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# National Transport Strategy 2 (NTS2) Draft for Consultation

Review of 2006 National Transport Strategy Indicators

# Contents

Exe	cutive	summary3	
1.	Introduction		
2.	Outcome: improved journey times and connections		
	2.1.	Congestion performance6	
	2.2.	Number of international routes from Scottish airports8	
	2.3.	ScotRrail passenger kilometres9	
	2.4.	Rail punctuality	
3.	Outcome: reduce emissions13		
	3.1.	Carbon emissions from the transport sector	
	3.2.	Tonnes of carbon saved14	
	3.3.	Average distance walked and cycled per person per year	
4.	Outcome: improve quality, accessibility and affordability		
	4.1. ferrie	Passenger numbers on buses, through lifeline airports and on lifeline s	
	4.2.	Satisfaction of bus and rail passengers18	
	4.3. bus s	Walking time to nearest bus stop and frequency of bus service at nearest top (for urban and rural areas)	
	4.4.	Access to key services	
5.	Conclusions		

### **Executive summary**

As part of the review of the National Transport Strategy (NTS), this report provides an overview of the performance of indicators set out in the original strategy in 2006, and considers learning from these for the development of the new National Transport Strategy (NTS2), due for publication in 2019.

The report aims to inform Transport Scotland, transport delivery partners and wider stakeholders in the development of a monitoring and evaluation framework for NTS2.

A total of 15 indicators were identified in the original NTS in 2006, each relating to outcomes set by the strategy. Data for each indicator is provided along with some commentary around performance, the efficacy of the indicator, and considerations/recommendations for NTS2.

There are key learning points from the review of the 2006 indicators that can be applied to NTS2. These include:

- give consideration to identifying measures of success that clearly link to strategic outcomes
- be flexible with regard to data coverage of indicators (e.g. must they all have national coverage, or is sub-national data acceptable?)
- clearly define what success looks like
- adequately segment data to measure differential impacts on different groups in society
- give consideration to the complementarity/tensions across the strategic outcomes and related indicators
- and specify the measurement framework and identify any risks to continuity of data in advance

In addition, the review of the 2006 indicators has provided the opportunity to consider how data collection methods can be improved to better reflect the outcomes of NTS2, and make better use of existing data sources.

## 1. Introduction

#### Background

- 1.1. In August 2016 it was announced that a full review of the National Transport Strategy (NTS) would take place within the lifetime of the current parliament, building on the work of the <u>NTS Refresh</u> which was published in January 2016.
- 1.2. As part of the NTS Review, Transport Scotland (TS) set up the Strategic Framework Group comprised of representatives from TS, Society of Chief Officers of Transportation in Scotland (SCOTS), CoSLA, Regional Transport Partnerships (RTP) and academia.
- 1.3. A key task for this group was to review the 2006 NTS's strategic framework (the vision, objectives, outcomes and indicators) to consider whether it still provides the correct strategic focus for transport policy over the next 20 years.
- 1.4. To support this work the Strategic Framework Group commissioned a report from Transport Scotland on the extent to which performance against the 2006 outcomes can be measured and to highlight lessons that could inform the work of the NTS Review.

#### Scope and approach of the paper

- 1.5. This report focuses on documenting:
  - the degree to which progress on the 2006 NTS can be measured *based on the indicators originally set out* in the 2006 publication
  - strengths and limitations in the measurement indicators originally chosen, and commentary on how closely the 2006 indicators are associated with the 2006 stated outcomes
  - lessons that can be learned for the development of outcomes for 'NTS2'
- 1.6. This report *does not*.
  - detail the delivery of specific commitments (i.e. outputs rather than outcomes) given in the 2006 NTS – this has <u>already been published</u> as part of the 2016 NTS Refresh
  - exhaustively consider all potential alternative indicators for the 2006 outcomes – a document providing a wide range of indicators comparing a 2006 baseline to 2014 values <u>was published</u> as part of the 2016 Refresh and continually updated and extensive time series data for a wide range of measures is available in the <u>Scottish Transport Statistics and Transport and Travel in Scotland</u> publications

