called and invited to conduct the 15-minute survey at that point, or else reschedule for a more convenient time. Secondly, in case they cannot be reached, the enumerator will call them up to three times. We provided respondents with a 50ETB (0.50USD) in airtime credit to thank them for their time. The order in which respondents were contacted was randomized conditional on the above procedure. Assignment to treatment in the survey experiments (described in detail below and in the paper) was based on a pre-assigned randomization. Participants were linked to this randomization with their survey ID.

B.1 Training focus

For the follow-up phone survey, we mimicked the BDM mechanism employed in the first part of our study in November 2023, while stating that we will not collect money on that day. We stated that if we were to go ahead with the proposed training, the amounts they stated will be the amounts they have to pay. This allows us to measure WTP in a way that is consistent with our first experiment in November 2023, while allowing us to investigate many more variations in the characteristics of training in the finite interview time. We find no impact on bids on the follow-up survey from the random price drawn in the initial experiment, or whether respondents attended an activity offered. Though, those who paid, or were paid, to attend subsequently bid higher (60 ETB, $p=0.074$), controlling for initial training bid. We presented four kinds of training emphases to our professional student sample, enabling us to discriminate between demand for each. The prompts were read in case the subject asked for further information.

B.2 Survey experiments

After assessing demand for training with different emphases, we then undertook two randomised survey experiments:

B.2.1 Testing emphasis

We prime the participant towards a private career intention for training, or public contribution intention, by having them listen to a recording from the Civil Service Commission that describes why training is important. The text of these recordings is reported below. Which of the two recordings is played to the participant is randomised. The audio recording is introduced by the enumerator as from the Civil Service Commission, with whom we have collaborated. These are read by a female ex-senior civil servant to contrast with the male enumerator, differentiating the message from the interview. Note that all participants received one of the two messages.

Treatment	Description
Private— Career	“The Civil Service Commission wants to support the careers of civil servants, and so are implementing a competency framework to make clear the steps needed for career advancement. Training is a central part of our reform process to help all civil servants reach these standards. We want civil servants to perform and progress in their own personal careers.”
Public— Other- regarding	“I’ve seen first-hand how training can make a difference in the work civil servants do. I recently visited a team in the service, and saw how by implementing the new practices they learnt at a training course, they made their processes much more efficient, and were able to serve more members of the public. Citizens I spoke to were very happy about their experience of the team, which is the feedback I love to hear. Improving skills and ways of working through training can make a difference for Ethiopia.”

B.2.2 Testing saturation

We measure the extent to which individuals change their WTP conditional on the fact that other members of their unit are being trained. Specifically, we randomised the number of individuals that we state will be trained with the participant. The question line is as follows:

Thank you. We are interested in whether the fact that from your department, [*RANDOMIZED: 1 other; 2 others; 3 others; the rest of your department*] going to a training affects your willingness to participate.

Imagine that from your unit, [*RANDOMIZED: 1 other; 2 others; 3 others; the*

rest of your department] registered to attend the training that emphasises [RANDOMLY CHOOSE ONE: skills to strengthen your career prospects across any kind of organisation; skills that are identified by your team as crucial for your organisation’s productivity; skills that make the public service as a whole work more effectively together; skills that make your direct impact on citizens larger].

Without that consideration, you had bid [X] Birr. How much are you willing to pay now that [RANDOMIZED: 1 other; 2 others; 3 others; the rest of your department] are attending?

Civil servants’ demand may potentially be internalizing some of the externalities that attending training can have on their productivity, on the productivity of the organisation, or on the government’s capacity to serve the public as a whole. Given the prevalence of teamwork in public service, the decisions of a respondent’s colleagues to invest in capacity building, and the externalities this generates, may influence individual-demands. For example, we may expect free-riding to occur if individuals weigh their private costs against team performance gains, potentially reducing WTP when more colleagues attend. Conversely, complementarities in team skills may increase WTP if training returns improve with team-wide participation (Lerva [2023] explores the potential for such externalities in WTP in the context of agricultural pest-control technology and finds evidence of large spillovers). To test these ideas, estimate the following equation:

$$Y_{post,i} = \alpha_1 Y_{pre,i} + \mathbf{C}\boldsymbol{\gamma} + \mathbf{S}\boldsymbol{\delta}_1 + \varepsilon_i \quad (3)$$

where elements are defined as in equation 1 and \mathbf{C} is a vector of indicators for group sizes (“1 other”, “2 others”, “3 others”, or “department-wide”), with “1 other” as the omitted category.

Appendix Figure A.4 illustrates the results. We find limited evidence of differential demand by group size. We find suggestive evidence consistent with complementarities, rather than free-riding, as WTP is higher when the entire department is expected to attend (34 ETB) versus 3 other colleagues (15 ETB), significant at the 10% level. This overall result, of limited spillovers or the influence of saturation, implies our core results are not heavily influenced by the perception of colleagues’ actions.

B.2.3 Interaction with Work Experience

As expected from a lifecycle perspective, WTP declines by years of experience in the control group. To assess how career stage interacts with the video-based treatment, we interact the

treatment arms with years of experience and display the linear interaction model (Figure A.5). In general, the impact of the videos increases with years of experience. While enabling predicts higher WTP across most experience levels, there is a stronger positive interaction between monitoring and years of experience.

