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Dag Ingvar Jacobsen

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Room for leadership? A comparison of perceived managerial job autonomy in public, private and hybrid organizations

Dag Ingvar Jacobsen

University of Agder

ABSTRACT

The study contributes to our knowledge of leadership in public organizations on three specific areas. First, it is a unique exploration of whether managers in publicly owned organizations perceive less job autonomy than managers in privately owned and hybrid organizations. Hybrid organizations are defined in two categories: shareholder companies with both public and private owners, and public companies (organizations selling their products or services, but publicly owned). Second, the study investigates possible mechanisms - more specifically formalization and professionalization - through which organizational ownership (public, private, and hybrid) is assumed to affect managerial autonomy. Finally, the study incorporates important confounding variables first and foremost size (number of employees), task (technology), and hierarchical level - missing from many other comparisons of public and private organizations. The main findings support the notion that perceived managerial autonomy in publicly owned organizations is lower than in both hybrid and private organization. These differences are not, however, explained by differences in formalization and professionalization.

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Introduction

One important idea in public management thinking over the last decades has been to let "the managers manage," implicitly evoking a picture of managers in public organizations being less free to exert leadership than their private sector counterparts (Aucoin 1990; Bezes and Jeannot 2018; Kettl 1997, 2002). Managerial autonomy was regarded as a main element in increasing the innovation, flexibility, and the general performance of public sector organizations (Wynen et al. 2014), becoming an important argument driving a "[...] shift from a centralized and consolidated public sector to a decentralized, structurally devolved and "autonomizing" public sector [...]" (Verhoest et al. 2010, 3). Granting managers more institutional autonomy was regarded as an important measure to increase and secure internal managerial autonomy, so that managers more freely could prioritize between tasks and choose how to perform them (Osborne and Gaebler 1992). This was mainly obtained was by creating organizational forms shielding mangers from direct political intervention, in the most radical form through privatizations, i.e., moving public tasks and responsibilities from public ownership, budget financing and direct political control to private ownership, market financing and more indirect political control through generic regulation (Megginson and Netter 2001).

CONTACT Dag Ingvar Jacobsen 🔯 dagij@uia.no 🗊 Department of Political Science and Management, University of Agder, Kristiansand, 4604 Norway.

Less radical, and thus more common, was an extensive use of delegation within the public sector through the creation of "quasi-autonomous independent agencies" (Flinders 2009), often termed "agencification" (Overman and van Thiel 2016). Such agencies are still units embedded in the public sector, objects to public law, and financed through public budgets, but are often granted institutional autonomy through structures granting own boards and separate statutes (Verhoest et al. 2012). Between the "pure" forms of market and public sector, a wide variety of institutional forms exist, partly aimed at providing wider frames for managerial autonomy. One such form could be termed "corporatization" (Andrews et al. 2020, 483), designing organizational forms to be more 'business-like' with separate legal status, own boards, and commercial responsibility. Corporatization may further be divided into several subtypes. One such subtype is publicly owned enterprise, describing an institutional form where the public sector—both state and local government—hold full ownership, either through direct ownership regulated by special laws or through stock companies where the public sector controls 100% of the shares (Krause and Van Thiel 2019). Another form is based on cooperation between the public and private sector though shared ownership, usually through the legal form of a stock company. Both types of corporatization can be termed as "hybrid types" as they include different institutional logics—both market and state—within the same institutional framework (Johanson and Vakkuri 2018).

Several studies have looked into the phenomenon of autonomy—including both the phenomenon itself, as well as its causes and consequences—of both agencies (Bilodeau, Laurin, and Vining 2006; Egeberg and Trondal 2009; Overman and van Thiel 2016; Verhoest et al. 2010; Verhoest et al. 2012) and hybrid or corporatized organizations (Rhys Andrews et al. 2020; Bel et al. 2021; Grossi and Reichard 2008; Lindlbauer, Winter, and Schreyogg 2016; Voorn, Borst, and Blom 2020). Still there are few studies at the micro-level, i.e., of internal managerial autonomy, in agencies and semipublic or public corporations (for notable exceptions see Krause and Van Thiel 2019; Verhoest et al. 2010; Voorn, Borst, and Blom 2020), and none of these provide direct comparisons of managerial autonomy in private, public and hybrid contexts.

This caveat is somewhat surprising as more general studies comparing public and private organizations mostly seem to conclude that public organizations represent a context imposing stronger constraints on managers than private organizations (Andrews, Boyne, and Walker 2011; Andrews and Esteve 2015; Boyne 2002; Pollitt 2013; Rainey 1989, 2014). These studies conclude, although not always supported by solid empirical evidence, that public organizations are more formalized and bureaucratic, more centralized, have more ambiguous goals and are more professionalized. At least three of these contextual elements are usually regarded as representing barriers to leadership, either in the sense that they neutralize, or function as a substitute for, leadership (Jermier and Kerr 1997). Even if these comparative studies conclude that the room for leadership and managerial discretion is more limited in public than in private organizations, no studies have investigated this directly.