- 1.7. This paper considers each of the three 2006 outcomes and associated 2006 indicators in turn, while providing as assessment of *performance* on the indicators, *strengths* and *limitations* of the indicator data sources and methods used, and *key learning points* to consider for the ongoing NTS Review.
- 1.8. The three 2006 outcomes and associated indicators are provided in the table below. For more commentary and background around how these outcomes fit into the strategic context of the time, refer to <u>the 2006 NTS.</u>

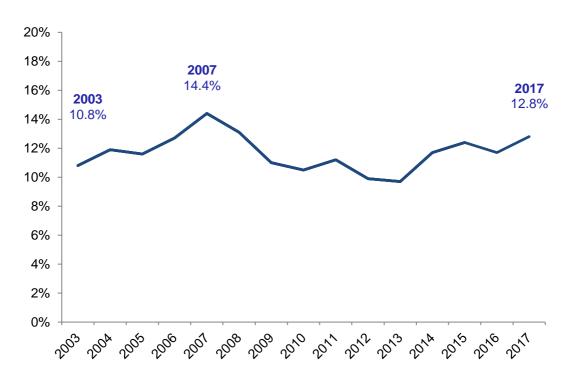
2006 NTS Outcome	Associated indicators
Improve journey times and connections, to tackle congestion and the lack of integration and connections in transport which impact on our high level objectives for economic growth, social inclusion, integration and safety	<ol> <li>Congestion</li> <li>No. of international routes from Scottish airports</li> <li>ScotRrail passenger kilometres</li> <li>Rail punctuality</li> </ol>
<b>Reduce emissions</b> , to tackle the issues of climate change, air quality and health improvement which impact on our high level objective for protecting the environment and improving health	<ol> <li>Carbon emissions from the transport sector</li> <li>Tonnes of carbon saved</li> <li>Average distance walked and cycled per person per year</li> </ol>
Improve quality, accessibility and affordability, to give people a choice of public transport, where availability means better quality transport services and value for money or an alternative to the car	<ol> <li>Passenger numbers on buses, through lifeline airports and on lifeline ferries</li> <li>Satisfaction of bus and rail passengers</li> <li>Walking time to nearest bus stop and frequency of bus service at nearest bus stop</li> <li>Access to key services</li> </ol>

### 2. Outcome: improved journey times and connections

#### 2.1. Congestion performance

The percentage of car/van journey stages (a journey can consist of multiple stages) delayed by congestion has fluctuated between around 10% and 15% between 2003 and 2017. The 2017 figure (12.8%) is slightly higher than the 2003 value of 10.8%, but lower than the peak of 14.4% in 2007.

Source: Scottish Household Survey: Travel Diary, in <u>Transport and Travel in</u> <u>Scotland 2017</u>



# Percentage of car / van journey stages delayed by traffic congestion, 2003-2017

#### Strengths

- the indicator is taken from a large Scottish Government funded major survey, with considerable trend data and potential to break down the analysis by other characteristics
- although the measure is self-reported, it can be argued that this is appropriate for congestion, as the impact and experience of delayed journeys (frustration, uncertainty) is itself subjective

#### Limitations

- this measure relates to self-reported experience of congestion, not that actually observed, and it is not known whether respondents are more or less sensitive to classifying a journey stage as experiencing congestion over time
- it does not quantify the magnitude of the delay experienced as all selfreported delays are counted equally whereas the actual impact of differing lengths of delays is obviously not equal

- this measure provides a consistent time series on self-reported experience of delay due to congestion at a national level
- limitations mean that it is unlikely to be sensitive enough to detect changes (either improvement or worsening) due to transport policy or infrastructure changes that nevertheless could be meaningful for those who experience them
- the lack of quantification of the magnitude of congestion (all delays are treated equally in the current indicator) is likely to mask changes such as reduced journey times on particular routes that have experienced infrastructure improvement; this could be addressed by including, e.g., a component of time delayed as a proportion of overall journey time or adding another element to capture temporal aspects
- the measure does not provide insight into the effect of the congestion and what impact this had
- future indicators around journey time/congestion should be considered in light of what we know about how people respond (or do not respond) to transport interventions
- measures of improved journey times by road should consider car, bus and freight separately

#### 2.2. Number of international routes from Scottish airports

#### Performance

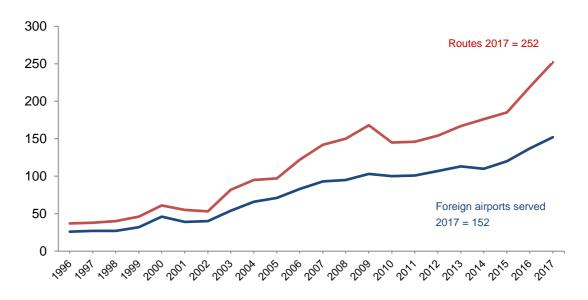
# Both the number of foreign airports served and routes to/from the main Scottish airports with international routes\* have increased over time.

