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A review of the outcomes from contracting out urban green space maintenance

What we know, don't know and should know

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1	A review of the outcomes from contracting out urban green
2	space maintenance: What we know, don't know and should
3	know
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14 Abstract

15 Private delivery, i.e. contracting out, of maintenance services in urban parks and green 16 spaces has since the 1980s been spurred by neoliberal reform promises of improved 17 performance. This article contributes to discussions of whether contracting out park and 18 green space maintenance services is a well-performing alternative by evaluating what is 19 known – and not known – about the outcomes in a narrative review of thirteen studies 20 bridging experiences from four decades and three country contexts. It is found that the 21 balance of reported economic and managerial outcomes mostly are on the positive side 22 while the balance of reported outcomes related to service quality and staff are found to 23 be on the negative side. Findings indicate that reforms have partly delivered on their 24 promises. However, the reviewed studies are found to be dominated by evaluations 25 based on governing values inherent in neoliberal management reforms rather than 26 alternative management paradigms, rely on older data from a limited number of country 27 contexts, and lack an accumulated understanding of explanation of outcomes. Finally, 28 the reviewed studies pay little or no attention to the details of the development of 29 different contracting and organizational models within contemporary urban green space 30 management. Future research can expand further on what is known by addressing these 31 key caveats.

32

33 Keywords

34 Contracting out; green spaces; maintenance; management; narrative review; parks;
35 performance

36 Introduction

37 One profound change within local governments' delivery of maintenance services in 38 urban parks and green spaces in many countries in the last four decades is a shift toward 39 greater reliance on private contractors - a shift that simultaneously has challenged and 40 reduced public authorities' reliance on in-house provision (Jones, 2000; Lindholst, 41 2009; Nuppenau, 2009). In a global perspective, the increased reliance on private 42 contractors in the public sector is one tangible result from the last four decades' reform 43 push promoting new organizational and managerial instruments and values based on a 44 neoliberal belief in 'markets' as superior mechanisms for improving the performance of 45 service delivery (Pollitt and Bouckaert, 2011; Hansen and Lindholst, 2016).

46 Evaluations of whether the promises of neoliberal beliefs have been fulfilled as 47 well as what the broader outcomes are from the increased reliance on private contractors 48 for delivery of maintenance services in urban parks and green spaces have been covered 49 by a small number of studies over the years. The studies have within perspectives 50 confined to a single country context and particular time periods provided either 'narrow' 51 evaluations of a particular outcome such as difference in expenditure levels (e.g. Jang, 52 2006) or provided more rounded narratives reporting on a broader set of experiences 53 and outcomes (e.g. Jones, 2000). However, no research has in a cross-national 54 perspective within the context of urban green space management gauged what is 55 hitherto known - and not known - about the outcomes for service delivery from the 56 increased reliance on private contractors.

57 With the aim of illuminating this 'grander puzzle', this article provides a review 58 of internationally available studies reporting on outcomes from public authorities' use 59 of contracting out for delivery of maintenance services in urban parks and green spaces

60 - a practice that critically has changed who carries out maintenance services in urban 61 parks and green spaces. The key research question addressed in the article is: what is 62 known (and not known) in a cross-national perspective about the outcomes for service 63 delivery from contracting out maintenance services in urban parks and green spaces. 64 To address the research question, the article first provides an introductory theoretical 65 overview and discussion of the idea of using contracting out in the public sector for 66 improving performance, secondly it identifies and review altogether 13 internationally 67 available studies reporting on outcomes from contracting out maintenance services in 68 urban parks and green spaces, thirdly it discusses the findings on outcomes against 69 theory, and fourthly it extrapolates from the findings in the review and pinpoints key 70 knowledge gaps which should be addressed in future research. The remainder of the 71 article is structured into four main sections: 'Theories on contracting out,' 'Methods and materials,' 'Review of evidence,' 'Discussions,' and 'Conclusions.' 72

73

74 **Theories on contracting out**

75 The idea or prescription that private contractors should be systematically involved in 76 public service delivery with the purpose of improving public sector performance is 77 associated with the rise of public reforms from the 1970s and onward subsumed under 78 the heading of 'new public management' (NPM) (Hood, 1995). As part of its core 79 values, the NPM has ingrained the wider neoliberal belief that various 'market-like' 80 mechanisms, such as competition, free choice or benchmarking, are superior for 81 coordinating and organizing public activities (Hansen and Lindholst, 2016). The belief 82 has been backed by theoretical arguments on the private sector's comparative ability to 83 operate more cost-effectively than the public sector due to stronger competitive and

84 (profit-based) economic incentives to innovate and bring down operational costs 85 (Boyne, 1998). Congruently, private contractors have become involved in public service 86 delivery through a 'competition model' for contracting public services (Dehoog, 1990). 87 In this model, a government is ideally able to specify a service in a formal contract and 88 through a process of competitive tendering with participation of several potential 89 providers – public as well as private – contract with the provider that promises to 90 deliver services at the lowest cost. The model requires (as a minimum) that a 91 government can spur competition among several qualified providers, has a capacity for 92 managing and monitoring contracting processes, and can be relatively certain regarding 93 future funding levels, service needs and service technology. The value of linking a 94 highly specified set of services with fixed ex ante pricing in a contract will tend to 95 diminish if change later occurs in, for example, user patterns or planning objectives. The remedy in many green space maintenance contracts has been to build in a degree of 96 97 flexibility (Lindholst, 2009). However, in theory, this approach runs counter to the basic 98 logic of the low cost-focus inherent in the competition model.

99 Using markets and contract-based exchange furthermore involves 'transaction 100 costs' for activities ensuring that received values in an exchange relation match 101 expected values (Ouchi, 1980). These costs include various activities related to 102 planning, formation and monitoring of service delivery (by contracts). Ultimately, 103 transaction costs need to be compared across available alternatives for organizing 104 service delivery. In other words, assessment of the most cost-efficient arrangement for 105 service delivery requires comparison of the transaction costs associated with each 106 alternative (Williamson, 1991). However, calculations of comparative transaction costs 107 are notoriously difficult and seldom fully accounted for in studies of economic

108 outcomes from contracting out (Petersen et al., 2017). Hodge (2000) projected that 109 transaction costs associated with contracting out reduced average cost savings by around two percentage points. In addition to transaction costs, contracting out may also 110 111 result in cost shifts and 'quasi-market failures' within the public sector where, for 112 example, reduced operational expenditures from staff lay-offs or higher productivity 113 associated with contracting out incur increased expenditures on health and social 114 welfare elsewhere or years later in the public sector (Boyne 1998). Several other issues 115 can also be associated with the use of the competition model for service contracting. 116 Kettl (2010), for example, elaborated on various 'governance failures', such as lack of 117 transparency in money flows, dependency on a single private contractor or lack of 118 internal contract management capacities, while the theory of 'incomplete contracts' 119 (Hart et al. 1997) highlights that competitive tendering increases providers' incentives 120 to offer low prices and/or reduce costs at the expense of quality in service delivery. 121 While the ideal case of the competition model seldom can be fully achieved in 122 practice it is an assumption that governments when possible at least will seek to 123 maximize economic efficiency in choosing among potential providers (Dehoog, 1990). 124 The competition model is usually expected to work better for some services than others. 125 Characteristics of parks and green space maintenance are in comparisons with other 126 public services commonly regarded as relatively well-suited for contracting out. A US 127 based study by Hefetz and Warner (2012), for example, found that contracting out of 128 park and landscape maintenance was characterized by higher competition levels, and 129 lower levels of contracting difficulties and investment requirements in comparison with 130 other municipal services. However, a relatively higher citizen interest in park services 131 indicated some caveats, as higher citizen interest is likely to require higher levels of

ongoing government coordination and control in order to ensure responsiveness toward community needs. Based on the comparative characteristics, it can be argued that the competitive model of contracting out can be expected to work relatively well for parks and green space maintenance services in relation to economic performance but less so in relation to other important aspects.

