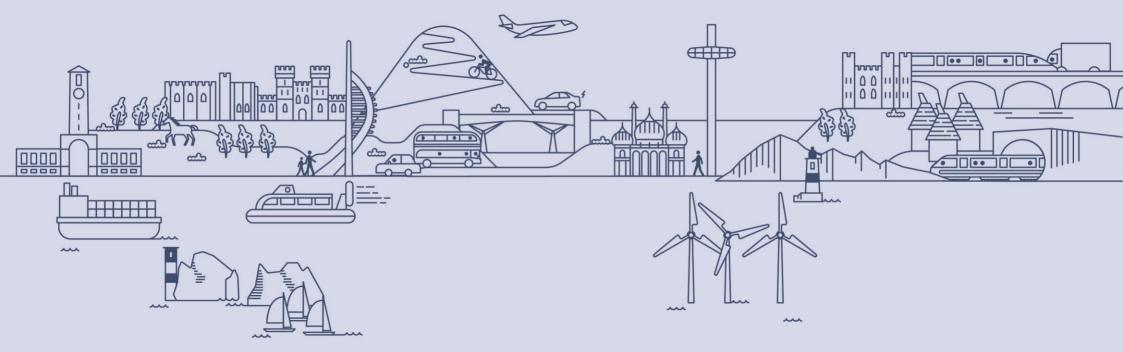


# Levelling Up Thematic Plan

Version 6 March 2023





# **Part 1: Introduction**

# Introduction

#### Purpose

This Thematic Plan outlines the relationship between the UK Government's Levelling Up White Paper and the strategic objectives of TfSE.

This plan forms part of TfSE's Area Study Programme, which developed Strategic Outline Programme Cases for four areas within the South East of England. It complements five other Thematic Plans (see **Figure 1.1** overleaf) for Rail; Bus, Mass Transit and Shared Mobility; Strategic Active Travel and Micromobility; Highways; and Decarbonisation.

This plan assesses the content and objectives of the Levelling Up White Paper and reviews how these impact TfSE's overarching strategy.

Using a range of data sets to assess various indicators of inequality and deprivation, this plan will propose a series of interventions to address the identified issues and recommend how investment in transport infrastructure can contribute to Levelling Up the South East.

#### Contents

This report provides an analysis of the role of transport in the South East of England in the Government's Levelling Up agenda.

The rest of this plan is presented in six Parts, which are listed below.

- **Part 2** describes the **context** of Levelling Up in relation to the South East.
- Part 3 details the issues and opportunities for levelling up the South East.
- Part 4 describes the vision and objectives of Levelling Up the South East through investment in transport.
- Part 5 details the location specific interventions.
- Part 6 reviews the benefits and cost of the proposed packages of interventions.
- Finally, **Part 7** considers **delivery** options for moving the South East's Levelling Up strategy forward.

#### Next Step

#### TfSE's Strategic Investment Plan will make the case for investing in the Levelling Up.

TfSE is developing a Strategic Investment Plan (SIP) that will sythesise the technical work undertaken by TfSE to date and present a compelling case for investment in all modes of transport in South East England.

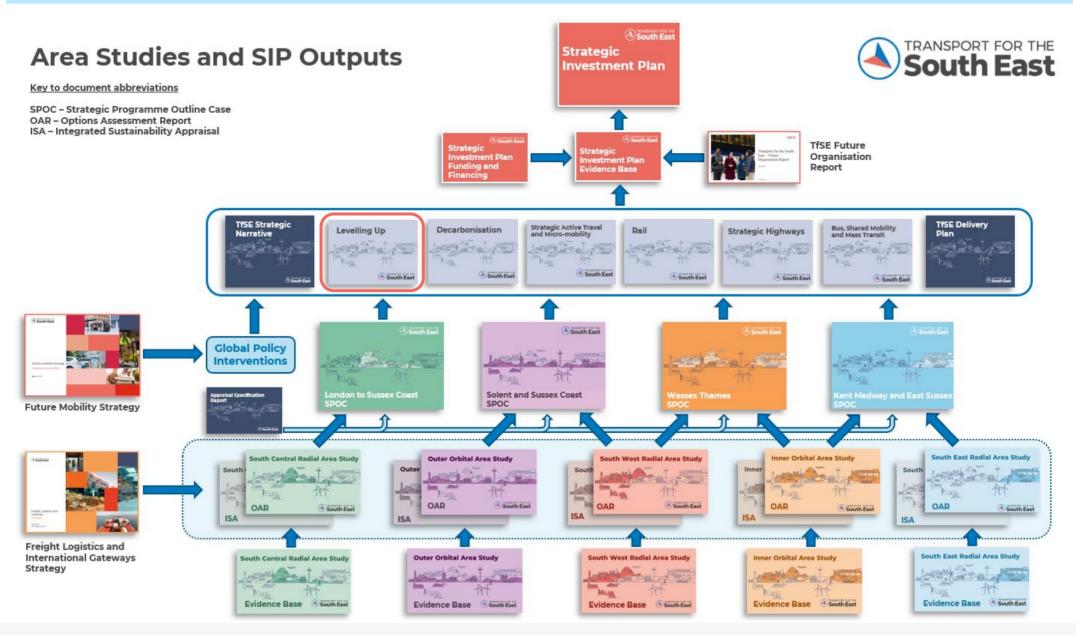
The SIP will include a more detailed examination of potential funding opportunities beyond central government, and it will outline how TfSE, its partners, and its constituent authorities will work together to deliver positive change.

Although the Transport Strategy approved and published in 2020 is not a Statutory Document, the UK government has stated it will give "due regard" to it. The SIP is an integral part of the Transport Strategy development process, articulating the case for investment and a delivery plan to 2050.



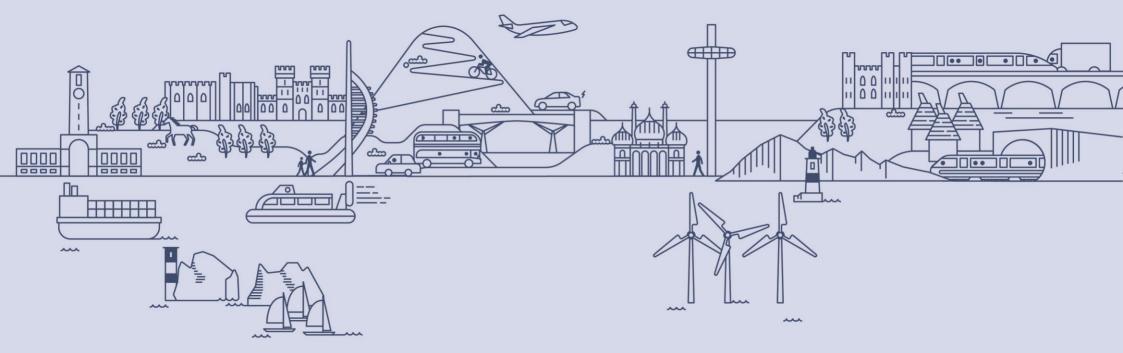
# **Area Studies Outputs**

Figure 1.1: TfSE Area Studies and Strategic Investment Plan Document Hierarchy









# Part 2: Context

# Context

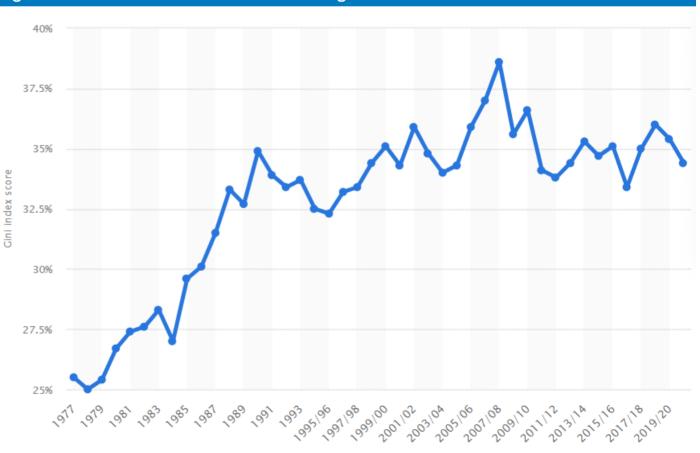
#### Recent trends in UK inequality

Despite being a prosperous nation with a well performing economy, inequality in the UK has increased in recent decades.

The Gini coefficient is the most widely used summary measure of inequality in the distribution of household income. It serves as a gauge of economic inequality by measuring income distribution among a population, whereby 0% represents perfect equality and 100% represents maximum inequality.

**Figure 2.1** shows how the UK's Gini coefficient has increased from around 25% in the late 1970s to around 35% in 2020, representing an increase in inequality during this period.

The Government have an ambition to reverse this trend and transform the United Kingdom into a fairer and more just society, where every individual is given the opportunity to achieve a good standard of health, education and employment.



#### Figure 2.1: Gini coefficient of the United Kingdom from 1977 to 2021<sup>1</sup>



#### The Levelling Up White Paper

#### The Levelling Up White Paper, titled Levelling Up the United Kingdom, was published in February 2022.

The Paper presents a thorough examination of a range of socio-economic indicators which are used to evidence the narrative that 'not everyone shares equally in the UK's success'. It sets out the government's strategy for addressing inequalities through a range of policy interventions which target various indicators of inequality.

The Paper declares Levelling Up as a mission to challenge and change this unfairness and inequality of opportunity by creating a platform from which 'people everywhere live longer and more fulfilling lives, and benefit from sustained rises in living standards and well-being'.

#### A Framework of Capitals

The Paper presents the Levelling Up agenda in a framework of six capitals: physical, intangible, social, institutional, financial and human (Figure 2.2).

These capitals are interdependent such that the interaction of each determines the overall outcomes, with places caught in a vicious cycle of decline in one capital likely to underperform in all capitals. Physical Capital refers to the ability of people to connect with opportunities framework, transport has an important role to for employment and other key services.

Where this is restricted, the benefits of agglomeration are limited, productivity is lower. and firms and high skilled workers may locate elsewhere. Whilst connectivity (including transport) is only one component of the play in breaking the vicious cycle of decline and helping places achieve better outcomes.

#### Figure 2.2: Levelling Up Capitals Framework<sup>2</sup>



#### Some places are caught in vicious cycles



The White Paper defines 12 focus areas and associated missions, each with an objective to guide policy across government over the coming decades.

**Table 2.1** details each of the 12 focus areas and missions, and how they relate to transport. The role of transport in contributing to each of the missions will be assessed in the following part of this thematic plan.

#### The DfT Levelling Up Toolkit

The Department for Transport published a policy document in February 2022 titled *Transport Business Cases: The Levelling Up Toolkit*.

This document is designed to advise how a transport business case should contribute toward delivering the DfT's strategic priority to *Grow and Level Up the Economy*. The toolkit highlights the transport barriers to levelling up and the indicators that could be used to evidence the case for change and investment.

The toolkit acknowledges the importance of investing in the transport network and the role that improved connectivity has to play in achieving the Levelling Up objectives.

It notes that investing in transport creates larger and more unified labour markets, enhances business connectivity and improves access to local services.

Table 2.1: The Levelling Up Focus Areas and Missions <sup>3</sup>				
Focus Area	Mission	Relationship to transport		
Boost productivity, pay, jobs and living standards by growing the private sector, especially in those places where they are lagging				
Living Standards	By 2030, pay, employment and productivity will have risen in every area of the UK, with each containing a globally competitive city, and the gap between the top performing and other areas closing.	This is driven by employees access to employment opportunities and employers access to skilled labour, as well as business to business connectivity, including agglomeration benefits.		
Research & Development (R&D)	By 2030, domestic public investment in R&D outside the Greater South East will increase by at least 40%, and over the Spending Review period by at least one third. This additional government funding will seek to leverage at least twice as much private sector investment over the long term to stimulate innovation and productivity growth.	This is influenced by the availability of strategic transport connections to London, international gateways and other major economic hubs to attract inward investment.		



# Context

Table 2.1: The Levelling Up Focus Areas and Missions <sup>3</sup>				
Focus Area	Mission	Relationship to transport		
Transport Infrastructure	By 2030, local public transport connectivity across the country will be significantly closer to the standards of London, with improved services, simpler fares and integrated ticketing.	Enhanced public transport services will help improve access to employment opportunities and other key services, and create more integrated places which are less reliant on private vehicles.		
Digital Connectivity	By 2030, the UK will have nationwide gigabit-capable broadband and 4G coverage, with 5G coverage for the majority of the population.	Improved digital connectivity and increased home working will result in a reduction in the need to travel. Digitisation of the transport network will improve operational resilience.		
Spread opportunities and improve public services, especially in those places where they are weakest				
Education	By 2030, the number of primary school children achieving the expected standard in reading, writing and maths will have significantly increased. In England, this will mean 90% of children will achieve the expected standard, and the percentage of children meeting the expected standard in the worst performing areas will have increased by over a third.	Affordable and convenient access to primary schools is important to achieving good attendance at school, which in turn impacts standards and grades. School choices which result in longer journey times may discourage active or sustainable travel. Increased private vehicle usage has impacts related to air quality, road safety, physical inactivity and poor public health outcomes.		
Skills	By 2030, the number of people successfully completing high-quality skills training will have significantly increased in every area of the UK. In England, this will lead to 200,000 more people successfully completing high-quality skills training annually, driven by 80,000 more people completing courses in the lowest skilled areas.	Skill attainment can, to an extent, be attributed to the provision of access to education, particularly further and high education, and employment opportunities. Where these are abundant, the number of people attaining high quality skills will be higher.		
Health	By 2030, the gap in Healthy Life Expectancy (HLE) between local areas where it is highest and lowest will have narrowed, and by 2035 HLE will rise by five years.	Health outcomes are, to an extent, affected by the affordability and convenience of access to GPs, hospitals and other healthcare services.		



# Context

Table 2.1: The Levelling Up Focus Areas and Missions <sup>3</sup>				
Focus Area	Mission	Relationship to transport		
Wellbeing	By 2030, well-being will have improved in every area of the UK, with the gap between top performing and other areas closing.	General access to key services can have a significant impact on wellbeing. Wellbeing will be better where access to key services is abundant.		
Restore a sense of community, local pride and belonging, especially in those places where they have been lost				
Pride in Place	By 2030, pride in place, such as people's satisfaction with their town centre and engagement in local culture and community, will have risen in every area of the UK, with the gap between top performing and other areas closing.	Pride of Place can be improved by creating communities with high quality transit systems, urban realm and walking and cycling infrastructure.		
Housing	By 2030, renters will have a secure path to ownership with the number of first-time buyers increasing in all areas; and the government's ambition is for the number of non- decent rented homes to have fallen by 50%, with the biggest improvements in the lowest performing areas.	Good transport connectivity can make sites more desirable and unlock areas for future growth. The development of residential sites will address the shortfall in housing supply and make home ownership a viable option for more people.		
Crime	By 2030, homicide, serious violence and neighbourhood crime will have fallen, focused on the worst affected areas.	Improved public realm and urban design can contribute to safer streets and lower neighbourhood crime.		
Empower local leaders and communities, especially in those places lacking local agency				
Local Leadership	By 2030, every part of England that wants one will have a devolution deal with powers at or approaching the highest level of devolution and a simplified, long-term funding	A clear sub-regional vision, including an identifiable pipeline of evidenced transport interventions, can support the move toward devolution deals.		



settlement.

#### The South East in context

The area within the authority of Transport for the South East is characterised by a range of place typologies.

Unusually for the UK, it does not have one dominant urban centre, as London's status as a global city has had growth limiting affects on places within its orbit. The South East does contain urban conurbations of significant population and communities in need of Levelling Up.

**Figure 2.3** shows the top 30% most deprived areas in the South East. The highest rates of deprivation are located to the east of the region, particularly around the Kent coastal areas of Medway, Swale and Shepway. The Solent conurbations also have high rates of deprivation.

