

ITLS

WORKING PAPER ITLS-WP-05-19

Competitive tendering as a contracting mechanism for subsidising transportation: The bus experience

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September 2005

Paper prepared by invitation for a Special Issue of the Journal of Transport Economics and Policy on The Economics of Cost Recovery in Transport.

ISSN 1832-570X

# INSTITUTE of TRANSPORT and LOGISTICS STUDIES

The Australian Key Centre in Transport and Logistics Management

The University of Sydney Established under the Australian Research Council's Key Centre Program. NUMBER: Working Paper ITLS-WP-05-19

**TITLE:** Competitive tendering as a contracting mechanism for subsidising transportation: the bus experience

**ABSTRACT:** Competitive tendering (CT) is a popular mechanism for the provision of transport services where a major objective is the containment of the cost to government of service provision. Although the primary focus is recognised as cost efficiency, whereby the cost outcome should be conditional on a given level of service, difficulties in establishing appropriate tests for service level compliance has become a cause of concern about the effectiveness of the CT paradigm as a value for money initiative. While recognizing the growing evidence that competitive tendering can reduce levels of subsidy, typically in the 20-30% range, what is lacking in the support is an explicit statement that such gains are usually a windfall gain when first introducing CT, and especially when the incumbent is a public supplier (or a operator almost exclusively dependent public on government funding), and that financial gains through retendering are notably absent. Furthermore the risk of discouraging investment back into the provision of services because of uncertainty of continuity is starting to show up as incentive-incompatible and a discouragement to quality operators who would in the normal course of business reinvest much more. This has led to a growing interest in and support for performance based contracts (PBCs) in which the incentive structure is more conducive to the growing the business (under a trusting partnership between the regulator and the operator) and where CT is a last resort noncompliance strategy. This paper reviews the international successes and failure of CT as a subsidy reduction strategy within the bus sector, and promotes the idea of PBCs as a way of recognizing the real role of subsidy under the umbrella of a value for money objective.

**KEY WORDS:** Performance-based contracts, competitive tendering, subsidies, incentives. **AUTHORS:** David A Hensher & Ian P Wallis **CONTACT:** Institute of Transport and Logistics Studies (C37) An Australian Key Centre The University of Sydney NSW 2006 Australia Telephone: +6193510071Facsimile:  $+61\ 9351\ 0088$ E-mail: itlsinfo@itls.usyd.edu.au Internet: http://www.itls.usyd.edu.au **DATE:** September 2005

# 1. Introduction

There are very few laws in economics, but there are a number of evidential statements that take on the appearance of laws. One of these is the announced savings in subsidy when introducing competitive tendering. Net of administrative costs, these savings are frequently quoted to lie between 20% and 30%, net of administration costs. On closer inspection the savings are associated, in the main, with services previously provided by the public sector under a public monopoly and are typically the outcome of a first-time tendering process. Subsequent re-tendering delivers minimal gains in subsidy reduction and often leads to an increase (above the consumer price index) in subsidy cost, in part response to the initial winner's curse. In some situations where there are a large number of small operators in the informal transport sector, as in Brazil (de Aragao and Brasileiro 1999), that are being replaced by a few larger operators ('relocating' into the formal transport sector), the costs of service delivery under competitive tendering can increase<sup>1</sup>. Indeed in many developing economies, a previously unsubsidized high frequency and flexible service becomes subsidised as part of the price of the regulator controlling the sector. The tendency for the number of bidders in a re-tender to decrease in some countries, especially as the contract size increases<sup>2</sup>, suggests that the sustainability of initial cost savings may become problematic and widespread.

Nevertheless, competitive tendering (CT) remains an attractive reform strategy with a growing interest in finding ways of making CT incentive compatible and delivering value for money in subsidy outlay by government<sup>3</sup>. However, despite this commitment, as time passes, a number of deficiencies in the existing CT process have emerged, raising questions about where this approach is most suitable and ways in which it is best applied. Some of these deficiencies are attributable in part to the inadequacy of the regulatory framework within which CT is delivered and monitored and in part due to the nature of competitive tendering.

Such issues suggest a reconsideration of competitive tendering as the preferred way *under all circumstances* of contracting in the future and a need to consider other regimes, especially negotiated performance-based contracts, as a means of deciding rights to deliver public transport services, as an alternative (and/or sequenced complement)<sup>4</sup> to CT. Negotiated contracts<sup>5</sup> are common in public-private partnerships in the provision of infrastructure but are less visible in public transport operation. Berechman (1994, 298-99) suggests that "If costs of having a private firm supply the services could be reduced by means of a negotiated contract, the considerable costs of organising a competitive bidding would be averted. Indeed …a competitive tendering scheme might in some cases be inferior to methods of contracts that are competitively tendered in the bus sector (primarily the provision of urban services), highlighting not

<sup>&</sup>lt;sup>1</sup> After adjusting for new regulatory requirements, such as minimum vehicle and labour standards and operator accreditation.

<sup>&</sup>lt;sup>2</sup> The move away from route-based to area-based contracts to promote network interdependency is a contributing influence. In the London context where route-based contracts still flourish, the network benefits are preserved through appropriate regulatory procedures and contract obligations.

<sup>&</sup>lt;sup>3</sup> For example, competitive tendering is proposed as an instrument to make radical change in service delivery in Santiago, Chile, to replace 4,000 bus operators (with 8,000 buses) with 15 operators.

<sup>&</sup>lt;sup>4</sup> In South Africa CTs are a way to attract new entrants into the market, then based on performance, an extension is negotiated. To attract new entrants, they stipulate a minimum percentage of subcontracting, so that after one year of subcontracting, the subcontractor can become a "set aside" and can operate in their own right as a fully fledged operator.

<sup>&</sup>lt;sup>5</sup> When we refer to negotiated contracts we imply performance-based contracts as defined in Section 2.

just the cost savings but other relevant considerations of service provision. Drawing on a number of earlier papers by the author and other participants in the international conference series on competition and ownership of land passenger transport<sup>6</sup>, we document the subsidy savings from a large number of CT contracts. To assess the virtues of such savings, we place the evidence within a broader framework that recognizes the importance of delivering value for money in the provision of subsidized bus services. Through this broader perspective we start to see the narrowness of the strictly cost recovery objective and the warning signals through a failure to provide appropriate incentives to operators to grow the patronage market.

