Practical lessons for winning support for radical transport proposals

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Abstract

This paper proposes that while many plans and solutions to the transport problems of the 21st Century have been mooted, very few have succeeded in significantly improving the situation within Europe. It is suggested that many schemes face problems at the project implementation stage due to adverse public and/or political reaction. This paper incorporates a series of vignettes, several of which are based on in-depth interviews with practitioners directly involved in the implementation of the schemes in question. It looks at several existing ‘radical’ transport schemes from around the world in an attempt to draw lessons as to how they overcame this, not least
in terms of how the implementation of alternative strategies by European policy-makers could be shaped and adopted world-wide.

**Key words:** transport policy, policy implementation, transport demand management, case studies.

**Introduction**

It is widely acknowledged across the developed world that transport systems within many of its member states are stretched to breaking point. Since the 1950s, nearly all developed countries have witnessed a ‘mobility explosion’. For instance, between 1991 and 2001, car and taxi traffic levels in billion vehicle kilometres increased by 12% in the United States, 44% in Japan, 8% in Germany, and 14% in Great Britain, while usage almost doubled in Portugal (85%) and more than doubled in Spain (107%)\(^1\) (DfT, 2003).

This has resulted from an increase in road capacity, income and population. Both income and population growth are viewed as the major drivers behind increasing vehicle ownership and use (Marshall et al, 1997; Marshall and Banister, 2000). In the EU-15, there was a 34% increase in the number of vehicles owned between 1985 and 1995, with the number of cars on EU-15 roads growing from 60.77 to 165.54 million, an average growth rate of approximately 4% per annum. Thus, by 1996, there were 444 cars per 1000 EU-15 inhabitants (EC, 1999). A report by the Organisation for Economic Cooperation and Development predicted that this would increase by a

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\(^1\) Interestingly, vehicle use appears to have dropped slightly in Ireland and Sweden.
further 50% between 1995 and 2020, resulting in vehicle ownership levels of more than 600 per 1000 people in many EU-15 countries (OECD, 1995a).

While many plans and solutions have been debated, none has yet succeeded in significantly improving the transport situation within Europe. For instance in the UK, road user charging has been consistently touted by academics and transport planners as the ideal policy mechanism for traffic reduction since the 1960s, but was only implemented for the first time on a sizeable scale in February 2003. Moreover, the long term future of the central London scheme is still by no means guaranteed, with the Conservative Mayoral candidate Stephen Norris having declared his intention to abolish the scheme if elected (Wolmar, 2004). It is suggested within this paper that many of the problems experienced when trying to introduce ‘radical’ transport schemes are due to public and/or political opposition at the project implementation stage. A number of additional barriers – most notably resource, institutional and policy barriers, social, cultural, legal, and physical barriers - have also precluded such actions (Banister, 2002).

The most difficult barriers to overcome are the social and cultural barriers, which can also be described as public and/or political opposition. This perception is supported by Gunn (1978) in a seminal paper on ‘perfect implementation’ which has particular relevance in the transport sector (Ison and Rye, 2002). Gunn states that ‘the circumstances external to the implementing agency should not impose crippling constraints’. In other words, for implementation to occur, one needs to ensure that the policy is acceptable to all parties that have the power to veto it (Ison and Rye, 2002). Assuming rational behaviour, the policy-making actors will devise strategies for the implementation process, which will result in maximising their own benefits: as such
there will be both winners and losers and/or successful and unsuccessful implementation. There are examples of urban areas that have managed to implement radical car restraint policies without the associated negative consequences often experienced.

The aim of the paper is to examine a selection of existing schemes from across the world and briefly describe some of the common difficulties faced by those responsible for implementing transport projects. In order to achieve this objective a series of vignettes were constructed based on in-depth interviews with key stakeholders, which is all important when attempting to understand the reasons for scheme implementation. The paper explains how transport practitioners have overcome adverse public reaction in practice. For example, the paper outlines how the ‘Ring of Steel’ in London was introduced, how Electronic Road Pricing was ‘sold’ to the public in Singapore, and how motorists pay to enter Manhattan and San Francisco via bridge and tunnel charges. Eight strategies are identified for future policy implementation. Four of the strategies focus on ‘sweetening the pill’ of potentially unpopular measures while three aim to convince the motorist that the new policy is in fact a reasonable response to the traffic problem. The final strategy suggests that transport policy goals need to be met through the sympathetic introduction of other ostensibly unrelated policies – or ‘joined-up’ policy-making. Finally the paper offers some lessons for European policy-makers, revealing how ‘alternative’ implementation strategies could be shaped and adopted within Europe.