137 The competitive model of service contracting furthermore ingrains a distinct set 138 of governing values. The neoliberal belief in the market as a superior coordination 139 mechanism has through the NPM promoted core values in the public sector related to 140 competition, cost-effectiveness and productivity. Patterson and Pinch (1995), for 141 example, observed that the implementation of contracting out in the UK encompassed 142 an organizational shift toward 'strategic centralization and operational decentralization' 143 as well as a shift toward a business and commercial discourse focused on 'efficiency', 144 'performance targets' and 'consumer needs.' These values seem somehow odd or differ 145 from traditional bureaucratic values, such as legality and procedural fairness supporting 146 a 'public ethos', as well as governing values promoted in management paradigms in 147 newer reform trends such as involvement, deliberation and flexibility in decentralized 148 searches of 'public value' within networks of stakeholders (Hood, 1991; Stoker, 2006). 149 With the point of departure in alternative sets of governing values the performance of 150 contracting out can be judged very differently. For example, one longstanding criticism 151 in the literature of the competitive model of service contracting is the loss of democratic 152 deliberation and political control (Vincent-Jones, 2007) – or what have been called a 153 process of 'hollowing out of the state' (Rhodes, 1994). In the competition model private 154 contractors are intentionally engaged to deliver contracted services at the lowest 155 possible costs whereas in-house providers are directly governed by their political

156 constituencies within a hierarchical structure and can recurrently be required to serve 157 broader public purposes within a community or adapt to changing political preferences. It follows that service delivery through in-house organizations is governed by a 158 159 different – if not more complex – set of values than the values governing the use of 160 private contractors through a competition model. In the institutional literature on 161 economic organization the difference between organizing production through markets 162 ('buy') versus hierarchies ('make') has been analysed in terms of comparative benefits 163 and costs (Williamson 1991). In-house provision may have advantages such as greater 164 'allocative' efficiency (e.g. flexibility and ability to meet changing community needs 165 and user preferences) while contracting out may have the advantage in terms of greater 166 'technical' efficiency (plan and provide standard services at the lower cost).

167 The differences between in-house and market based approaches as well as how 168 contracting out is organized may, however, not be as clear cut as analytical models 169 suggest. New models for contracting out serving other purposes than cost-effectiveness 170 have been introduced through shifts in reform focus in some countries, such as the UK 171 (Boyne, 1999), as well as discussed more broadly as an international trend in the 172 literature (Entwistle and Martin, 2005; Vincent-Jones 2007, Donahue and Zeckhauser, 173 2006). The new models include various partnership and collaborative approaches 174 supporting objectives related to service development, public deliberation, flexibility and 175 transformation rather than mere cost concerns. The focus on new models has also been 176 reflected within urban green space management where alternative contractual 177 arrangements, incorporating partnership features in various degrees, have emerged since 178 the early 2000s (Lindholst, 2009).

The upshot is that evaluations of outcomes from contracting out can have points
of departure in very different sets of values which illuminate different comparative
advantages and disadvantages of various arrangements for service delivery – and very
different conclusions may arise from the chosen approach.

183

184 Methods and materials

185 Materials for the review were partly identified by a systematic key-word based search 186 on the web of science database and partly by 'show-balling' within two streams of 187 literature. Identified materials were first screened for any inclusion or reference to 188 maintenance services with relevance for urban green spaces, e.g. park or grounds 189 maintenance. Secondly, each title was reviewed for any reported evidence on outcomes 190 related to private provision of maintenance services. Thirdly, the originality and 191 credibility of the evidence were reviewed by assessment of methods and data supporting 192 any reported outcome. A few titles were excluded in the third stage due to either severe 193 methodological flaws (e.g. Greene, 1994) or a more commentary-oriented character of a 194 title (e.g. Hebbert, 2008). The final list of all relevant materials for the review included 195 13 titles.

The search in the web of science (within the social science and emerging
indices) used a syntax including: contract* OR privati* OR outsour* AND green* OR
park* OR ground* AND maintenance. The search generated 698 unique hits. Inspection
of titles and abstracts reduced the number of relevant titles to only three. In the showballing two streams of research were inspected. The first stream comprised reviews of
outcomes from contracting out in the public sector by Borcherding et al. (1982),
Donahue (1989), Hirsch (1995), Domberger (1997), Boyne (1998), Hodge (2000) and

Petersen et al. (2017). The second stream consisted of existing studies of contracting out
within park and green space management in local governments including titles by Jones
(2000), Baycan-Levent and Nijkamp (2009), Lindholst and Bogetoft (2011), Jansson
and Lindgren (2012) and Lindholst et al. (2015). Inspection of the titles resulted in
altogether 10 relevant studies for the review.

208 Given the broader scope of the research, a 'narrative' approach was adapted for 209 the review (Green et al., 2006). A narrative approach allows for more detailed accounts 210 of reviewed evidence rather than summaries in either qualitative (e.g. summary of 211 positive or negative outcomes) or quantitative (e.g. calculation of effect sizes) terms. 212 Based on the narrative approach, the 13 titles identified in the literature search were 213 inspected and summarized through an inductive analytical process with regard to 1) any 214 findings on outcomes related to contracting out of park and green space maintenance 215 (reported outcomes), 2) any findings or discussion on factors which explain the reported 216 outcomes (explanations for outcomes), 3) the methods sustaining any finding or 217 conclusion (methods), and 4) contextual details of the studies (context). 218 219 **Review of evidence**

220 Table 1 provides a chronological overview of the titles, including reported outcomes,

any stated explanations for outcomes, the methods and finally the country context of the

222 data.

223

224 *** Insert table 1 around here ***

225

226 The 13 studies in short

The 13 studies covered data from a timespan of approximately three decades (1982-2015) and included a limited number of country / regional contexts. The country contexts included: USA (three studies), England and Wales (five studies), and Scandinavia (five studies). With a few exceptions, the studies tended to focus on only one or two key outcomes. Eleven studies reported on economic effects, eight studies reported on effects on service quality, five studies reported on effects on management and organization, while five studies reported on staff related effects.

Altogether ten studies reported statistics as part of their key findings while three studies reported findings in terms of qualitative accounts. In terms of data, seven studies were purely quantitative, two studies were purely qualitative while four studies were based on a mix of quantitative and qualitative data. Key data sources across the studies included surveys and research interviews with key stakeholders while register-based data and expert assessments were used in a few studies only.