## 2. Definitional issues

Competitive tendering is a service delivery strategy and member of the broad class of contractual regimes. An effective contractual regime is one within which the government, the regulator, the operator, and society at large can participate as trusting partners in securing value for money in (i) the allocation of a total subsidy budget to the provision of services or (ii) in the delivery of non-subsidised services (Hensher and Houghton 2005)<sup>7</sup>. The government's role is strategic (S), the regulator's role is tactical (T) and the operator's role is operational (O)<sup>8</sup>. Within such a contractual regime an operator provides services at *best practice cost levels* for a given level of service delivery, either in return for direct financial support from government, awarded by either competitive tendering or negotiation, or in return for permission to operate a negotiated/agreed level of service without subsidy but, for example, subject to a costplus fare determination.

Within such a contractual regime, the payment structure may be based on a fixed payment and/or a set of incentive payments above the fixed payment linked to patronage and/or service levels. An example of a fixed payment system is a community service obligation payment linked to a minimum service level program determined by negotiation or competitive tendering, and/or a partnered service design and level. The incentive payments linked to patronage and/or service growth can reflect benefits derived from all sources (i.e. consumer or user surplus) and benefits linked to a specific

<sup>6</sup> Known as the Thredbo series, the International Conference Series on Competition and Ownership in Land Passenger Transport has been held biannually since the first conference in Thredbo, Australia, 1989. Thredbo 2 through to 8 have been held in Tampere, Finland, 1991; Toronto, Canada, 1993; Rotorua, New Zealand, 1995; Leeds UK 1997; Cape Town, South Africa, 1999; Molde, Norway, 2001; and Rio de Janerio Brazil in 2003. Further details and paper are provided under the Thredbo icon at <a href="http://www.itls.usyd.edu.au">http://www.itls.usyd.edu.au</a>.

<sup>&</sup>lt;sup>7</sup> Although performance based contracts (PBCs) in developed economies tend to be integrated into a system of subsidy support, this need not be the case in all situations. For example, in Brazil, PBCs are being considered in a context where the operators in the formal (ie 'legal') sector would be required to comply with benchmark best practice on costs (without any subsidy support under community service obligation payments), with fares determined by a cost-plus formula and patronage incentive payments available for patronage growth above an agreed baseline. In Santiago (Chile) an innovative internal cross-subsidy scheme between feeder service operators via a centrally tendered fare collector (using smart cards) is designed to use (feeder) system wide fare revenue to eliminate all public subsidy.

<sup>&</sup>lt;sup>8</sup> The STO framework recognizes that policy, planning and operations exist within a hierarchy of objectives functionally split into three interdependent layers. The main features of the framework are represented by three STO levels (Macario 2001):

<sup>•</sup> The *Strategic level* where the focus is on the establishment of broad goals and objectives and guidance on ways of achieving outcomes consistent with such goals ('what do you want to achieve')

The *Tactical level* which highlights the supporting mechanisms (eg the regulatory process) to achieve the strategic goals. There is a strong emphasis on fare and service planning. In many countries there is no explicit public transport regulator and so tactical functions are the responsibility of authorities and/or operators.

The Operational level which focuses on delivering the desired services to the market consistent with the strategic intent
and aided by tactical mechanisms.

Van de Velde and Pruijmboom (2003) illustrate how giving tenderers tactical responsibilities will lead to service uplifts.

objective such as reducing negative environmental impacts. Those linked to service levels may also incorporate a mechanism for supporting new entrants into developing markets. Patronage incentive payments may be based on various criteria such as passenger boardings and passenger kilometers, the latter to account for the trip length distribution.

It is useful to distinguish between the basis for procuring the operator and the basis for paying/rewarding the selected operator (Wallis 2005). A number of combinations of procurement and payment strategies can be devised from this simple dichotomy, as summarised in Figure 1 (from Hensher and Houghton 2005a). Most commonly, the payment model would be defined in advance by government; and then the operator selected through competitive tendering or a negotiation process. However, competitively tendered and negotiated contracts can be complementary in a temporal sequence. For example, one can use a service incentive payment under a negotiated contract to assist new entrants into new markets (including a base community service obligation payment) perhaps with training/skill enhancement support<sup>9</sup>. When a market is established (given sufficient elapsed time - e.g. 5-10 years) one might introduce a performance-based contract (PBC) via competitive tendering to rationalise the number of 'competing' operators in a corridor (as is proposed for Santiago, Chile) or select an individual operator at a route or corridor or area level; or, one might move to a PBC regime via a negotiated contract system. Alternatively, a government might use competitive tendering to short-list a number of suppliers with whom it then negotiates to select the preferred supplier.

Incentive payments can be introduced through competitive tendering or negotiation under a PBC regime. For example, one can establish a patronage incentive payment of various possible types: (i) the Adelaide Model (see Wallis 2003, 2005) provides an agreed non–competitive sum per additional passenger; (ii) the Hensher-Houghton Model (2004, 2005) provides a fixed or variable patronage incentive payment budget competed for amongst a predefined set of operating areas, referred to as competition at the later service delivery stage, as distinct from at the tendering stage.

Given that many factors affecting patronage are outside the influence of the operator, the appropriate level of patronage incentive payment may be fairly modest; and this will then need to be supplemented by a service incentive payment to provide the operator with sufficient incentive to expand services. The Adelaide model adopts this approach, and requires a tactical-level sign-off on service proposals. This service incentive payment may be a marginal payment rate (as in Adelaide) or an amount competed for by operators who grow service from an agreed minimum service level (MSL) linked to a base payment. The introduction of a service incentive payment, where one does not compete for subsidy budget between operators in different spatial settings, is an appealing model for developing economies such as South Africa and Brazil (the current Brazilian model is shown on right hand side of Figure 1 by the thicker line only).

<sup>&</sup>lt;sup>9</sup> The issue of skill enhancement in preparation for participating competitive tendered or negotiated contracts is a real concern in many developing economies (examples being South Africa, Chile and Brazil).



Figure 1. Processes for Procurement and Payment Rates Determination (Hensher and Houghton 2005a)<sup>10</sup>

Note: (i) A Greenfield site is different to 'creating a market'. The latter is more global in its national context and refers to a general absence of expertise that can readily participate in the market, be it an area already serviced or a new development with no services (i.e. a Greenfield site). (ii) The block under Greenfield, could also be negotiated. For example, in South Africa (e.g. Durban) an expression of interest for new services is common which is not subject to CT.

We are now well placed to assess the influence of competitive tendering on cost savings as well as to highlight the range of other demand and supply side impacts. In the next section we draw on real world evidence from a range of locations throughout the world. We have selected the specific 'case studies' as examples of the diversity of implementation of competition tendering and other contracting regimes (such as quality contracts that are a mixture of negotiation and tendering).