It is important to state at the outset that the case studies are at a high level of generalisation. In each case one key issue/aspect has been identified. This is not to say that the implementation of any such initiative can be distilled down to simply one
factor but the aim has been to offer an insight which may provide an important catalyst for change in urban areas worldwide.

**What is meant by ‘Implementation’?**

The term ‘implementation’ can be defined in many ways. For the purposes of this paper, ‘implementation’ can be viewed as: ‘policies, actions or decisions relevant to the target population that can be put into effect at ‘street level’, and ‘implementers’ as those responsible for doing that. As the definition implies, the policy process does not end once agreement has been reached on a proposal. The agreement still has to be implemented before the policy has any real existence. Bardach (1977) has described the implementation process as a game (see also Mendrinou, 1996: 13-16). According to Lane (1995), there are a number of aspects of the implementation process other than the accomplishment of the policy objectives. These include: the strategies and tactics employed by various parties to the implementation game the mechanism of delay as a decision parameter, the variety of motives among the participating actors, and the need for coalition building and fixing the game.

As implementation theory suggests, one of the most favourable conditions for successful implementation is where policy-makers and implementers develop a co-operative relationship (Richardson, 1996: 290). Indeed, Cram (1997: 84) suggests ‘if policies are formulated in the absence of active and enthusiastic participation by those whose co-operation is essential at the implementation stage, then implementation failure is more likely’. Pressman and Wildawsky (1984) suggest that correct implementation usually involves several semi-independent organisations or agencies, each of which can, to a large extent, block or change the direction of implementation.
When a situation arises where implementation failure becomes so evident that a process of ‘re-steering’ (Lundquist, 1972: 33) has to take place, policy-makers must take action to encourage or force implementers to behave in ways more likely to achieve the set policy objectives (Richardson, 1996).

The Alternative Strategies

The following vignettes form practical examples of how existing examples of radical transport schemes might be classified according to a simple strategic implementation framework.

Compensating losers

The introduction of road user charging in Singapore in 1975 has long been seen as a ‘one off’ event, which was only possible because of unique circumstances not least in that the citizens are essentially law abiding, and that there are no alternative cities for businesses to relocate to. While this certainly played a large part in the introduction of the original low-tech Area Licensing Scheme which used paper windshield stickers enforced through visual inspection by traffic inspectors within a single cordon, it was somewhat less important when an Electronic Road Pricing (ERP) system was adopted in 1998.

Instead, what is less well publicised is that the Singapore Government made a policy decision to ensure that the majority of people benefited as a result of the change. This was achieved by granting rebates to certain road user groups. For example, taxis were given road tax rebates for the first three years after implementation, while businesses
were given four years of rebates. In addition, a £60 (€31.3) a month levy imposed on owners of non-residential parking spaces was replaced by a nominal £1 (€0.52) per space per month licence fee in the same year. In other words, the Government effectively ‘bribed’ the public to ensure that the scheme had a chance of working in the first year, and gambled on the scheme being accepted by the time the rebates were withdrawn.

Such an approach was suitable as the main objective of the scheme was and is to manage traffic levels rather than raise revenue. The costs of the ‘subsidies’ were written off as a necessary implementation cost.

*Bribing the motorist not to drive*

Certainly the most overt way of ‘incentivising’ drivers out of their cars is by paying to them not to use their cars for certain trips - i.e. effectively bribing motorists to use an alternative mode. One application of this principle – the parking cash out – is becoming increasingly common in the UK. Annual schemes operate at Southampton General Hospital (Bailey, 2002) and at Orange’s new Bristol office (Baker, 2003), while a monthly pass system operates at the Vodafone offices in Newbury, Berkshire (Hopkins, 2003).