Moreover, corporatization is one important key to understand the blurring of the distinction between the public and the private. While some elements like increased regulation of markets and businesses may have made private organizations more exposed to political authority and thus becoming more "public," corporatization exposes public organizations stronger to the economic authority of the market by introducing private sector mechanisms like performance measures, pay-per-produced unit, and competition (Bosetzky 1980; Christensen and Laegreid 2011; Desmarais and de Chatillon 2010; Emery and Giauque 2005; Hall, Miller, and Millar 2016; Morales, Wittek, and Heyse 2013; Pollitt 2001; Pollitt and Bouckaert 2011; Poole, Mansfield, and Gould-Williams 2006). Corporatization has resulted in hybrid organizations that combine public sector characteristics like public ownership with private sector characteristics like competition and market-based income (Bozeman 2013; Emery and Giauque 2005). As noted in the first paragraph, one of the main arguments behind the creation of such hybrid organizational forms has been to increase managerial autonomy. Still, empirical studies comparing managerial autonomy



in hybrid organizations, with managerial autonomy in private and public organizations simply do not exist. Thus, we pose the following research question: Is perceived managerial autonomy greater in private and hybrid organizations than in public organizations?

The study contributes to our knowledge of management in public organizations on three specific areas. First, it is a unique test of whether managers in public organizations themselves perceive less autonomy than their colleagues in private and hybrid organizations. By doing so, we follow the advice to study "the perceptual nature of autonomy" (Maggetti and Verhoest 2014, 245). Using the classic concept of job autonomy (Hackman and Oldham 1980), we also extend the study of autonomy to how individual managers perceive their possibilities to prioritize between tasks and ways of doing them. Second, the study also scrutinizes possible mechanisms through which organizational form is assumed to affect managerial autonomy. More specifically it focuses on how organizational characteristics-perceived formalization and professionalization—that are assumed to vary significantly between public, hybrid, and private organizations, constrain managerial autonomy (Andrews, Boyne, and Walker 2011; Rainey 1989, 2014). Finally, the study, representing a national probability sample of public, private and hybrid organizations, incorporates important confounding variables—mainly size (number of employees) and task (technology)—missing from many other comparisons of public and private organizations, thus lowering the risk of reporting spurious relationships (Boyne 2002; Rainey 2011).

Managerial autonomy—the impact of institutional context

Focusing on managerial autonomy implies a focus on the freedom an individual manager within an organizational and institutional context has to make choices without conferring with others (Bezes and Jeannot 2018). It is thus different from organizational or institutional autonomy, defined as "[...] the degree to which sets of specialized corporate actors are structurally and symbolically independent of other sets of corporate actors" (Abrutyn 2009, 461; Olsen 2009). Institutional autonomy is, however, linked to individual managerial autonomy, as the institutional context will constitute what room a manager has for discretionary decisions.

Managerial autonomy can again be split into several subtypes. Verhoest et al. (2010) distinguish between financial, Human Resource Management (HRM), and policy autonomy. Krause and Van Thiel (2019) measure four: HRM, business, pricing and strategic. Hansen and Villadsen (2010) distinguish between job autonomy, organizational autonomy, and decision autonomy. This study focuses on perceived job autonomy, more specifically managers' perceived freedom to prioritize between tasks and decide on how and when they should be performed, and thus the degree to which a manager must confer with others in making decisions (Nutt and Backoff 1993).

Institutional and organizational contexts will always represent constraints on managers, even at the top management level (Yukl 2013, chapter 2). The more constraints imposed on the manager in her or his position, the less autonomy and consequently less job autonomy at the individual level. It seems to be a general assumption that the context of a public organization provides less room for managerial discretion than that of a private organization (Meier and O'Toole 2011; Nutt 2000; Rainey 2014; Scott and Falcone 1998; Williamson 2011). Managers who have worked in both private and public organizations tend to report stronger constraints on their behavior in the public sector (see Rainey 2014, 364). In their study of public and private managers, Poole, Mansfield, and Gould-Williams (2006, 1065) find that managers in public organizations report less "scope for managerial action and initiative" than their colleagues in the private sector. However, findings are not clear, and a study of Danish managers (Hansen and Villadsen 2010) reports a contrasting finding where managers in public organizations in fact report higher job autonomy than private sector managers.

All studies referred to above are based on a dichotomous distinction between the public and the private sector, ignoring the fact that the two sectors encompass a wide variety of organizational forms (Andersen 2010; Desmarais and de Chatillon 2010). Some of these forms can be labeled as "hybrids," as they combine two or more institutional logics, or "[...] taken-forgranted social prescriptions that represent shared understandings of what constitutes legitimate goals and how they may be pursued" (Battilana and Dorado 2010, 1420). Examples may include combinations of nonprofit with for-profit organizations (Doherty, Haugh, and Lyon 2014), public organizations and voluntary sector (Edelenbos, Van Buuren, and Klijn 2013), or—as the focus in this study—a mix of public and private sector logics (Bruton, Peng, Ahlstrom, Stan, and Xu 2015).