The least deprived areas of the South East are located across Berkshire and Surrey in places with good connectivity to London. In Sussex and Hampshire, the least deprived areas are generally located inland, with coastal areas experiencing higher rates of deprivation.

#### **Place Typologies**

#### **Coastal and Estuarine Communities**

The region's population centres can be categorised into four groups. The first are communities situated along the coast and Thames Estuary, many of which are characterised by high levels of deprivation and poor strategic and inter-urban connectivity to London and other economic hubs within the TfSE area, for example Margate and Eastbourne.

#### **Regional Centres**

Secondly, regional centres are typically situated along major radial corridors with strong connectivity to London and other major economic hubs of the TfSE area, for example Reading, Southampton and Brighton. These places are not typically deprived but do, as is common in cities across the UK, have pockets of significant deprivation.

#### **Post-industrial decline**

Places which have experienced postindustrial decline also commonly have high levels of deprivation. For example, the Medway towns, Portsmouth, and Maidstone have all experienced reductions in their industrial sectors.

#### Post-war new towns and expansion

Towns such as Slough, Crawley and Dartford, which all benefit from good connectivity to London, often underperform on socioeconomic indicators compared to other places with similar levels of access to London. These towns grew rapidly through the second half of the 20<sup>th</sup> century due to planned development including the relocation of households from London.

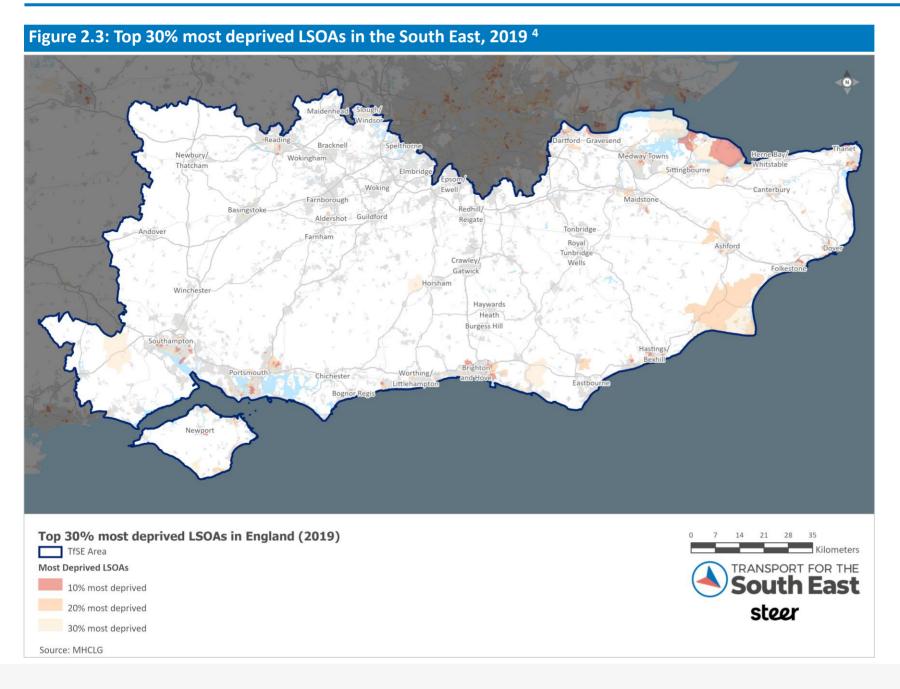
#### Levelling Up the South East

With inequality prevalent across such a range of contexts, there is no one approach or policy intervention that can be systematically applied to address it's cause and moderate it's impact. Instead, a range of interventions will be required to address the challenges unique to each place, and to ensure levelling up is achieved across region.

The next part of this Plan will review each of the Levelling Up focus areas and assess how transport can contribute to achieving their missions.



# Context





# **Summary**

# Transport and the Levelling Up agenda

Transport has a critical role to play in delivering the objectives of the Levelling Up White Paper across the South East.

The influence transport will have in supporting the Levelling Up agenda can broadly be understood in the following five ways:

Socioeconomic Outcomes: In relation to living standards, local authorities will be targeting positive changes in the socioeconomic indicators of populations residing in left behind communities. Transport is key to connecting these communities to areas of opportunity, and bringing opportunity to areas of deprivation.

**Connectivity:** High-quality public transport, active travel and highway connections are necessary to enable the sustainable and equitable development of left-behind communities. Good connectivity will enable the development of these communities by improving access to educational and employment opportunities. Improvement in digital connectivity is also a key facet of the Levelling Up agenda.

Accessibility: Left behind areas are often characterised by poor levels of transport infrastructure and local accessibility, created by the legacy of historical issues of car-dominated planning and a lack of walking, cycling or public transport provision.

**Cost of Travel:** high monetary and time costs can often be a barrier for walking, cycling and public transport usage, resulting in high-levels of car dependency. Improved walking and cycling accessibility, combined with affordable public transport fares will enable improved educational and employment outcomes.

**Supporting new development:** new housing developments provide an opportunity to improve deprived areas through the provision of new infrastructure and services. Local authorities will look to undertake this in a manner which minimises disruption to community cohesion and existing social networks.

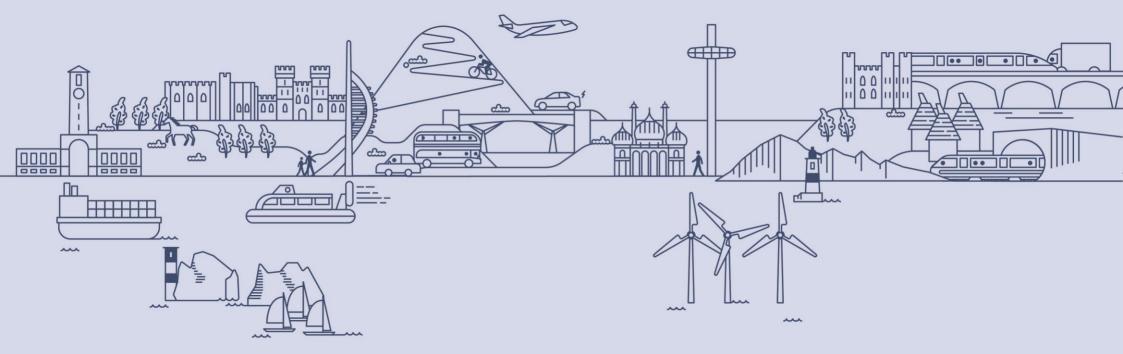
**Quality of Place:** Pride of place, along with public health and wellbeing, have been impacted by 20th century planning regulations which promoted cardominated and single-use developments resulting in poor levels of human-scale built environment.

As such, there is a need to analyse and disseminate a number of place typologies across the south east, not only new towns.

The subsequent parts of this plan will explore the issues and opportunities for Levelling Up the South East through investment in transport infrastructure. Each of the 12 Levelling Up missions will be assessed in relation to transport in the region.







# **Part 3: Issues and Opportunities**

#### Introduction

This section will assess the issues and opportunities through the lens of the Levelling Up missions.

The Levelling Up White Paper contains 12 focus areas, each with a dedicated mission and objective. Each focus area will be assessed to determine how it relates to the strategic objectives of Transport for the South East. The 12 focus areas or "Missions" are:

- Living Standards
- Research & Development
- Transport Infrastructure
- Digital Connectivity
- Education
- Skills
- Health
- Well-being
- Pride in Place
- Housing
- Crime
- Local Leadership





The following pages will assess the first four focus areas, relating to living standards, research & development, transport infrastructure and digital connectivity. These focus areas have a shared objective to:

'boost productivity, pay, jobs and living standards by growing the private sector, especially in those places where they are lagging'.

#### Living Standards

#### The Levelling Up Mission for Living Standards is that:

'By 2030, pay, employment and productivity will have risen in every area of the UK, with each containing a globally competitive city, and the gap between the top performing and other areas closing'.

The link between transport and this mission can broadly be understood by the following three factors:

- Access to employment
- Access to labour
- Agglomeration benefits

Access to Employment Access to a large and varied employment market gives employees greater choice of labour opportunities, including to higher skilled and higher wage labour.

Good access is driven by the level of connectivity between labour and job markets, whereby places which are well connected to commercial centres will perform better than those isolated from employment opportunities or where distance makes travel time and cost prohibitive to accessing employment, as illustrated by **figure 3.1** which shows the relationship between connectivity and deprivation.

The map illustrates that most areas of deprivation are located in urban areas and not in high value high growth areas. Unless residents can easily travel to economic hubs with high value jobs, improved socioeconomic outcomes are unlikely to be realised. The employment opportunities in deprived areas are typically not in high value sectors, so residents of these communities must have the ability to commute to access high value employment opportunities.

#### **Access to Labour**

# Access to a large and skilled labour force is key to achieving improved living standards.

Inward investment will be attracted to areas with access to a readily available pool of skilled labour. Where this is connected to employment opportunities, household income and living standards will increase. **Figure 3.2** shows areas of deprivation in relation to major transport links, with deprivation generally located in areas not on radial transport routes to London.

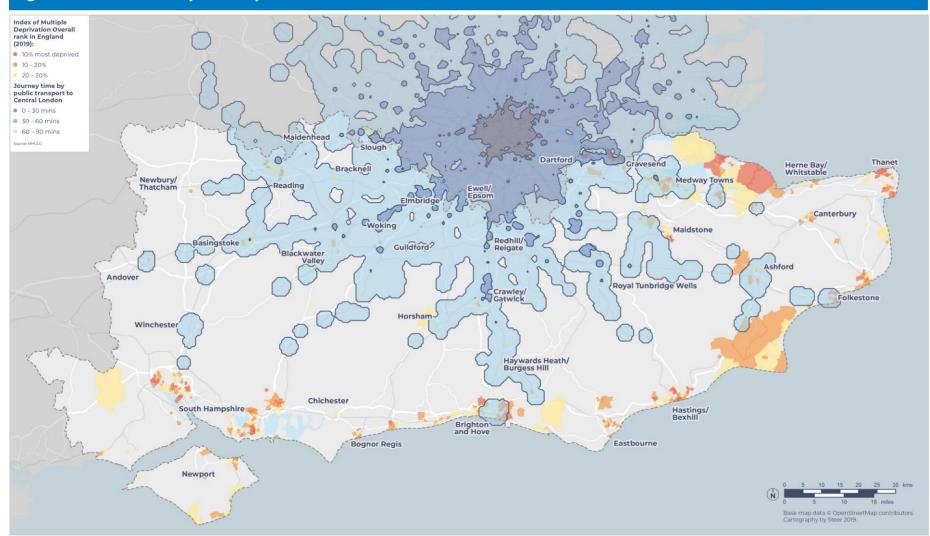
#### **Agglomeration Benefits**

The agglomeration effect describes the impact on an economy of companies and industries clustering together.

The development of employment clusters across the South East will help promote the benefits of agglomeration across the area. Where these benefits are realised, living standards will improve as a result of the increased access to opportunity. Clustering should therefore be encouraged to help attract investment and drive improvements in living standards. **Figure 3.3** shows key priority industries in the South East.

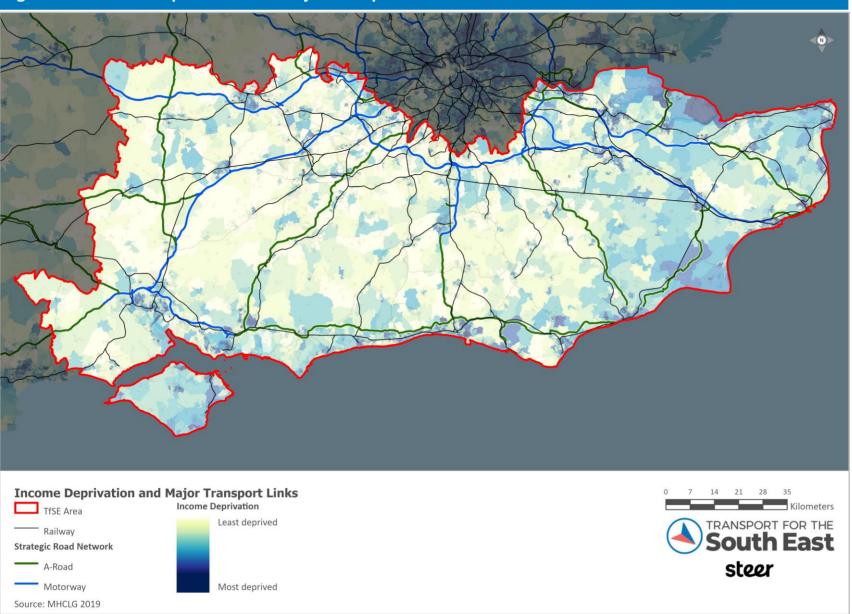




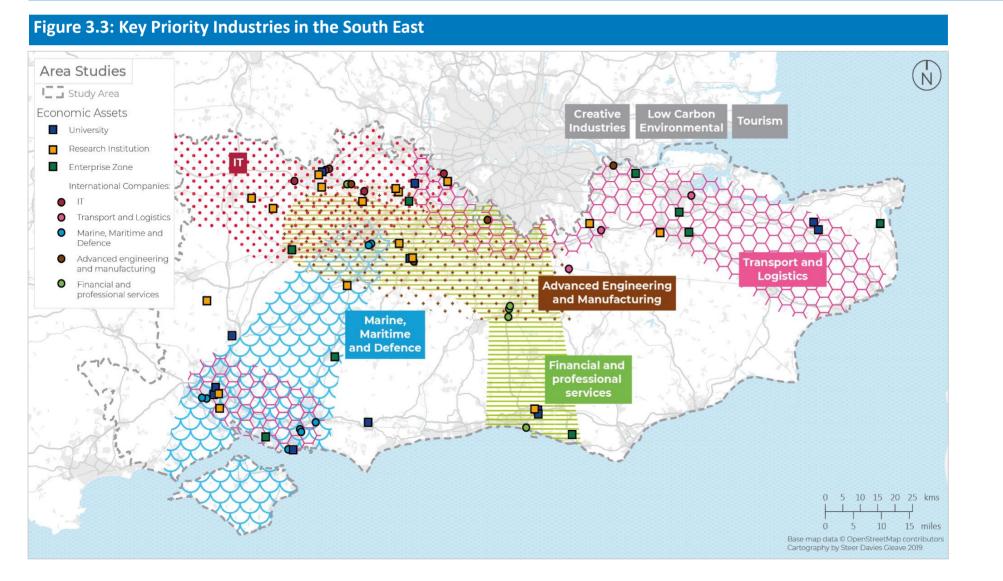














#### London's influence

Figure 3.4 illustrates the relationship between Public Transport Travel Time from London and Mean Gross Annual Pay in 2021.

The map shows a loose correlation between these two metrics. The highest levels of Mean Gross Annual Pay are in areas of Surrey and Berkshire. However, some areas of the South East with a similar travel time from London, for example in Kent and East Sussex, have a lower Mean Gross Annual Pay.

Good connectivity to London generally equates to higher mean gross annual pay, which tends to follow transport corridors. Although connectivity to London is important in spreading wealth, public transport accessibility is not the sole factor influencing Mean Gross Annual Pay across the region.

The Medway towns, for example, have good transport connections but low Mean Gross Annual Pay. This is likely a result of a low skilled low wage local economy, rather than poor transport connectivity. **Travel time variances** 

Figure 3.5 on page 21 illustrates the relationship between Public Transport Travel Time and Gross Value Added per Head in 2016.

The map shows there is a relationship between these two metrics, with areas with faster public transport travel time to London having higher measures of GVA per head.

For example, parts of Berkshire and Surrey which are within 60 minutes Public Transport Travel Time from London have a GVA per Head greater than £35,000. Whilst the connectivity to London is important, there are other factors contributing to the prosperity of these places.