The number of foreign airports served increased by over 83% between 2006 and 2017, while the number of routes more than doubled over the same period, continuing an increasing trend that was present prior to 2006.

A similar trend is present when looking at passenger numbers on scheduled services from the same airports.

\* Aberdeen, Edinburgh, Glasgow and Glasgow Prestwick.

#### Source: Civil Aviation Authority, in <u>Scottish Transport Statistics No 36: 2017</u> Edition



# Number of Foreign airports served and routes to/from the main\* Scottish international airports, 1996-2017

#### Strengths

- although not considered <u>national statistics</u>, these are consistently gathered statistics provided by the relevant UK authority
- the statistics could be further broken down (e.g. looking at particular countries or zones) to target particular route or travel patterns

#### Limitations

- these figures do not cover all scheduled international traffic
- in their current form, they say nothing about the type of passengers or the types of journey being made
- the measure is not balanced against other considerations that arise from increased air travel; most obviously, carbon emissions

#### Key learning points

- this indicator provides a consistent time series of data on one form of connectivity, though it is a broad brush measure and does not capture information about the types of passengers or the nature of journey being made (which are important factors to examine when considering the reasons that the 2006 strategy wanted to improve journey times and connections – "to tackle congestion and the lack of integration and connections in transport which impact on our high level objectives for economic growth, social inclusion, integration and safety")
- a modification of the indicator to look at particular selected destinations, or from different sources that allowed greater profiling of passenger/journey types (business/leisure etc.) could provide more evidence on whether we are achieving outcomes related to inclusive growth and fairness
- the measure should be considered more directly alongside balancing measures that articulate the disbenefits of increased aviation; as a minimum it should look at increased carbon emissions, recognising that while passengers numbers have increased, emissions have increased by a lower percentage over the same period

#### 2.3. ScotRrail passenger kilometres

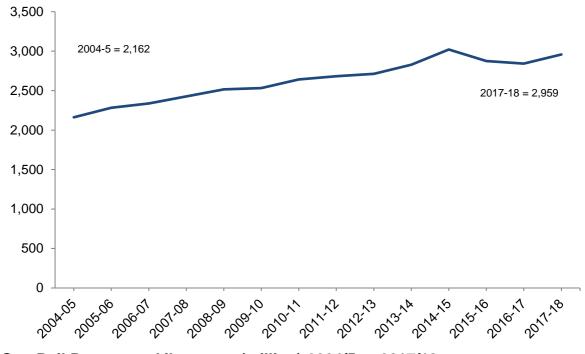
#### Performance

# ScotRail passenger kilometres\* increased from 2.3 billion in 2006/7 to just under 3 billion in 2017/18.

The increase in ScotRail passenger kilometres has been consistent up to 2014/15 but declined in the next two years before rising again last year. The decline was a result of a definitional issue when the Caledonian Sleeper separated from the ScotRail franchise.

The absolute number of passenger journeys has also increased over the period, rising consistently from 71.6m in 2006/7 to 97.7m in 2017/18.

#### Source: Office of Rail Regulation, in <u>Scottish Transport Statistics No 37: 2018</u> Edition



ScotRail Passenger kilometres (million) 2004/5 to 2017/18

- consistent time series, regularly published
- 2015/16 data definition issues aside, it is a relatively straightforward and reliable measure
- even though, alone, it is relatively simple, in combination with other measures on rail and other modes, it can provide a more nuanced picture on whether journey time and connectivity outcomes are being influenced by policy actions

#### Limitations

 the measure could relate to the outcome more directly: because the data is very high level, the underlying change driving these figures is not explicit (e.g. the seemingly positive trend could be driven by mode shift from other public transport rather than private cars, more passenger kilometres does not necessarily mean that connections are experienced as 'improved' by users of the service)