<sup>&</sup>lt;sup>10</sup> We also have another possible process - competition at the service delivery stage, applied to determine patronage incentive payment rates when the budget is fixed, as promoted in Hensher and Houghton (2005). Competition for patronage incentive payments therefore, can be an optional complement to both competitively tendered and negotiated contracts. The distinction between competitively tendered and negotiated contracts is blurred to the extent that negotiated contracts may be used to determine patronage incentive payments in a contract where a community service obligation is determined through competitive tendering, to form a mixed contract. Furthermore, competition at the service delivery stage may be used to determine patronage incentive payments when a community service obligation is determined by either a competitively tendered or a negotiated contract.

# 3. Evidence on cost savings

#### 3.1 Overview of the evidence

Table 1 summarises the evidence from studies in 10 developed countries, covering more than 20 cities, on the cost impacts associated with the competitive tendering of urban bus services. This evidence relates to the period since 1985. The emphasis is on changes in unit (gross) costs of service provision, rather than on total costs (which may be affected by changes in the amount of service provided) or on net subsidy levels (generally reductions in net subsidy levels would be proportionately greater than any reductions in unit costs). Unit costs are typically measured per bus kilometre or per bus hour.

The main focus of Table 1 is on the unit cost impacts associated with the initial competitive tendering of services previously provided through a monopoly supplier arrangement, in most cases with a publicly-owned operator. However, more evidence is now becoming available on the experience with second and subsequent rounds of competitive tendering for the same services. Some of this evidence is included in Table 1, but it is set out in more detail in Table 2, for the five countries for which good evidence has been identified.

It is recognised that major difficulties arise in deriving a consistent set of data on cost impacts, in comparing results from the different countries and cities; and in drawing wider conclusions from the evidence:

- Cities start from different points in terms of pre-CT contracting models, operator ownership, funding arrangements etc.
- Frequently, CT is accompanied by changes in service levels, service quality standards, asset specification etc which would tend to affect unit costs of supply.
- The introduction of CT to a previously-monopoly situation is typically accompanied by institutional restructuring, with the separation of policy, funding and contracting functions from operating functions. The assessment of cost impacts attempts (where possible) to compare like-for-like functions before and after the introduction of CT. However, even assuming this is achieved, it should be recognised that these before/after comparisons generally relate to a package of regulatory and institutional policy reforms, rather than just the (*ceteris paribus*) introduction of a competitive procurement process to replace a monopoly situation.
- Typically there are significant one-off costs associated with the establishment of the CT system, and these may include transition (eg. redundancy, retraining) costs for the previous operator, particularly where this is a publicly-owned operator. These costs are often not included in publicly-available information.

Additional to these factors, if the impacts of CT policies are to be adequately assessed, the counter-factual case needs to be estimated (ie. what cost trends would have occurred in the absence of the CT policy). This is at best a difficult and somewhat

conjectural task, and was generally beyond the scope of our appraisal, which focussed on the unit costs shortly before and shortly after the CT process. Having noted these various caveats, the following sections comment on the main groups of evidence that are summarised in Tables 1 and 2.

## 3.2 Great Britain

In Great Britain (outside London), the 'deregulation' of local bus services was introduced in 1986. Socially-desirable but non-commercial services were then procured by local authorities to 'fill the gaps', through a CT process: these tendered services comprise 15%-20% of all services. In London, a fully-tendered regime was introduced from 1985, with all services being progressively opened to CT over a 15-year phase-in period (completed in 2000). Prior to 1985/86, local bus service provision in Great Britain was dominated by publicly-owned companies; but since the reforms the great majority of services in both London and elsewhere have been provided by private sector operators.

Sine 1985/86, unit costs (per bus kilometre) both in London and the rest of Great Britain have fallen by about the same amount, slightly over 50% in real terms (up to year 2000). The unit cost reduction in London was, in the early years, somewhat slower than that elsewhere, reflecting that the reforms were implemented more gradually in London (although there was an element of the 'ripple' effect, with reductions in unit costs for the remaining monopoly services as well as the tendered services).

A number of studies have assessed the factors contributing to these cost reductions in more detail. Preston and Holland 2001 notes that the unit cost reductions have come fairly evenly from three main sources: reduced factor prices (particularly labour, but also fuel); reduced use of factors (again particularly labour, but also land); and improved production processes (partly associated with the deployment of more appropriately-sized vehicles).

Since the late 1990s, there is clear evidence (Table 2) that CT prices have been increasing faster than general inflation and, it appears, faster than the inflation of any composite cost index relevant to the urban bus sector. In London, contract prices in the 5 years up to 2000/01 increased at a rate of around 10% pa on average (money terms); while in the rest of Great Britain the rate of increase was somewhat higher: over this period the general rate of inflation was well under 5% pa.

Table 2 indicates some of the main factors contributing to the escalation of contract prices in London: many of these factors are associated with higher standards (eg. low floor buses) and input price increases reflecting a buoyant economy and a tight labour market. The evidence indicates that operators have not in general been earning 'excessive' profits, although profit margins have tended to increase from the low levels experienced in the late 1980s/early 1990s.