Conversely, areas of Kent such as Gravesend, the Medway Towns and Sittingbourne, as well as coastal areas in Kent and East Sussex, have a GVA per Head of less than £20,000. The variation between these two areas of the South East demonstrates the challenges involved in Levelling Up the region. It should be noted that the data presented in **Figure 3.5** is aggregated to district council level, and that further variations exist within these areas depending on the density and spatial coverage of the transport network.



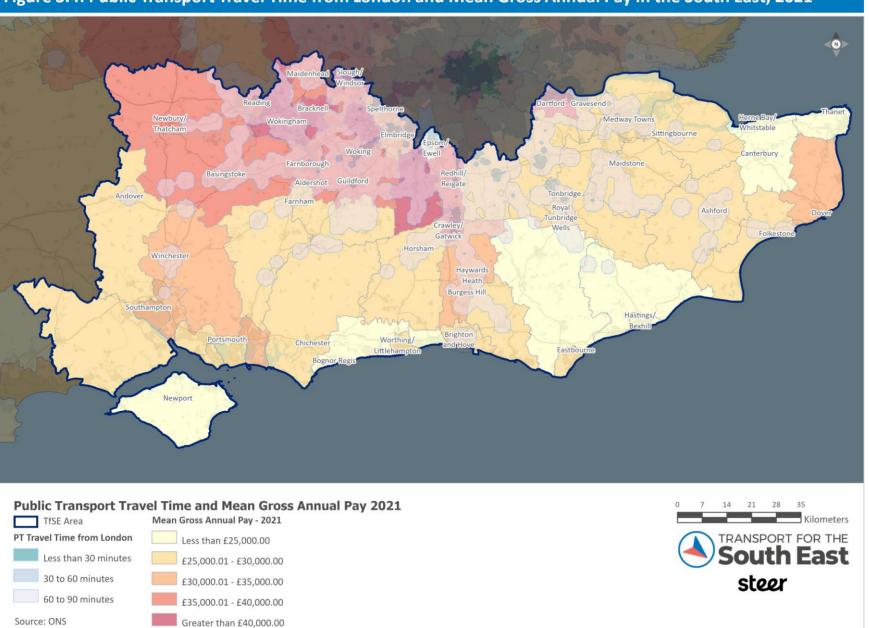
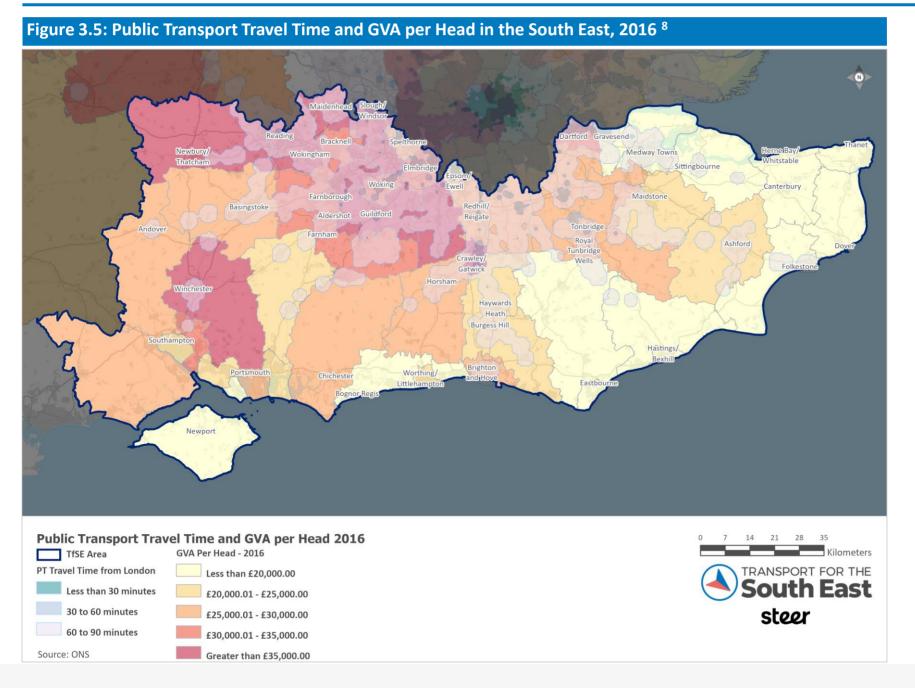


Figure 3.4: Public Transport Travel Time from London and Mean Gross Annual Pay in the South East, 2021 <sup>7</sup>







#### **Research and Development**

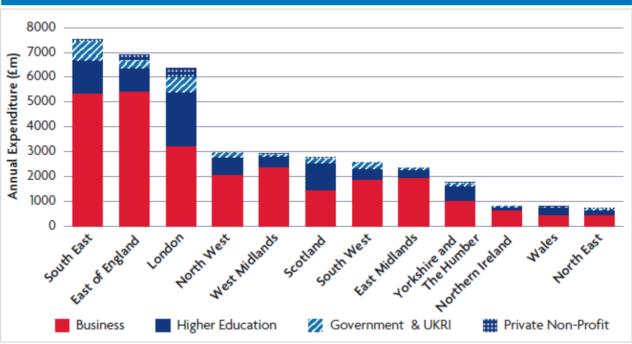
# The Levelling Up mission for research and development is that:

'By 2030, domestic public investment in R&D outside the Greater South East will increase by at least 40% and over the Spending Review period by at least one third. This additional government funding will seek to leverage at least twice as much private sector investment over the long term to stimulate innovation and productivity growth.'

Although this mission uses the South East as a benchmark for growth across the rest of the UK, there is an indirect relationship between this mission and transport in the South East.

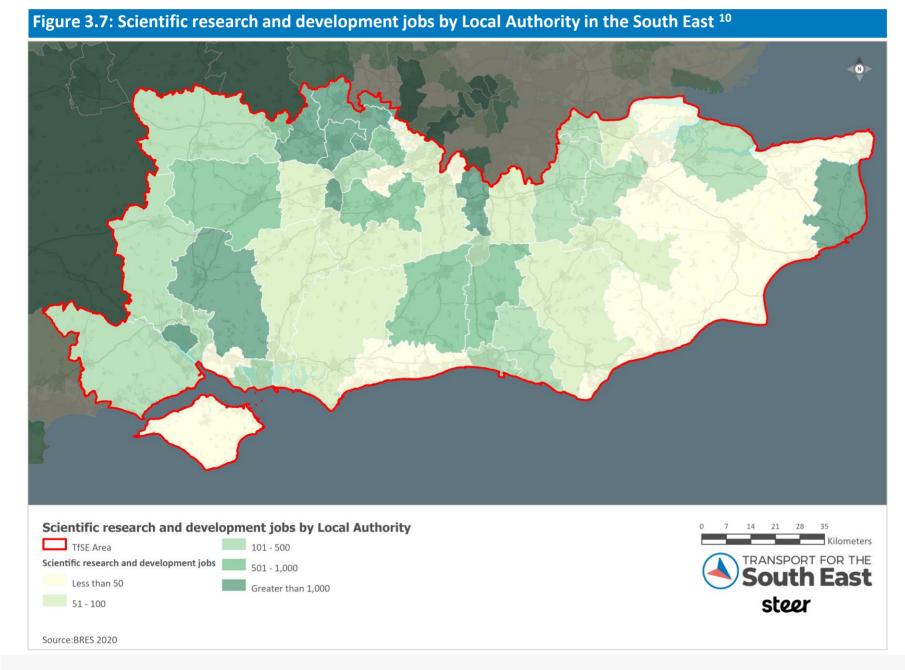
Access to a large quantum of skilled labour can attract companies to invest in R&D capability, and it is the region's strategic connections to London, as well as it's international gateways and other major economic hubs, which are key to attracting this skilled labour. Transport in the South East also has an important role to play in facilitating collaboration and increased R&D spending across the UK. As **Figure 3.6** illustrates, the South East currently benefits from the highest level of spending of all UK countries and regions. However, communities in the South East which are in need of levelling up, for example Medway, Eastbourne and Littlehampton, do not generally benefit from this investment because it is generated by or targeted at industries based in prosperous areas of the region, and not at deprived communities in need of levelling up, which also tend to lack good access to high investment areas.

**Figure 3.7** shows the number of scientific research and development job by local authority. These are mostly found to the west of the region, with a high concentration around the Reading and Winchester conurbations. The lowest number of jobs in this field can be found in Kent, with the exception of the far east of the county.











#### **Transport Infrastructure**

# The Levelling Up mission for transport infrastructure is that:

'By 2030, local public transport connectivity across the country will be significantly closer to the standards of London, with improved services, simpler fares and integrated ticketing.'

This objective aims to see levels of public transport service operate closer frequencies typical of London's commuter rail network, at four or more trains per hour.

**Figure 3.8** shows the difference in journey times to key services by car and walking and public transport. The correlation here is predominantly between rural and urban areas, as rural areas are less well served by public transport and have longer walking distances to key services. In these communities, residents need their own vehicle to access education, employment and other opportunities. This disadvantages and further marginalises people who may not be able to afford their own vehicle. Transport can help address these issues and Level Up the South East. By connecting people to employment opportunities, and other key services, transport can have a positive impact on a range of social and economic indicators, including productivity, educational attainment, health and wellbeing, and pride in place.

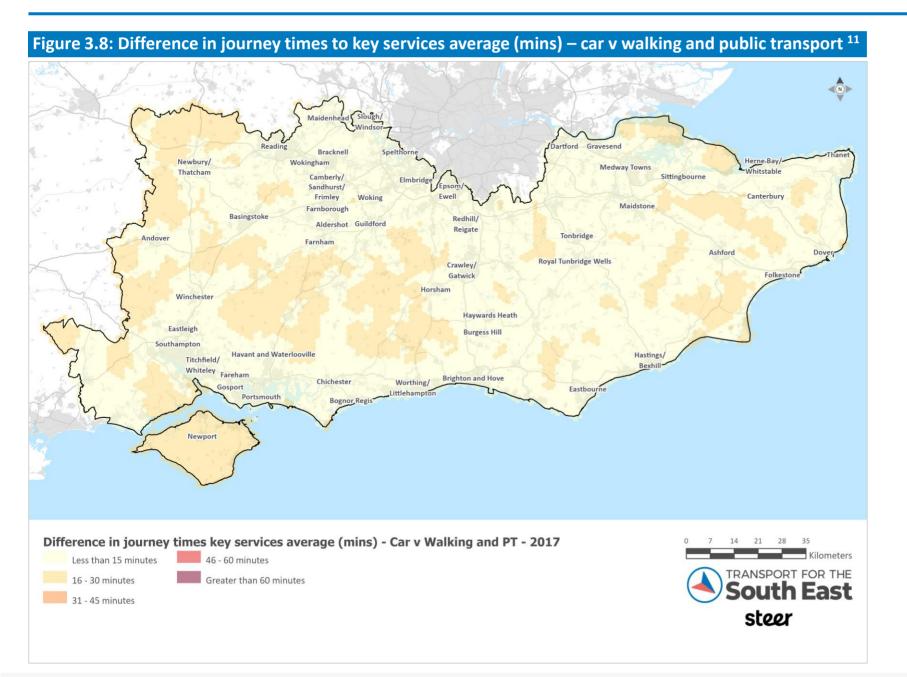
There can also be a reverse relationship however, with variations in the provision of transport infrastructure exacerbating existing inequalities, by accelerating positive outcomes in well connected places, and entrenching deprivation in places with less connectivity. Investment in public transport and active travel is critical to achieving equity of opportunity. In particular, buses and other forms of shared mobility are crucial to facilitating improved and more affordable access to local employment and education opportunities and other key services.

For example, 77% of jobseekers outside of London do not have regular access to a car, van or motorbike for personal use for work or interviews. To address this, increased bus frequencies and reduced fares are required to remove the barriers to travel for people without access to a car. In urban areas, new bus priority lanes are needed to make bus journeys faster, more reliable and more attractive to passengers.

This, and other types of public transport improvements, can help reduce distances between places and provide people with more opportunities to access education, employment and other essential services. Extensive transport networks are required to avoid less well-connected places being left behind.

**Figure 3.9** illustrates average journey times to key services by walking and public transport and **Figure 3.10** shows bus services per hour during the Monday morning peak. The map illustrates the challenge of accessing key services in areas which are poorly served by public transport, particularly more rural areas. These challenges have grown owing to the impact of the pandemic on ridership and consequential service operations viability by bus operators leading to a removal of services.







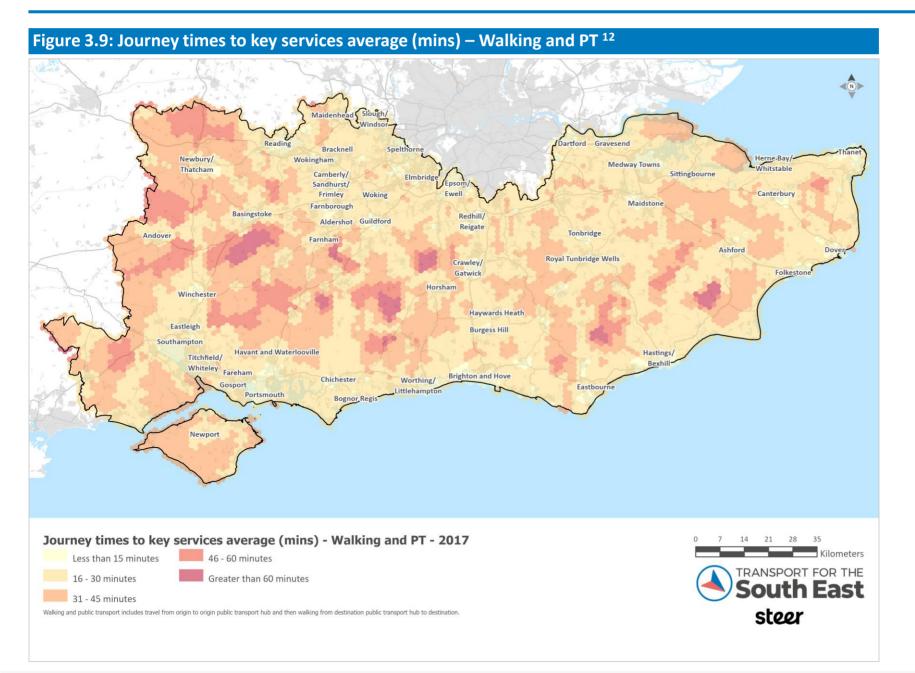
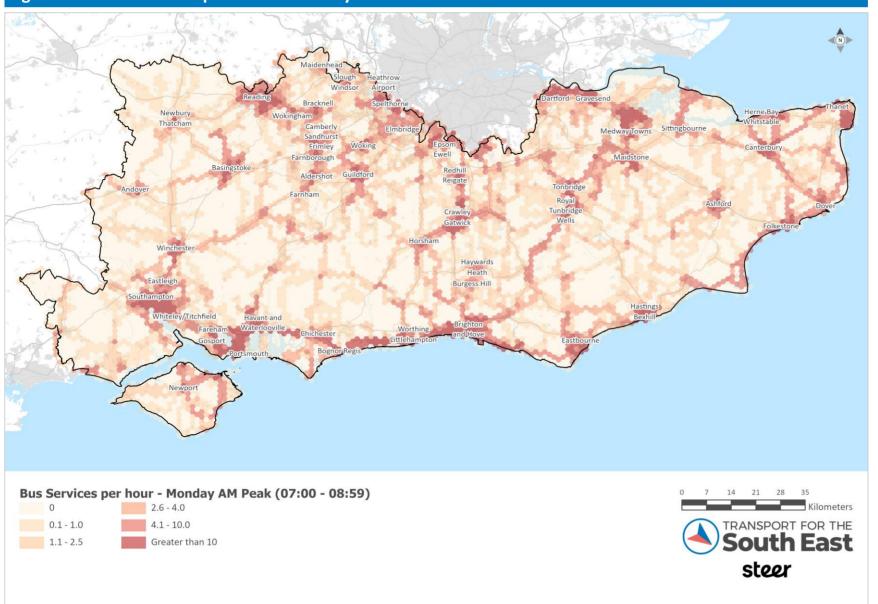




Figure 3.10: Bus Services per hour – Monday AM Peak <sup>13</sup>





Transport affordability is also an important factor in determining an individual's ability to access key services, as inadequate public transport increase reliance on private vehicles. **Figure 3.11** shows trends in transport affordability and how the cost of bus and rail travel has increased faster than private vehicles in recent decades.