"Corporatization" represents a hybridization as it combines the logics of public sector ownership with the market logic of the private sector (Andrews et al. 2020). One common form is public company, an organization that is fully owned by a public institution (either state, regional, local, or intermunicipal), but still strongly exposed to market mechanisms as most or all the organization's income is expected to be generated through sales of goods and/or services. Such companies are mostly regulated by specific laws. Another common form is shared ownership, organizations regarded as private (for instance banks or producers of energy or transport) and being subjects to private law (joint stock company), but partly owned by public institutions. Representatives of public institutions are thus represented in the governing organs (i.e., boards as most of them are shareholder companies), reflecting their ownership share, while income is generated through the market. These are organizations that must balance and combine two logics: on the one hand as a provider of a central public service and thus of public value, while on the other hand complying with the market logic of sales, competition, and income generation.

One main reason for corporatization is to create an organizational context that creates space for more managerial autonomy (Andrews et al. 2020), as the focus is set less on the daily activities of the manager, but rather on the results and outcomes (Wynen et al. 2014). Still, corporatized companies will be subjects to political control, so one may reasonably assume that managerial job autonomy will be somewhat lower in these types of organizations compared to purely privately owned companies. This leads to the first hypothesis:

H1: Compared to private and corporatized organizations, perceived managerial job autonomy will be lower in public organizations.

Just stating that managerial autonomy is lower in public than in private and corporatized organizations do not say much about what mechanisms—beyond that of political control—that affect leader autonomy. Two such mechanisms, often discussed in literature on differences between public and private organizations, are formalization and professionalization (Rainey 2011).

Formalization

The probably most assumed structural characteristic of public organizations constraining managerial autonomy is the number of rules regulating work in the organization, somewhat interchangeably called bureaucratization or formalization (Boyne 2002; Feeney and Rainey 2010; Holdaway et al. 1975; Rainey 2014; Rainey and Chun 2005). The basic element of formalization is "[...] how many written rules are in existence" (Kaufmann and Feeney 2012, 1197), or—as Mintzberg (1979) coins it—"standardization of behavior." Indeed, the whole idea of formal rules is to limit discretion to produce as predictable processes, outputs, and outcomes as possible (Reimann 1973; Whitford 2002). Formalization is a structural element that will limit a manager's job autonomy. In the leadership literature, formalization has even been labeled a "substitute for leadership" as it tends "[...] to negate the leader's ability to either improve or impair subordinate satisfaction and performance" (Kerr and Jermier 1978, 377).

Although formalization is a phenomenon occurring in all organizations (Meyer 1987), there are several arguments for a higher degree of formalization of public organizations. Order,

stability, and predictability are basic requirements for a legitimate "rule of law" (Terry 2003; March and Olsen 1989). One of Max Weber's main arguments for bureaucracy was that it was important to limit the discretionary power of bureaucrats in the sense that all decisions should be grounded in a set of written, formal rules. Furthermore, it is essential to a democracy that elected representative can be held accountable to the public. As many of the decisions made within the public sector concern areas and tasks where it is difficult to establish clear means-ends-connections, output accountability is complicated. Thus, process and input accountability must be vied more attention. On the one hand, this will put stronger requirements on openness, and procedures for documenting how tasks have been performed. All this will require elaborate sets of rules for guaranteeing openness and documentation. On the input side, stronger demands are set on how personnel is selected and promoted than is the case of business organizations (Chen and Rainey 2014; Zibarras and Woods 2010). Thus, one should expect public organizations to be more formalized than private ones (Bozeman, Reed, and Scott 1992; Chen 2012; Rainey 2014).

A few large surveys (i.e., Marsden, Cook, and Kalleberg 1994) tend to support the notion that public organizations are more formalized than private organizations. Formalization may thus function as a mediator between organizational form—public, private, hybrid—and managerial job autonomy, leading us to formulate the following three hypotheses:

H2a: Compared to private and corporatized organizations, formalization will be stronger in pure public organizations.

H2b: The stronger the formalization, the lower the managerial job autonomy.

H2c: Formalization will mediate a negative indirect effect from pure public organization to managerial job autonomy.

Professionalization

A second characteristic distinguishing public organizations from private organizations is to what degree employees are professionalized. A professional is here defined as a person with a specific skill acquired through higher education and formal training, qualifying the person to enter a specific position (Abbott 1988; Ritzer 1975). In their daily work, professionals will evaluate their work according to standards elaborated by the profession rather than the organization. Their ability to analyze and diagnose complex problems, and to make inferences and suggest practical action (treatment) give them control over day-to-day decision making, and consequently over defining the quality of work (Dickinson et al. 2017).