240

241 Economic outcomes

242 Seven out of the 13 studies found cost reductions as a major (positive) outcome. Six of 243 these seven studies also indicated improved technical efficiency, i.e. the same service 244 level was provided at lower costs. Two studies found no significant differences in 245 service expenditure levels between contracting and non-contracting municipalities. One 246 study found substantial cost increases in contract prices while one study found that the 247 likelihood of no cost change was substantially higher than the chance for cost savings. 248 Studies by Berenyi and Stevens (1988), Walsh and Davis (1993), and Lindholst 249 (2008) which measured cost change at the level of individual contracts all found that 250 contracting out was associated with cost savings, on balance. Walsh and Davis (1993)

251 found that for 69 cases the shift from provision of grounds maintenance by direct 252 services organizations (in-house) to contracting out had resulted in an average cost reduction by a magnitude of 10.9 percent (with a standard deviation around 15 253 254 perrcent). Berenyi and Stevens (1988) found that municipal provision of, respectively, 255 street tree and turf maintenance were respectively 27 percent and 29 percent cheaper 256 than private provision in a statistical analysis of 20 municipalities where other factors 257 such as scale and quality were held constant. In a study of a Danish state agency's contracting practices, Lindholst (2008) reported that a 34 percent cost saving on overall 258 259 expenditures on maintenance operations was realized though introduction of contracting 260 out and successive rounds of procurement without compromised service levels and 261 quality of service delivery. Studies by Jones (2000) and Nuppenau (2009) based on 262 qualitative / narrative accounts of effects in multiple case studies of local governments 263 in, respectively, England and Denmark also reported cost savings as a key outcome 264 from the introduction of contracting out. Two US studies by, respectively, Martin and 265 Stein (1992) and Jang (2006), which measured cost differences at the level of overall 266 municipal expenditures and provided analysis based on statistical analysis of 267 quantitative data, did not find any statistically significant association between 268 contracting levels and spending levels. Clark (1997) found that 71 percent of 269 responding UK local authorities reported that 'better value for tax payers' was achieved from contacting out versus 25 percent reporting that this was not the case. The study by 270 271 Leiren et al. (2016) found highly negative economic outcomes in terms of substantial 272 cost increases for Norwegian municipalities from their latest use of competitive 273 tendering, while the study by Bretzer et al. (2016) found that the likelihood of no cost

change in competitive tendering was substantially higher for Swedish municipalitiesthan the chance for cost savings.

Across the studies, the key explanatory factors for economic outcomes
encompassed references to 'competition', 'change in standards/quality levels', 'higher
private productivity' and 'government objectives'.

279 Competition. In almost all studies the introduction of competition was theorized 280 to be a key driver of improved economic performance. The study by Martin and Stein 281 (1992), for example, provided a direct empirical test of the importance of competition / 282 contracting levels for cost levels and found that contracting out was significantly related 283 to (slightly) lower levels of spending. However, further decreases in spending levels 284 from additional contracting beyond 25 percent of all municipal services were found to 285 be insignificant. The studies of, respectively, Norwegian and Swedish municipalities by 286 Leiren et al. (2016) and Bretzer et al. (2016) also indicated that competition varied 287 according to geography and administrative structures. Both country contexts are 288 characterized by many very small municipalities scattered over vast geographical areas. 289 In this context, competition – as well as the level of contracting out – was higher in the 290 more densely populated metropolitan areas.

Higher private productivity. All reviewed studies implicitly or explicitly stated that productivity, i.e. producing the same output with fewer inputs, was higher in the private sector than in the public sector. Walsh and Davis (1993), for example, reported that among park managers it was believed that a key reason for cost reductions was relatively higher private sector productivity. The reported cost savings by Lindholst (2008) were attributed to a shift to full-scale contracting out and the abolition of a former ineffective and poorly managed in-house arrangement. From findings in studies

by Berenyi and Stevens (1988) or Patterson and Pinch (1995) it is also evident that
higher private productivity has been achieved by substantial changes in the number of
employees, employee composition, work conditions and workforce management.

301 *Change in service levels.* Some studies prompted the importance of change in 302 service levels as a direct driver of cost change in contracting out. For example, Walsh 303 and Davis (1993) found a key reason for a part of the reported cost reductions was 304 changes toward lower standards for service quality while the main source for cost 305 increases was reported to be changes toward higher standards.

306 Government objectives. Based on the studies by Martin and Stein (1992), 307 Patterson and Pinch (1995) and Jones (2000), it can furthermore be argued that pursuit 308 of general government objectives in terms of cost reductions in contracting practices is a 309 key explanatory factor for the observed effects. In particular, it can be argued that 310 contracting out has been used as a means through which governments implement an 311 objective of cost reduction (as well as objectives related to reducing the number of staff 312 in public organizations). This is perhaps most evident in the policies on compulsory 313 competitive tendering in the UK which provided a tight regulation of the use of 314 contracting out as a clear cost-reducing mechanism (Dempsey et al., 2016). A special 315 case, which also illuminates the importance of taking objectives into account, is the 316 study of contracting out in Norwegian municipalities by Leiren et al. (2016). The study 317 found that the overriding reason for private service provision was a lack of in-house 318 capacity rather than cost concerns.

319

320 Service outcomes

321 Four studies reported overall neutral effects on service quality while four studies 322 reported negative effects and one study indicated positive effects on service quality. 323 Studies by Lindholst (2008), Berenyi and Stevens (1988), Walsh and Davis (1993) and 324 Clark (1997) found no overall negative direct effect on service quality. Walsh and Davis 325 (1993) found few reports of declining quality as an effect of contracting out. However, 326 changes in service standards were reported to affect cost levels (see above). Clark 327 (1997) found that 36percent of responding local authorities reported that quality levels 328 had decreased compared to 37 percent who reported that reported that quality levels 329 had increased. The two studies by Jones (2000) and Lindholst et al. (2015) reported 330 negative effects on service quality and they in particular indicated problems with 331 allocative efficiency, i.e. overall functionality of parks and their ability to satisfy user 332 needs, within public service delivery systems. The study by Jones (2000) found that 333 service levels / quality had generally declined by contracting out in the era of 334 compulsory competitive tendering in the UK and created run down and derelict park 335 areas low in horticultural and recreational value. Jones (2000) attributed that decline 336 partly to 'making parks fit for mowers rather than mowers fit the needs of the park' as 337 well as to a loss of community contact by shifts from site-based staff toward mobile 338 work gangs. The study by Lindholst et al. (2015) pointed out that service specifications 339 adopted for contracting out of grounds maintenance have drawbacks, as they tend to 340 limit the view on service quality to a question about compliance to pre-predefined 341 technical measures based on horticultural knowledge, rather than enabling integration of 342 broader stakeholder views on what services are - or should be - about. In consequence, 343 contracting out has resulted in implementation of managerial arrangements with limited 344 scope for democratic deliberation -i.e. limited scope for alignment of resource use with

345 broader community or user preferences. Leiren et al. (2016) provided a comparison of 346 satisfaction levels with performance of public and private provision and found that 347 satisfaction levels with public provision compared to private provision were 348 significantly higher for three out of six measures. However, the difference may be a 349 result of differences in the type of maintenance services, as the Norwegian 350 municipalities mostly used private contractors for provision of services they could not 351 provide themselves. Dempsey et al. (2016) found that satisfaction levels with private 352 provision among English local authorities on the average were surprisingly high 353 compared to the legacy of contracting out from the era of compulsory competitive 354 tendering in the 1980s and 1990s.