| TABLE 1: SU   | <b>MMARY OF COST</b>      | <b>IMPACTS FROM (</b>  | COMPETIT                | TIVE TENDERING                             |  |   |  |   |
|---------------|---------------------------|--|-------------------------|--|--|---|--|---|
| Country       | City                      | Prior Operations   | Initial<br>CT<br>Timing | Proportion of<br>Services Subject<br>to CT | Key Tender &<br>Contract Features  | Unit Cost<br>Impacts of CT  | Other Impacts  | <b>Reference/Notes</b>  |
| Great Britain | London                    | Govt monopoly operator   | 1985-<br>2000           | Progressively to 100%                      | Route contracts,<br>gross cost, mostly 5<br>years  | 51% reduction<br>(1985-2000).   | Increase in bus kms (32%),<br>patronage (12%) and farebox<br>cost recovery (60% to 95%),<br>1985-2000.       | Cox and Duthion 2001.   |
|               | Rest of GB                | Various – most by<br>public (municipal<br>or national)<br>operators. | 1986                    | c. 20% ('gap-<br>filling' services).       | Route contracts<br>('gap-filling'),<br>mostly small, most<br>net cost basis, up to 5<br>years. | 54% reduction<br>(1986-99).   |  | Cox and Duthion 2001, Atkins<br>2005, van de Velde 2003.<br>Only c. 20% of services subject to<br>CT (remainder deregulated) – but<br>cost figures relate to total market.<br>Unit cost reductions slightly<br>greater than for London over same<br>period. |
| Norway        | National/ Major<br>Cities | Mostly private   | 1994<br>onwards         | 3% up to 1999,<br>now c. 15%.              | Route contracts,<br>gross cost   | Not known (CT<br>services not<br>separated from<br>others)  | Overall unit cost reductions in<br>sector estimated in range 6% to<br>20% (1986-96), little change<br>since. | Johansen 1999, Fearnley and<br>Carlquist 1999, van de Velde<br>2003.<br>Up to 1999, only c. 3% of national<br>services were subject to CT;<br>proportion has now increased to c.<br>15%.  |
|               | Lillehammer               | Private operators  | 1995                    | 100%                                       | Route, gross cost + incentive, 6 years.  | Initial 21%<br>reduction.<br>Subsequent increase<br>of 33% in second<br>tender round.   | Initial increase in patronage (33%) and revenue (17%).   | Soberg 2001.  |
| Sweden        | All (national)            | Primarily public<br>operators  | 1989<br>onwards         | Progressively to<br>95% (year 2000)        | Mostly route, gross cost.  | Average reductions<br>due to CT, 1987-93,<br>originally estimated<br>at 12%-14%; more<br>recent re-estimates<br>5%-6%. Little<br>further change<br>1993-2001. | Services have increased,<br>quality improved and vehicle<br>age reduced in most cases.                       | Alexandersson and Pyddoke 2003,<br>Carlquist and Johansen 1999.<br>Some doubts on level of cost<br>reductions attributable to CT.   |
|               | Stockholm                 | Public operator dominant.  | 1989 on<br>wards        |  | Area/route, gross cost, 5 years.   | Reduction 20% to 32% in first 3 years of CT.  | Vehicle age/quality generally<br>enhanced and operational<br>performance improved.                           | Cox and Duthion 2001, Halcrow<br>Fox 2000, Dept of Public<br>Enterprise Ireland 2000.   |
|               | Helsingborg               | Public operator  | 1992                    | 100% (initially)                           | Area (city-wide),<br>gross cost, 5 years.  | 27% reduction.  |  | Carlquist and Johansen 1999.<br>Subsequent conversion to net cost,<br>with operator responsible for<br>service development etc.   |
| Finland       | Helsinki                  | c. 50% public<br>(municipal/nationa                                  | 1995<br>onwards         | Progressively up to 90% + by 2000.         | Route, gross cost + quality incentive, 5   | Initial reductions 17% to 34%: 1999   | Increased service levels, reduced fares, upgraded fleet  | YTV Transport Department 2001.  |

| TABLE 1: SUMMARY OF COST IMPACTS FROM COMPETITIVE TENDERING |   |                                 |                         |  |   |  |  |  |
|---|---|---------------------------------|-------------------------|--|---|--|--|--|
| Country   | City  | Prior Operations                | Initial<br>CT<br>Timing | Proportion of<br>Services Subject<br>to CT                                       | Key Tender &<br>Contract Features                                 | Unit Cost<br>Impacts of CT   | Other Impacts  | Reference/Notes  |
|   |   | 1)                              |                         |  | years.  | costs estimated at<br>31% lower than if at<br>pre-CT rates.<br>Subsequent rounds<br>increases 10% to<br>18%. | and reduced subsidies.   |  |
| Denmark   | Copenhagen  | Primarily<br>municipal operator | 1990-<br>2002           | Progressively to 100%  | Route, gross cost +<br>quality incentives, 4-<br>8 years.         | 24% reduction up to<br>1997; but<br>subsequently c.<br>14% increase<br>(1997-2003).                          | Large proportion of cost<br>savings used to increased<br>service levels.             | Cox and Duthion 2001, Halcrow<br>Fox 2000, HUR 2003, van de<br>Velde 2003.                       |
| Netherlands   | Amersfoort  | Private                         | 2002                    | 100%   | Area, net cost, 6<br>years  | Reduction 37%  | 60% increase in bus hours for previous budget.                                       | van de Velde and Pruijmboom<br>2005  |
|   | S Holland<br>DAV  | Private                         | 2003                    | 100%   | Area, net cost, 4<br>years  | Reduction 15%  | <ul><li>11% increase in bus hours for</li><li>6% budget reduction.</li></ul>         |  |
|   | Utrecht NW  | Private                         | 2002                    | 100%   | Area, net cost 4+2<br>years                                       | Reduction 15%  | 18% increase in bus hours for previous budget  | -  |
| Italy   | Rome  | – (new services)                | 2001                    | 100% of these services.  | Tender: trade-off<br>quality features v<br>price.                 | Reductions 8%, 8%<br>and 25% relative to<br>in-house operation.  |  | Marcucci and Avarello 2005,<br>Mingardi 2005<br>Validity of cost impacts estimates<br>uncertain. |
| USA   | 8 cities  |                                 |                         |  |   | Reductions in range 30% to 46%, relative to non-CT operations in area.                                       |  | Cox 2003.  |
| Australia   | Adelaide  | Public (state govt) operator.   | 1996-<br>2000           | 100% over 4 year period.   | Area (large), gross +<br>patronage incentive,<br>5+5 years.       | Reduction 38% (1994-2001).   | Service levels and patronage increases since full CT implementation.                 | Wallis 2003.<br>Cost impacts allow for<br>administration costs.                                  |
|   | Perth   | Public (state govt) operator.   | 1995-<br>1998           | 100% over 3 year period.   | Area (large), gross +<br>patronage incentive,<br>7+ 6 or 7 years. | Reduction 22% (1996-2001).   | Service level and patronage increases.   | Wallis 2003  |
| New Zealand   | Main cities<br>(Auckland,<br>Wellington,<br>Christchurch) | Mostly public.                  | 1991                    | All services not<br>'deregulated' (ie. c.<br>50% WGN, over<br>90% AKL &<br>CHC). | Route (small, net, mostly 3 to 5 years.                           | Public operators: c.<br>40% reduction.<br>Private operators c.<br>5-10% reduction.                           | Little change in short term<br>(some loss in patronage<br>because of uncertainties). | Travers Morgan 1994  |