B.3 Perceived returns

We present treatment effects of the experimental interventions on the perceived impact of training on promotion in Appendix Table A.11. We asked participants about their anticipated promotion prospects with the following question:

We're interested in how training impacts your chances of promotion. Imagine you went on a training that emphasises **RANDOMLY CHOOSE ONE**: skills to strengthen your career prospects across any kind of organisation; skills that are identified by your team as crucial for your organisation's productivity; skills that make the public service as a whole work more effectively together; skills that make your direct impact on citizens larger. Do you think that increases the percentage chance of receiving a promotion? By how much? *ANSWER OPTIONS: 0% - 100%*

We also collected data on whether the respondent has been promoted in the last year that we plan to use as an additional control variable ("Are you promoted since attending CSU? 1 = Yes, 0 = No").

B.4 Details on the Implicit Narrative Intervention

Before eliciting the original set of bids for capacity building activities, we had public officials watch a fictional movie about a team in the Ethiopian public service trying to solve a problem. We developed two sets of treatment videos (as well as a control) that emphasised different features of management practice prevalent in the public service. This section begins by outlining how we identified the major approaches to management in Ethiopia's public administration, and then how we developed the movies related to those themes.

B.4.1 Factor Decomposition of Management Practices in Ethiopia

We capitalised on pre-existing measures of management practice in Ethiopia's Government based on survey data from 2016, described in Section D. We undertook a factor analysis of these measures and found that they dominantly clustered onto two factor loadings in the sense that they were the only two with an eigenvalue greater than 1. These two factors jointly explain 58% of the variation before rotation. A summary of results is presented as Table A.2. We interpret these dimensions of management as follows: the extent to which managers pay close attention

to measuring performance and utilising accountability mechanisms to ensure performance (which we label ‘monitoring’); and the extent to which managers focus on providing enabling and supportive management practices to support their team to undertake tasks independently, based on trust and informal managerial training and feedback (which we label ‘enabling’).

B.4.2 Development of Management Movies with Randomised Components

We developed movies that had both common components (broad storyline, setting, actors) and varied the emphasised an enabling or monitoring approach to management. In order to develop the content of the movies, we developed a script based on core elements of the Ethiopian public administration such as the Ethiopia Civil Service Code, the new competency framework being drafted by the Civil Service University, existing training material used by the Ethiopian Management Institute, and so on. Third, we conducted interviews and focus group discussions with middle-mangers in the civil service to collect anecdotes and professional stories to determine an engaging and relatable narrative of the script. Fourth, we developed the video intervention with an experienced local production company (Synergy Habesha) in partnership with the Ethiopian Management Institute, the Civil Service Commission and with support by a media expert at an international firm that develops videos for behaviour change (ImpactEd) to stimulate engagement in the training sessions. Finally, we piloted the different movie-based interventions and refined them based on feedback from viewers before starting the full-scale rollout.

C Deviations from Pre-Analysis Plan

Our core design and primary outcomes were pre-specified in two pre-analysis plans (AEARCTR-0012407): an initial plan for the (November 14, 2023), and an addendum for the follow-up survey data (December 7, 2024). Both plans were lodged before data collection concluded.

D Additional Data

Besides the data collected during the in-person elicitation at CSU and the follow-up phone-survey, additional data is drawn from two sources: i) the Ethiopian Survey of Public Servants 2016, and ii) the Ethiopian Survey of Public Servants 2024.

Ethiopia Survey of Public Servants 2016 This data was used to form the baseline representative group to compare our willingness-to-pay sample to in Section 2. A survey of $N=2,164$ face to face interviews was implemented in 2016. The survey used random sampling techniques at all levels of sample selection to gain a representative sample of officials across the government sectors studied. Interviews were carried out in June to September 2016 across the three tiers of Ethiopian government; at the federal level, in all 11 regions existing at that time,

Table A.1: Pre-Analysis Plan (PAP) Specifications and Where Results Are Reported

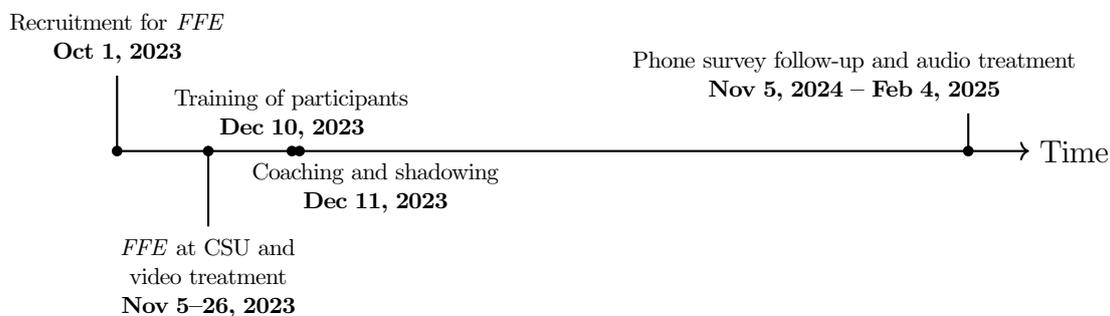
Specification / Deviation	Results Reported In
Original PAP specified a single video treatment. Coding error led to randomisation across five videos (four treatment, one placebo). Placebo shown to 1/5 instead of 1/2. Main analysis in Table 2 pools treatments into two groups.	Disaggregated video effects: Appendix Table A.8 Panel A. Binary video effects: Appendix Table A.8 Panel B.
Difference-in-differences (DID) estimator was specified in addendum, conditional on high autocorrelation. ANCOVA is reported in the main results in Table 1.	Appendix Table A.6.
Post-double LASSO estimation for robustness.	Motivation experiment: Appendix Table A.6. Management experiment: Appendix Table A.7.
Impact of video treatments on willingness-to-pay for coaching, shadowing, training, and an index of bids.	Appendix Table A.9 Panel A.
Effects of management video treatments on the probability of a positive bid.	Appendix Tables A.9 Panel B and Panel C.
Comparison of bids across training type.	Addendum did not specify individual fixed effects in within-respondent comparisons at follow-up. We include them for precision; conclusions unchanged without them.