355 The explanations for quality effects stated in the reviewed studies related to 356 organizational changes in service delivery systems in which contracting out is 357 introduced. The changes related to new organization of operational staff, the 358 operationalization of services in order to comply with formal management systems and 359 rationalizations based on available organizational capacities (e.g. 'making parks fit for 360 mowers'). Walsh and Davis (1993) and Nuppenau (2009), for example, reported that 361 service standards in many cases did not exist prior to the introduction of competitive 362 contracting. In an extended argument, Lindholst et al. (2015) found that the use of 363 particular standards for defining services in accordance with the requirement for 364 contracting out has introduced and entrenched a particular way of thinking about and 365 making decisions on 'quality' in urban park management. This 'mindset' was suggested 366 to be more occupied with serving professional needs rather than addressing broader 367 service needs.

368

369 Managerial and organizational outcomes

370 Both negative and positive outcomes for managerial and organizational performance

371 were reported in studies by Clark (1997), Jones (2000), Lindholst (2008), Nuppenau

372 (2009) and Lindholst et al. (2015).

373 Clark (1997) found that park managers reported increased difficulties with 374 service monitoring by implementation of contracting out but at the same time also that 375 service monitoring had become more 'effective' for most local authorities. Jones (2000) 376 reported several managerial improvements from the implementation of contracting out 377 such as standardization of work activities and service levels across locations and 378 creation of information and resource systems for improved centralized management and 379 decision-making. Correspondingly, Lindholst (2008) found that management of ground 380 maintenance services had become more effective by the introduction of a tougher 381 contract management regime based on 'high-powered' (economic) incentives for 382 managing externally provided services. However, the shift toward a tougher 383 management regime also left important issues aside related to day-to-day flexibility and 384 collaboration. Nuppenau (2009) reported that competitive tendering improved internal 385 management and organisation by implementation of new managerial tools, such as 386 performance targets, and by spurring staff to innovate and perform better. Lindholst et 387 al. (2015) found that development of quality standards based on horticultural knowledge 388 supported cost-effective service delivery through the use of competitive tendering, but 389 also unintentionally limited the scope for public deliberation.

Across the studies, the introduction of new management tools associated with contracting out provided a major explanatory factor for reported effects on management and organization. As found by Nuppenau (2009), new management tools have also been

applied and improved management of in-house organizations. An important caveat,

394 noted in the study by Clark (1997), is that improved management depends on contract

395 management capability and lacking capabilities may result in ineffective management of396 service delivery.

397

398 Staff outcomes

Studies by Berenyi and Stevens (1988), Patterson and Pinch (1995), Clark (1997), Jones
(2000) and Nuppenau (2009) provided evidence on the impact on staff. Overall, the
reported effects are negative with the exception of mixed effects reported by Nuppenau
(2009).

403 Berenyi and Stevens (1988) found that contracting out compared to in-house 404 provision involved several differences in personnel practices including lower levels of 405 absenteeism, a younger workforce, a lower level of fringe benefits, lower average age 406 and tenure, easier access to hiring and firing, shorter distance between management and 407 direct labour as well as a general lower level of labour costs among private contractors 408 compared to municipal organizations. Patterson and Pinch (1995) found that the policy 409 of compulsory competitive tendering in the UK had led to substantial reductions in both 410 public and private workforces as well as deteriorating employment terms and conditions 411 within a labour market characterized by lower wages and more precarious working 412 conditions. In perspective, Patterson and Pinch (1995) observed that implementation of 413 contracting out had resulted in 'a separation of a concern for the services to be provided 414 from a concern for those people who will provide that service'. Congruently, Clark 415 (1997) found that staff training was not included in the vast majority of ground 416 maintenance contracts in the UK in the mid-1990s, and Jones (2000) reported a lack of

417 investment in and loss of the sector's skills base as well as loss of initiative, morale and 418 creative flair in the workforce. Nuppenau (2009) found, however, mixed effects on in-419 house operational staff exposed to competitive pressures in Danish municipal 420 organizations. On the negative side, change processes related to contracting out were 421 reported to be experienced by staff as 'a time of resistance, scepticism, anxiety and 422 *insecurity*'. On the positive side, Nuppenau (2009) found that new performance 423 standards and organization of work were helpful in generating learning, sharing 424 experience and motivating work efforts among staff. 425 A summary of the provided explanations for reported effects on staff includes 426 introduction of competitive organizational environments, substantial differences in

427 management and employment terms as well as workforce composition between the
428 public and private sector, weaker managerial concerns for staff in disaggregated
429 organizations based on a purchaser-provider models, and underinvestment in staff
430 training.

431

432 **Discussion**

The reported outcomes were summarized under headings for effects on economy,
service quality, management and organization, and staff. Reported outcomes of positive,
neutral and negative kinds were observed. The list of positive outcomes included: cost
savings at the level of contracts, improved technical efficiency, more effective
management and monitoring, learning and motivation. The list of negative outcomes
included: declining service quality, lacking public participation and democratic
deliberation, disengaged staff, loss of professional skills, and a reduced workforce.

440 Neutral outcomes / no effects included, for example, no impact on service quality or no441 overall change in expenditure levels for park services.

- 442
- 443 **** Insert Table 2 around here ****
- 444

445 Table 2 provides a summary of the instances of positive, neutral and negative outcomes 446 reported for the four types of outcomes. A finding is that the overall evaluation of 447 outcomes is mixed. However, the tendencies are that reports on economic and 448 managerial/organizational outcomes on balance are positive while reports on service 449 and staff on balance are negative. Most instances of reported outcomes are, furthermore, 450 counted as economic outcomes (12 instances), followed by service outcomes (nine 451 instances), managerial/organizational outcomes (seven instances) and outcomes for staff 452 (five instances). 453 Across the reviewed studies it was notable that explanations for the various

outcomes were not systematically addressed or discussed and only a single study by 454 455 Berenyi and Stevens (1988) included systematic research on the reasons for 456 performance differences between public and private provision. Thus, the reviewed 457 studies themselves do not provide a systematic accumulation of a deeper or more 458 refined understanding of why and under which circumstances various outcomes occur. 459 However, by summarizing the various explanations reported across the reviewed 460 studies, some hypothetical associations can be established. Table 3 provides a summary 461 of all reported explanations and their main association with the four types of outcomes 462 across the 13 studies.