**Figure 3.12** shows LSOAs with low car ownership and high average public travel time to services. These areas are generally situated in urban coastal communities.

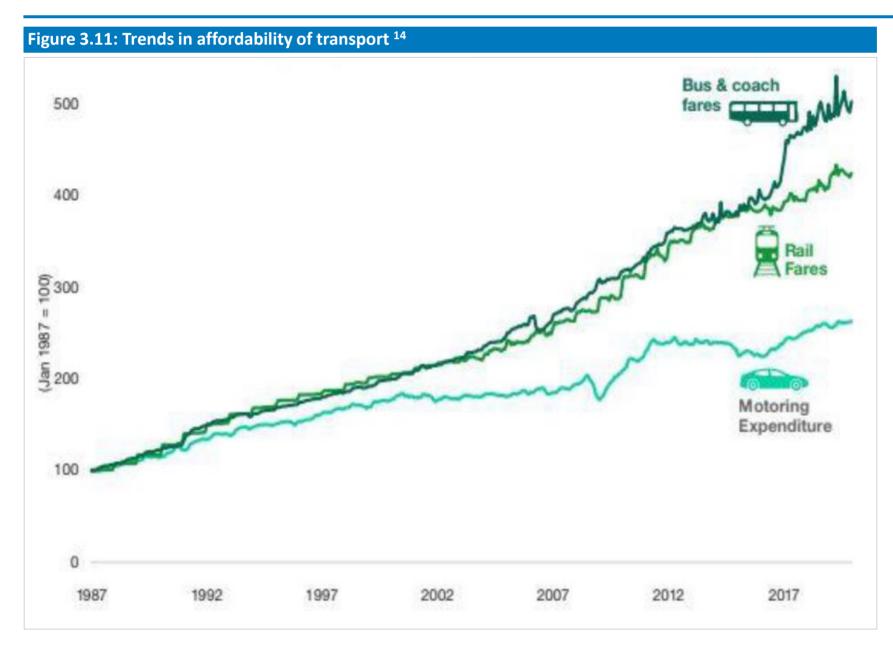
In Kent, more than 40% of households in Thanet, Dover and Folkestone do not have access to a car and are more than 15 minutes average travel time to key services. Other communities with these characteristics include areas of Brighton and Hove, Portsmouth and Southampton, where pockets of urban deprivation exist.

**Figure 3.13** shows the relationship between the index of multiple deprivation and journey time to central London by public transport. The most deprived places in the South East, which rank in the 10% most deprived in England, are mostly coastal communities which are more than 90 minutes journey time by public transport to Central London.

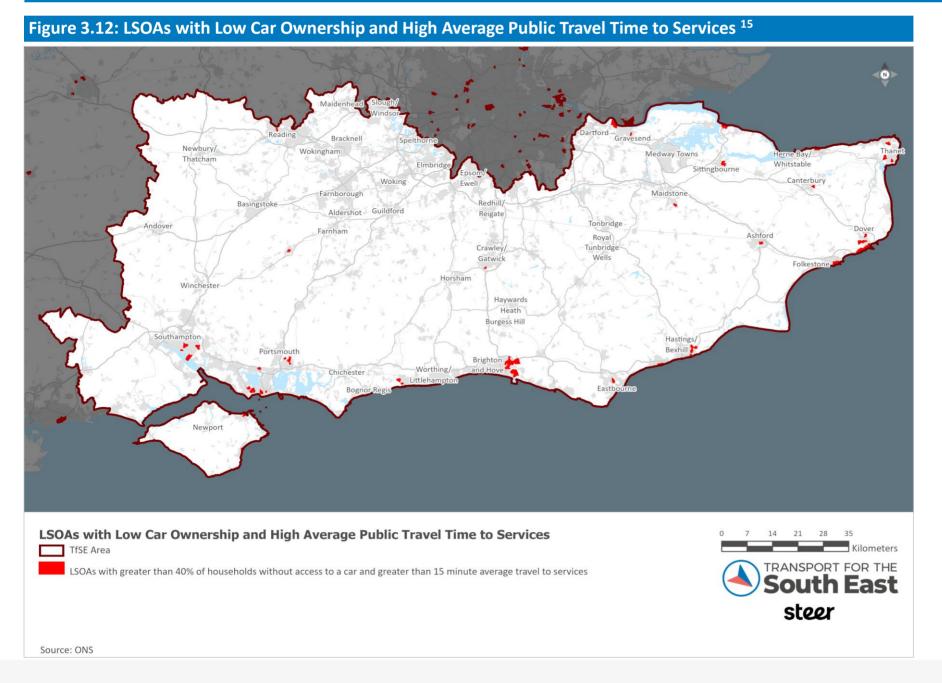
Some places which are better connected to central London by public transport, for example Ashford, the Medway towns, Gravesend and Dartford, also experience high levels of deprivation.

This demonstrates that good connectivity does not necessarily equate to prosperity, and that the task of reducing inequality and Levelling Up the South East is complex and multi- faceted.



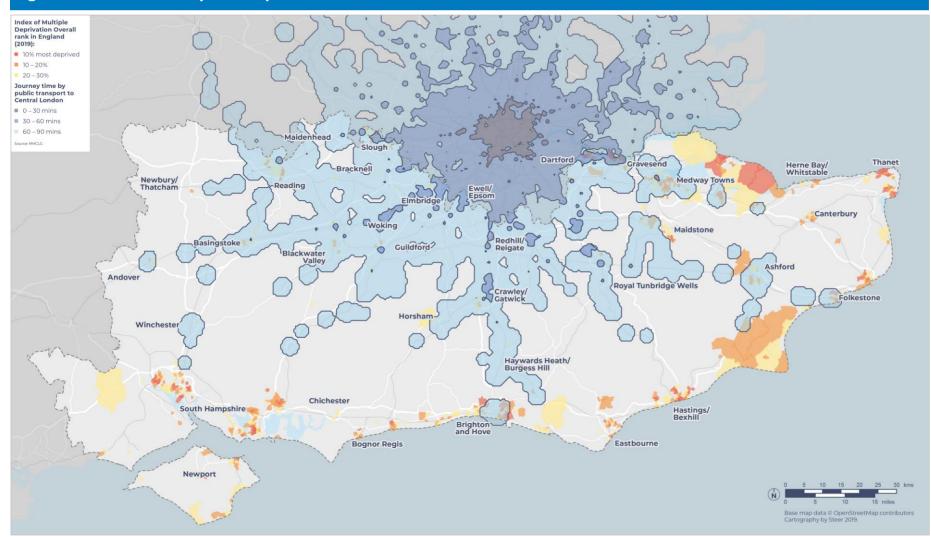














#### **Digital Connectivity**

The Levelling Up Mission for Digital Connectivity is that:

'By 2030, the UK will have nationwide gigabit-capable broadband and 4G coverage, with 5G coverage for the majority of the population.'

Improved digital connectivity has the potential to drive growth and productivity across the South East. Importantly, it has the potential to increase the size of local labour markets and widen access to employment through increased opportunities for remote working. This allows both workers and companies to locate away from high cost urban centres, enabling a more balanced distribution of growth.

Furthermore, improved digital connectivity will reduce the overall need to travel, particularly for business. This may allow the relationship between connectivity and deprivation to be decoupled, such that people living in isolated communities still have the opportunity to access high value jobs. Improved digital connectivity will also enable increased digitisation of the transport network, to improve network management and operational capacity. Furthermore, increased access to online information and digitally enabled services could be used to influence travel behaviours and encourage passengers to travel by public transport.

Access to a good internet connection enables people to work from home and therefore access to a greater range of employment opportunities. Good digital connectivity also enables people to benefit from new and future mobility options which are digitally dependent.

**Figure 3.14** illustrates median download speeds by output area. The map shows a concentration of areas with slow download speeds across Kent and East Sussex, in the New Forest and pockets of West Sussex and Hampshire.

Whilst some of these areas are deprived, there are also pockets of fast download speeds in deprived areas of Kent. The highest concentration of places with fast download speeds are in Berkshire, Surrey, west Hampshire and Brighton and Hove.

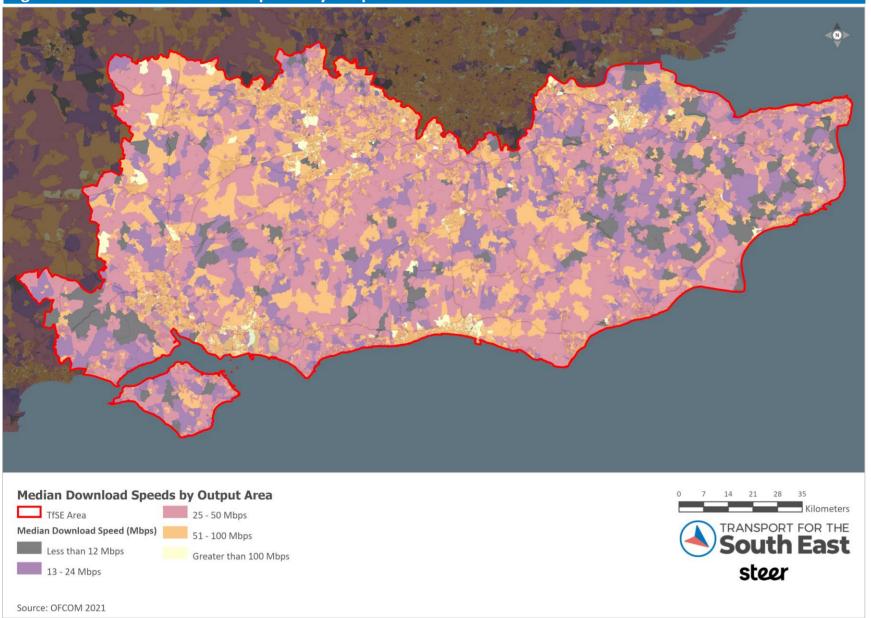
The data shows a limited correlation between download speeds and deprivation. Instead, the correlation is between rural and urban areas, rather than between prosperous and deprived communities.

Gigabit and 4G availability are also important enablers of growth and prosperity, as areas with good access to gigabit and mobile networks are more likely to be able to attract investment and encourage business.

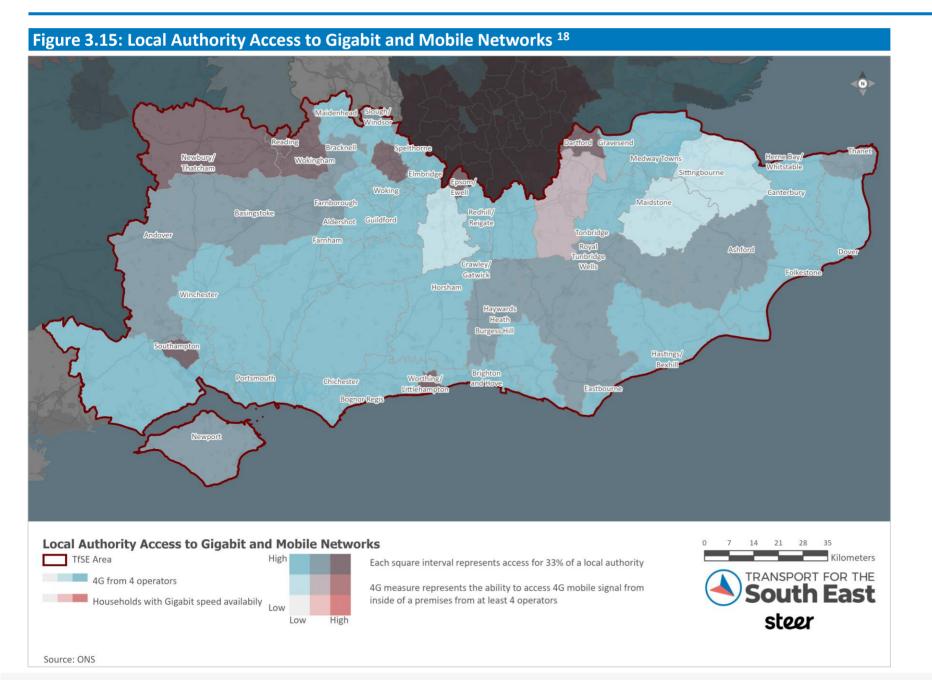
**Figure 3.15** shows local authority access to gigabit and mobile networks. It shows that 4G mobile connectivity is good across the South East region, with the exception of Swale, Maidstone in Kent and the Mole Valley in Surrey. Similarly, most areas of the region benefit from good gigabit availability, with Dartford in Kent being an outlier.













### Education

The Levelling Up mission for education is that;

'By 2030, the number of primary school children achieving the expected standard in reading, writing and maths will have significantly increased. In England, this will mean 90% of children will achieve the expected standard, and the percentage of children meeting the expected standard in the worst performing areas will have increased by over a third.'

Access to education is critical to enabling children to develop the skills needed to succeed in life. A good standard of education creates more employment opportunities, higher income and therefore a better standard of living. Spreading education opportunities equally is key to levelling up the South East.

Education deprivation occurs when students leave formal education without the qualifications and skills needed to gain meaningful employment. **Figure 3.16** shows the proportion of the population aged 16 to 64 with level 3+ qualifications by local authority district in 2021. Level 3+ refers to A levels, a higher education diploma, an advanced apprenticeship and above.

The map shows a significant gap in educational attainment across the South East. The areas with the lowest levels of attainment, where the proportion of the population with level 3+ qualifications is between 37% and 52.8%, include Dartford, Swale and Thanet in Kent, and Crawley, Eastbourne, Rother and Hastings in Sussex. The highest levels of educational attainment are across Hampshire, Berkshire and Surrey.

This demonstrates a strong correlation between educational attainment and deprivation, with the worst performing areas also amongst the most deprived in the region.

**Figure 3.17** shows education deprivation in the South East, with the darker shaded areas representing the most deprived. This map closely mirrors the educational attainment data illustrated in **figure 3.16**, with the most deprived areas having the poorest education outcomes. These are mostly concentrated in

Levelling Up Thematic Plan

the east of the region, and particularly in coastal communities. Education deprivation is also high in the metropolitan areas of Southampton and Portsmouth.

An important factor in being able to access education is the journey time to and from schools, which if long can act as a barrier to good attendance. **Figure 3.18** shows LSOAs with a greater than 15 minute access time to primary schools. These areas are mostly in rural parts of the South East, with a particularly high concentration in rural Hampshire, between Basingstoke and Winchester, and in the New Forest.

This trend does not closely correlate to deprivation, with the most deprived communities in the region generally having good access to primary schools.

As shown in **figures 3.19**, trends for access to secondary schools are similar to those for primary schools. Access is generally good (within 30 minutes) in the most deprived areas of the region, with the longest access times being in rural communities, particularly to the west of the region.