and in a selection of 66 woredas. Civil servants in non-managerial positions (employee-level track), civil servants in managerial positions (director-level track), and organisation heads (political appointee-level track) were included. Frontline service delivery staff such as teachers or nurses were not included.

Ethiopia Survey of Public Servants 2024 This data was used for information on current Ethiopian civil servants perspectives on and experience of professional development in Section 2.1. A survey of $N=3,321$ face to face interviews was implemented in February to April 2024 across the three tiers of Ethiopian government. Civil servants in non-managerial positions (employee-level track), civil servants in managerial positions (director-level track), and organisation heads (political appointee-level track) were included. Frontline service delivery staff such as teachers or nurses were not included. The survey especially sampled civil servants in the sectors of

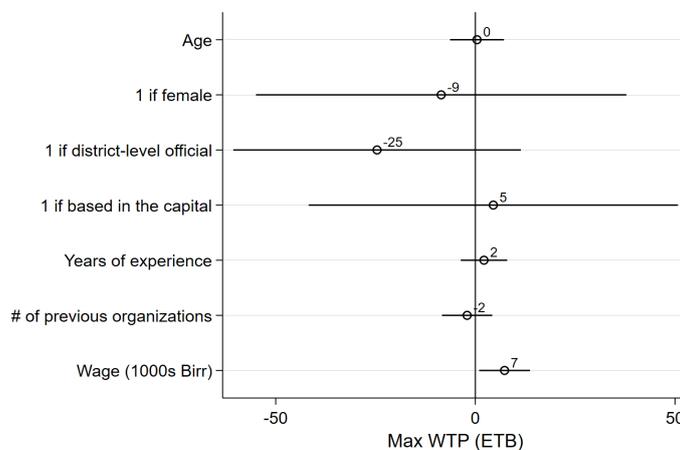
Finance, Revenue, Labor and Skill, Health, Education, Agriculture, and the Civil Service itself.

E Additional Figures and Tables



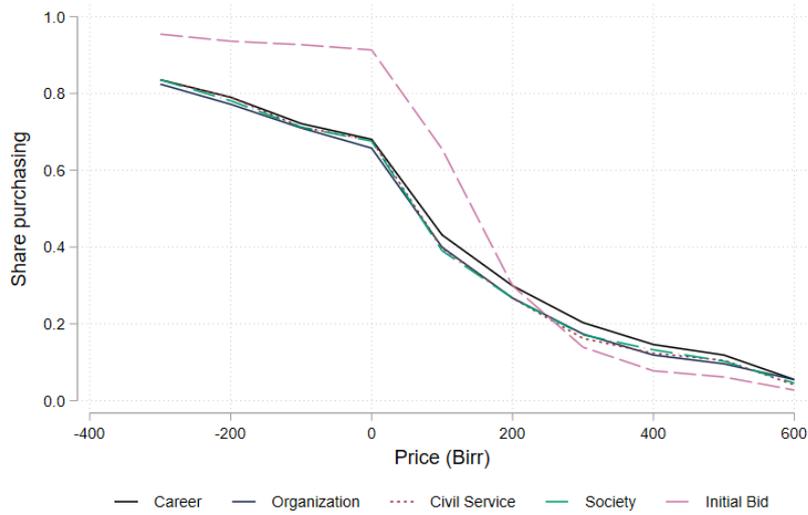
Note: Timeline of the framed field experiment (FFE) at Civil Service University (CSU). Before the final elicitation at CSU, participants were randomly exposed to the different video treatments. In the phone-survey follow-up, participants were also randomized into different conditions that varied the messaging with an audio treatment (Career-oriented vs. Other-regarding) and number of participants from the respondents' organisation.

Figure A.1: Study Timeline



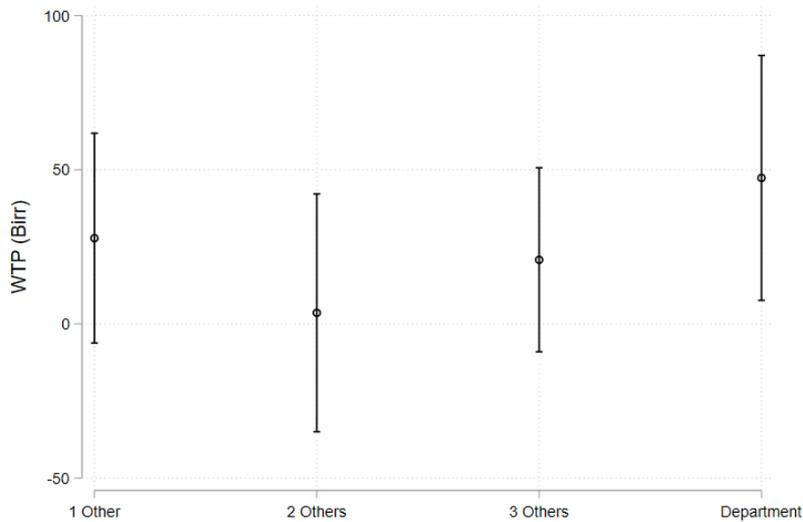
Note: Coefficients from a linear regression of various covariates on the maximum willingness-to-pay (WTP) among the three incentivised bids elicited at Civil Service University as part of the in-person field experiment. Bars display 95% confidence intervals. $N = 437$, results are the same when imputing for missing control variables.