Still more radical, the pharmaceutical giant Pfizer began operating a parking cash out scheme that rewards non-car commuters on a daily basis among staff at its research and production facilities. The scheme was launched at Sandwich, in Kent in June 2001 and at Walton Oaks near Reigate, Surrey in December 2001 (Elliot and

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2 This section is based on an interview with Wong et al (2002).
Chadwick, 2002). This works by using staff personalised security pass ‘proximity card’ technology with an employee’s card credited with enough points to ‘pay’ for one month’s parking. The card opens the parking barriers and records how many points are used. If not used for parking, staff then cash in these parking points at the end of each month, which are paid through the payroll. Staff at the Sandwich site receive £2 (€2.9) per day for leaving their car at home, while at Walton Oaks the incentive is £5 (€7.2) a day – a reflection of the far tighter parking standards set by the local planning authority at the Reigate site. Overall, it is estimated that the value of cash outs given to staff will amount approximately £0.5m (€0.72m) a year, and currently around a third of staff travel to work by modes other than the private car.

It is not only parking spaces that motorists are paid to give up – in some cases they are paid to give up their cars. For example, during Green Transport Week in June 1999, public transport operator ‘First Glasgow’ introduced the ‘Swap a banger for a bus’ scheme, which led to more than 500 residents from Glasgow swapping their car for an annual bus pass worth £560 (€810) (BIA, 1999). In the USA too, a car cash out project is being tested by the State of Washington and public transport operator King County Metro in Seattle, through funding from the Federal Highway Administration value pricing programme (VPP, 2001).

**Highlighting the benefits**

By contrast in Oslo, Norway, road tolls were introduced in the city to raise money in order to pay for new transport infrastructure, and not to reduce traffic congestion. This

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3 This section is based on a telephone interview with Waerstad (2002).
meant that the ‘rebate route’ might exempt too many people for the required amount of money to be raised. Indeed, the charges introduced were relatively low and were spread across the ‘population’ as far as possible so that they could maintain traffic levels and maximise revenue.

In the Norwegian case therefore, the important objective was to convince the public that the money they were being asked to pay was being used to directly benefit them as motorists. Accordingly, much effort was spent on a well targeted and publicised information campaign, which was aided by the charge being implemented only 14 days after the Oslo Tunnel (later renamed Festningstunnelen - the Castle Tunnel) was opened to traffic.

**Offering more choice to the road user**

The key reason for drivers accepting the High Occupancy Toll (HOT) lane facility on Interstate 15 to the north of San Diego, is that drivers are offered a genuine and informed choice. Motorists can use the general purpose lanes for free with the likelihood of being delayed, or else they can pay but enjoy a hassle free and predictable journey time.

The HOT facility originally opened in 1988 as a High Occupancy Vehicle lane to buses, vanpools and two-person carpools (Shreffler et al, 2001). In 1991, it was suggested that the lanes could be opened to single occupancy vehicles (SOV) as only 50% of the two lanes’ capacity was being utilised while adjacent general-purpose lanes were experiencing severe congestion during peak periods. It was not until December 1996 that the HOT lane became a reality.

As drivers approach the HOT lane, variable message signs advise them of the
toll to use the facility. The level of this toll depends on how much spare capacity is available in the general purpose lanes, and varies from $US0.50 (€0.56) to $US4 (€4.5) in normal circumstances, with drivers paying more to use HOT lane when the general purpose lanes are congested. Around $US430,000 (€481,000) of the annual $US1.6m (€1.8m) toll revenue covers operating costs, and $US60,000 (€67,000) is received by the California Highway Patrol in order to enforce the operation of the lanes. State law requires the remaining money to be spent on developing the express lanes and improving the public transport service along the corridor, specifically, the express bus service known as the Inland Breeze, which began operating in November 1997. While initially there were concerns that the lanes would become ‘Lexus Lanes’ - i.e. only used by the rich - this has not been borne out in practice.

The lesser of two evils

Related to this, is the idea that the public is provided with two choices, one of which is even more politically unpalatable – yet just as logical or reasonable – as the favoured one. A recent example of this approach occurred in the City of Durham before the introduction of the congestion charge near the Cathedral in October 2002 (McGargill, 2002).

In summary, the problem was that traffic was causing problems for the World Heritage Site of the city’s cathedral and castle, as well as for pedestrian shoppers in the city centre. Accordingly, a transport study demonstrated that action needed to be taken – a position appreciated by almost everyone – either car drivers were to be charged for driving in the congestion area or else banned altogether. Given the alternative, it became the less controversial route for the council to adopt the access
It might have been worse…

A similar tactic was used to herald the introduction of London’s Congestion Charge in February 2003. Hostile newspaper reporting prior to the introduction of the charge and predictions of traffic chaos by the London Mayor (Webster, 2003), combined with a lessening in traffic due to a half term school holiday, meant that for the first week the charge performed far better than expected. Consequently, after the first week of congestion charging the scheme was seen as a policy success. Further research is obviously required however before labels such as ‘success’ or ‘failure’ can be assigned to this scheme.