Professionalization of public organizations is tightly linked to the tasks defined to the public sphere. Some goods—collective goods—will not necessarily be produced in a market. Examples are general courts, military defence, police, and administration of common resources like nature and water. Most of these tasks are regulatory tasks, a fact mirrored in early professionalization being intimately linked to the legal profession (Ritzer 1975). Less obvious than collective goods, is the phenomenon of merit goods, or goods that the market will produce, but where other considerations—usually distributive effects—result in situating the task in the public sector. Examples of this could be general schooling and health services. These tasks are highly professionalized as they are staffed by highly educated teachers, doctors or nurses, all prominent examples of modern-day public service professions (DiPrete 1987; Larson 1977).

Professionalization is tightly linked to autonomy, and thus to a possible conflict between employees claiming professional freedom and managers representing hierarchical control (Freidson 1970; Leicht and Fennell 1997). While managers are responsible for the overall results and use of resources in the organization or the organizational unit, professionals will more likely devote their loyalty to professional standards and the well-being of clients. Leading professionals is thus a challenging task (Mintzberg 1979), as they are difficult to monitor and control due to

the complexity of their work, and the professionals' superior knowledge of how to perform it. Most studies of professional organizations end up with the conclusion that professionalization of employees limits the discretionary autonomy of formal, hierarchical leaders (Abbott 1988; Currie and Procter 2005; de Bruijn 2011; Empson 2017; Evans 2011; Mintzberg 1998; Raelin 1989). Kerr and Jermier (1978) file professionalization as a substitute for leadership that will neutralize most leader activities vis-à-vis their professional employees (see also Podsakoff et al. 1993; Yu-Chi 2010). As it is assumed that public organization will be associated with higher professionalization, one may also expect stronger limitation on managerial autonomy in public organizations. Even though the argument above is rather crude, and managerial loss of job autonomy through professionalized staff will surely depend on the professional level of the manager (Hwang and Powell 2009) and on the type of profession, we propose the following three hypotheses:

H3a: Compared to private and corporatized organizations, professionalization will be stronger in pure public organizations.

H3b: The stronger the professionalization among employees, the lower the managerial job autonomy.

H3c: Professionalization will mediate a negative indirect effect from pure public organization to managerial job autonomy.

Confounders—size, task, and hierarchical level

Several factors other than sector may be correlated to both managerial autonomy and organizational form, increasing the danger of establishing spurious relationships (Andrews, Boyne, and Walker 2011). In most countries, public organizations are assigned specific tasks, either because of market failures or political decisions (merit goods) (Pesch 2008), making it difficult to isolate the effect of organizational form. For instance, in Norway and many other countries, basic schooling, health services and social services are carried out almost completely by public organizations. Thus, the visible differences in organizational form—i.e., funding and ownership—may only reflect differences in tasks and their technology. A classic argument from contingency theory (Donaldson 2001) is that structure will be formed by task in the sense that task uncertainty and complexity will correlate with both formalization and professionalization. Thus, in this study, we open for the possibility that organizational form as well as formalization and professionalization will vary systematically with the task of the organization.

Second, there is the challenge of organizational size. In his much-cited review of differences between public and private organizations, Boyne (2002, 109) airs the worry that "[...] doubts remain about the relative bureaucratization of the two sectors. Furthermore, a shadow is cast over much of the evidence by the failure to include statistical controls for organizational size. If public agencies tend to be larger than private firms, then the correlations between organizational form and bureaucracy may be spurious." As noted by Boyne, several empirical studies support the notion that size—defined as number of employees in the organization—is strongly and positively correlated with formalization (Donaldson 2001; Donaldson and Luo 2014; Rutherford 2016).

Third, as there are differences in size between organizations, one should also expect differences in hierarchical differentiation within each organization. As it is highly likely that job autonomy will differ between hierarchical levels (Psychogios, Wilkinson, and Szamosi 2009), we also control for managerial level.

The empirical study

A survey was distributed on behalf of the Norwegian School of Economics by the market research firm Synovate (now Ipsos) to 4108 leaders in Norwegian organizations with more than ten employees, representing 1716 different organizations during the spring of 2013. Starting with a

Table 1. Description of	organizational forms	and response rates.

	Legal form(s)	No of organizations	No of respondents	Response rate respondents (subsample)	Response rate respondents (total sample)
Privately owned	Limited company, personally owned business (1 or more owners)	984	1469	71	59
Shared ownership	Limited company	116	179	69	7
Publicly company	State company, municipal company, intermunicipal company	135	227	72	9
Public organization	State, county, municipal, intermunicipal	481	613	73	25
Total		1716	2488	71	100

population list of all registered organizations in Norway, the sample was stratified proportionally according to business and size. All selected organizations were contacted by telephone, and the questionnaire was distributed in paper form to all persons defined as managers by the organization itself (usually all those with personnel responsibility). No incentives were provided. Two follow ups were conducted, the first by mail, the second by phone. A total of 2910 responded (response rate 71%). Managers of trade associations, voluntary organizations and foundations were discarded from this analysis, leaving a total of 2488 respondents. As this is a study comparing perceived individual managerial autonomy between sectorial contexts, four broad types of organizations were defined: (1) privately owned businesses, (2) shared ownership (both private and public sector owners), (3) public companies, and (4) publicly owned and financed organizations. Table 1 displays more detailed information about these organizational forms.