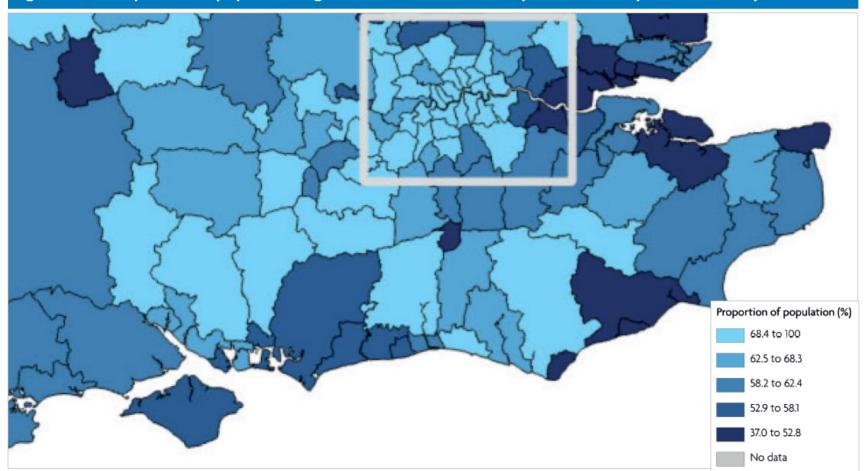
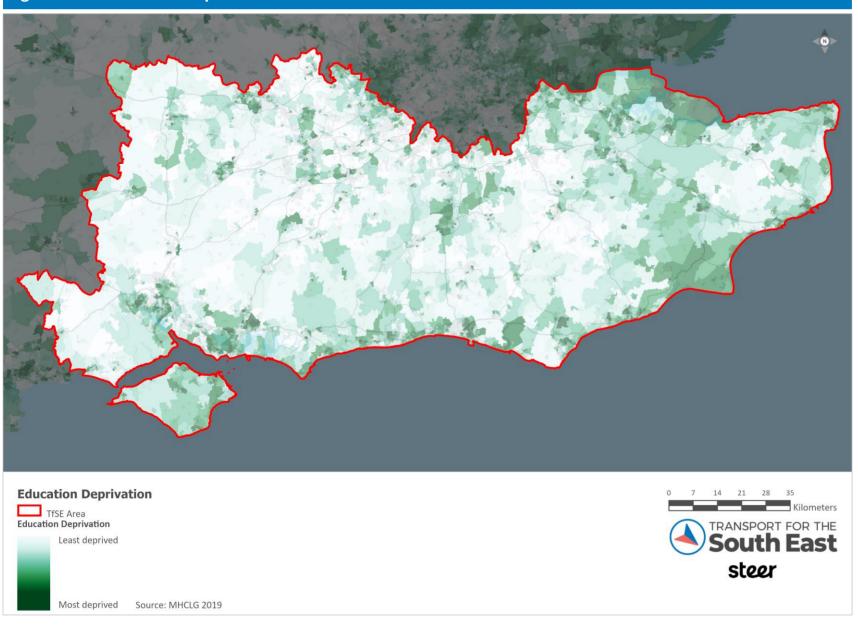


Figure 3.16: Proportion of population aged 16 to 64 with level 3+ qualifications by local authority district <sup>19</sup>

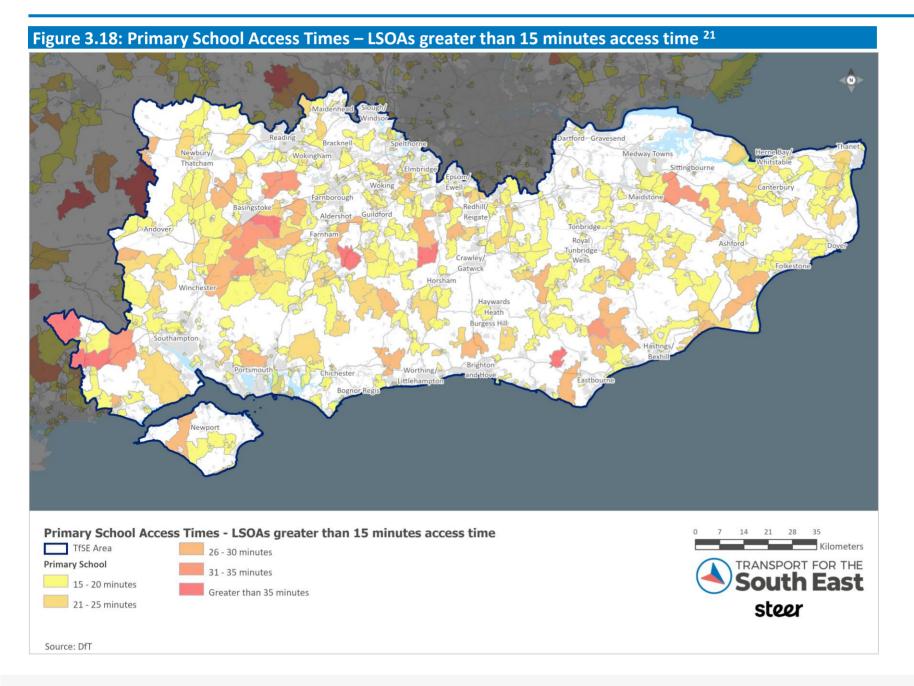
<sup>1</sup> Levelling Up the United Kingdom White Paper, 2022, page 10



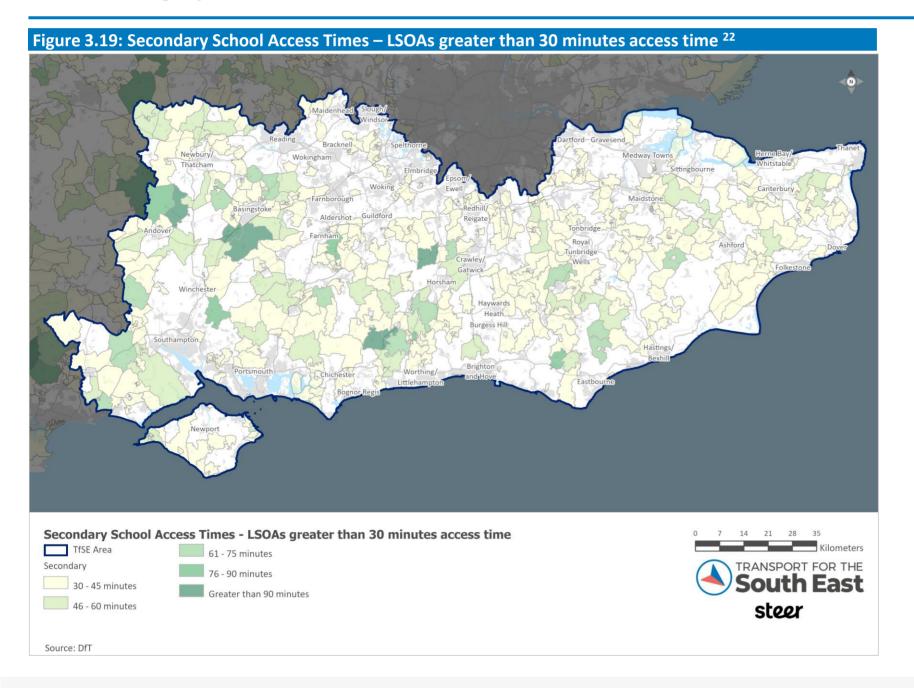
Figure 3.17: Education Deprivation in the South East <sup>20</sup>













#### Skills

#### The Levelling Up mission for skills is that:

'By 2030, the number of people successfully completing high-quality skills training will have significantly increased in every area of the UK. In England, this will lead to 200,000 more people successfully completing highquality skills training annually, driven by 80,000 more people completing courses in the lowest skilled areas.'

Access to further education, apprenticeships and employment are all important in allowing people to develop high quality skills to maximise their income and improve their life outcomes. Good transport connectivity is a key enabler to unlock this access, with well connected communities able to benefit from a greater number and variety of education and employment opportunities.

**Figure 3.20** illustrates access times to further education. The spatial pattern of places with greater than 60 minutes access time reflects a weak correlation with deprivation, as these communities are generally located in prosperous rural areas of the region across Hampshire and West Sussex. **Figure 3.21** shows local authorities in the lowest quartile for a combination of four key metrics:

- level 3+ equivalent skills in the adult population;
- Gross Value Added per hour worked;
- median gross weekly pay; and
- healthy life expectancy.

The local authorities with all four measures in the bottom quartile are Thanet in Kent and Rother and Eastbourne in East Sussex. These local authorities consistently rank amongst the most deprived in the South East. Nearly all local authorities throughout Berkshire, Surrey and West Sussex do not have any of the four measures in the lowest quartile.



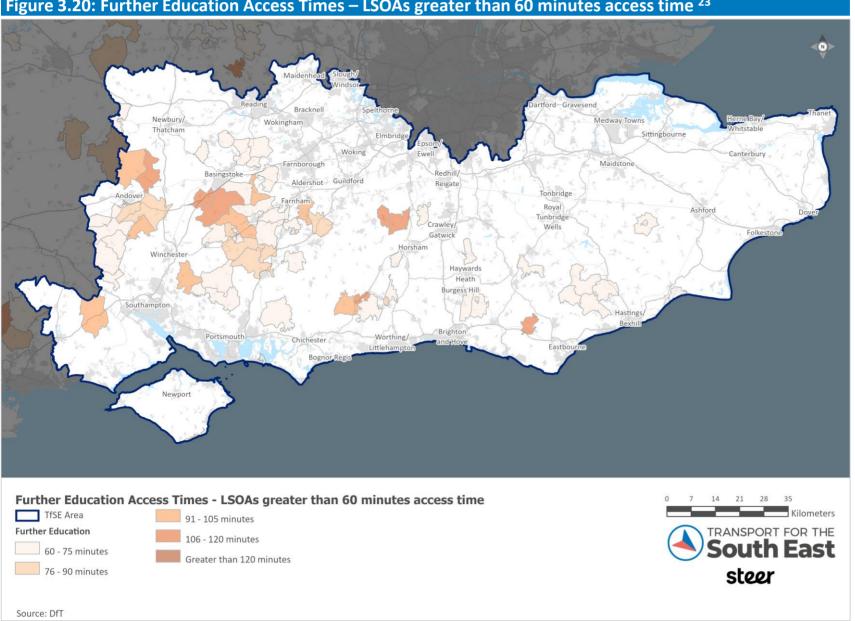
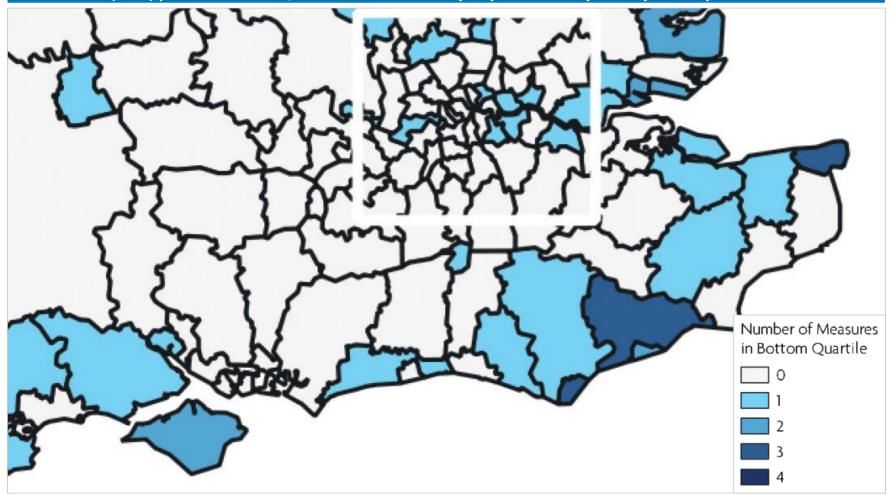






Figure 3.21: Local authorities in the bottom quartile for level 3+ equivalent skills in the adult population, Gross Value Added (GVA) per hour worked, Median Gross Weekly Pay and healthy life expectancy <sup>24</sup>





### Health

#### The Levelling Up mission for health is that:

'By 2030, the gap in Healthy Life Expectancy (HLE) between local areas where it is highest and lowest will have narrowed, and by 2035 HLE will rise by five years.'

Similarly to other focus areas and missions, access to key services is critical to achieving positive outcomes. In the case of health, this includes access to hospitals, GP surgeries and other healthcare professionals.

There is a clear correlation between deprivation and health, whereby the most deprived communities have the poorest health outcomes. As illustrated in **figure 3.22**, the number of years lived in good health for both males and females decreases by each decile of deprivation.

Females living in the 10% most deprived neighbourhoods in England can expect to have around 52 years healthy life expectancy, and a total life expectancy of 79 years, compared to the least deprived decile, where healthy life expectancy is 71 years and total life expectancy is 86 years. A similar trend is evident for male life expectancy and healthy life expectancy.

The provision of transport infrastructure has an important role to play in determining health outcomes. Investment in active travel can encourage people to walk and cycle more frequently, therefore improving physical and mental health and reducing the risk of poor health.

**Figure 3.23** shows the proportion of overweight and obese adults in the South East. There is a strong correlation between areas with the highest rates of obesity and deprivation, with coastal and estuarine communities containing some of the worst rates of adult obesity.

**Figures 3.24 and 3.25** show healthy life expectancy at birth for males (figure 27) and females (figure 28). Both maps illustrates similar trends of lower life expectancy in the more deprived areas of the region.

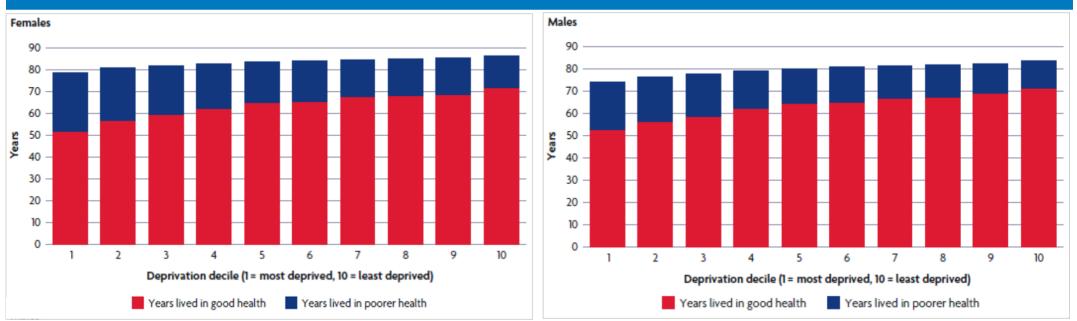
The relationship between access to health services and average life expectancy is shown in **figure 3.26**. The areas with the lowest life expectancy are primarily to the east of the region, in particular the coastal communities of east Sussex and the Thames Estuary.

Communities with greater then one hour average access time to GPs or hospitals, which tend to be located inland, generally have lower life expectancy. Conversely, communities with the highest life expectancy of above 84 years are generally located in the least deprived areas and benefit from good access to health services.

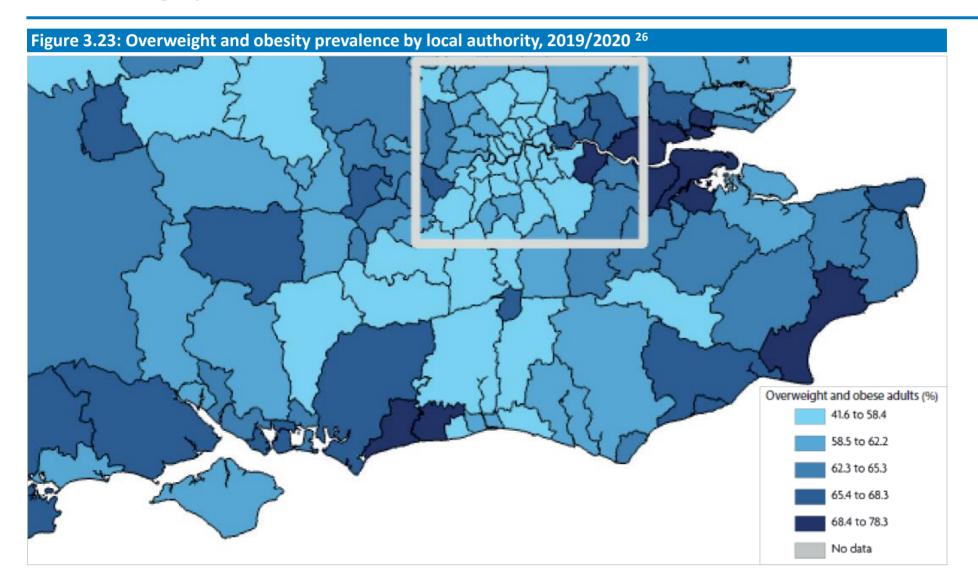
Communities in most need of levelling up are therefore those with limited access to healthcare services, which is not only a consequence of the provision of the services themselves, but also a result of poor transport connectivity to access them.