Adapting tried, tested and accepted methods

Despite the recent media frenzy surrounding the launch of the London Congestion Charging Scheme in February 2003, two of the largest cities in the United States (San Francisco and New York City) have been charging vehicles to enter or exit downtown areas for many years. The two cities were able to introduce such a measure with virtually no adverse political problems. Drivers are required to pay tolls to cross eight ‘Caltrans’ bridges in the Bay Area of California, including the four bridges to enter San Francisco (Caltrans, 2000). Similarly in New York City, drivers crossing into Manhattan must pay to use seven of the city’s bridges and two tunnels (MTA, 2003). This apparent public acceptance indicates that drivers are happy to pay to use a facility such as a bridge or a tunnel, whereas the idea of paying to enter the downtown area of a city would be extremely controversial. Fundamentally though, it could be argued that there is no real difference in that both are paying to use a designated
section of road. The lesson here would therefore seem to be that ‘traditional’ charges that have been in place and accepted for many years might do an equally effective job as something seen as new, radical and threatening, but with rather less opposition. In addition, paying for a new ‘service’ is less galling than paying for something that previously cost nothing.

**The Trojan Horse**

Perhaps the classic case of a transport policy being introduced by a ‘trigger mechanism’ – i.e. on the back of a totally unrelated policy – is that of the so-called ‘Ring of Steel’ imposed on the City of London in 1993. This policy was instigated almost overnight in response to a terrorist bomb attack in Bishopsgate, and involved restricting access to the central core of the city. In addition to the closure of 17 minor streets and the conversion of 13 roads to one way, traffic signals were altered at 23 junctions and public transport and pedestrians were given greater priority (Cairns et al, 1998). Overall, as a result of what was a security policy – in the eyes of the public at least - traffic entering the restricted area fell by a quarter from 160,000 vehicles a day, and pollution levels were 15% lower. There was however, a slight increase in traffic levels on the zone boundary.

Interestingly, the bomb exploded only a month before a traffic scheme known as “The Key to the Future” was due to be implemented that was also designed to restrict traffic for environmental reasons, and so significant elements of this proposal were incorporated into the security operation.

The Manchester bomb that exploded on Corporation Street in the City Centre on 15 June 1996 caused severe damage to the buildings and infrastructure of the city’s retail
and commercial district and enabled the city stakeholders (e.g. local politicians, residents and retail organisations) to think boldly about transport issues. The bomb resulted in the closure of four central streets and yet the city continued to function normally. As such, the closures were made permanent as far as general traffic was concerned with a small number of streets being pedestrianised, whereas in other streets, access was limited to buses, taxis and servicing vehicles, or in some cases, the direction of traffic was altered thereby changing the routes of some of the city’s bus services (GMTU, 2001).

Overall therefore, it may be worth transport planners becoming more involved with the Emergency Planning sections at local councils. A note of warning is that care must be taken in choosing the ‘right sort’ of emergency. For example, the fuel shortages caused by a blockade of refineries by hauliers and farmers during September 2000 – arguably an unforeseeable emergency - were blamed on the Government and not the protesters, due to the high level of tax on fuel, presumably because it is under the Government’s control. It is questionable whether this was the right sort of ‘emergency’. War or problems in the Middle East on the other hand, have allowed Governments to ration petrol (or at least prepare to ration petrol). In the UK petrol rationing was implemented between 23 September 1939 and 26 May 1950 due to the Second World War, the Suez Crisis in 1956, and was almost adopted during the oil shocks of 1973 and 1979 (Harman, 2002).

Finally, deteriorating air quality due to high traffic levels and unfavourable weather conditions have led to Paris and several Italian cities adopting ‘alternate plate’ days, whereby only traffic with an odd or even numbered registration plate is allowed into the city, and even to total traffic bans. Such action has been driven by concerns over
poor health. Similar conditions could perhaps be created by taking advantage of particularly bad weather or some other ‘Acts of God’, or more predictably by maintenance problems closing roads, bridges (e.g. Hammersmith Bridge, see Rees and Williams, 1998) or car parks (for example, Lancashire County Council was forced to close an employee multi-storey car park due to structural problems in early 2003).