Figure A.2: Relationship between individual characteristics and willingness-to-pay



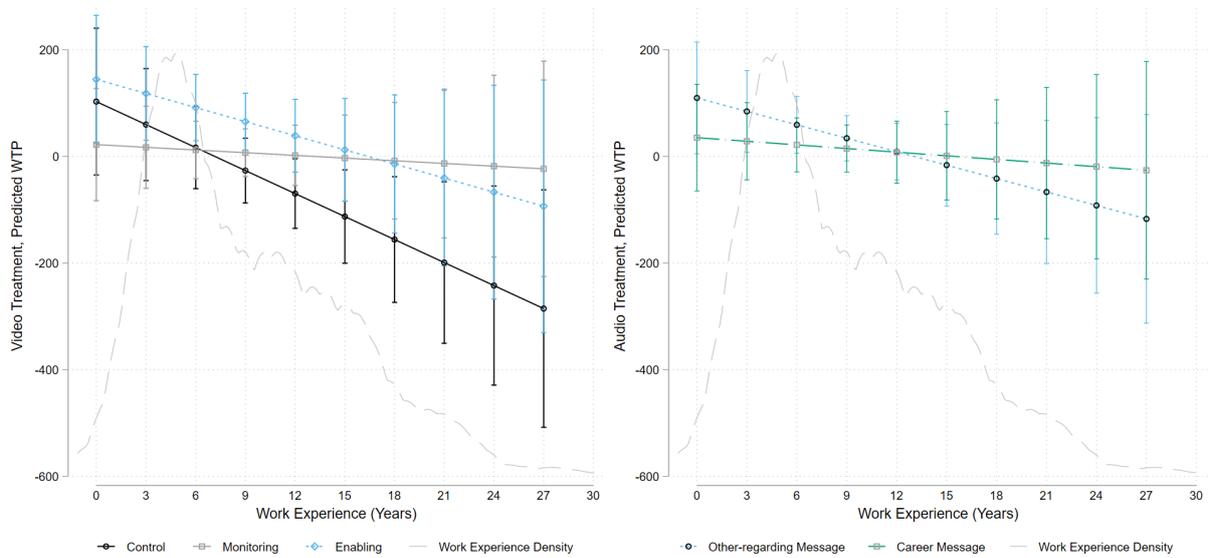
Note: Willingness-to-Pay for training, including the initial bid in November 2023 and follow up bids by emphasis in November 2024–February 2025. Demand curves estimated with $N=438$. Bids winsorised at the 99th percentile.

Figure A.3: Inverse Demand: Training by Emphasis



Note: Predicted effects on willingness-to-pay for training elicited during the follow-up phone survey of the number of colleagues stated in question as also attending the course. The number was randomized (1, 2, 3, or all other members of the department). The survey wording was: “We are interested in whether the fact that from your department, [RANDOMIZED: 1 other; 2 others; 3 others; the rest of your department] are going to a training affects your willingness to participate.” Variation is between-subjects, phone survey sample, $N=438$. Predicted values from a linear regression on WTP (winsorised at the 99th percentile) on the randomized number of colleagues controlling for previous bids, training emphasis. Reported 95% confidence interval are robust.

Figure A.4: Relationship Between the Hypothetical Number of Colleagues Attending and WTP



Notes: Predicted post-audio treatment Willingness to Pay (WTP) by video treatment (left) and audio treatment (right), interacted with years of work experience. Line displays density of work experience. Controls not shown: Constant, trial item (pen) bid, training emphasis, age, gender, whether office is in Addis Ababa, number of organisations, wage bracket indicators, and governmental tier indicators. 95% confidence intervals use robust standard errors. Bids winsorised at the 99th percentile.

Figure A.5: Predicted WTP by video and audio treatment, interacted with years of experience

Table A.2: Management Style Factor Loadings from Principal Component Analysis

	Monitoring	Enabling
Clarity of roles and responsibilities	.6710113	.1453058
Directorate targets guide work schedule	.8190121	.0232894
Communication of targets and measures	.8975451	-.1163584
Tracking of service delivery	.8842074	-.0814437
Follow-up on meeting plans	.5914227	.2126669
Tolerance of underperformance	.6232459	.0978324
Staff discretion in assignments	.5907584	.2780989
Staff contribution to policy	.2149784	.6343335
Right staff for right job	.3385354	.2833133
Flexibility in work practices	.0735017	.7499799
Responsiveness to stakeholder needs	-.10624	.8419977
Attraction and retention of talent	.0238238	.7108054

Note: Table reports the factor loadings from principal component analysis (PCA) conducted on survey measures of management practices in Ethiopian Government directorates (2016). Each number in the table indicates the correlation or the relative contribution of a given management practice statement with each of the two principal factors identified: “Monitoring” and “Enabling.”, which jointly explain 58% of the variance in management practices across directorates prior to rotation.