#### Key learning points

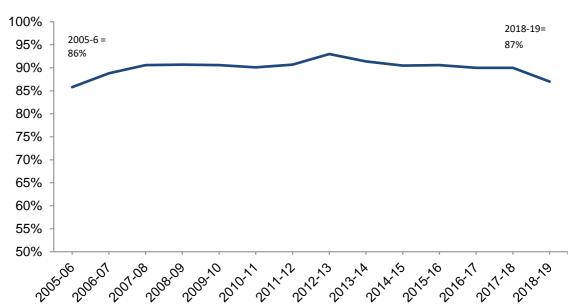
- ScotRail passenger kilometres provides a useful but high level and narrow measure of one aspect of railway performance
- however, it should be more explicitly considered in light of other measures of railway performance (and possibly data on other modes) in order to provide more insight into whether the changes observed are a result of policy actions, and to make an assessment on whether positive movement on this indicator is actually a positive in terms of user experience (it would be possible for passenger kilometres to increase while users have a poor experience and journey times and connectivity worsen, or vice versa)

#### 2.4. Rail punctuality

#### Performance

Punctuality increased from 85.8% in 2005/6 to 89.5% in 2017/18, before falling to 87.4% in 2018/19. In past years (2012/13) it was as high as 93.0 percent; there has been a general decline since then.

This trend is similar in general direction and absolute performance to the overall values for GB regional operators.



#### Source: Office of Rail Regulation

Percentage of trains arriving on time (within five minutes of timetabled time), 2005/6 to 2018/19

- consistent time series, regularly published
- aligns with the public performance measure (PPM) for the ScotRail franchise
- relates directly to the outcome of improved journey times

#### Limitations

- it is unclear from the data currently published what an appropriate comparator (i.e. one that operates a similar mix of routes and services) should be in order to make as close to a like-for-like comparison as possible to better judge performance
- the indicator appears relatively high performing and stable over time at the national level, so it may not be very sensitive to sub-national changes that could affect credibility in terms of perception

- this aligns with existing public performance measures, and directly relates to the outcome of improved journey times
- further work could be done to track performance against a suitable comparison operator/set of operators to determine whether changes are as a result of policy decisions in Scotland or wider trends
- because the indicator is quite stable at the national level, it could be supplemented by taking a particular focus on areas/services that experience poorer performance (i.e. trying to bring those areas closer to the national average); if this is possible it would have analytical advantages in terms of providing more information about performance where it matters, but also in terms of perception around what we value in transport outcomes

### 3. Outcome: reduce emissions

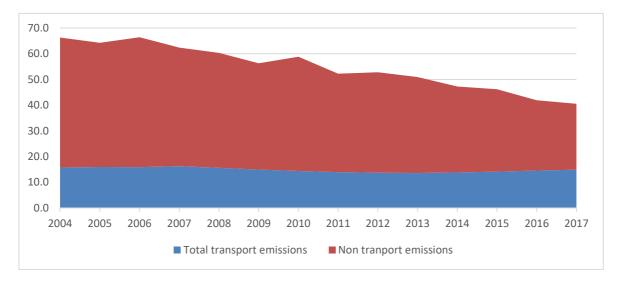
#### 3.1. Carbon emissions from the transport sector

#### Performance

Total transport emissions have decreased from a peak of 16.2 megatonnes of carbon dioxide equivalent in 2007 to 14.9 megatonnes in 2017, however due to substantially larger decreases in the carbon emissions of other sectors (mainly the power sector) the proportion of total emissions attributable to transport has increased from 26% to 37% in the same period. In addition, vehicle kilometres travelled has also increased over the same period by 8%.

Assessing performance in this indicator is complex; while there has been a modest reduction in transport emissions in absolute terms (despite increases in some of the contributors such as vehicle kilometres travelled), larger reductions in other sectors result in transport having a higher proportional share.