463

*** Insert table 3 around here ***

465

481

466	Across the studies, introduction of competition, relative effectiveness of private				
467	contractors (i.e. private ownership) and cost-focused contracting policies were				
468	predominant explanations for the various outcomes. Cost reductions were in some				
469	studies, e.g. Berenyi and Stevens (1988) or Patterson and Pinch (1995), found or argued				
470	to be a result of lower wages and workforce reductions driven by differences between				
471	public and private sector management as well as overall competitive pressures.				
472	Introduction of new management systems (e.g. service standards) as part of the				
473	requirements for implementing contracting out were also a recurrent explanation across				
474	several studies, e.g. Clark (1997) or Lindholst (2008), for managerial and organizational				
475	outcomes. However, in order to improve the understanding of the drivers for various				
476	outcomes a recommendation for future research is to address the various explanations in				
477	more systematic approaches.				
478	The reviewed studies reported on outcomes from a limited range of country				
479	contexts. The three contexts in the reviewed evidence included the UK, the US and the				

480 three Scandinavian countries. The limited number of country contexts limits how far

482 dependencies in reform orientation – or governance traditions – which are likely to

results can be generalized. Each country context embeds particular historical path

influence both reform aims and outcomes (Rhodes, 1999). Adding to the complexities
of country context are the policy shifts or incremental institutional changes which can
be observed over time within a country context. The relatively high number of reviewed
studies from the UK based on data from the 1990s (four out of a total of five UK based

487 studies), for example, infuses a certain bias in the overall evidence base toward the

488 intricacies of the implementation of contracting out in the UK context. In an 489 international comparison, it is critical to note that the shift toward greater reliance on 490 private contractors in the UK in the 1990s was spurred by tight and cost-focused 491 regulations for compulsory use of competitive tendering in local authorities (Clark, 492 1997) – a policy abandoned by the end of the 1990s in a shift to a more flexible and 493 strategic approach to service provision based on a broader idea of 'best value' (Boyne, 494 1999). In contrast, more flexible and pragmatic policies have been implemented in 495 Scandinavia (e.g. Leiren et al., 2016; Lindholst et al., 2016). Given the policy context in 496 the UK in the 1990s it is no surprise that the three studies based in data for this period 497 all found that contracting out resulted in improved economic performance in terms of 498 either cost reductions (Walsh and Davis, 1993; Jones, 2000) or better value for money 499 (Clark, 1997). To gauge further the importance of country (and policy) context, a 500 recommendation for future research is to expand the number of country contexts. 501 Beyond a requirement to balance the potential bias from particularities of country 502 context, it is also of inherent interest to see how alternative arrangements for providing 503 maintenance in urban parks and green spaces perform in additional country contexts.

504 In the section on theories of contracting out it was highlighted that outcomes can 505 be evaluated from different sets of governing values embedded in different management 506 paradigms. The reviewed evidence was dominated by studies which took as their point 507 of departure values associated with the neoliberal reform agenda. This dominance was 508 reflected, for example, in the majority of studies addressing whether cost-savings have 509 been achieved – a question clearly associated with the NPM. Furthermore, some of the 510 reviewed studies reporting on improved management/organization referred to 511 managerial dimensions of relevance to key values in the NPM. For example, the shift

512 toward contracting out was reported to be an improvement in the performance of 513 centralised and formal management practices in studies by Jones (2000) and Lindholst 514 (2008). However, strategic centralization in the management of public activities is a key 515 feature of NPM and its improvement may come at the expense of a loss of the capacity 516 for decentralized and responsive management within local networks- an important 517 capacity for implementation of more collaborative and deliberative oriented reforms. In 518 other words, the improved performance in management is reported from the perspective 519 of a particular set of governing values rather than an evaluation of the outcomes seen 520 from the perspective of alternative management paradigms. Overall, only limited 521 evidence was found which took point of departure in the governing values associated 522 with other major paradigms for managing and organizing the public sector. The studies 523 by Lindholst et al. (2015) and Jones (2000), for example, reported on losses in the 524 capacity and flexibility to addresses and satisfy user needs – key values related to 525 reform trends based on ideas of governance including public involvement and 526 democratic deliberation. Other studies reporting on losses in the skill-base, e.g. Clark 527 (1997), Patterson and Pinch (1995) or Jones (2000), also provided some evidence on 528 detrimental effects from contracting out on the function of organizational models based 529 on more traditional administrative values related to professionalism and robustness. It is 530 a recommendation for future research to provide more rounded evaluations which 531 explicitly illuminate and evaluate outcomes from the viewpoints of the different 532 governing values inherent in alternative management paradigms. 533 None of the reviewed studies compared or distinguished between different

approaches to contracting out in their links to outcomes. The introduction of

535 collaborative approaches to contracting out in urban green space management the 2000s

536 has hosted a strategic focus in public-private relations related to service development 537 and changes/improvements in managerial approach (Lindholst, 2009). Earlier studies 538 have called for such approaches in order to mitigate perceived flaws of earlier 539 approaches to contracting out (e.g. Jones, 2000; Lindholst, 2008; Dempsey and Burton, 540 2012). However, the reviewed studies do not shed any light on whether newer 541 collaborative approaches perform differently than long-standing standard approaches 542 grounded in the competition model. Even newer studies in the review, e.g. Dempsey et 543 al. (2016) or Leiren et al. (2016), confined reports on outcomes to the relative 544 performance between private and in-house provision as the two main alternatives. A 545 recommendation for future research is to pay attention to the details of different 546 contractual and organizational arrangements and their comparative performance.

547 Another main finding from the review is the relatively high share of the studies 548 reporting positive economic outcomes—a finding apparently indicating that one key 549 promise of NPM, i.e. improved economic performance, has been fulfilled by the shift 550 toward greater reliance on private delivery. However, some caveats must be raised. 551 None of the reviewed studies considered potential off-setting effects from, for example, 552 cost shifts in the public sector or the size of comparative transaction costs. This is a 553 recurrent and longstanding critique of studies of the economic performance of 554 contracting out in the public sector (Boyne, 1998; Petersen et al. 2017). Some of these 555 effects, in particular comparative transaction costs, are implicitly accounted for in the 556 group of reviewed studies comparing overall expenditure levels for park services 557 between municipalities with different levels of contracting out (e.g. Martin and Stein, 558 1992). On the other hand, these studies may again fail to account for any re-allocation 559 or re-investment within park services, e.g. new facilities, of potential cost gains from

560 contracting out maintenance services. Earlier estimates of transaction costs associated 561 with contracting out in the public sector more generally indicate that their magnitude (a 562 two per cent point reduction in the level of estimated cost savings) is certainly not 563 tipping the overall balance of economic performance (Hodge, 2000).