Table A.3: Descriptive Statistics

	Benchmark (2016) (N=2,164)	Sample (2023) (N=500)
Female	0.178 (0.383)	0.180 (0.385)
Age	35.178 (8.553)	32.360 (5.467)
Wage (Birr per month)		
0-2,000	0 (.%)	10 (2.2%)
2,001-5000	0 (.%)	83 (17.9%)
5,001-10,000	0 (.%)	308 (66.5%)
10,001-20,000	0 (.%)	58 (12.5%)
20,001-50,000	0 (.%)	4 (0.9%)
Work Experience (years)	13.063 (8.549)	9.057 (5.768)
Education		
Grade 8 completion	2 (0.1%)	0 (0.0%)
Grade 10 completion	4 (0.2%)	0 (0.0%)
Grade 12 completion	2 (0.1%)	5 (1.0%)
Diploma / TVET / Post-high school	376 (17.7%)	4 (0.8%)
Undergraduate degree	1,533 (72.2%)	445 (89.0%)
Masters degree	201 (9.5%)	46 (9.2%)
PhD	4 (0.2%)	0 (0.0%)
Program Engaged		
Bachelor Degree	0 (.%)	34 (6.9%)
Masters	0 (.%)	456 (91.9%)
Ph.D.	0 (.%)	6 (1.2%)
Administrative Tier		
Federal	285 (13.2%)	68 (13.7%)
Regional	443 (20.5%)	132 (26.6%)
Zone	0 (0.0%)	61 (12.3%)
Woreda	1,436 (66.4%)	232 (46.8%)
Other	0 (.%)	3 (0.6%)
Office in Addis Ababa	0 (.)	0.246 (0.431)

Note: The 2016 Benchmark is based on the Ethiopian Civil Service Survey (CSS), a representative sample of the Ethiopian Civil Service described in Appendix Section D. The 2023 sample are respondents in field experiment, who attended Civil Service University (CSU), and took part in the first incentivised willingness-to-pay elicitation. Standard deviation or percentage of category (%), for categorical variables, shown in parentheses.

Table A.4: Audio-based Treatment Experimental Balance Table (within Follow-up Sample)

	Audio-based Treatment			(4) <i>p</i> -value
	(1) Career	(2) Other-regarding	(3) Total	
CSU Training Bid	99.045 (255.045)	118.610 (472.188)	108.783 (378.695)	0.589
Age	32.201 (5.481)	32.588 (5.533)	32.393 (5.504)	0.464
Female	0.156 (0.364)	0.202 (0.402)	0.179 (0.384)	0.225
Admin tier				
Federal	34 (15.6%)	28 (13.0%)	62 (14.3%)	0.156
Regional	54 (24.8%)	59 (27.3%)	113 (26.0%)	
Zone	33 (15.1%)	18 (8.3%)	51 (11.8%)	
Woreda	95 (43.6%)	110 (50.9%)	205 (47.2%)	
Other	2 (0.9%)	1 (0.5%)	3 (0.7%)	
Location Addis Ababa	0.258 (0.439)	0.258 (0.439)	0.258 (0.438)	1.000
Work Experience (years)	8.806 (5.795)	9.340 (5.796)	9.072 (5.795)	0.340
Number Orgs	2.083 (1.500)	2.284 (2.046)	2.182 (1.793)	0.244
Wage (Birr)				
0-2,000	5 (2.4%)	4 (2.0%)	9 (2.2%)	0.827
2,001-5000	37 (17.8%)	33 (16.5%)	70 (17.2%)	
5,001-10,000	143 (68.8%)	135 (67.5%)	278 (68.1%)	
10,001-20,000	21 (10.1%)	27 (13.5%)	48 (11.8%)	
20,001-50,000	2 (1.0%)	1 (0.5%)	3 (0.7%)	
N	220 (50.2%)	218 (49.8%)	438 (100.0%)	

Note: The table displays means for baseline variables among the sample that responded to the follow-up phone survey, by audio experiment assignment. The fourth column shows *p*-values for equal means in the first two columns, evaluating balanced attrition. Standard deviation, or percentage of category (%) for categorical variables, shown in parentheses. Number of observations reported in the bottom row.

Table A.5: Experimental Balance Table (Video, Realised Sample and CSU Sample)