The representation of organizations from the four types is very close to the distribution in the Norwegian population of registered organizations. There are no large biases in the response rates across hierarchical levels (top managers = 72, other managers = 70) or gender. There is some variation in response rates between businesses (ranging from 63 in building and construction to 86 in education), but still not to the extent that any types of businesses are missing from the analysis. The coverage error, sampling error and nonresponse error seem to be small, justifying a conclusion that this is a highly representative sample of Norwegian managers. 47% of the organizations are represented by one top manager only, 15% by two managers, another 12% by 3-4 managers, and the rest (26%) by more than 5 managers. The sample thus consists partly of multilevel data with individual managers embedded in organizations. It is a weakness that almost half of the organizations in the study are represented by only one respondent, so it was decided to run two analyses: one on the full sample, and one of the sub-sample of organization represented by two or more managers (Wagner, Rau, and Lindemann 2010).

This study is based on measures of the perceived job autonomy of a leader (Boon and Wynen 2017). In general, job autonomy can be defined as independence "[...] in formulating tasks or in carrying through courses of actions." (Dill 1958, 411). This definition is close to a highly validated measurement instrument on job autonomy elaborated by Hackman and Oldham (1980), used in the Danish study by Hansen and Villadsen (2010). This is a scale consisting of three items: (1) "In my job I can choose which tasks to conduct," (2) "In my job I can choose the way to do tasks independently of others," and (3) "In my job I can act independently of others."

Five items were used to measure formalization: (1) "This organization has a large number of written rules and procedures," (2) "A manual with rules and procedures exist and is easily accessible," (3) "There are complete descriptions for all positions in this organization," (4) "The organization has a written document for performance of almost all employees," and (5) "There is a formally organized introduction program for all newcomers in the organization." All items

measuring formalization and job autonomy had response alternatives ranging from 1 (totally disagree) to 5 (totally agree). Degree of professionalization was measured through the question 'Approximately how large a proportion of your employees have higher academic education' and is measured in per cent (M=38.7, STD =38.8). Even though this is far from a perfect measure of professionalization, it contains what most studies highlight as one of the main characteristics, namely "higher academic education" (Abbott 1988; Hwang and Powell 2009). Table 1 also shows that this item is correlating as expected with task or technology (for instance significantly and negatively for tasks like agriculture, industry, and construction where we would expect low professionalization, and positive for financial services, education, and health service where we would expect high professionalization), indicating a predictive validity for the measure of professionalization. The same can be said for measures on formalization as it is significantly correlated with sectors where we would expect so (positively with energy, industry, and health, and negative in for instance higher education).

As indicators of formalization and managerial autonomy are reflective composites originating from the same source, common method bias may be threat to the reliability of the findings. Several steps were taken to reduce this problem, following the advice of Jakobsen and Jensen (2015). Overall, several measures were taken ex-ante, during the design of the questionnaire to separate the two conceptually different items empirically. First, the items used are mainly descriptive, reducing the risk of social desirability responses. Second, items refer explicitly to different contexts ("my job" versus "this organization") so that the respondent was provided with clearly different clues to what the items were supposed to measure. Third, items tapping the two constructs were widely separated in the questionnaire. In the extensive questionnaire, items measuring formalization were placed in section 22 while items measuring autonomy were placed in section 51. This assures that responses were given with a substantial time lag between them. We also conducted several empirical tests ex-post. First, we conducted a Harman's single factor test for common method variance. The one-factor solution explained 35% of the variation, well below the 50% threshold often applied. In addition, we conducted a confirmatory factor analysis with the two reflective scales (formalization and job autonomy), resulting in a rather good model fit (RMSEA = .073, CFI = .936, SRMR = .035). Second, a marker variable approach was used (Lindell and Whitney 2001). Four items measuring prosocial motivation occurred in between the items measuring formalization and autonomy. As prosocial motivation is an individual-level characteristic, it is theoretically and conceptually unrelated to organization characteristics like formalization and autonomy. The scale measuring prosocial motivation showed good internal consistency (alpha = .86, see Jacobsen 2021). The zero-order correlations between the scale measuring prosocial motivation, and the scales measuring formalization and autonomy were respectively .01 and -.05, none of them significant at the -05-level. As noted by Lindell and Whitney (2001, 115), "the smallest correlation among the manifest variables provides a reasonable proxy for CMV (common method variance)," again indicating low CMV in this dataset. Finally, as noted above, the measures on formalization and autonomy differ significantly on their zero-order correlations with sector/industry where data is collected from another source. If there was a clear CMV in the data, the correlations should have displayed a higher degree of similarity. Although these tests never can be a guarantee against common factors, the results indicate that the two phenomena are empirically distinct from each other.