564 Studies comparing the economic performance from contracting out the first 565 time, i.e. a shift from public to private provision, may also to some degree compare 566 service provision of public and private organizations which differ in their comparative 567 advantages and disadvantages as well as governing values. The introduction of 568 competitive tendering and shifts from public to private provision has historically 569 implied a change from one type of organization to another. Clark (1997), for example, 570 noted that public providers in local governments in the UK prior to the implementation 571 of the UK based versions of NPM reforms were characterized by a unitary and skill-572 based organization based on horticultural (and arboricultural) knowledge and low 573 degrees of formalization of managerial systems. Consequently, public organizations 574 were abruptly situated in competition with private organizations whose business culture 575 was already closely aligned with the governing values, such as cost-efficiency and 576 productivity, inherent in the NPM. In Scandinavia, however, municipal park 577 management witnessed a more incremental and pragmatic approach to the introduction 578 of competition and private contractors in the 1990s and 2000s where public 579 organizations were able to prepare themselves for potential exposure to competition 580 (e.g. Nuppenau, 2009). Generically, the two types of organization, i.e. the private 581 contractor and the traditional public provider, can be contrasted as a difference between 582 their orientations toward, respectively, 'inputs' and 'outputs' as well as a difference 583 between organizational values related to, respectively, 'robustness' and 'efficiency' (see

584 also Hood, 1991). In other words, the improved cost-efficiency reported in several of 585 the reviewed studies may have come at the disadvantage of organizational robustness as 586 well as being detrimental to the governing values inherent in alternative management 587 paradigms (as discussed above). Such dynamics are reflected in the earlier critique 588 within the UK context of the (massive) losses in skills, i.e. organizational robustness, 589 due to the implementation of competitive tendering in the 1980s and 1990s (e.g. Jones, 590 2000). However, as found by Nuppenau (2009) in an Scandinavian conetxt, municipal 591 provider organizations have over time become 'marketized' by incorporation of new 592 management systems such as service standards, resource management and cost-based 593 accounting principles, or business plans. In other words, public and private provider 594 organizations have become – at least in some countries – more alike due to the NPM. 595 The dynamics in the internal organizational development of in-house providers indicate 596 that earlier studies have compared the (economic) performance of very different 597 organizations while later studies have compared organizations that were more alike. In 598 perspective, generalizations forward in time of findings in earlier studies may come 599 with some caveats as well as the organizational dynamics toward convergence (also) 600 motivate a call fort new studies based on contemporary data.

Finally, across the reviewed studies it was found that research has relied on a
mix of qualitative and quantitative data, collected from secondary and primary data
sources in terms of register-based repositories, expert evaluations, surveys and
interviews as well as different analytical methods ranging from longitudinal case studies
based on narrative accounts toward application of multivariate statistical analysis. Given
the relatively small number of studies, the represented materials and methods are quite
heterogeneous and complementary in character. Given well-known strengths and

weaknesses of different research designs, no particular recommendation for future research designs can be provided from the review beyond the substantial call raised in the foregoing discussions for updating the evidence base by inclusion of further country contexts, contemporary data, more systematic explorations of explanatory factors, and more detailed differentiation between various alternatives for providing maintenance services.

614

615 Conclusion

616 This article provided a review of what was known – and not known – about the 617 outcomes from contracting out maintenance services in urban parks and green spaces. 618 The review was based on an analysis of altogether 13 internationally available studies 619 with regard to type of reported outcomes, explanations for outcomes, methodological 620 basis and country context. The studies covered data from a timespan of four decades 621 and three major country contexts. Four major outcome types – economic, service, 622 management/organisation and staff - were found to be illuminated in the reviewed 623 studies. Economic and managerial performance tended to be evaluated as positive while 624 outcomes for service quality and staff tended to be evaluated as negative.

The evaluation of what is known about the outcomes was, however, to some extent flawed or influenced by the particularities of country and policy context in the reviewed studies. The review furthermore found that what is known mostly relates to questions raised from a NPM perspective. In other words, contracting out has mostly been evaluated for its merits (or perils) in terms of economic performance. The merits seen from other managerial perspectives and their inherent governing values, for example democratic deliberation or legal compliance, were more scarcely covered or

not covered at all. Thus, the evidence is somehow 'flawed' toward the particular set of
governing values associated with the NPM perspective. Furthermore, even evaluations
of contracting outcomes with a point of departure in a NPM perspective were to some
extent flawed. For example, comparable transaction costs or cost shifts in the public
sector were not explicitly addressed in studies reporting estimates on economic
outcomes.

638 Finally, the reviewed studies did not distinguish between different alternative 639 approaches to contracting out. This should be of less concern for findings from early 640 studies based on data from the 1990s, or earlier, where a tighter alignment with a 641 competitive model can be assumed. Given the introduction of collaborative approaches 642 to contracting out from the early 2000s and onward it has become of increasing interest 643 to distinguish between alternative approaches to involvement of the private contractors 644 and their comparative performance. This development should be seen as parallel to the 645 organizational reform and development of in-house providers in the same period. In 646 other words, the organization and performance of contemporary private contractors and 647 in-house providers are likely to be very different than four decades ago.

648 In perspective, the review found that what is known about the outcomes from 649 contracting out in a cross-country perspective is limited in important respects. Future 650 research is needed and may expand on what is known by addressing knowledge gaps 651 by, for example, expanding the number of country and policy contexts, seeking to 652 connect and accumulate evidence on the explanations for reported outcomes, pay 653 attention to different contracting and organizational models as well as take point of 654 departure in a wider set of governance values than those ingrained in neoliberal reform 655 approaches.

657 **References**

- 658 Baycan-Levent, T., Nijkamp, P. 2009. Planning and Management of Urban Green Spaces in
- Europe: Comparative Analysis, Journal of Urban Planning and Development, 135(1),
- 660 1-12.
- Berenyi, E.B., Stevens, B.J. 1988. Does Privatization Work? A Study of the Delivery of
 Eight Local Services, State and Local Government Review, 20(1), 11-20.
- Borcherding, T.E., Pommerehne, W.W., Schneider, F. 1982. Comparing the efficiency of
- 664 private versus public public production: The evidence from five countries. Zurich:
- 665 Institute for Empirical Research in Economics.
- Boyne, G.A. 1998. Public Choice and Local Government. A Comparative Analysis of the
 UK and the USA. Basingstoke: Macmillan Press.
- Boyne, G.A (ed.). 1999. Managing Local Services: From CCT to Best Value. Ilford: Frank
 Cass.
- 670 Bretzer, Y.N., Persson, B., Randrup, T.B. 2016. Is public procurement efficiency
- 671 conditioned by market types? A critical test in park and road sectors in Sweden.
- 672 International Journal of Public Sector Management, 29(5), 488-501.
- 673 Clark, L. 1997. The Effects of Compulsory Competitive Tendering on Grounds
- 674 Maintenance. Reading: Institute of Leisure and Amenity Management.
- de Magalhães, C., Carmona, M. 2009. Dimensions and models of contemporary public
- 676 space management in England. Journal of Environmental Planning and Management,
- 677 52(1), 111-129.