	(1)	(2)	(3)	(4)	(5)
	Control	Monitoring	Enabling	Total	Test
<i>Panel A: Realised Sample</i>					
Age	32.000 (5.150)	32.948 (5.759)	31.938 (5.341)	32.393 (5.504)	0.177
Female	0.198 (0.401)	0.175 (0.381)	0.174 (0.381)	0.179 (0.384)	0.890
Admin tier					
Federal	10 (12.2%)	32 (16.7%)	20 (12.5%)	62 (14.3%)	0.891
Regional	20 (24.4%)	50 (26.0%)	43 (26.9%)	113 (26.0%)	
Zone	11 (13.4%)	20 (10.4%)	20 (12.5%)	51 (11.8%)	
Woreda	41 (50.0%)	89 (46.4%)	75 (46.9%)	205 (47.2%)	
Other	0 (0.0%)	1 (0.5%)	2 (1.2%)	3 (0.7%)	
Location Addis Ababa	0.205 (0.406)	0.298 (0.459)	0.237 (0.427)	0.258 (0.438)	0.202
Work Experience (years)	8.778 (5.050)	9.458 (6.254)	8.755 (5.577)	9.072 (5.795)	0.464
Number Orgs	2.220 (1.750)	2.171 (1.660)	2.177 (1.973)	2.182 (1.793)	0.978
Wage (Birr)					
0-2,000	0 (0.0%)	3 (1.7%)	6 (3.9%)	9 (2.2%)	0.223
2,001-5000	15 (19.5%)	23 (12.8%)	32 (21.1%)	70 (17.2%)	
5,001-10,000	52 (67.5%)	127 (70.9%)	99 (65.1%)	278 (68.1%)	
10,001-20,000	9 (11.7%)	24 (13.4%)	15 (9.9%)	48 (11.8%)	
20,001-50,000	1 (1.3%)	2 (1.1%)	0 (0.0%)	3 (0.7%)	
N	83 (18.9%)	193 (44.1%)	162 (37.0%)	438 (100.0%)	
<i>Panel B: CSU Sample</i>					
Age	31.895 (5.003)	32.943 (5.850)	31.959 (5.219)	32.360 (5.467)	0.129
Female	0.183 (0.389)	0.181 (0.386)	0.178 (0.384)	0.180 (0.385)	0.996
Admin tier					
Federal	12 (12.6%)	33 (15.7%)	23 (12.0%)	68 (13.7%)	0.923
Regional	25 (26.3%)	55 (26.2%)	52 (27.2%)	132 (26.6%)	
Zone	14 (14.7%)	23 (11.0%)	24 (12.6%)	61 (12.3%)	
Woreda	44 (46.3%)	98 (46.7%)	90 (47.1%)	232 (46.8%)	
Other	0 (0.0%)	1 (0.5%)	2 (1.0%)	3 (0.6%)	
Location Addis Ababa	0.198 (0.401)	0.278 (0.449)	0.236 (0.425)	0.246 (0.431)	0.298
Work Experience (years)	8.766 (4.896)	9.571 (6.224)	8.632 (5.625)	9.057 (5.768)	0.230
Number Orgs	2.211 (1.688)	2.175 (1.645)	2.296 (2.948)	2.228 (2.237)	0.862
Wage (Birr)					
0-2,000	0 (0.0%)	3 (1.5%)	7 (3.9%)	10 (2.2%)	0.208
2,001-5000	18 (20.2%)	26 (13.3%)	39 (21.9%)	83 (17.9%)	
5,001-10,000	60 (67.4%)	138 (70.4%)	110 (61.8%)	308 (66.5%)	
10,001-20,000	10 (11.2%)	27 (13.8%)	21 (11.8%)	58 (12.5%)	
20,001-50,000	1 (1.1%)	2 (1.0%)	1 (0.6%)	4 (0.9%)	
N	96 (19.2%)	211 (42.2%)	193 (38.6%)	500 (100.0%)	

Note: The table displays means for baseline variables for the sample that responded to the follow-up phone survey (Panel A), and for the full sample that was originally sampled for the WTP elicitation at Civil Service University (Panel B), by assignment to the video experiment. The fourth column shows p -values for equal means in the first two columns, evaluating balanced attrition. Standard deviation, or percentage of category (%) for categorical variables, shown in parentheses. Number of observations reported in the bottom rows of each panel.

Table A.6: Relative Treatment Effects of Career Message

	(1) OLS	(2) OLS	(3) LASSO	(4) DiD
Treatment: “Training is good for your career”	6.994* (3.773)	7.036* (3.786)	6.816* (3.772)	
Other-regarding Training: Organisation	4.799 (3.367)	4.797 (3.368)	4.821 (3.367)	-25.82* (13.30)
Other-regarding Training: Civil Service	-0.959 (2.332)	-0.962 (2.333)	-0.936 (2.341)	-26.85** (12.00)
Other-regarding Training: Society	2.648 (3.345)	2.645 (3.345)	2.668 (3.351)	-23.24* (12.21)
Post				3.088 (2.135)
Post × Treatment				6.675* (3.811)
Post × Organisation				4.632 (3.308)
Post × Civil Service				-1.132 (2.255)
Post × Society				2.498 (3.351)
Clusters	438	438	438	438
Observations	1752	1752	1752	3504

Notes: Treatment effects on a measure of willingness-to-pay (WTP) for training elicited during the phone-survey after audio-treatment was administered. Models (1)-(4) control for the phone-survey elicitation conducted before the treatment. Model (2) controls for the benchmark item (pen) bid. Model (3) uses the LASSO via plugin and double selection to chose control variables, using imputed values where missing, and indicators for missingness are included in the group of control variables for selection. Model (4) is a two-period Difference-in-Differences specification. Period 1 is the phone survey elicitation before the treatment, Period 2 is after treatment. “Treatment: Training is good for your career” is an indicator for whether participants received a message emphasizing career advancement benefits before stating their final WTP bids. The other-regarding trainings “Organisation”, “Civil Service” and “Society” are indicators for the training content emphasis.