| <b>TABLE 2:</b>             | SUMMARY OF C | OST IMPACTS SUBSEQ          | UENT TO INITIAL TENDER R  | OUND  |   |
|-----------------------------|--------------|-----------------------------|---|---|---|
| Country                     | City         | References                  | Services Assessed   | Unit Cost Impacts   | Notes, Comments   |
| Country<br>Great<br>Britain | London       | Steer Davies Gleave<br>2001 | London bus contracts<br>tendered in 1995/96 and<br>retendered in 2000/01                              | Average gross cost/bus km<br>increased by 58% to 63% in<br>real terms (ie. c 10% pa<br>average)   | <ul> <li>Increase comprised following main components:</li> <li>Operating staff labour 35% - 55%: tighter labour market; increased proportion of evening and weekend work; and increased shift cover to improve service reliability.</li> <li>Fuel 45% - 80%: higher fuel prices; and higher consumption rates, relating to higher environmental standards.</li> <li>New vehicles c. 45%: accelerated fleet replacement, particularly to introduce low-floor vehicles; and increased use of vehicle leasing, to provide greater flexibility at end of contract.</li> <li>Engineering &amp; maintenance 60% - 95%: higher pay rates for skilled staff; and increased accident and insurance costs.</li> <li>Provision for contract penalties: said to have increased three-fold, particularly due to staff shortages.</li> </ul> |
|                             | Rest of GB   | ATCO 2002                   | Sample of public bus<br>contracts (outside London)  | Average year-on-year price<br>increases for like-for-like<br>contract renewal (money<br>terms):<br>1998 11.8%<br>1999 17.0%<br>2000 16.7%<br>2001 20.9%<br>2002 19.6% | Underlying inflation in transport price index was 2.2% to 2002 (3.9% to 2001).<br>Average tenders/contract was 3.0 in 2002 (2.9 in 2000).   |
|                             |              | DETR 1999                   | Selected case studies of<br>tender prices (Cheshire, Kent,<br>Staffordshire, Suffolk, Tyne<br>& Wear) |   | Reasons for cost increases included: rising staff pay<br>rates, higher vehicle costs, falling revenues, increased<br>rates of return.<br>No apparent correlation between unit costs and<br>number of bids.  |
|                             |              | Atkins 2005                 | Trends in tender prices in<br>England (outside London)  | "Local authorities have been<br>facing annual cost increases<br>of between 10% and 20%<br>simply to secure the same<br>level of supported service".                   | More detailed report awaited.   |

| TABLE 2: SUMMARY OF COST IMPACTS SUBSEQUENT TO INITIAL TENDER ROUND |             |                                  |   |  |  |  |
|---|-------------|----------------------------------|---|--|--|--|
| Country   | City        | References                       | Services Assessed   | Unit Cost Impacts  | Notes, Comments  |  |
| Norway  | Lillehammer | Soberg O 2001                    | All Lillehammer bus services,<br>originally tendered 1995,<br>retendered 2001.  | Changes in gross costs/bus<br>km (money terms) since 1996:<br>1996–00 +45%<br>2000–01 (retendered):+ 33%   | Not clear how these increases relate to trends in RPI,<br>transport price index or costs of other bus services.  |  |
| Sweden  | National    | Alexandersson &<br>Pyddoke 2003  | Sample of all local bus<br>services in Sweden (by 2000,<br>95% had been subject to CT,<br>at least once).                                   | Change in gross costs/bus km<br>(real terms) 1993-2001 close<br>to zero (after 5% reduction in<br>period 1987-93).                                   | Some doubts about veracity of these results.   |  |
| Finland   | Helsinki    | YTV Transport<br>Department 2001 | Unit cost rates for all bus CT<br>in the Helsinki region,<br>comparing Round 2 and 3<br>routes with Round 1 for each<br>group of contracts. | Change in real gross costs:<br>YTV: Round 2 (1997-98) +<br>1% to 3%; Round 3 (2000-01)<br>+ 9% to +15%<br>Espoo: Round 2 (2001): + 7%                | Round 1 savings over pre-CT situation were YTV 26% to 34%, Espoo 32%, so unit costs are still well below pre-CT figures.   |  |
| Denmark   | Copenhagen  | HUR 2003                         | All Copenhagen bus services,<br>covering cost rates from 13<br>tendering rounds, 1990-2003.   | Change in real gross costs/bus<br>hour by tender round:<br>1990 – 1997/98 (low point) –<br>24%<br>1997/98 – 2003: + 14%<br>Overall 1990- 2003: - 13% | Suggested that part of the cost increases reflects<br>higher quality etc standards (greater passenger<br>comfort, easier access vehicles).<br>Some apparent reduction in competition due to<br>mergers/acquisitions. |  |

#### 3.3 Scandinavia

The Scandinavian countries have invested heavily in economic reform of their bus sector over the last 15 years (Alexandersson and Pyddoke 2003, Berge et. al. 2005, Jarvilouna 2003, Johansen 1999, Norheim 1999).

In **Norway**, CT is permitted under legislation passed in 1994, but the majority of services are still procured through negotiated (generally net cost) contracts. Over the period 1986-96, unit costs for the industry as a whole were estimated as reducing in the range 6% to 20%, while cost recovery increased from 63% to 76%. It is hypothesised that these cost reductions were the outcome of several factors relating more to the threat of CT rather than CT itself: these included 'normalised cost contracts' and 'efficiency agreements'.

Sine the late 1990s negotiated performance-based contracts, described as 'quality contracts' have been introduced in some centres. The Hordaland model is the best example of recognising the virtues of incumbent operators (see Calquist 2001). From January 2001, the contracts are long term net output-based subsidy contracts in which an operator is given revenue responsibility for a specific service and must focus on user need and demand for public transport services. Within the contract specification, an operator may change fare levels and offer more flexible fares. The service level can be changed if it is within a given average of service level defined in advance and specified in the contract. This enables an operator to rationalize services and improve resource allocation over time (Berge et. al. 2005). The operator bears all economic risks connected to costs and revenues. Any cost savings realised by providing existing services will be used to develop new or improve existing public transport services. The approach is designed to give the authorities a policy instrument to improve supply according to passengers changing preferences over time within the region without regulating the services in detail. This is left to the agent that a priori has the best market knowledge.

As in **Great Britain**, some of the more recent data for CT services in Norway indicate significant cost increases (in real terms) in the second and subsequent tendering rounds (Table 2). It is unclear how these trends compare with the cost trends in the Norwegian local bus sector as a whole.

In **Sweden**, CT for local bus services started in 1989 and by 2000 some 95% of services nationally had been subject to CT at least once: the market that was previously dominated by public operators is now dominated by private operators. Contracts have typically involved a gross cost funding model, on either a route or area basis. There are some doubts on the levels of cost savings achieved, and the contribution of CT to these savings. National data for the period 1987-93 indicated unit cost reductions due to CT of around 12%-14%, but since re-estimated at 5%-6%. Figures for Stockholm indicate greater unit cost reductions, in the range 20%-32% in the first 3 years after the implementation of CT. More recent data indicate little further change in unit costs since the mid-1990s.