#### Source: Greenhouse Gas Emissions in Scotland by source sector *in* <u>Scottish</u> <u>Greenhouse Gas Emissions 2017</u>



#### Thousand tonnes of carbon dioxide equivalent

#### Strengths

- the indicator relates directly to the outcome of interest in the clearest way possible
- it is a regularly published and consistent time series that can be broken down by mode

#### Limitations

 interpretation over performance, as described above, is complex and subject to disagreement over what success looks like; from some perspectives (containment/offsetting of emissions despite growth) transport emissions reductions can be viewed as a success, but it can be challenged by other perspectives (a poor relative comparison to other sectors)

#### **Key learning points**

- it seems very likely that this indicator in some form will be maintained, as it is central to binding commitments to climate change targets and associated policy actions
- limitations around differing perspectives on what success looks like for transport in this area should be resolved during the NTS review process to obtain a shared understanding of what is expected (and achievable) for transport in terms of emission reduction over the lifetime of the new NTS; a situation where there is division over whether transport is performing well or poorly based on the same data should be avoided
- there is potential to be more specific (by using mode breakdowns) to use the carbon emissions data as balancing measures that can be considered alongside other indicators, to avoid different indicators and outcomes being in tension with each other, and to better understand where we need to do more.

#### 3.2. Tonnes of carbon saved

#### Performance

From the 2006 NTS it appears that this indicator related to modelled estimates of the 'Scottish Share' carbon savings by 2010 given various devolved and reserved policy actions intended at the time, supported by the 2006 (then) Scottish Executive Climate Change Programme.

As stated in the 2006 Climate Change Programme, carbon savings anticipated from devolved policies at the time are *'unlikely to match emissions trends in the disaggregated Greenhouse Gas Inventories'* (which are the basis for indicator 3.1) as actual emissions are influenced by other factors including the impact of reserved policies, economic growth and demand.

Because of this, it is not clear that this was an appropriate indicator for the 2006 NTS, what it adds to the previous indicator 3.1 on actual carbon emissions from the transport sector, or how performance against it would be measured.

#### No assessment of performance of this indicator can be made.

• n/a

#### Limitations

• n/a

#### Key learning points

• the original intent as to how this could be measured or what this adds compared to actual emissions is unclear; this indicator should not be continued in the same form

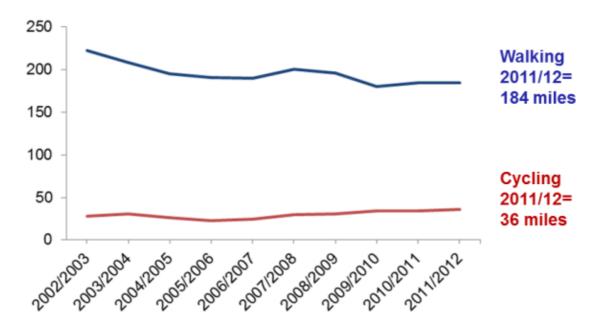
#### 3.3. Average distance walked and cycled per person per year

#### Performance

Average distanced walked per year decreased from 190 miles in 2006/7 to 184 miles in 2011/12, while average distance cycled increased from 28 miles to 36 miles during the same period.

The data source for this measure (the National Travel Survey) ceased collection in Scotland from 2011/12 onwards, and no direct equivalent is published.

#### Source: Department for Transport, <u>National Travel Survey 2011/12 Scotland</u> <u>Results</u> (discontinued)



Average distance walked and cycled per person per year (kms), Scotland

• average distance travelled by walking and cycling has advantages compared to related alternative measures that take no account of distance when it comes to mode shift (e.g. the % journey modal share, or the % using one of these modes as their means of travel to work/school).

#### Limitations

- DfT no longer collect data in Scotland for this survey, and no direct replacement is available
- overall distance travelled without other information is inadequate for judging the impact on reduced emissions (e.g. if increases in cycling were people who would otherwise have walked), though it may be more useful about the health improvement aspect of the outcome

- the general principle of this measure is sound as total distance travelled by active travel methods is closer to the outcome of reduced emissions than alternatives that take no/limited account of distance
- while the data source itself is no longer available, it may be possible to produce similar estimates from the Scottish Household Survey Travel Diary, experimental statistics have been investigated by Transport Analytical Services in recent years
- however, it would be advantageous for any new measure to be able to take better account of (or be supplemented by other measures that can take account of) where any shifts to increased average distance travelled to walking and cycling are coming from, as the biggest benefits in terms of emission reduction will be shifts from private vehicles rather than other forms of active travel or public transport