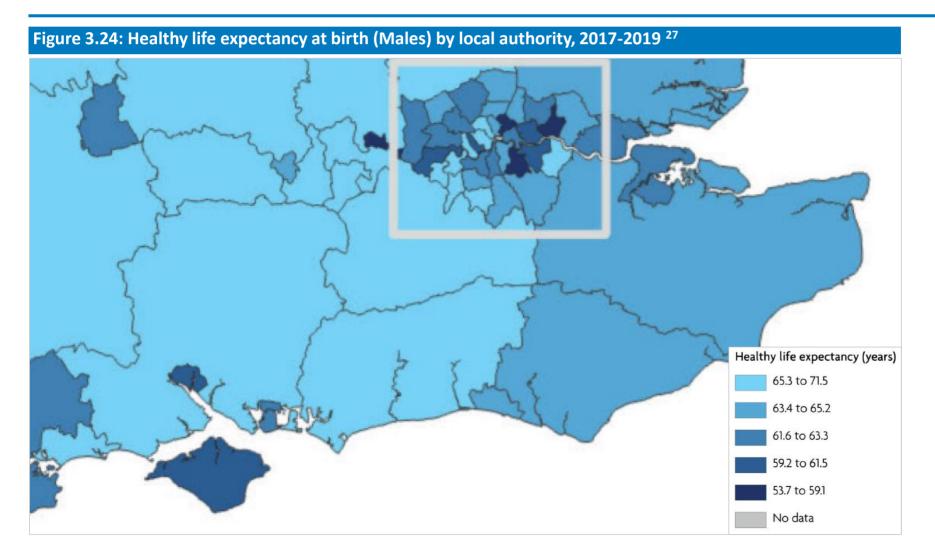




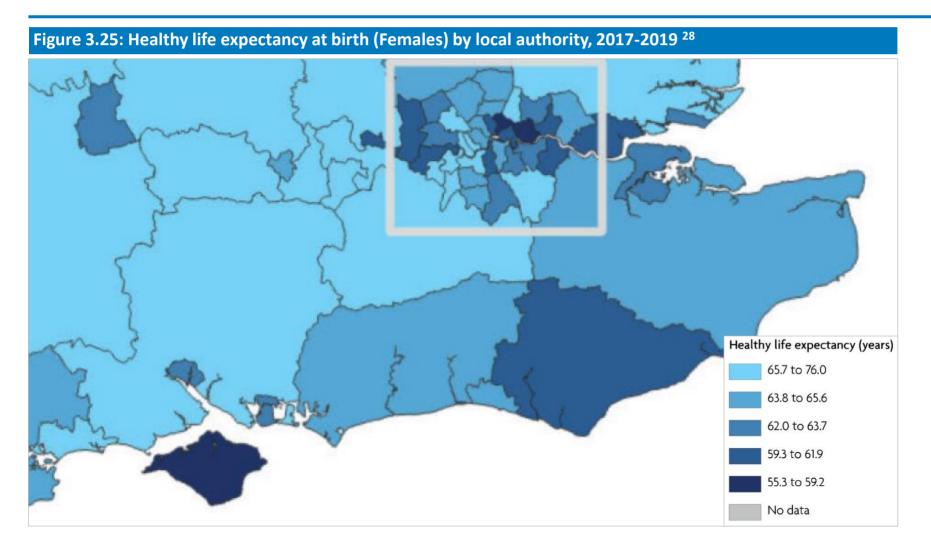




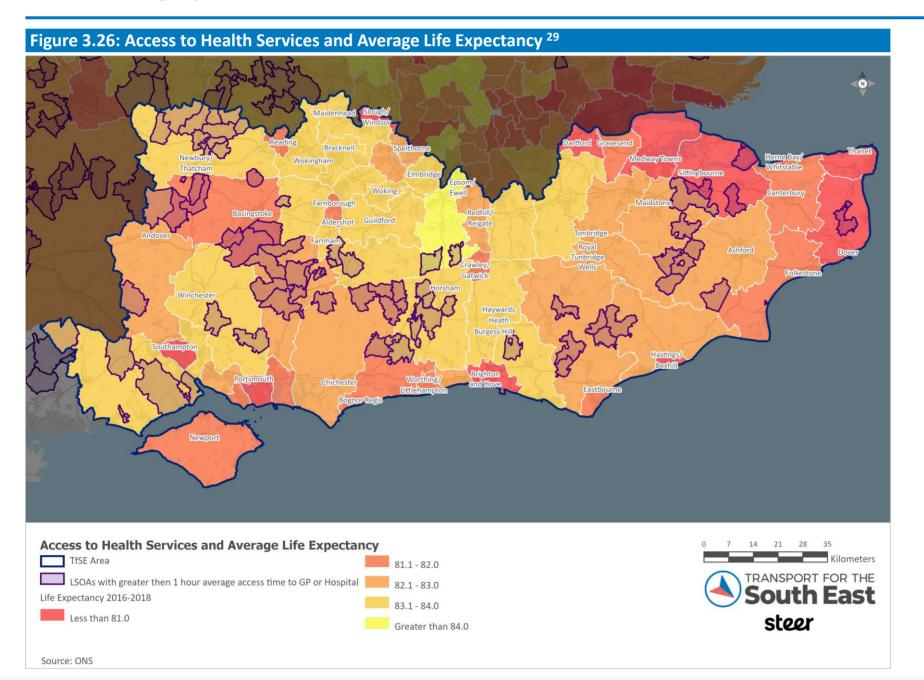














### Wellbeing

The Levelling Up mission for Wellbeing is that:

'By 2030, well-being will have improved in every area of the UK, with the gap between top performing and other areas closing.'

Wellbeing is closely related to an individuals ability to lead a full and active life. As such, places which are well connected with access to key services, including healthcare and leisure, can help promote good wellbeing.

An important factor in enabling good wellbeing is physical activity, which is related to access to green space and the provision of space to participate in sports and leisure activity. The quality of the environment is also important in encouraging walking and cycling to promote positive wellbeing.

**Figure 3.27** shows the location of Air Quality Management Areas (AQMAs) in relation to the most deprived areas of the South East, which are largely located in urban centres along major roads. There is a weak correlation with deprivation however, with many of the AQMAs located in prosperous areas of Berkshire and Surrey. The location of AQMAs is largely determined by the volume of traffic, which is higher in prosperous communities where car ownership is more common.

There are also a number of AQMA's in deprived areas, most notably in communities along the Thames Estuary and in across Southampton and Portsmouth.

Another metric which can be considered as an indicator of wellbeing is the number of people killed and seriously injured (KSI) in road traffic accidents. **Figure 3.28** illustrates the number of KSIs per million vehicles kilometres. The areas with the highest rates of incidence are across east and west Sussex, the Medway towns, Brighton and Hove and the Isle of Wight.

This does not represent a strong correlation with deprivation, as some of the more deprived places in the region have low rates of people killed and seriously injured by vehicle kilometres.



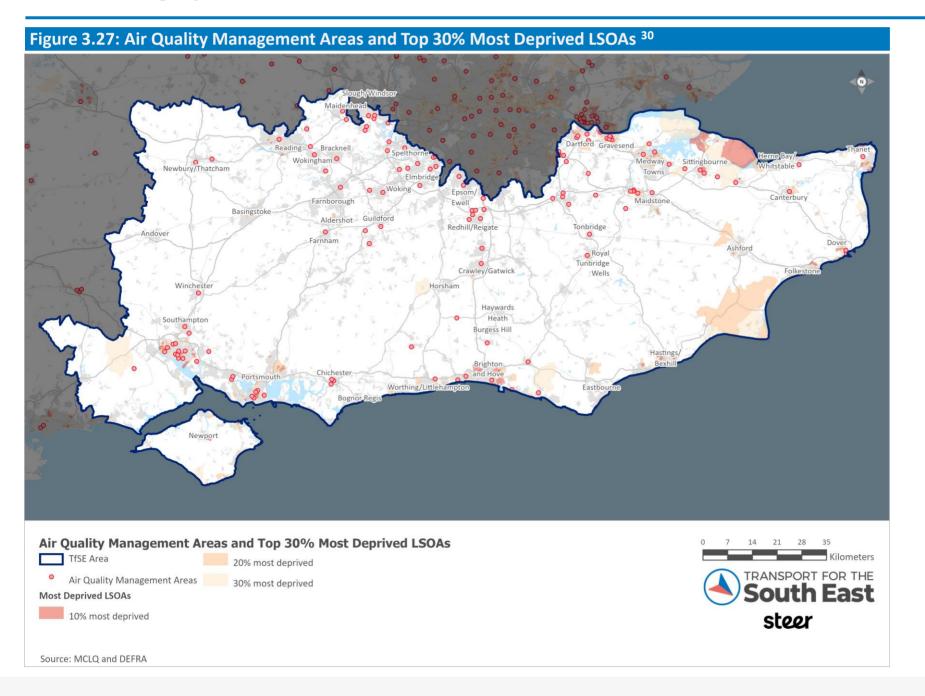




Figure 3.28: Killed and Seriously Injured by Vehicle Kilometres <sup>31</sup> Newbury/ Wokingham Thatcham Woking Farnborough Rodhill Basingstoke Aldershot Guildford Reigate Tonbridge Andover Farnhan Royal Tunbridge 2 Winchester Newport Killed and Seriously Injured by Vehicle Kilometres 7 14 21 28 35 0 Kilometers TfSE Area 0.06 - 0.10



TRANSPORT FOR THE South East

steer

Source: ONS, STATS19

KSI per Million Vehicle Km

Less than 0.05

0.11 - 0.15

Greater than 0.15

#### Pride in Place

The Levelling Up mission for Pride in Place is that:

'By 2030, pride in place, such as people's satisfaction with their town centre and engagement in local culture and community, will have risen in every area of the UK, with the gap between top performing and other areas closing.'

People's sense of pride in where they live is an important factor in influencing their satisfaction with their town centre and engagement with their local community. It is a subjective indicator, measured more by people's experiences rather than quantitative analysis. Pride in place can be determined by a range of factors, including the history of the place or how it is perceived in the local and national consciousness.

The quality of a place also determines how people feel about it. For example, high quality public realm and local services can create a greater sense of satisfaction and encourage people to engage more in their community.

#### Creating safe spaces for people to meet in public can foster improved community cohesion, participation and life satisfaction.

Similarly, high quality public transport and active travel infrastructure is important to enabling people's engagement with their local community, and experience of the place they live.

Communities with good quality walking and cycling facilities, with wide and well lit public spaces, encourage a more personable interaction with the built environment compared to streets which are dominated by motor traffic.

Well designed neighbourhoods and good quality streets with ready access to key services and green spaces can help to improve safety, reduced crime, encourage physical activity and improve public health.

Interventions to improve pride in place must, therefore, target the most deprived places in order to maximise the benefits of creating vibrant and cohesive communities with engaged, healthy and proud residents. **Figure 3.29** shows mean life satisfaction score across local authorities in the South East with a score range of 0 to 10 for least to most satisfied.

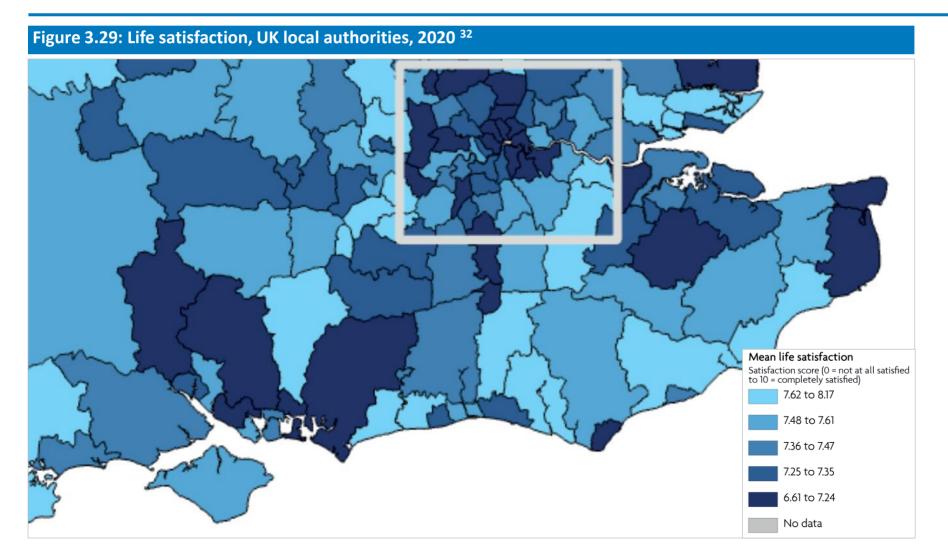
The local authorities with the lowest satisfaction score include the Test Valley, Winchester in Hampshire, Chichester and Eastbourne in Sussex, and Maidstone, Thanet and Dover in Kent.

The local authorities with the highest mean life satisfaction score are Shepway and Sevenoaks in Kent, Mid Sussex, Arun and Lewes in Sussex, East Hampshire, and Surrey Heath, Woking and Runnymede in Surrey.

These locations represent a weak correlation to deprivation in the South East. For example, Shepway is one of the more deprived local authorities in the region but records a high life satisfaction score.

Conversely, the Test Valley is a relatively prosperous area but records a low life satisfaction score. This indicates that deprivation is therefore not a key determinant of life satisfaction.







#### Housing

#### The Levelling Up mission for housing is that:

'By 2030, renters will have a secure path to ownership with the number of first-time buyers increasing in all areas; and the government's ambition is for the number of non-decent rented homes to have fallen by 50%, with the biggest improvements in the lowest performing areas.'

Good quality housing is fundamental to people's ability to live happy and healthy lives. Poor quality housing is commonly one of the biggest issues is deprived communities, and is associated with a range of other socioeconomic outcomes such as health, crime, educational attainment and general living standards.

Housing is less affordable where demand is highest or where the supply is constrained by, for example, spatial planning policies or the topology of the area, as is the case along the coastal and estuarine communities in Sussex and Kent. Affordability is also an issue in desirable areas where housing supply has not kept pace with demand, for example in north east Kent. **Figure 3.30** shows average residential earnings mapped against median household price ratio and the most deprived LSOAs. It illustrates that the most unaffordable areas in the region are in the more prosperous places, for example communities in Hampshire, West Sussex and Surrey.

Similarly, areas with the most affordable housing are generally located in the more deprived communities to the east on the region, particularly in Kent.

#### Crime

#### The Levelling Up mission for crime is that:

'By 2030, homicide, serious violence and neighbourhood crime will have fallen, focused on the worst affected areas.'

Investment in high quality public realm and urban design can create safer streets and reduce neighbourhood crime. For example, the provision of street lighting can help make pedestrians and cyclists feel safer when walking at night, and benches and other resting places can encourage pedestrians to dwell and activate the street space. This helps generate a greater sense of safety amongst people using public spaces.

The objective of the final focus area and mission is to:

'empower local leaders and communities, especially in those places lacking local agency.'

#### Local Leadership

# The Levelling Up mission for local leadership is that:

'By 2030, every part of England that wants one will have a devolution deal with powers at or approaching the highest level of devolution and a simplified, long-term funding settlement.'