In **Finland**, CT for local bus services started in 1995 and now covers most local and regional services. The industry has remained a mix of public (state or municipal) and

private operators. In Helsinki, unit cost reductions in the initial tender rounds were in the range 17% to 34%, and by 1999 overall costs were estimated at 31% lower than if the pre-CT rates had applied. The second and third rounds of tendering (1997-2001 period) have seen unit cost increases in the range 10% to 18%, but cost rates are still well below those prior to the introduction of CT.

In **Denmark**, 1990 legislation imposed a CT requirement on all local bus services, and this was implemented progressively in the period up to 2002. Market dominance by public operators was replaced by predominantly private operators. In Copenhagen, unit costs reduced by some 24% (real terms) over the period 1990-1997. Since then there has been an increase of around 14%, leaving a net cost reduction over the whole period of 13%.

#### **Other European Countries**

Table 1 also shows results of competitive tendering for some services in the Netherlands (3 localities) and in Italy (Rome): in both countries, the CT services currently account for only a small proportion of all services. Unit cost reductions are indicated in the range 15% to 37% (Netherlands) and 8% to 25% (Italy, new services, relative to unit costs of municipal operation).

#### **United States**

The United States has a chequered history in the development of competitive tendering for local bus services. Cost data are available for CT services in eight major metropolitan/city areas, together accounting for some 3000 buses contracted through CT (but only some 9% of all urban bus services). CT has been applied to a mix of public and private monopoly operations, usually with management contracts. Savings in unit costs per bus hour (relative to unit costs for non-competitive operations in the area) have been in the range 30% to 46% (Cox).

#### Australasia

In **Australia**, CT has occurred since 1993 in three cities (Adelaide, Perth, Melbourne) where state governments decided to open to competition services previously supplied by the state operator on a monopoly basis. By contrast, area monopoly services provided by private operators (eg. in parts of Sydney and Melbourne) have not been opened to competition, but amended contracts have been negotiated with the incumbent (private) operators.

In Adelaide and Perth, bus fleets and depots have been retained by the governments and leased to the successful private operators under 'management contracts', with area contracts funded on a 'gross cost plus patronage incentive' model. In Melbourne, the government bus fleet and depots were sold to the successful private operators, with area contracts on an 'augmented farebox' basis.

In all thee cities, CT has been very successful in reducing the costs of service provision. Unit cost reductions for Adelaide are estimated at about 38% in real terms (1994-2001), and for Perth at 22% (1996-2001): the lower savings figure for Perth in part reflect the greater cost efficiency of the previous public operator there. The CT/contracting reforms have also been successful in all three cases in increasing patronage in absolute terms and relative to a likely counter-factual case (as far as can be assessed):

contributors to the increased patronage include additional services, principally at offpeak periods (funded through the CT cost savings); adjustments of services to better match market needs; improvements of service quality, accompanied by enhanced monitoring; and the existence of the patronage incentive payments.

In **New Zealand**, CT was introduced in a 'big bang' in 1991, as a component of a package of regulatory and institutional reforms focused on a 'semi-deregulated' model, and involving corporatisation or privatisation of the public (municipal) operators that had previously provided most services. Since these reforms, private operators have dominated the market: a minority of bus services are being provided on a commercial ('market initiative') basis, the majority on a CT ('authority initiative') basis.

The reform package resulted in unit costs of the ex-public monopoly operators reducing by around 40% (1989-1992). By contrast, the unit costs of the private operators, that had previously held area monopolies in some suburban areas, reduced only marginally, by in the order of 5%.

#### 3.4 Summary on cost savings

The above appraisal of the evidence from developed countries world-wide shows that the opening to competitive tendering (as part of a wider package of regulatory and institutional reforms) of services previously provided by (predominantly) publiclyowned operators under non-competitive area/regional monopoly arrangements has in most cases resulted in substantial cost savings in the shorter term. The extent of short/medium-term reductions in (real) unit costs in the main countries for which good evidence is available may be summarised as:

| <b>&gt;</b> | Great Britain<br>Scandinavia | : | 50%-55% considerable spread of results (5%-34%), but most in range 20%-30% |
|-------------|------------------------------|---|--|
| •           | USA                          | : | 30%-46%  |
| •           | Australia                    | : | 22% (Perth), 38% (Adelaide)  |
| •           | New Zealand                  | : | c. 40% (public operators), c. 5% (private operators).                      |

These cost reductions are very substantial, and overall on the high side of the preconceptions of the authors (a crude 'rule of thumb' sometimes used is for indicative cost savings of 30% from competitive tendering/outsourcing).

As discussed earlier, numerous factors will influence the differences in results between the different countries and situations, and considerable care is needed in interpreting the results. One factor that is a prominent influence is that of the starting (pre-CT) situation, and in particular the cost efficiency of the operators in this situation. The New Zealand results clearly illustrate the role of ownership in this regard: the NZ private operators had substantially lower costs than the public operators in the previous monopoly situation; and hence the cost savings achieved in respect to these private operator services were very much lower than those for the public operator services. The above savings relate to the initial round of CT, when previous non-competitive monopoly operations are opened to competition. In subsequent tendering rounds, when the system has matured, the weight of evidence suggests significant real cost increases from the initial round figures. There is no doubt from the evidence that an element of these apparent cost increases is in many cases the result of more demanding contract specifications (eg. low-floor buses). However, we would hypothesise that other components are associated with:

- The greater experience of bidders, resulting in:
  - more informed bidding
  - less likelihood of bid errors or mis-estimates (which sometimes result in the 'winner's curse' problem)
- Less emphasis by incumbent bidders on retaining market share at all costs
- Bidders taking a longer-term perspective and nominating higher profit margins
- Lesser levels of competition for tenders (in some cases).

This is an aspect on which further research and evidence remains desirable.

# 4. Procuring services through contracting: Performance based contracts delivered through competitive tendering or negotiation with incumbents

The assessment of alternative contract regimes in delivering bus public transport recognises that efforts to recover costs and reduce subsidy outlays cannot (and should not) be at the expense of a dimunition in the public transport task. The best single measure of the success of a specific contracting regime is the growth in patronage<sup>11</sup>. This can be attributed to many factors both within and outside of the sphere of influence of the operator and even the regulator. What is clearly understood is that a contracting regime without economic incentives is unlikely to deliver the best set of achievable patronage benefits. In this section we attempt to synthesise what appear to be the major lessons and experiences gained to date in the ongoing development of improved ways of contracting the provision of public transport that has appeal to all stakeholders.

The key question is: "To what extent has competitive tendering served its role well and is there a growing role for negotiated performance based contracts in circumstances where

- 1. the financial gains from re-tendering are small;
- 2. the incumbents are efficient suppliers; and
- 3. a greater focus should be placed on innovation in service supply, growing patronage and providing some longer term incentives for operators to invest in quality assets?"