## 4. Outcome: improve quality, accessibility and affordability

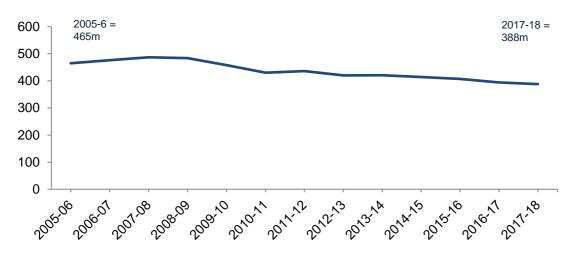
4.1. Passenger numbers on buses, through lifeline airports and on lifeline ferries

#### Performance

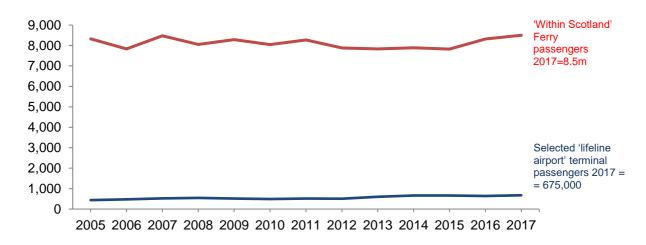
Local bus service passenger journeys have decreased from 476m in 2006/7 to 388m in 2017/18. Selected 'lifeline airport'\* terminal passengers have increased from 474,000 in 2006 to 675,000 in 2017. 'Within Scotland' ferry passenger numbers have increased from 7.8m in 2006 to 8.5m in 2017.

\* Includes: Barra; Benbecula; Campbeltown; Islay; Kirkwall; Lerwick; Stornoway; Sumburgh; Tiree; Wick/Joan O'Groats

#### Source: DfT Bus Statistics, *in* <u>Scottish Transport Statistics No 37: 2018 Edition</u> Ferry Operators / Civil Aviation Authority, *both in* <u>Scottish Transport Statistics</u> <u>No 37: 2018 Edition</u>



Passenger journeys on local bus services (millions), 2005/6 to 2015/16



#### Lifeline airport and ferry passenger numbers (thousands)

- consistent time series, regularly published
- sub-national breakdowns are possible to further understand the trends

#### Limitations

- sub-national variation (e.g. in bus patronage trends where the national decline is driven by a decline in one large region) is hidden in these figures and would need to be further explored
- 'lifeline service' definition is problematic, open to interpretation, and different interpretations change the 'take home' message for some indicators (e.g. whether to include or exclude Inverness airport as a lifeline airport for these purposes makes a substantial difference)
- passenger numbers in themselves do not tell a complete picture about whether a service is accessible, affordable or high quality

#### Key learning points

- an agreed position on what points of departure/regions are considered 'lifeline' for the purposes of this indicator is necessary – in addition, a clearly articulated picture of what success would look like in terms of passenger numbers travelling to areas where the population is in decline is needed (transport links may be a contributor to any such decline, but they are unlikely to be the sole factor)
- sub-national assessment could supplement the national picture to understand local variation that is driving the national average (as is the case in bus patronage in Scotland)
- future indicators should endeavour to look beyond use as a proxy for affordability and accessibility

#### 4.2. Satisfaction of bus and rail passengers

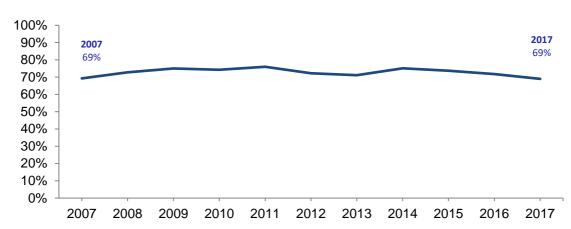
#### Performance

The percentage of adults in Scotland 'very' or 'fairly' satisfied with public transport has remained at the same level (69%) between 2007 and 2017. ScotRail satisfaction had been relatively high at around 90% in recent years but declined to 79% at the most recent wave of the passenger survey.