To achieve the objective for local leadership, the development of a transport strategy for the South East, along with a Strategic Investment Plan and Local Development Plans will provide a clear strategy for transport and related spatial policy areas. This will form the basis for the powers granted to a devolved authority for the South East.



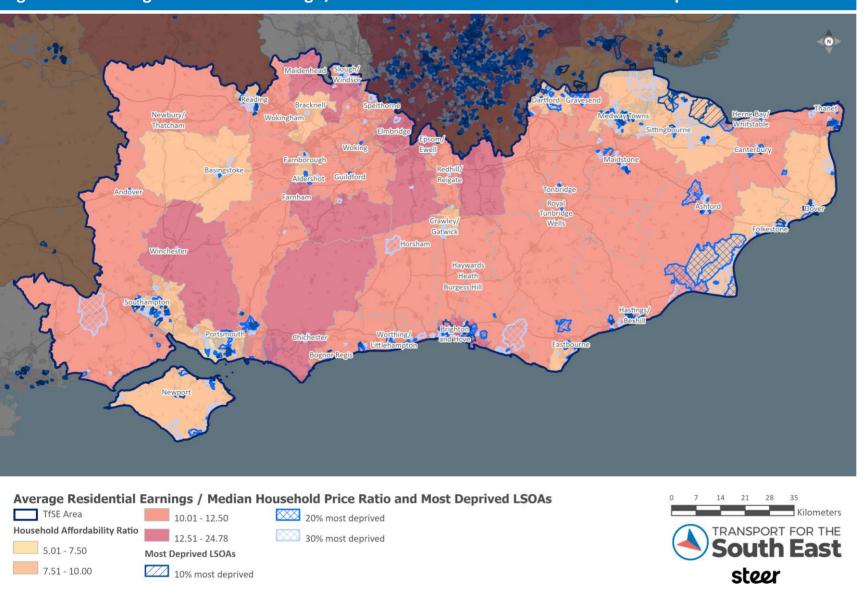


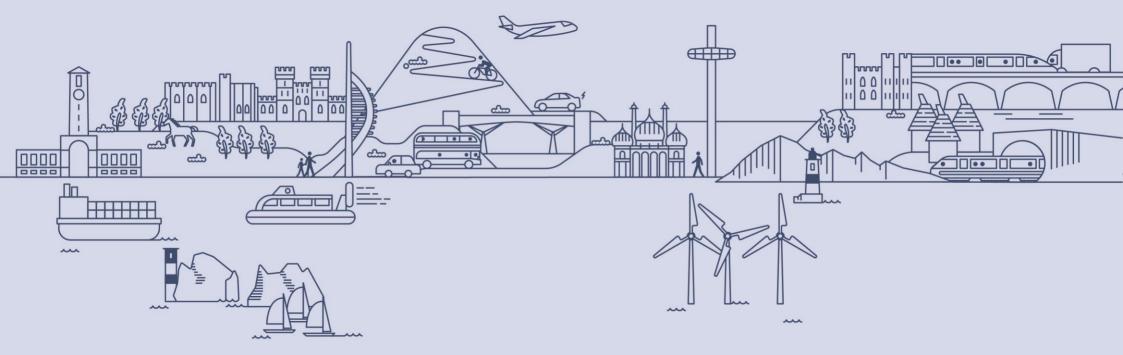
Figure 3.30: Average Residential Earnings / Median Household Price Ratio and Most Deprived LSOAs <sup>33</sup>

Source: ONS









# **Part 4: Visions and Objectives**

## **TfSE Strategy**

The vision and objectives for the South East's Levelling Up strategy are designed to align and support the wider vision and objectives set out in TfSE's Strategy and Area Studies.

The vision for Levelling Up the South East reflects the TfSE Transport Strategy Vision, which is presented below:

"By 2050, the South East of England will be a leading global region for net zero carbon, sustainable economic growth where integrated transport, digital and energy networks have delivered a step change in connectivity and environmental quality.

A high quality, reliable, safe and accessible transport network will offer seamless door to door journeys enabling our businesses to compete and trade more effectively in the global marketplace and giving our residents and visitors the highest quality of life."

#### Area Study Objectives

The key objectives emerging from the Area Study Programme are centred around an ambition to deliver a transport system that:

- Enables a more prosperous, resilient, and equitable economy.
- Delivers better socioeconomic outcomes, especially in deprived areas.
- Protects the natural and historic environment.
- Achieves the UK Governments goal of Net zero carbon emissions.
- Improves safety for all highway users.
- Promotes sustainable housing and employment growth.
- Unlocks regeneration opportunities, especially in coastal communities.
- Strengthens the resilience of the transport system and economy.
- Delivers high quality connectivity for freight, especially between the South East's international gateways and the rest of the country.

#### **Need for Intervention**

Investment in transport infrastructure is critical to achieving the missions set out in the Levelling Up White Paper.

Without intervention, inequalities across multiple socioeconomic indicators would widen and inequality and deprivation across the South East would increase, making the objectives of the Levelling Up agenda unachievable.

Access to education and employment opportunities would be limited for people who are restricted to using public transport, and places caught in the vicious cycle of decline would continue to experience worse outcomes in productivity, quality of life and pride in place.

Prosperity and higher value commercial development opportunities would be concentrated in already well performing places, and the powers of local leadership and governance required to improve socioeconomic outcomes would be weakened, with a limited sense of autonomy and self-determination.



## **Key Strengths**

The Strategic Investment Plan sets out a Strategic Narrative underpinning the case for investing in the South East.

This narrative starts by highlighting the key strengths of the South East, including:

- a highly productive economy;
- a highly educated workforce;
- strong links and access to London;
- strengths in Financial/Professional Services, Advanced Engineering/Manufacturing, IT, Marine/Maritime, Defence, Transport/Logistics, Tourism, Low Carbon, and Creative Industries;
- several national and world leading universities;
- a favourable investment environment;
- available land for regeneration and development;
- a varied and highly valued natural environment; and
- a rich cultural and historic environment.

## **Key Challenges**

The South East faces several challenges and threats, which in the Strategic Narrative are grouped into eight themes.

The first four focus on broader issues where action is required across multiple sectors:

- **Decarbonisation** of the transport system is not happening fast enough.
- The South East's transport systems need to adapt to a **new normal**- i.e. post pandemic, post Brexit environment.
- There is a need to **"level up" left behind** communities.
- There is a need for sustainable regeneration and growth.

The second group of these four themes have a more direct relevance to transport:

- The South East's largest conurbations lack world class urban transit systems.
- East West Connectivity is poor.
- Radial Corridors lack resilience in places.
- There are gaps and vulnerabilities in the networks that serve Freight and Global Gateways.

# The Role of Transport in Enabling Levelling Up

Transport has an important role to play in helping to Level Up left behind communities in the South East.

A range of interventions can be applied to help address the challenges of deprivation and socioeconomic inequality, including:

- High quality public transport to help **increase connectivity** in the most isolated communities.
- Targeted investment in left behind communities to **improve accessibility** for people reliant on public transport.
- Commercial models which support low cost of travel on public transport and disincentivize private vehicle usage.
- New, integrated residential developments which embed public transport and active travel in everyday mobility.
- Enhancements in the **quality of places** to improve pride in place and promote good public health and wellbeing.



## A Bottom-up approach for identifying key issues

The Area Study Programme identified specific problems (weaknesses and/or challenges) that many stakeholders wish to see the Strategic Investment Programme address.

Some of these problem statements refer directly to the rail network, while others are broad but could still be relevant to the rail network. A list of the key problem statements that could be addressed (at least partially) through rail network interventions is provided below.

## **Global Problem Statements**

- Transport is not decarbonising fast enough.
- Climate change threatens the resilience of transport networks.
- Freight is heavily reliant on highways, especially for first-mile-last-mile deliveries.
- Numerous parts of the South East have unacceptably poor socioeconomic outcomes.
- Demand for public transport has been negatively affected by COVID-19.
- Some parts of the South East appear to be too reliant on a small number of industrial sectors.
- The economic influence of London dominates many areas in the South East.

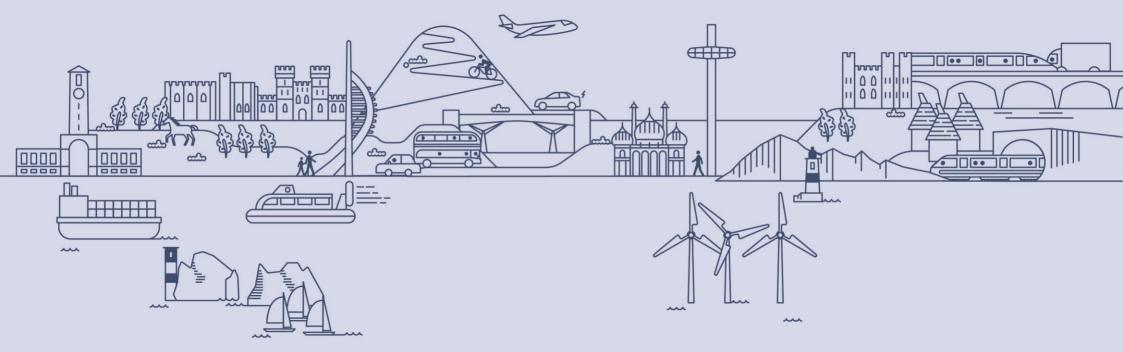
- Housing affordability presents a barrier to achieving social equity objectives.
- There is a recognised need for housing but in the right places, supported by the right infrastructure, planned to deliver sustainable transport outcomes.
- The benefits of new technologies are not accessible to everybody.
- We need better coordination between land-use and transport planning.
- Rural communities are being left behind in digital, active travel, and public transport connectivity.
- Too many transport services and networks are inaccessible to all users.
- For many people, public transport fares are too high and too complicated.

## **Other relevant Problem Statements**

- Rural communities are being left behind in digital, active travel, and public transport connectivity.
- Too many transport services and networks are inaccessible to all users.
- For many people, public transport fares are too high and too complicated.
- Kent/Medway is "cut off" from the rest of the UK by London and the Thames.
- Highway congestion undermines public transport on the Isle of Wight.
- Ferry services on the Isle of Wight do not facilitate the same level of access to services as the mainland.
- Ferry fares are high and do not provide enough access for the Isle of Wight.
- Poor connectivity is holding coastal communities back.
- The geography of the South Coast forces people and goods moving along the coast to travel long distances inland to complete their journeys.







# **Part 5: Location Specific Interventions**

# Introduction

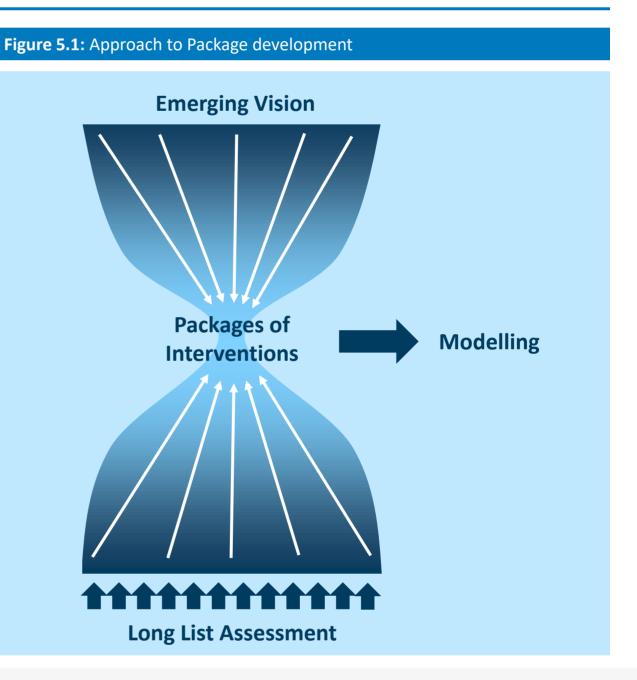
TfSE has worked with key stakeholders and technical advisors to develop several coherent Packages of Interventions that aim to deliver TfSE's vision and objectives.

These Packages have been developed through workshops, discussions, and careful analysis of results of the assessment of a long list of options. In essence, this reflects both a 'top down' i.e., vision led approach and a 'bottom up' i.e., individual intervention assessment approach. **Figure 5.1** illustrates the essence of this combined approach.

Of the 31 packages developed across the Area Study Programme, we believe 13 Place Based and 3 'global' package interventions directly support TfSE's ambitions to Level Up left behind communities in the South East.

The place-based packages are presented over the remainder of this section. The Global Policy Packages are:

- 1. Public Transport Fares: This reverses the real terms increase in the cost of public transport compared to motoring.
- 2. Virtual Living: The pandemic has shown how virtual working can help reduce demand for transport services.
- **3.** Integration and Access: This delivers improvements in integration and accessibility across and between all modes of transport.





The Area Studies programme has identified **Packages of Interventions** that serve areas of the South East in need of Levelling Up. The interventions included in these Packages are summarised below and presented on the following pages.

#### Package A: South Hampshire Rail (Core)

- Al Solent Connectivity Strategic Study
- A2 Botley Line Double Tracking
- A3 Netley Line Signalling and Rail Service Enhancements
- A4 Fareham Loop / Platform
- A5 Portsmouth Station Platforms
- A6 South West Main Line Totton Level Crossing Removal
- A7 Southampton Central Station Upgrade and Timetabling
- A8 Eastleigh Station Platform Flexibility
- A9 Waterside Branch Line Reopening
- A10 West of England Service Enhancements
- All Additional Rail Freight Paths to Southampton

#### Package B: South Hampshire Rail (Enhanced)

- B1 Southampton Central Station -Woolston Crossing
- B2 New Southampton Central Station
- **B3** New City Centre Station
- B4 South West Main Line Mount Pleasant Level Crossing Removal
- B5 West Coastway Line Fareham to Cosham Capacity Enhancements
- B6 Cosham Station Mobility Hub
- B7 Eastleigh to Romsey Line -Electrification
- B8 Havant Rail Freight Hub
- **B9** Fratton Rail Freight Hub
- BIO Southampton Container Port Rail Freight Access and Loading Upgrades
- B11 Southampton Automotive Port Rail Freight Access and Loading Upgrades

#### Package C: South Hampshire Mass Transit

- C1 Southampton Mass Transit
- C2 south east Hampshire Rapid Transit Future Phases
- C3 New Southampton to Fawley Waterside Ferry Service
- C4 Southampton Cruise Terminal Access for Mass Transit
- C5 M271 Junction 1 Strategic Mobility Hub
- C6 M27 Junction 5 / Southampton Airport Strategic Mobility Hub
- C7 M27 Junction 7 / 8 Strategic Mobility Hub
- C8 M27 Junction 9 Strategic Mobility Hub
- C9 Tipner Transport Hub (M275 Junction 1)
- C10 Southsea Transport Hub
- C11 Improved Gosport Portsmouth and Portsmouth - Hayling Island Ferries



The Area Studies programme has identified **Packages of Interventions** that serve areas of the South East in need of Levelling Up. The interventions included in these Packages are summarised below and presented on the following pages.