<sup>&</sup>lt;sup>11</sup> Alternative measures are patronage per dollar of subsidy outlay and net benefit per dollar of subsidy.

Competitive tendering and negotiated contracts can have complementary roles under a performance-based regime. It is quite compatible for a given contract to determine the community service obligation linked to a minimum service level through competitive tendering while determining a patronage growth incentive payment rate through a negotiation process<sup>12</sup>. The key requirement is that contracts have transparency and simplicity. This may be helpful in some cases where a legal requirement for competitive tendering may be satisfied by a community service obligation determination, leaving a level of negotiated contract or competition at the service delivery stage to determine payments for service/patronage improvements.

Negotiated contracts should be subject to benchmarked best-practice context-specific costs (that arguably approximate the competitive tendering outcome), with incentive payments for achieving specified growth in patronage and/or service levels.<sup>13</sup> The following assessment, based on Hensher and Houghton (2005, 2005a), Preston (2001, 2005), Wallis (2005), Wallis and Bray (2003), Wallis and Gale (2001) summarises the main features and merits of the competitive tendered (CT) and negotiated contract (NC) procurement approaches against a set of key contracting attributes. It embellishes the empirical evidence in the previous section and more, in recognition of the broader set of experiences that have evolved out of the range of contract regimes. The commentary is also influenced by a broader set of observed circumstances, often not reported in publicly available reports.

#### 4.1 Cost and subsidy impacts

- 1. CT has been successful in delivering cost reductions but generally this relates to the first round of tendering of a public monopoly service<sup>14</sup>.
- 2. Evidence is accumulating of cases where some of the initial cost savings through CT are eroded through cost escalation in subsequent tendering rounds. Such cost escalation may reflect a variety of factors such as labour market trends, enhanced vehicle and service specifications, reduced competition, and reaction to excessively low initial bids the 'winners curse'.
- 3. It is too early to establish whether negotiated performance based contracts are likely to result in lower (or higher) subsidies than CT contracts. Any assessment must account for expected changes in service levels.

<sup>&</sup>lt;sup>12</sup> The Adelaide model enables the winner bidder to negotiate service design after winning the right to provide the services.

<sup>&</sup>lt;sup>13</sup> Some operators prefer to have a government determined sum of money available that is not dependent on the success or otherwise of all operators in growing patronage. This is the preferred model promoted by the private operators in Sydney. This model essentially recognises that the competition is between public transport and other modes, especially the car. The challenge is for government to establish a suitable budget to ensure delivery of patronage payments. The Adelaide experience has shown what can happen if the operator is too successful – the money runs out but the government has a contractual obligation and hence is looking for ways of reducing total payments to operators. Future contracts should learn from this openended approach.

<sup>&</sup>lt;sup>14</sup> There is evidence that corporatisation together with budget constraints and the threat of competition may also deliver substantial savings – although these would tend to happen more slowly and perhaps to a lesser degree than with contracting.

#### 4.2 Administration and regulatory costs

- 1. CT involves significant administration costs to both operators and government/regulators, typically 5 percentage points of the initial cost savings. In addition, the transition costs to operators and to users (through service changes, uncertainties etc) may be considerable. Repeated tendering reduces administration costs but these increase as a percentage of any gains in cost reduction.
- 2. However, NC may also involve significant transactional and coordination costs, particularly in establishing appropriate benchmarks and monitoring performance against these. Ongoing administration costs appear to be similar to CT provided monitoring is included in both regimes.
- 3. CT may degenerate into an auction in the labour market, possibly leading to excessive wage reductions and the need for minimum wage level regulation, especially in developing economies. This appears to be the case in South Africa and many locations in South America.

#### 4.3 Establishment of appropriate benchmarks

- 1. CT establishes benchmark subsidy rates through the competitive process as long as there are enough bidders.
- 2. Under NC, 'benchmarking' and 'yardstick competition' approaches are used to approximate the results of the CT process. However such approaches are imperfect (particularly in 'green field' situations) and may involve complex calibrations and extensive negotiation processes. As each bus network and area is different, fair treatment across all operators may be difficult to achieve.
- 3. If comparisons among firms (ie. yardstick competition), becomes systematic and operators under NC do not change, collusion around performance benchmarks may arise. However there is also a risk (with empirical evidence available) under CT in operators colluding in deciding who bids for which contracts.
- 4. CT is an appealing (albeit necessary) 'fall-back' option for government in the event that the negotiation process cannot be concluded satisfactorily.

#### 4.4 Accountability and transparency

- 1. NC involves a less transparent process with greater danger of regulator capture.
- 2. However, CT is not free from such dangers, as illustrated by the experiences with the Melbourne train and tram franchises (Stanley and Hensher 2005).
- 3. Under CT, the incumbent operator accumulates extensive market knowledge, much of which is not made available to the regulator. This may give the incumbent operator a substantial advantage in re-tendering. This knowledge bank can be provided to the regulator under CT and NC through reporting requirements and auditing.

#### 4.5 Optimising networks and funding allocation

- 1. Networks subject to CT may be designed to maximise social surplus subject to a budget constraint, provided the entire network is tendered at the same time; otherwise social surplus maximisation is problematic.
- 2. Within a NC process (and possibly CT), it is possible to arrange competition between operators for a fixed incentive payments budget (for patronage and/or service incentives), over all levels of demand and service or above a predetermined minimum level (as per the Hensher-Houghton (2004) framework). This should ensure that competitive forces are at work *throughout* the life of a PBC, provided that the incentive scheme is an effective mechanism to deliver service improvements and active monitoring takes place.
- 3. Experience under either CT or NC, suggests that regulators typically err on the side of caution and tend to let contracts based on previous services. However, with appropriate service review procedures during the contract term, subsequent changes may be initiated between the two parties although arguably this is more difficult under the CT than the NC model.

#### 4.6 Some Development, performance incentives and monitoring

- 1. Key performance indicators and appropriate benchmarks are an important feature of negotiated contracts, since they form the basis for negotiation of contract renewal. The regulator must have a good knowledge of best practices, and cannot be dependent on advice from operators (note the situation in Brazil where fare adjustments have been based on cost escalation advice from the operators Hensher and Houghton 2005a).
- 2. Under both NC and CT, incentives may need to be large to influence operator behaviour. This may be a particular problem when available funds are constrained and have to be shared between multiple operators.
- 3. Inadequate contract design (under either CT or NC) can result in perverse incentives, depending on the basis of reward, for example through encouraging empty buses, split routes, longer trips.
- 4. There is a danger of setting targets too low, especially in cases where external factors prove favourable, and hence operators becoming complacent.
- 5. Under NC, there is a danger that management effort will unduly focus on justifying their performance in order to secure contract renewal, rather than on genuine performance improvement. Government can minimise this risk by setting minimum targets for growth.