Task/technology was controlled for using the sectorial categorization utilized by the national statistical bureau. Agriculture/forestry/primary goods were selected as base category. We also split health institutions (hospitals) from social services and institutions for care to account for different professional composition of staff. A similar split was made between basic (primary and secondary) education and higher education (universities/colleges), again based on the notion of different professionalization. Organizational size was measured through the number of employees (full time equivalents from public register data). Since there are relatively many small organizations in



Norway, particularly among purely private firms, size was logarithmically transformed (M = 4.7, STD = 1.8). Hierarchical level of the manager was measured on two levels: 1 = top manager, 0 = lower-level managers.

Analysis

First, zero-order correlations between the variables were estimated to check for possibilities of collinearity. None of the correlations are so high as to fear for collinearity (highest Pearson's r = 0.53) (full bivariate correlations between control variables are available on request to the author).

Second, to investigate the possibility of nested data (managers within organizations within businesses), a three-level hierarchical linear regression analysis was conducted. First, principal component factor analysis (orthogonal varimax rotation) on the eight items intended to measure formalization and autonomy resulted in two factors with Eigenvalues higher than 1 with the items scoring as expected (factor loadings between .67 and .85). The factor (regression) scores were used as indicators on job autonomy and formalization in the multilevel regression. The intraclass correlation (ICC) at the organization level was 0.025, and not significant (confidence interval at 5%-level overlapping zero), while the ICC at business level was 0.05. The results indicate that a two or three level model will yield little extra to a simpler one-level model controlling for business level characteristics (task/technology). It furthermore specifies that the data show results for individual managers in an organizational context more than organizations. A confirmatory factor analysis (CFA) was conducted to test the validity of the measurement of the two latent variables "formalization" (originally five items) and "autonomy" (three items). Comparing different models resulted in a reduction of items to measure formalization to three (items (2), (3) and (4) described in the methods section), as this yielded the model with the best fit (RMSA = 0.024, CFI = 0.99, SRMR = 0.020). Finally, to test the hypotheses, a structural equation model analysis (SEM) applying a gaussian distribution model was conducted using STATA 16.1 (Table 2). The model obtained very good fit indices (RMSA = 0.036, CFI = 0.936, SRMR = 0.020) even though the chi-square was highly significant, something very common with large samples.

To test the robustness of this model, three ordinary OLS regression analyses were conducted using the regression factor score for job autonomy as the dependent variable, yielding highly similar results to the ones estimated in the SEM. A similar analysis was conducted on a sub-sample of organizations represented by two or more managers (N = 2001, number of organizations = 807). The results were strikingly similar, with the same significant paths and a slightly worse, but still highly acceptable, model fit (RMSA = 0.028, CFI = 0.97, SRMR = 0.022). Figure 1 shows he final model with only significant paths (.05-level).

As there are no significant correlations between the two assumed mediating variables (professionalization and formalization) and the dependent variable (autonomy), there cannot be any indirect effects of organizational type (Hayes and Preacher 2014). Organizational type has a direct effect on managerial autonomy, in the sense that perceived autonomy decreases as one moves from the purely private organization via shared ownership to the purely public organizations. Thus, hypothesis H1 is mostly supported. The deviation here is public companies where mangers do not report less job autonomy than their colleagues in private organizations. As hypothesized in H3a, pure public organizations are far more professionalized than both hybrid and pure private organizations. More surprising is the finding that pure public organizations are less bureaucratized than private and hybrid organizations, thus not corroborating hypothesis H2a. Neither hypothesis H2b—that higher formalization is associated with lower autonomy, nor hypothesis H3b—that professionalization should be associated with lower autonomy, are supported by the data.

Table 2. Zero-order correlations (Pearson's r) between variables in the analysis.

	Υ	x1	X2	Х3	X4	X5	Х6	X7	X8
(Y) Managerial job autonomy									
(x1) Pure private	.14**								
(x2) Shared ownership	03	26**							
(x3) Public company	.00	29**	07**						
(x4) Pure public	17**		13**						
(x5) Formalization	06**	05*	.08**	.04*	04*				
(x6) Professionalization (% with high education)	05**	23**	.04	.03	.24**	.01			
(x7) Size (log)	08**	42**	.08**	.02	.32**	.24**	.20**		
(x8) Hierarchical level	.14**	.13**	03	02	12**	12**	.10**	23**	
(x9) Manager's level of education	05**	29**	.06**	.04**	.27**	09**	.44**	.17**	.12**

Table 2. (Continued).