‘Conventional’ Implementation of Good Practice

The vignettes highlight a number of important lessons that can be learnt from the successes and failures of radical demand management schemes to date. As demonstrated by the Cambridge experience of road pricing (Ison, 1998), these are not necessarily always about the technology issues but can often be about how schemes are designed, the effective inclusion of user concerns and political sensitivity. For example, there has to be a climate for change, i.e. congestion should be perceived as a major problem before the public are likely to accept a change in policy direction. In other words, the proposed policy or scheme needs to be supported by politicians of all political persuasions and the general public need to understand the problem before they are likely to accept or even support it.

Those responsible for developing the policy or scheme can only gain public acceptability if the aims and objectives are clearly defined, complementary to other sectoral policies and widely inclusive at all stages of the decision making process - from as early on in the process as possible (Wixey & Ruiz, 2003).

Achieving at least some of the benefits promised as quickly as possible, yet at the same time not trying to achieve too much in the early stages are also vital lessons that
can be learnt from some of the ‘successful’ schemes highlighted above. In other words, it could be argued that piecemeal implementation may create better results than implementation by stealth. One of the criticisms often levelled at transport schemes is that they do not offer a realistic alternative to travellers who wish to switch from the car. Fortunately, this was a lesson that the London Congestion Charging scheme took on board, and an increase in the number of buses and bus routes provided meant that there was a realistic alternative in place before the congestion charge was introduced.

One of the most important lessons to be learnt is that the implementation process needs to be both transparent and flexible. The process must be able to adapt to changing circumstances, public attitudes, objectives and technology changes and that it can react to ‘unexpected’ events.

Additional levers

These ‘conventional’ lessons are certainly important. But what the vignettes also demonstrate is that in many cases of successful implementation there were additional factors that helped transform uncertain outcomes into positive results. These are summarised in Table 2.

Table 2: Radical transport schemes should be…

<p>| SAGACIOUS | So the public perceive there is a problem and the policy seems a reasonable way of solving it. |
| COMPENSATORY | So the public see they benefit from the scheme, are compensated in some way for any disbenefits, or are provided with a viable and acceptable alternative means of travel. |
| SUPPORTED | So the public feel that other organisations or individuals are convinced the scheme is the right way to go. |</p>
<table>
<thead>
<tr>
<th>CONSULTED</th>
<th>So the public feel they have been properly consulted as to their opinions, and these have at least been listened to and ideally acted upon.</th>
</tr>
</thead>
<tbody>
<tr>
<td>SINE NON QUA</td>
<td>So the public feel there is no alternative (or that it is the least worst alternative).</td>
</tr>
<tr>
<td>COMPARABLE</td>
<td>So the public perceive that the scheme is not so different to existing schemes or if they have had experience of similar schemes.</td>
</tr>
<tr>
<td>STIMULATED</td>
<td>So the public believe that the scheme is implemented as a response to some kind of crisis that is beyond the Government’s control – e.g. an act of terrorism or a national emergency – or obviously for the public good – e.g. drink driving, security.</td>
</tr>
</tbody>
</table>

Clearly, the strategies suggested above are already implemented to varying degrees in most transport projects, but have possibly not been set out quite so bluntly in the past. It is also obvious that the appropriateness of some or all of these strategies is strongly dependent on the particular circumstances of a proposed scheme.

**Conclusion**

This paper has shown that there is no single model of policy implementation that will guarantee a successful policy outcomes. It is clear that in many of the more radical schemes adopted around the world, additional strategies have been employed, either deliberately or almost accidentally. The evidence also suggests that there is scope for combining suitable strategies in order to increase acceptability still further. This paper has provided an alternative way of looking at the implementation process.

It is the implementation of a project – and in particular in convincing the public and/or local, national and European politicians – rather than the planning or even the financing of a project that determines whether it should go ahead or not. As this paper suggests, it must be recognised that modelling the process of executing public
policies – i.e. the implementation process – is different from evaluating the extent to which objectives have been accomplished – the implementation assessment. In essence, not all policies that are ‘successfully’ implemented actually meet their original objectives.

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