For LASSO specifications, the phone-survey pre-treatment WTP is always included as a control. Control variables for selection include: pre-treatment WTP elicited during the in-person elicitation in 2023, age, gender, whether office is in Addis Ababa, years of work, number of organisations, wage bracket, governmental tier, and (in model 3) missingness indicators. Standard errors are clustered at the individual level. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A.7: Treatment Effects of Manager Style, LASSO

Dependent variable: Willingness-to-pay for training	(1)	(2)	(3)
	CSU	Pre	Post
Treatment: Manager Monitors Movie	-0.109 (0.308)	31.28 (37.85)	31.75 (38.90)
Treatment: Manager Enables Movie	-0.126 (0.294)	84.82** (39.28)	89.40** (41.24)
Clusters	438	438	438
Observations	1752	1752	1752
Monitor vs. Enable p -value	0.94	0.12	0.10

Notes: Treatment effects on a measure of willingness-to-pay (WTP) for training. The dependent variable in column (1) is the WTP measure collected in-person at Civil Service University (CSU). “Treatment: Manager Monitors Movie” indicates the respondent was shown a movie during the CSU framed field experiment that provided a narrative of a monitoring and directive senior manager. “Treatment: Manager Enables Movie” indicates they were shown a movie that showed an enabling senior manager. Column (1) reports the WTP measure collected in person at Civil Service University (CSU). Column (2) uses the WTP measure from the follow-up phone survey about one year later, before respondents received additional treatments (Pre). Column (3) uses the WTP measure from the same phone survey after respondents received additional treatments (Post). All models use the LASSO via plugin and double selection to chose control variables. An indicator for training type is always included as a control in models (2)-(4).

Control variables for selection in LASSO specifications include: pre-treatment WTP elicited during the in-person elicitation in 2023, trial item (pen) bid, age, gender, whether office is in Addis Ababa, years of work, number of organisations, wage bracket, governmental tier, and missingness indicators. Variables with coefficients displayed in the table were included as variables of interest. Standard errors in parentheses are robust. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A.8: Disaggregated and Pooled Treatment Effects of Manager Videos

Dependent variable: Willingness-to-pay for training				
	(1)	(2)	(3)	(4)
	CSU	CSU	Pre	Post
	(Phone Sample)			
<i>Panel A: Disaggregated Effects</i>				
Video 1	15.51 (38.45)	0.481 (37.68)	17.14 (43.53)	16.86 (44.54)
Video 2	-26.90 (41.23)	-54.07 (43.44)	77.96* (44.82)	80.65* (46.97)
Video 3	22.19 (35.13)	34.42 (34.56)	91.16* (48.32)	96.92* (50.76)
Video 4	39.82 (38.61)	49.69 (36.94)	45.69 (44.48)	47.70 (45.47)
<i>Panel B: Pooled Effects</i>				
Shown Treatment Video	13.48 (31.86)	10.08 (30.81)	55.78 (34.53)	58.20 (35.90)
Clusters			438	438
Observations	500	438	1752	1752

Notes: Treatment effects on a measure of willingness-to-pay (WTP) for training. In Panel A, Video 2 and 3 indicates the respondent was shown a movie during the CSU framed field experiment that provided a narrative of an enabling senior manager. In addition, Video 2 had a monitoring main character, Video 3 had an enabling main character. Video 1 and Video 4 indicates they were shown a movie that showed a monitoring and directive senior manager. Video 1 had an enabling main character, Video 4 had a monitoring main character. In Panel B, all treatment video assignments are pooled. The placebo video is the reference category. Column (1) reports the WTP measure collected in person at Civil Service University (CSU). Column (2) uses the WTP measure from the follow-up phone survey about one year later, before respondents received additional treatments (Pre). Column (3) uses the WTP measure from the same phone survey after respondents received additional treatments (Post). Constant and training emphasis (for Pre and Post models) not shown. Standard errors in parentheses are robust (models 1-2) or clustered at individual level (models 3-4). * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A.9: Treatment Effects of Manager Style by Professional Development Opportunity

	(1)	(2)	(3)	(4)
	Coaching	Shadowing	Training	Index
<i>Panel A: Pooled Effects on WTP</i>				
Shown Treatment Video	5.660 (29.64)	28.03 (25.32)	13.48 (31.86)	13.20 (28.32)
<i>Panel B: Disaggregated Effects</i>				
Video 1	0.006 (0.052)	0.035 (0.051)	0.041 (0.045)	0.038 (0.040)
Video 2	-0.002 (0.054)	-0.002 (0.054)	-0.012 (0.051)	0.073** (0.036)
Video 3	0.024 (0.052)	0.034 (0.051)	-0.007 (0.050)	0.053 (0.038)
Video 4	0.052 (0.049)	0.071 (0.048)	0.050 (0.045)	0.057 (0.038)
<i>Panel C: Pooled Effects on Making a Positive Bid</i>				
Shown Treatment Video	0.0206 (0.0420)	0.0355 (0.0417)	0.0191 (0.0385)	0.0547* (0.0331)
Observations	500	500	500	500

Notes: Treatment effects on a measure of willingness-to-pay (WTP) for different professional development activities offered during the in-person elicitation. In Panel A and C, all treatment video assignments are pooled. In Panel A, the outcome is the raw WTP in ETB. Index is a simple mean of WTP. In Panel B and C, estimates come from a linear probability models on whether the respondent made a positive bid for the professional development opportunities. Video 2 and 3 indicates the respondent was shown a movie during the CSU framed field experiment that provided a narrative of an enabling senior manager. In addition, Video 2 had a monitoring main character, Video 3 had a enabling main character. Video 1 and Video 4 indicates they were shown a movie that showed a monitoring and directive senior manager. Video 1 had an enabling main character, Video 4 had a monitoring main character. The placebo video is the reference category. The Index is an indicator for whether at least opportunity bid is positive. Constant not shown. Standard errors in parentheses are robust.