- 678 Dehoog, R. 1990. Competition, Negotiation, or Cooperation: Three Models for Service
- 679 Contracting. Administration and Society, 22(3), 317-340.
- 680 Dempsey, N., Burton, M. 2012. Defining place-keeping: The long-term management of
- 681 public spaces. Urban Forestry & Urban Greening, 11(1), 11-20.
- 682 Dempsey, N., Burton, M., Selin, J. 2016. Contracting out parks and roads maintenance in
- England. International Journal of Public Sector Management, 29(5), 441-456.
- 684 Domberger, S., Jensen, P. 1997. Contracting out by the public sector: Theory, evidence,
- 685 prospects. Oxford Review of Economic Policy, 13(4), 67-78.
- 686 Donahue, J.D. 1989. The privatization decision: Public ends, private means. New York:
 687 Basic Books.
- 688 Donahue, J.D., Zeckhauser, R.J. 2006. Public-Private Collaboration. In M. Moran, M.
- 689 Rein, R.E. Goodin (Eds.). The Oxford Handbook of Public Policy. (pp. 496-525).
- 690 Oxford: Oxford University Press
- 691 Entwistle, T., Martin, S. 2005. From competition to collaboration in public service
- delivery: A new agenda for research. Public Administration, 83(1), 233-242.
- 693 Green, B.N., Johnson, C.D., Adams, A. 2006. Writing narrative literature reviews for peer-
- reviewed journals: secrets of the trade. Journal of Chiropractic Medicine, 5(3), 101-
- 695
 117.
- 696 Greene, J.D. 1994. Does Privatization Make a Difference? The Impact of Private
- 697 Contracting on Municipal Efficiency. International Journal of Public Administration,
- 69817(7), 1299-1325.
- Hansen, M.B., Lindholst, A.C. 2016. Marketization revisited. International Journal of
- 700 Public Sector Management, 29(5), 398-408.

- Hart, O., Shleifer, A., Vishny, R.W. 1997. The proper scope of government: Theory and an
 application to prisons. Quarterly Journal of Economics, 112(4), 1127-1161.
- 703 Hebbert, M. 2008. Re-enclosure of the urban picturesque: Green-space transformations in
- postmodern urbanism. Town Planning Review, 79(1), 31-59.
- 705 Hefetz, A., Warner, M.E. 2012. Contracting or Public Delivery? The Importance of
- Service, Market, and Management Characteristics. Journal of Public Administration
 Research and Theory, 22(2), 289-317.
- 708 Hirsch, W.Z. 1995. Contracting out by Urban Governments: A Review. Urban Affairs
- 709 Review, 30(3) 458-72.
- Hodge, G.A. 2000. Privatization an international review of performance. Oxford: Boulder
 Westview Press.
- Hood, C. 1991. A Public Management for All Seasons? Public Administration. 69(1), 3-19.
- Hood, C. 1995. The "new public management" in the 1980s: variations on a theme.
- Accounting, Organizations and Society, 20(2/3), 93-109.
- 715 Jang, H. 2006. Contracting Out Parks and Recreation Services: Correcting for Selection
- 716 Bias Using a Heckman Selection Model. International Journal of Public
- 717 Administration, 29(10/11), 799-818.
- Jansson, M., Lindgren, T. 2012. A review of the concept 'management' in relation to urban
- 719 landscapes and green spaces: Toward a holistic understanding. Urban Forestry and
- 720 Urban Greening, 11(2), 139-45.
- Jones, R. 2000. Managing the green spaces: problems of maintaining quality in a local
- government service department. Managing Service Quality, 10(1), 19-31.

723	Kettl, D.F. 2010. Governance, Contract Management and Public Management. In S.P.
724	Osborne (Ed.). New Public Governance? (pp. 239-254). Oxon: Routledge.
725	Lindholst, A.C. 2008. Improving Contract Design and Management for Urban Green Space
726	Maintenance through Action Research. Urban Forestry and Urban Greening, 7(2), 77-
727	91.
728	Lindholst, A.C. 2009. Contracting-Out in Urban Green-Space Management: Instruments,
729	approaches and arrangements. Urban Forestry and Urban Greening, 8(4), 257-68.
730	Lindholst, A.C., Bogetoft, P. 2011. Managerial Challenges in Public Service Contracting:
731	Lessons in Green-Space Management. Public Administration, 89(3), 1036–1062.
732	Lindholst, A.C., Sullivan, S., Konijnendijk van den Borsch, C.C., Fors, H. 2015. The
733	Inherent Politics of Managing the Quality of Urban Green Spaces. Planning Practice
734	and Research, 30(4), 376-392.
735	Lindholst, A.C., Hansen, M.B., Petersen, O.H. 2016. Marketization trajectories in the
736	Danish road and park sectors: A story of incremental institutional change. International
737	Journal of Public Sector Management, 29(5), 457-473.
738	Leiren, M.D., Lindholst, A.C., Ingjerd, S., Randrup, T.B. 2016. Capability versus
739	efficiency: contracting out park and road services in Norway. International Journal of
740	Public Sector Management, 29(5), 474-487.
741	Martin, D.L., Stein, R.M. 1992. An empirical analysis of contracting out local government
742	services. In G. Bowman, S. Hakim, P. Seidenstat (Eds.). Privatizing the United States
743	justice system: Police, adjudication, and corrections services from the private sector.
744	(pp. 82-106). McFarland & Company: Jefferson.

- 745 Nuppenau, C. 2009. Marketizing Municipal Park Management Organisations in Denmark.
- A study of policymaking and organisational change in the period 1985-2005.
- 747 Frederiksberg: University of Copenhagen.
- 748 Ouchi, W.G. 1980. Markets, Bureaucracies, and Clans. American Science Quarterly, 25(1),
- 749 129-141.
- 750 Patterson, A., Pinch, P.L. 1995. Hollowing Out the Local State Compulsory Competitive
- 751 Tendering and the Restructuring of British Public-Sector Services. Environment and
- 752 Planning, 27(9), 1437-1461.
- 753 Petersen, O.H., Hjelmar, U., Vrangbæk, K. 2017. Is Contracting out of Public Services still
- the Great Panacea? A Systematic Review of Studies on Economic and Quality Effects
- from 2000 to 2014. Social Policy & Administration, DOI: 10.1111/spol.12297.
- 756 Pollitt, C., Bouckaert, G. 2011. Public Management Reform: Comparative Analysis of New
- 757 Public Management, Governance and the Neo-Weberian State. Oxford: Oxford
- 758 University Press.
- 759 Rhodes, R.A.W. 1994. The Hollowing Out of the State the Changing Nature of the
- 760 Public-Service in Britain. Political Quarterly, 65(2), 138-151.
- 761 Rhodes, R.A.W. 1999. Traditions and Public Sector Reform: Comparing Britain and
- 762 Denmark. Scandinavian Political Studies, 22(4), 341-370.
- 763 Stoker, G. 2006. Public Value Management: A New Narrative for Networked Governance?
- The American Review of Public Administration, 36(1), 41-57.
- 765 Walsh, K., Davis, H. 1993. Competition and Service: The Impact of the Local Government
- 766 Act 1988. London: HSMO.

- 767 Williamson, O.E. 1991. Comparative Economic Organization: The Analysis of Discrete
- 768 Structural Alternatives. Administrative Science Quarterly, 36(2), 269-96.
- 769 Vincent-Jones, P. 2007. The New Public Contracting: Public Versus Private Ordering?.
- 770 Indiana Journal of Global Legal Studies, 14(2), 259-278.