	Υ	x1	x2	х3	х4	x5	х6	Х7	Х8	Х9
(x8) Primary goods/agriculture	.01	07**	04**	07**	14**	.07**	07**	.16**	03	10**
(x9) Oil, gas, energy	.01	05*	.15**	.27**	14**	.09**	.05**	.01	03	.04*
(x10) Industry/manufacturing	.06**	.25**	01	09**	21**	.04**	16**	04	02	15**
(x11) Building/construction	.03	.21**	05**	01	13**	04*	15**	10**	.05*	11**
(x12) Transport, post, telecom	.00	04*	01	.12**	06**	.03	04*	.07**	03	06**
(x13) Financial services	.00	.02	.15**	.00	10**	.11**	.11**	01	05*	.07**
(x14) Education	11**	18**	10**	07**	.53**	13**	.25**	.11**	00	.20**
(x15) Health services	09**	18**	06**	.00	.27**	.05**	.06**	.10**	10**	.07**
(x16) Trade/hotel/tourism	.08**	.23**	05**	07**	15**	02	15**	15**	.10**	17**
(x17) Other services	.03	.05*	.00	.02	08**	12**	.05**	18**	.08**	01

N = 2488.

^{*}Sig le .05, **Sig le .01.

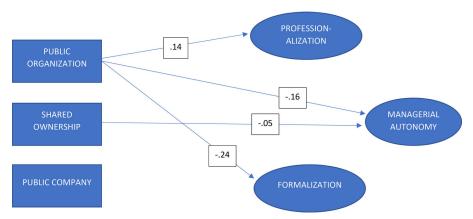


Figure 1. Path diagram showing direct and indirect effects on organizational form on perceived managerial autonomy. Standardized coefficients. Only paths significant at the .05 level or lower are displayed. Effects of control variables omitted.

The multivariate analysis indicates that the best predictor of formalization is organizational size, in addition to what type of task or technology that is performed in the organization. Professionalization, on the other hand, is best predicted by task or technology.

Discussion

Given that job autonomy—the freedom to choose tasks and procedures without conferring with others—is an important element in managerial autonomy, this study supports the general idea that managers in public organizations feel more constrained than their counterparts in private



Table 3. Results from structural equation modeling (SEM). Reference category organization type = Pure private company. N = 2488. Standardized coefficients.

Dependent variables→	FORMALIZATION	PROFESSIONALIZATION	AUTONOMY
Shared ownership	01	02	05**
Public company	04	.02	02
Public organization	24**	.14**	16**
Oil, gas, energy	.08**	.07**	.02
Industry/manufacturing	.07**	08**	.03
Building/construction	.03	08**	.01
Trade/hotel/tourism	.04	09**	.05*
Transport, post, telecom	.04	04**	.01
Financial services	.10**	.12**	.01
Education	08**	.17**	.01
Health services	.10**	.01	03
Size (log)	.28**	.12**	01
Hierarchical level	04	.13**	.11**
Bureaucratization			02
Professionalization			03

^{*}Sig le .05, **Sig le .01.

organizations. This is the case even when controlling for size and task, elements that have been largely missing from previous studies on the topic (Boyne 2002). Thus, hypothesis 1 is clearly corroborated through this study, supporting the general assumptions made in theory and previous studies (Andrews, Boyne, and Walker 2011; Andrews and Esteve 2015; Boyne 2002; Pollitt 2013; Rainey 1989, 2014). However, it stands in contrast to the relative recent findings presented by Hansen and Villadsen (2010) in a Danish study, reporting higher job autonomy for public than private managers. That study did not, however, distinguish between public and hybrid organizations, and does not control for size and task. The current study clearly shows the importance of including these variables in a comparison of managerial job autonomy between public and private organizations (see Boyne 2002, for a similar argument).

Furthermore, the findings in this study support the notion that a public company context is associated with higher managerial autonomy, not significantly different to the one reported by managers in private organizations. Somewhat more surprising is the finding that managers in companies with shared ownership perceive lower job autonomy than those in private companies, many of them sharing the same legal organizational form (limited company). One explanation may by the "double standards" possibly imposed on managers by having two different types of owners with potentially different interests, values, and preferences. Such diverse ownership may actualize a "multiple principle" problem, resulting in complex governance systems aimed at satisfying quite different objectives (Voorn, Genugten, and Thiel 2019). The outcome may be conflicting signals from owners putting more restrictions on managers in such organizations.

Quite unexpected is the finding that professionalization measured through the number of employees with higher education in public organizations is not an element reducing perceived managerial job autonomy. The hypotheses in this study regarding professionalization and managerial autonomy are clearly derived from a conflictual perspective in the sense that they presuppose a conflict situation between managers and professionals (Scott 2008; Thomas and Hewitt 2011). In this perspective, a conflict between different logics—managerialism based on organizational logics rooted in performance and efficiency versus professionalism grounded in specialized knowledge on performance of a specific task—is assumed (Noordegraaf 2011). In contrast to such a conflictual perspective stands a perspective based on discourse and cooperation between managers and professionals where they seek understanding of each other's positions, working to find a common ground to be able to cooperate in a way that is fruitful for both the profession and the organization (Liewellyn 2001). A conflictual view also overlooks the fact that many managers in professional organizations are professionals themselves (Farrell and Morris 2003; Hwang and Powell 2009), thus possessing enough knowledge of employees' work necessary to overlook and control it. All in all, one should probably not overestimate the role of professionals in limiting the manager's autonomy.