* $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A.10: Treatment Effects of Manager Style (with controls including pen bid)

Dependent variable: Willingness-to-pay for training						
	(1)	(2)	(3)	(4)	(5)	(6)
	CSU	CSU	CSU	Pre	Post	Post
Treatment: Manager Monitors Movie	27.61 (34.24)	28.80 (33.94)	26.79 (31.73)	39.04 (36.67)	35.34 (38.90)	28.35 (43.98)
Treatment: Manager Enables Movie	-1.97 (34.10)	3.49 (34.34)	4.55 (32.56)	85.11** (38.10)	90.67** (42.36)	101.18** (48.78)
Social Reflection		42.36 (28.07)	41.93 (30.77)	26.00 (40.14)	33.81 (42.59)	36.02 (64.73)
Manager Monitors \times Social Reflection						42.16 (96.47)
Manager Enables \times Social Reflection						-54.75 (98.47)
Clusters				438	438	438
Observations	500	500	438	1752	1752	1752
Predicted Control Mean	102.61	100.00	99.92	-33.41	-25.90	-26.04
Monitor vs. Enable p -value	0.23	0.31	0.40	0.17	0.13	0.06
Sample	CSU	CSU	Phone	Phone	Phone	Phone

Notes: Treatment effects on a measure of willingness-to-pay (WTP) for training. “Treatment: Manager Monitors Movie” indicates the respondent was shown a movie during the CSU framed field experiment that provided a narrative of a monitoring and directive senior manager. “Treatment: Manager Enables Movie” indicates they were shown a movie that showed an enabling senior manager. “Social Reflection” is a binary that takes the value 1 when the respondent provided a socially-oriented reflection. Columns (1) to (3) report the WTP measure collected in person at Civil Service University (CSU). Column (4) uses the WTP measure from the follow-up phone survey about one year later, before respondents received additional treatments (Pre). Columns (5) and (6) use the WTP measure from the same phone survey after respondents received additional treatments (Post). Models (1) and (2) use the full sample to analyse data from CSU elicitation, model (3) uses the restricted phone sample to analyse the CSU elicitation. Models (4), (5) and (6) control for training type. Models (5) and (6) control for “Career Treatment”, an indicator for whether participants received a message emphasizing career advancement benefits before stating their final WTP bids. Where social reflection is missing, the value is imputed with the median and an indicator of missingness included.

Controls not shown: Constant, trial item (pen) bid, training emphasis, age, gender, whether office is in Addis Ababa, years of work, number of organisations, wage bracket indicators, and governmental tier indicators. Standard errors in parentheses are clustered at individual level. For model (1) standard errors are robust. Bids winsorised at 99th percentile. Monitor vs. Enable p -value displays the test statistics comparing the coefficient for Monitor Treatment against Enable treatment. Model (6) shows this p -value for respondents with individual (i.e., not “social”) reflections, comparing coefficients in the first two rows. * $p < 0.10$, ** $p < 0.05$, *** $p < 0.01$.

Table A.11: Treatment Effects of Manager Style on Perceived Returns

Dependent variable: Perceived promotion return from training			
	(1)	(2)	(3)
	No Controls	Controls	Promoted
<i>Panel A: Audio Treatment</i>			
Treatment: Career Message	0.62	0.11	2.86
	(2.80)	(2.93)	(3.90)
Not Promoted			-1.89
			(5.87)
Promoted			3.34
			(4.88)
Career Treatment x Not Promoted			-7.04
			(8.58)
Career Treatment x Promoted			-6.49
			(6.71)
<i>Panel B: Video Treatment</i>			
Treatment: Manager Monitors Movie	-4.61	-3.87	-3.24
	(3.78)	(3.90)	(5.05)
Treatment: Manager Enables Movie	0.44	1.29	1.36
	(3.87)	(4.03)	(5.25)
Not Promoted			0.81
			(10.80)
Promoted			-2.46
			(7.49)
Manager Monitors x Not Promoted			-7.80
			(12.31)
Manager Monitors x Promoted			2.55
			(9.14)
Manager Enables x Not Promoted			-5.61
			(12.80)
Manager Enables x Promoted			2.97
			(9.10)
Observations	438	438	438

Notes: Treatment effects on a measure of perceived probability of being promoted if (hypothetically) the respondent attended one of the training opportunities offered during the follow-up phone survey. Panel A: “Treatment: Career Message” is an indicator for whether participants received a message emphasizing career advancement benefits before stating their final WTP bids. Panel B: “Treatment: Manager Monitors Movie” indicates the respondent was shown a movie during the CSU framed field experiment that provided a narrative of a monitoring and directive senior manager. “Treatment: Manager Enables Movie” indicates they were shown a movie that showed an enabling senior manager. All models control for randomly selected training type used for this outcome. Controls not shown for models (2) and (3): Constant, social reflection, age, gender, whether office is in Addis Ababa, years of work, number of organisations, wage bracket indicators, and governmental tier indicators, and whether they have been promoted since baselining. Standard errors in parentheses are robust.