#### 4.7 Government funding risks

1. All incentive-based contracts may involve significant budget uncertainty for government, associated with service-related or patronage-related incentive payments. However, the extent (if any) of this problem depends on the details of contract specifications. For example, under the Adelaide bus contracts, incremental patronage payments approximate to incremental fares income, leaving minimal patronage risk to government, while government has the veto on any proposed service changes.

2. The Hensher-Houghton (2004) payment model (which could be applied under CT or NC) can operate within a budget cap, being designed to encourage competition between operators for available subsidy so as to maximise social surplus per \$ subsidy.

#### 4.8 Encouragement of a strong, diverse supplier market

- 1. CT is likely to lead to periodic new entrants to the local market, and hence encourage innovative approaches etc; while NC may tend to result in ossification of the supplier market.
- 2. With suitable contract design, CT may be used to encourage the development of smaller and new operators, as well as provide roles for larger established and entrepreneurial operators (maybe from overseas).
- 3. Under CT, there is some danger of excessive consolidation of the supplier market among a few large operators with risks of excessive market power and possible collusion. However, this danger can be minimised by imposing market share or equivalent limits on any one operator in an area.
- 4. CT may give excessive advantages to incumbents in the tendering process (eg. through superior information, ownership of valuable depot sites etc), thus discouraging a strong supplier market. Such advantages can be reduced through appropriate contract specification.
- 5. CT may be iniquitous under an empowerment regime such as in South Africa. Here it is desired to attract new entrants, to develop a market of reliable operators, while limiting the number through tendering (which will almost certainly discourage the smaller less advantaged operator), and at the same time giving them a limited and uncertain future in a volatile market. The transaction costs will be too high for too many operators. NCs may be even more iniquitous if they reinforce incumbency advantages; however benchmarking of costs is designed to prevent this.

# 5. Conclusion: Some warnings

Transaction cost economics maintains that it is *impossible* to concentrate all of the relevant bargaining action at the ex ante contracting stage, which is what many forms of competitive tendering without ongoing built in incentive structures essentially do (Williamson 1987). Instead bargaining is pervasive in which case the institutions of private ordering and the study of contracting in its entirety take on critical economic significance. Performance-based contracts, negotiated or tendered, align with this view (see Hensher and Stanley 2003) since the market operates actively throughout the contract period (under signals delivered through incentive payments). The behavioural attributes of human agents, whereby conditions of bounded rationality and opportunism are joined, and the complex attributes of transaction with special reference to the condition of asset specificity, are responsible for this condition (Williamson 1987, 178). Alignment of incentives is central to efficient contracts and property rights. The latter emphasises that ownership also matters, with rights of ownership of an asset defined as the right to appropriate returns from the asset, and the right to change the form and/or substance of an asset. Competitive tendering with incentives but

high (albeit inefficient) risk of continuity is problematic, giving new appeal to negotiated performance-based contracts.

Transaction cost economics acknowledges merit in both monopoly and efficient riskbearing approaches. It insists, however, that efficiency purposes are sometimes served by restraints on trade (Williamson 1987, 188). This statement by a leading author of transactional economics, X-efficiency and contracting theory, is crucial to the discussion because it puts forth the argument that examination of the underlying attributes of transactions discloses that restraints on trade can help to safeguard the integrity of transactions when firm-specific investments are at hazard.

Although competitive tendering is market driven at the time of bidding, given the dominating focus on cost efficiency, it generally provides the wrong set of incentives to do more in line with social obligations or external benefits. The market will not identify (or guarantee) the optimal level of subsidy as derived from a social surplus maximisation model in which profit maximisation and external benefits are both taken into account. This is especially problematic at a system-wide level, where the need to establish an incentive payment scheme taking into account all services in a geographical jurisdiction (eg a metropolitan area) is crucial to the calculation.

Competitive tendering is focussed on individual contracts with no mechanism to ensure that the incentive payment support sums to the optimal subsidy commitment across a broader geographic area. This is the area where broad-based performance based contracts (as set out in Larson 2001 and Hensher and Houghton 2004) has appeal because it takes advantage of the market, the obligation on delivering value for money spent from taxpayers in the form of optimal subsidy and external benefits. If bidders under competitive tendering are offering prices that comply with profit maximisation, then this is taken into account under performance based quality contracts but within a framework in which profit maximisation must comply with conditions of social surplus maximization.

To these points we add the concern that competitive tendering is open to regulatory capture by powerful monopolist providers. This concern increases as the number of operators diminishes with global purchasing. Provided remuneration of operators under performance based quality contracts is based on efficient cost benchmarks, government objectives might be better delivered in this contracting environment (under a transparent partnership) than under competitive tendering.

There might be some concern that rejecting competitive tendering in favour of negotiated performance based quality contracts will entrench existing franchised service areas, when perhaps some re-arrangement of these areas would better achieve social goals from service provision. Performance based quality contracts depend on partnership relationships, both between individual operators and the regulator and between the set of operators and the regulator. One condition for the regulator agreeing to a system of performance based quality contracts across a region or area, where these performance based quality contracts are not delivered by competitive tendering, should be acceptance by the industry of operators in the region/area that, if strategic planning processes suggest a restructuring of service franchise areas, the industry will negotiate the change amongst participating operators. Provided the industry is closely involved

in the strategic planning processes, this condition of performance based quality contracts is a reasonable price for certainty<sup>15</sup>.

# Acknowledgements

We thank Erne Houghton, John Stanley, Darryl Mellish, Stephen Rowe, Didier van de Velde, Erik Carlquist and John Preston who have contributed in various ways to our research and appreciation of the issues presented herein.

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<sup>&</sup>lt;sup>15</sup> There is growing concern in England that concessionary fare subsidies are not matched by appropriate 'deliverable and measurable outputs' (DLTR 2002). The Director-General of the Greater Manchester Passenger Transport Executive stated in a submission to the House of Commons Select Committee's inquiry on the bus industry that *"We would like to reach a point where all the money paid to the bus industry is linked in some way to outputs"*. The most interesting feature of the reform proposal is, over a 3-5 year period, to transfer some or all concessionary fares budget into a central pot. Operators would then be asked to come forward with proposals for delivering a network of commercial and supported services determined by the central authority and 10 metropolitan governments. This has been described as 'voluntary quality contracts' that push at the limits of quality partnerships but which is necessary to improve the increasingly poor quality of service levels of bus provision (which has evolved out of economic deregulation and competitive tendering of non-commercial services).

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