The Scottish Household Survey asks a general question on satisfaction with public transport. ScotRail satisfaction comes from the National Rail Passenger Survey. There is an equivalent survey for buses (Bus Passenger Survey), but due to the

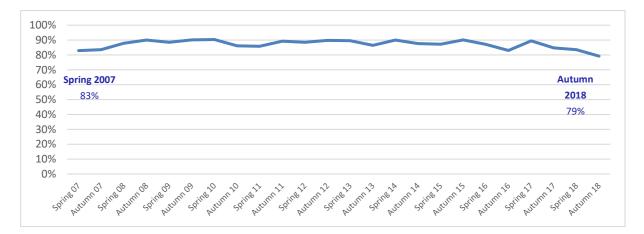
regional/operator based nature of the survey the figures are not readily available combined into a national average.

Source: % 'Very' or 'fairly' satisfied with public transport, Scottish Household Survey, *in* <u>Transport and Travel in Scotland 2017</u>



ScotRail satisfaction, National Rail Passenger Survey

#### Adults' satisfaction with public transport, 2007-2017



#### Overall ScotRail satisfaction with journey Spring 2007 to Autumn 2018

#### Strengths

- consistent time series, regularly published
- sub-national breakdowns are possible to further understand the national trends
- more detailed underlying questions are present in both sources, so it is possible to examine factors associated with satisfaction/dissatisfaction in more detail
- self-reported attitudes/satisfaction measures are an appropriate way of addressing this component of the outcome

#### Limitations

 as the figures have been relatively stable (and for ScotRail, high) over the past five years, the measure appears unlikely to be very sensitive to change (it appears to take a large disruption, e.g. like that experienced in the latter half of 2016 with ScotRail satisfaction to produce a noticeable response in the indicator)

#### Key learning points

- it is likely that some form of self-reported satisfaction with indicators relating to public transport will be required, these sources provide a range of general, or more detailed, indicators, as required
- the two more general satisfaction indicators here could be replaced or supplemented with ones that address more specific aspects of interest to the NTS2, for example, around perceptions of affordability or accessibility specifically (either in the general population, or in particular sub-groups of interest)

# 4.3. Walking time to nearest bus stop and frequency of bus service at nearest bus stop (for urban and rural areas)

#### Performance

The data supporting this indicator was published in the, now discontinued, *Bus and Coach Statistics* publication.

Time series data is available from 1999 to 2010 on walking time to nearest bus stop (in a series of time bands: up to 3 minutes, 4 to 6 minutes etc.) There is no direct replacement currently published.

Examining the historic data does not indicate a strong positive trend in measures that could be of potential interest (e.g. there is no apparent reduction in respondents in rural areas reporting a 14 minute or more walk to a bus stop or an increase in those from rural areas reporting being in the lower time bands).

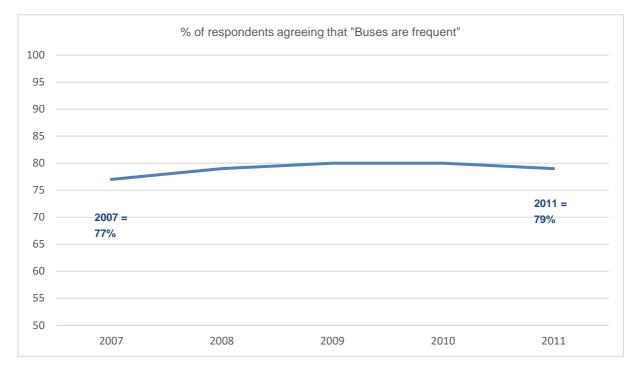
#### Source: Bus and Coach Statistics 2011-2012 (discontinued).

Data from Scottish Transport Statistics did collect data on respondent views on bus frequency up until 2011. This was not disaggregated by urban and rural areas and also showed limited change over time in the trend series.

#### Source: Scottish Transport Statistics 2018 (discontinued).

The <u>Scottish Access to Bus Indicator (SABI)</u>, recently published in 2017, gives a score for the accessibility of bus services in each data zone. Traveline data was used to find all bus stops within a 400 meter walking distance and average frequency of buses per hour. The analysis showed that access to bus services is highest in urban areas, in the central belt and Aberdeen. Outside these areas, access to bus services

is poorer. Trend data for this measure is not available but the analysis is due to be repeated in 2019.



No assessment of recent performance of these indicators can be made as data was discontinued. Data collected on views of frequency of buses up until 2011 shows that views hadn't altered significantly over this period but more recent data is not available.