Reference	Reported key outcome(s)	Explanatory factors	Methods	Country context
Berenyi	Delivery of street trees and turf maintenance	Less labour intensive	Statistical analysis (OLS regression	USA
and	respectively 27% and 29% cheaper in	organization. Lower salaries.	with controls) of the comparable	
Stevens	municipalities with private delivery compared to	More direct control with	efficiency and effectiveness of	
(1988)	public delivery. Estimates controlled for service	manpower and use of technical	street tree and turf maintenance	
. ,	levels and quality.	equipment. Different	between public and private	
		characteristics of employees and	provision based on quantitative	
		employment.	data (year 1984) from on 20 cities.	
Martin	Insignificant relationship between contracting	Theoretical considerations about	Statistical analysis (OLS regression	USA
and Stein	out and overall expenditures on maintenance	governments' need to reduce	with controls) of service provisions	0071
(1992)	operations.	costs and number of public	in 877 local authorities based on	
(1992)	operations.	employees.	available survey data from 1982-	
		employees.		
			1983.	
Walsh and	Cost saving (average 10%) and some	Improved productivity and	Descriptive analysis of survey-data	England
Davis	improvement in technical efficiency for services	changes (increase/decrease) in	(1989-1992) for eight local services,	and Wale
(1993)	contracted out (e.g. no impact on service	work standards.	including 69 grounds maintenance	
	quality).		contracts sampled from 40 local	
			authorities.	
Patterson	Estimated average reductions in staff about 32%	Legislative requirements.	Narrative account based on various	England
and Pinch	for private and 13% for public providers.	Cost-focused contracting	secondary data sources and	and Wale
(1995)	Organizational change toward 'strategic	policies.	available official statistics.	
	centralization' and 'operational			
	decentralization'			
Clark	Improved value for tax payers and improved	Not discussed.	Descriptive analysis of survey data	England
(1997)	monitoring reported in a majority of local		(collected in 1996) based on 268	and Wale
	governments (no estimates for effect size		responses (response rate 53%)	
	provided).		from local governments in England	
			and Wales.	
lones	Improved information level on assets, costs and	Tight and cost-focused	Retrospective longitudinal study for	England
(2000)	service levels. Reduced production costs.	contracting policies.	the period 1980s-1990s based on	
	Decreased standards and quality of services.		qualitative data from four city	

TABLE 1. Chronological overview on studies on outcomes from contracting out maintenance services in parks and urban green spaces.

	Loss of staff engagement and motivation. Loss		councils.	
	of skills and local knowledge			
Jang	No difference in overall expenditures for park	For negative effects:	Statistical analysis (OLS regression	USA
(2006)	and recreation services between municipalities	Transactional risks (difficulties	with controls) of available register	
	contracting out all services to profit-seeking	with service measurability and	and secondary survey data (year	
	firms and municipalities providing services in-	monitoring).	1997) from 1055 municipalities.	
	house. Lower expenditure on services found for	For positive effects: Economy of		
	municipalities contracting out to non-profit or	scale, sufficient competition.		
	other public providers.			
Lindholst	Improved technical efficiency (34%) and	Abolition of former in-efficient	Embedded (longitudinal) case study	Denmark
(2008)	improved managerial effectiveness in the initial	in-house organization. Stronger	of development in the period 1998-	
	implementation of contracting out. Thereafter	management instruments ('high	2006 of contract management in	
	only small cost effects in additional	powered incentives').	one state authority based on	
	procurements.		quantitative (accounts) and	
			qualitative (interview) data for six	
			maintenance contracts.	
Nuppenau	Internal decentralization of operational	Marketization as a locally driven	Retrospective longitudinal case-	Denmark
(2009)	decision-making and responsibilities.	and adaptive organizational	study based on interview data of	
	Differential staff experiences (adapting to	change process. Exposure to	marketization in the period 1980-	
	contract management as both difficult and	competitive pressures drives	2005 six municipalities with	
	stimulating). Creation of common goals and	change.	different characteristics.	
	common spirit / cultural change. Improved			
	technical efficiency			
Lindholst	Improved technical efficiency. Decreased	Institutionalization and	Case-study of the use of service	Denmark
et al.	allocative efficiency. Increased control	domination of a 'technical	standards based on analysis of	
(2015)	orientation in management. Limited outlook on	language', based on	existing literature / studies.	
	service provision and development in planning	standardizations for defining and		
	and management	managing services.		
Bretzer et	Average cost saving around 2 % found for 39	Some indication that cost savings	Descriptive statistical analysis with	Sweden
al. (2016)	cases. Unchanged or increased costs are more	of contracting out are more likely	simple tests based on survey data	
	likely outcomes than cost savings. The likelihood	in metropolitan areas (compared	(year 2015) of park maintenance	
	for cost savings is greater the first or second	to rural) and in municipalities	services from 115 municipalities.	
	time services are contracted out compared to	with high spend per capital on		
	the third time or more	services.		
Leiren et	Substantial increases in cost levels. Lower	Private contractors are mainly	Descriptive statistical analysis with	Norway
al. (2016)	satisfaction with the performance of private	used for provision of services	simple tests based on survey data	

	contractors compared to in-house provision for	municipalities cannot provide	(year 2015) on park (and road)	
	cost, development and long term objectives.	themselves, i.e. not for assuring	maintenance services from 95	
	Similar satisfaction levels for quality, flexibility	low costs (or other purposes).	municipalities.	
	and follow-up and problem-solving.	Competition is weak in some		
		regions.		
Dempsey	High degree of satisfaction with cost and quality	Some indication that higher	Descriptive statistical analysis	England
et al.	of private provision.	satisfaction with cost are	based on survey data (year 2015)	
(2016)		correlated with using contractors	on park (and road) maintenance	
		to achieve cost efficiency well as	services from 103 local	
		higher satisfaction was reported	governments.	
		for municipalities with higher		
		levels of contracting out		

Note: Table based on a literature search on outcomes from contracting out park and green space maintenance.

TABLE 2. Qualitative summary of reported instances of positive, neutral or negative outcomes from contracting out park and green space maintenance

Outcome	Positive	Neutral	Negative
Economic (11 studies)	8	3	1
Service (8 studies)	1	4	4
Management / organization (5 studies)	5	0	2
Staff (5 studies)	1	0	5

Note: A study can report more than one type of outcome as well as both positive, neutral and negative outcomes (i.e. the sum of positive, neutral and

negative outcomes can be greater than the number of studies). Relative frequencies are not calculated due to the low number of studies.

TABLE 3. Summary of reported associations between four types of contracting outcomes and hypothetical explanations

Explanation	Economic	Service	Management / organization	Staff
Introduction of competition	+	÷	+/÷	÷
Private ownership / management	+	÷	+	÷
Shift toward lower service levels	+	÷	-	-
Low costs as government objective	+	÷	-	÷
Change in managerial thinking / tools	+	+/÷	+	÷

Note: Table based inspection of explanations for outcomes provided in 13 studies of contracting out grounds maintenance.

 $Legend: + = mainly \ positive \ association, + = mainly \ negative \ association, - = no \ association \ reported, + / + = highly \ mixed \ associations \ reported \ reported$