Another surprise is that formalization is not significantly related to lower managerial job autonomy. One explanation for this may be that the focus in this study is on individual managerial job autonomy, while the questions concerning formalization address the organizational level. Formalization is commonly strongest at the operative levels of the organization as a mean to regulate production processes, and to a lesser degree managers' jobs (Mintzberg 1979, 92). Consequently, organizational formalization may not impact on managerial autonomy, but rather on lower-level employees' autonomy. This interpretation is partly supported by the fact that the perception of formalization in this study is negative correlated to hierarchical level of the manager.

The most surprising finding is that purely public organizations are not more formalized than private organizations as other studies have led us to assume (Boyne 2002; Rainey 2014). On the contrary, they are—in general—less formalized. This result holds even when controlling for other important confounders known to correlate with formalization from several previous studies: size and task (technology) (Andrews, Boyne, and Mostafa 2017). Although a bit peripheral to the initial research question of the project, this finding deserves a thorough reflection. When the term "public organization" is used, one usually thinks of organizational units placed close—both formally and geographically-to political entities like cabinets, parliaments, and councils. This has also been the empirical objects in several studies concluding with higher formalization in the public sector (Feeney and Rainey 2010; Rainey and Chun 2005). But, as discussed earlier in this article, autonomy varies largely between different organizations within the "purely" public sector. Agencification—i.e., the establishment of semi-autonomous units, often regulated by specific laws and having their own boards—is a trend that probably has increased the variation in organizational autonomy within the public sector (Krause and Van Thiel 2019; Maggetti and Verhoest 2014; Verhoest et al. 2010). If the public sector is extended—as it is in this study—to service providing organizations, the public sector will include schools, hospitals, institutions for the elderly, research institutes, universities and colleges, libraries, and theaters. Many of these organizations are quite far removed from direct, daily political influence, and they work with tasks that are hard to standardize and thus to bureaucratize. In Mintzberg's (1979) terms, many organizations in the public sector will probably more resemble professional bureaucracies—even perhaps adhocracies—than machine bureaucracies on which the classic notions of bureaucracy rest.

Another explanation may be due to systematic differences between managers applying for and getting selected to managerial positions in public and private organizations (Kjeldsen and Jacobsen 2013, Jacobsen 2021). Combined with empirical findings that perceived and factual organizational traits may be weakly correlated (Kaufmann and Feeney 2012), there is a possibility that managers in public organizations have a higher tolerance for rules and regulations than those in private organizations. A consequence may be reporting less formalization than what may be the "objective" situation. This may also explain, at least partly, the missing link between formalization and autonomy. If this is the case, studies using objective indicators of formalizations should be used in comparisons between public, hybrid, and private organizations. Given the scarce, almost non-existent, empirical studies comparing private and public organizations and controlling for (at least) size and task, one should be open for the possibility that the general picture of public organizations as more formalized and bureaucratized is just based on a myth.

The empirical analysis also indicates that the main task or technology of the organization, in addition to size, is probably the most important factor for explaining formalization. First, the analysis shows that the financial sector and industry/manufacturing—two sectors with tasks that are quite possible to standardize (and digitalize)—are by far the most bureaucratic. In addition, formalization is strong in the oil and energy sector, something that quite easily can be explained by strict standards for security. An oil "blow-out" or water dam collapse will have extreme



consequences, and thus requires strict regimes for security and control, usually in the form of elaborated rules, routines, and standard procedures. Although these explanations are linked to variables that are controlled for in the study, they are important in understanding the enormous variation of organizations that we find with both the public and the private sectors (Desmarais and de Chatillon 2010). A rather obvious conclusion from this study is that studies of formalization at least should take into consideration the effects of size and task/technology.

Future studies comparing managerial job autonomy across private, public and hybrid organizations should search for other mechanisms that may mediate the effect of context on autonomy. One possible element often thought to distinguish between public and private organizations, is the degree of goal ambiguity (Rainey and Jung 2015). Another element worth of study is centralization, as public organizations may be more centralized (Boyne 2002). A third element is the amount of stakeholders managers must take into consideration when making decisions, as it is commonly assumed that managers in purely public organization must confer with a significantly larger group of stakeholders than what is the case in private organizations (Perry and Rainey 1988). Surely other elements should be included to understand why the context of purely public organizations seems to produce lower managerial autonomy. Furthermore, different types of autonomy, for instance to recruit personnel, to make strategic decisions, and freedom to prioritize within budgetary frames, should become object to empirical studies as well, constructing a more detailed picture of similarities and differences between managing in different organizational contexts.

Notes on contributor

Dag Ingvar Jacobsen is a professor of political science and management at Agder University (Kristiansand, Norway). He has worked extensively on relations between politics and administration, leadership in public organizations, as well as organizational change. He is currently involved in studying both operative and democratic effects of inter-municipal cooperation.

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