#### Strengths

• n/a

#### Limitations

• n/a

- in principle, a measure of distance to nearest bus stop, particularly when split by urban/rural status is likely to be a useful indicator to measure an aspect of accessibility, if it is supported by a clear articulation of what we expect success on this measure to be
- however, access in and of itself should not be considered as the definition of accessibility
- with the development of geographic mapping capability within Transport Scotland and the Scottish Government, an alternative to the discontinued data series could be derived from geographic mapping of bus stops and estimating travel distance without the need to conduct surveys and rely on self-report

#### 4.4. Access to key services

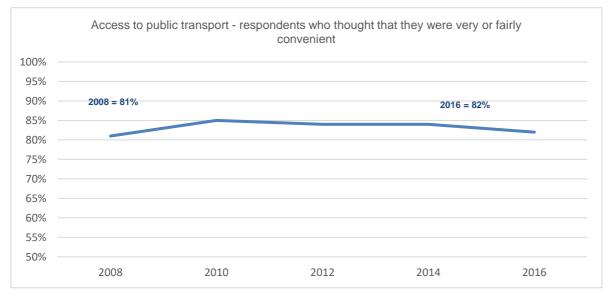
#### Performance

The Scottish Household Survey includes an item, asked every other year, on selfreported access to a small range of services (post office, doctors survey, shopping, and so on).

Commonly, this is reported as the proportion of survey respondents who believe that access to each of the services is 'very' or 'fairly' convenient.

Breakdown of results, for example, by urban/rural split is commonly reported and often shows the pattern that would be expected, with those in rural areas or with no car access less likely to think services are very or fairly convenient.

Because there are a number of services included in this question, it is not possible to make a single assessment overall on performance against this indicator. However, it is possible to look at services in isolation and for the purposes of this report, convenience of public transport is reported.



Source: Scottish Household Survey, in Transport and Travel in Scotland 2017.

Convenience of access to public transport has remained at a similar level.

#### Strengths

• n/a

#### Limitations

• n/a

- in principle, a self-reported ease of access measure such as that available from the Scottish Household survey could provide some insight into perceptions of accessibility
- in order to do this effectively, the scope of the indicator should be narrowed to clarify questions on what 'key services' we are concerned with, and who they are 'key' for

## 5. Conclusions

- 5.1 The 2006 indicators reviewed in this report contain a mixture of measures that include: those that are closely associated with their related outcome and can be clearly measured; those that, while measurable, are less clearly associated with the outcome of interest; and those that were poorly defined at the outset or cannot readily be assessed in 2018 due to changes in data gathering.
- 5.2 A central principle when taking an outcomes-based approach is to design, at the outset, an agreed framework that articulates how activities and outputs are anticipated to result in outcomes. This is particularly the case in a complex policy area such as transport, where some outcomes (and hence indicators) are in tension with each other. If this is not carried out during the design phase of the strategy, while it is developing, it is very difficult to do in retrospect. This can result in difficulties in coming to any judgement about how policy actions have brought about changes, and result in indicators being highlighted in isolation to evidence particular outputs or outcomes.
- 5.3 While a fully formed monitoring and valuation framework was not developed for the 2006 NTS, this is something that will be required to support the new strategy.
- 5.4 The following points should be borne in mind for future indicators:
  - be clear about what **success (and failure) looks like** (who do we expect to benefit, by how much and by when, and who could stand to lose out that we need to be concerned about)
  - map out how **indicators work together or conflict with each other** and ensure that the final overall assessment of performance is considered in light of these features
  - within the limits of the data available, try to ensure there is adequate coverage of all important aspects of the outcome in question (e.g. there is relatively little in the 2006 NTS indicators that directly covers affordability, despite that being an explicit part of the outcomes) and consider whether subnational data is an acceptable proxy for something that is not feasible to gather nationally
  - where possible, clearly set out **appropriate comparison groups** in advance that performance in Scotland on a given indicator can be contrasted against
  - consider how differential impacts of strategy on different groups in society can be incorporated into a measurement framework. This will be central to understanding where policy should be focussed and will underpin

statutory requirement such as Equalities Impact Assessments and meeting the Fairer Scotland Duty

 setting out a measurement framework clearly in advance (where will the data come from, are there any risks to continuity of measurement or data sources) can avoid being unable to assess progress in the future due to scarcity or discontinuation of data sources



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