#### Package D: Isle of Wight Connectivity

- D1 New Isle of Wight Mass Transit System
- D1a Bus Mass Transit Newport to Yarmouth
- D1b Bus Mass Transit Newport to Ryde
- D1c Bus Mass Transit Newport to Cowes
- D1d Isle of Wight Railway Service Enhancements
- Dle Isle of Wight Railway Extensions or Mass Transit alternative -Shanklin to Ventnor
- DIf Isle of Wight Railway Extensions or Mass Transit alternative - Shanklin to Newport
- D2 Isle of Wight Ferry Service Enhancements
- D2a Operating Hours and Frequency Enhancements
- D2b New Summer Route Ryde to Southampton

#### **Package E: Solent Active Travel**

- El Southampton Area Active Travel (including LCWIPs)
- E2 south east Hampshire Area Active Travel (including LCWIPs)
- E3 Portsmouth Eastern Road Active Travel Bridge Extension
- E4 Portsmouth Eastern Road East-West Bridge
- E5 Southampton City Centre Placemaking

#### Isle of Wight Active Travel

- E6 Isle of Wight Active Travel Enhancements
- E6a Active Travel Enhancements -Newport to Yarmouth
- E6b Active Travel Enhancements Newport to Ryde
- E6c Active Travel Enhancements Newport to Cowes

#### Package H: Sussex Coast Active Travel

 HI Sussex Coast Active Travel Enhancements (including LCWIPs)

#### Package G: Sussex Coast Mass Transit

- G1 Shoreham Strategic Mobility Hub
- **G2** A27/A23 Patcham Interchange Strategic Mobility Hub
- **G3** Falmer Strategic Mobility Hub
- **G4** Eastbourne/Polegate Strategic Mobility Hub
- G5 Sussex Coast Mass Rapid Transit
- **G6** Eastbourne/Wealden Mass Rapid Transit
- **G7** Hastings/Bexhill Mass Rapid Transit
- **G8** A27 Falmer Polegate Bus Stop and Layby Improvements



The Area Studies programme has identified **Packages of Interventions** that serve areas of the South East in need of Levelling Up. The interventions included in these Packages are summarised below and presented on the following pages.

n	M27 Junction 8 (RIS2)	112	Northam Rail Bridge	119	M27 / M271 Smart Motorway(s)
12	A31 Ringwood Strategic Traffic (RIS2)		Replacement and Enhancement (MRN)	120	A27 Tangmere Junction Enhancements
13	A27 Arundel Bypass (RIS2)	113	New Bridge from Horsea to Tipner	121	A27 Fontwell Junction
14	A27 Worthing and Lancing	114	A259 Bognor Regis to Littlehampton Enhancement (MRN)	-	Enhancements
15	Improvement (RIS2) A27 East of Lewes Package (RIS2)			122	A27 Worthing (Long Term Solution)
16	Southampton Access (M27 Junction 2 and Junction 3) (RIS3	115	A259 South Coast Road Corridor - Eastbourne to Brighton (MRN &	123	A27 Hangleton Junction Enhancements
17	Pipeline) A27 Lewes - Polegate (RIS3	116		124	A27 Devils Dyke Junction Enhancements
<u> </u>	Pipeline)	_	Enhancement (MRN Pipeline)	125	A27 Falmer Junction Enhancements
18	A27 Chichester Improvements	117	117 A259 (King's Road) Seafront Highway Structures Renewal	-	
_	(RIS3 Pipeline)		Programme (MRN)		A27 Hollingbury Junction Enhancements
19	A326 Capacity Enhancements (LLM)	118	A29 Realignment including combined Cycleway and Footway	-	Enhancements
110	West Quay Realignment (LLM)	-			
m	Portsmouth City Centre Road (LLM)				



The Area Studies programme has identified **Packages of Interventions** that serve areas of the South East in need of Levelling Up. The interventions included in these Packages are summarised below and presented on the following pages.

#### Package S: Kent, Medway and East Sussex Classic Rail

- S1 St Pancras International Domestic High Speed Platform Capacity
- S2 London Victoria Capacity Enhancements - Signalling and Digital Rail
- S3 Bakerloo Line Extension
- S4 south eastern Main Line -Chislehurst to Tonbridge Capacity Enhancements
- S5 London Victoria to Shortlands Capacity Enhancements
- S6 Hoo Peninsula Passenger Rail Services
- S7 North Kent Line / Hundred of Hoo Railway - Rail Chord
- S8 Thameslink Extension to Maidstone and Ashford
- S9 North Kent Line Service Enhancements
- S10 North Kent Line / Chatham Main Line - Line Speed Enhancements

- SII OOtterpool Park / Westenhanger Station Platform Extensions and Station Upgrade
- S12 Integrated Maidstone Stations
- S13 Dartford Station Remodelling / Relocation
- S14 Canterbury Rail Chord
- S15 New Station Canterbury Interchange
- S16 New Strood Rail Interchange
- S17 Rail Freight Gauge Clearance Enhancements
- S18 Crossrail Extension from Abbey Wood to Dartford / Ebbsfleet
- S19 High Speed 1 / Waterloo Connection Chord - Ebbsfleet Southern Rail Access
- S20 Ebbsfleet International (Northfleet Connection)
- S21 Ebbsfleet International (Swanscombe Connection)
- S22 Gatwick Kent Service Enhancements

#### Packages T & U: Kent, Medway and East Sussex High Speed Rail

- TI High Speed East Dollands Moor Connection
- T2 High Speed 1 / Marsh Link -Hastings, Bexhill and Eastbourne Upgrade
- U1 High Speed 1 Link to Medway (Chatham)
- U2 High Speed 1 Additional Services to West Coast Main Line



The Area Studies programme has identified **Packages of Interventions** that serve areas of the South East in need of Levelling Up. The interventions included in these Packages are summarised below and presented on the following pages.

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W3 Kent Urban Active Travel	
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Faversham - Canterbury -	
Ashford - Hastings National Cycle Network Enhancements	
W6 Tonbridge - Maidstone National Cycle Network Enhancements	
W7 Sevenoaks - Maidstone - Sittingbourne National Cycle	
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The Area Studies programme has identified **Packages of Interventions** that serve areas of the South East in need of Levelling Up. The interventions included in these Packages are summarised below and presented on the following pages.

XI	M2 Junction 5 (RIS2)	X16	M25 Junction 1a Enhancements		
<b>X2</b>	A2 Brenley Corner Enhancements (RIS3 Pipeline)		M25 Junction 5 Enhancements		
_			Heme Relief Road		
X3	A2 Dover Access (RIS3 Pipeline)	X19	Canterbury East Relief Road		
X4	A21 Safety Enhancements (RIS3 Pipeline, brought forward to RP2)	X20	New Maidstone south east Relief Road		
X5	A229 Bluebell Hill Junction Upgrades (LLM)	X21	X21 A228 Hoo Peninsula Enhancements		
X6	A28 Birchington, Acol and Westgate-on-Sea Relief Road (MRN)	X22	A228 Medway Valley Enhancements		
X7	A228 Colts Hill Strategic Link (MRN Pipeline)	X23	Strood Riverside Highways		
xв	Digital Operations Stack and Brock	-	Enhancement and Bus Lane		
хэ	A20 Enhancements for Operations		A259 Level Crossing Removals – East of Rye		
x10	Stack & Brock Kent Lorry Parks (Long Term Solution)		A21 Kippings Cross to Lamberhurs Dualling and Flimwell and Hurst		
~10			Green Bypasses		
x11	Dover Freight Diversification	X26	Hastings and Bexhill Distributor		
X12	A2 Canterbury Junctions	71	Roads		
	Enhancements M2 Junction 4 - Junction 7 Smart Motorway (SMP)		Lower Thames Crossing (costings for Kent-side only)		
X13			Tor Nerreside of nyj		
X14	M20 Junction 6 Sandling Interchange Enhancements				
X15	M20 Junction 3 - Junction 5 Smart				



Motorway

#### **Overview**

Network Rail, Solent Transport, and the Solent Authorities have developed a comprehensive package of interventions that will deliver improvements to urban and inter-urban rail journeys.

These form part of the Solent Connectivity Strategic Study (formerly the Solent Continuous Modular Strategic Plan), the main objective of which is to deliver additional local rail services so that most of the stations in the area currently served by infrequent one train per hour (1tph) services get a much more frequent "semi metro" 2 to 3tph (or perhaps "metro" 4tph) service frequency.

The plan includes interventions such as the provision of an additional through line / overtaking line at Fareham, increasing capacity on the Botley line to twin tracks, adding platform capacity at Portsmouth Harbour, signalling improvements on the Netley Line, and timetable changes to maximise capacity at Southampton Central. A key enabler to the plan is the provision of sidings at Totton and a solution to a level crossing constraint in this area. This would then allow many local trains from Southampton to be run on to Totton for two reasons: 1) to reduce platform demand/improve capacity at Southampton Central by having fewer trains terminate there, and 2) to improve service to Totton which is currently under-served.

The Solent Connectivity Strategic Study will also complement passenger rail services to be introduced to the Fawley Branch Line and serve a large planned development in this area. While alternative uses for this railway have been explored, there appears to be consensus that this corridor should develop as (an ideally electrified) heavy rail service. Ferries could also complement this service.

These improvements will contribute to the Levelling Up objectives by making rail a more attractive option than motoring and helping to connect previously underserved communities to employment opportunities.

### Benefits

- **Capacity** enhancements across the whole Solent conurbation.
- Improvements in **service frequencies**, especially for urban metro services.
- Better **interchange** and **service quality** at Southampton Central station.
- More new and growing communities will have **access** to the national rail network.

#### **Modelling Results**



GVA uplift per annum (by 2050, 2020 prices)

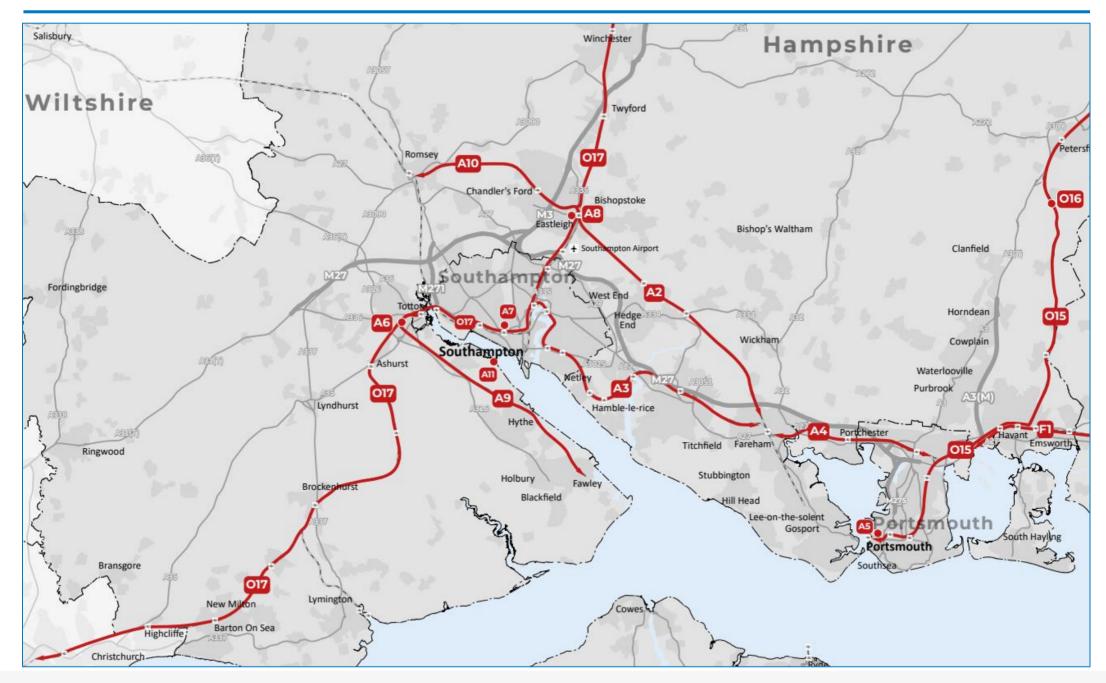
More return rail trips per weekday



Fewer return car trips per weekday



# Package A: South Hampshire Rail (Core)





## **Benefits**

The inter-urban connections created by the<br/>South Hampshire Rail (Core) package of<br/>interventions will deliver benefits to the area.The forecast uplift in GVA will benefit<br/>deprived urban across South Hampshire. This<br/>interventions will deliver benefits to the area.

### GVA

The package is forecast to have a positive impact on GVA across the area. Impacts are greatest in Eastleigh, Fareham, Portsmouth, Southampton, and Test Valley - between £20m and £50m additional GVA per authority area.

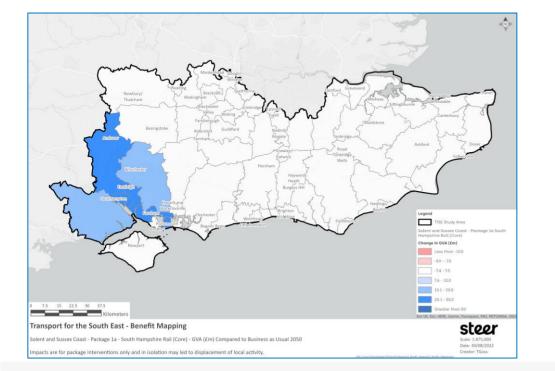
#### Deprivation

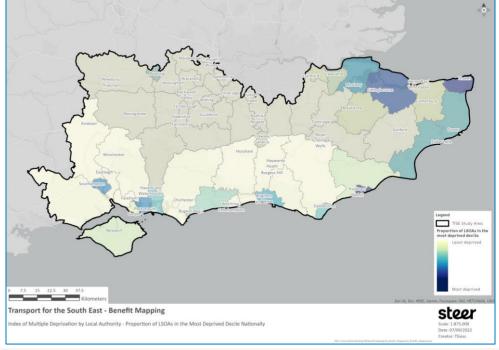
The forecast uplift in GVA will benefit deprived urban across South Hampshire. This will be achieved by incentivising investment in (higher value) employment and by connecting areas with higher levels deprivation to centres of high employment.

Forecasts predict an additional 1,550 full time equivalent jobs by 2050 as a result of this package of interventions compared to the 'business as usual' scenario by 2050.

With new rail connections and employment opportunities created in the most deprived areas of the South Hampshire area, this package will directly support the objectives of the Levelling Up agenda by targeting the most deprived communities in the area.

This package demonstrates the benefits of providing local and inter-urban connections between lower-income communities and areas of high employment.







#### Overview

Building on the core package, TfSE's strategic studies have a horizon as far as 2050 and an ambition to deliver transformational change in sustainable travel options across South Hampshire. Solent Transport and Local Transport Authorities have previously stated an ambition to deliver a level of service on urban metro routes comparable to suburban London, akin to four trains per hour – a "metro" level of service.

There are also aspirations to grow freight and provide better connectivity between South Hampshire, the West of England, the Midlands, and beyond. This requires more capacity than the current network can provide. The key bottleneck preventing this from being realised is the tunnel between Southampton Central and St Denys.

TfSE has worked with key stakeholders to develop a longer-term package of schemes that unlock significant capacity and shorter journey times between Southampton and Portsmouth City Centres. This could include a potential new underground link between Southampton Central and the Netley Line providing a more direct route and deconflicting north-south and east-west rail movements.

Investment in these rail enhancements will deliver significant benefits in relation to the Levelling Up missions. Increased train frequencies and reduced journey times will encourage more people to travel by rail, and more freight traffic will help attract inward investment.

#### Benefits

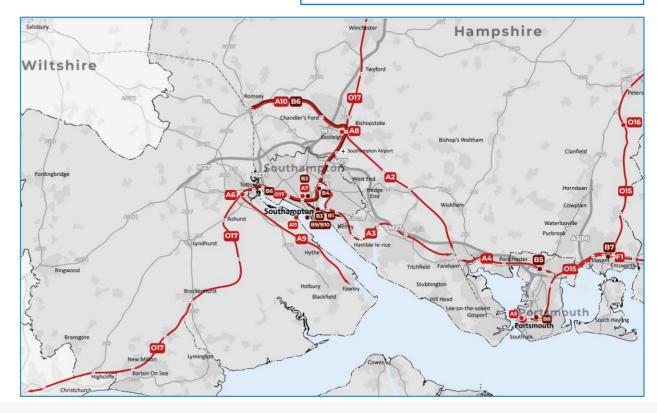
- **Transformational capacity and connectivity benefits** – especially on east-west rail journeys (30 – 35 minute Southampton – Portsmouth journeys).
- Supports **regeneration** of Southampton City Centre and other **growth** areas.
- Significant boost to GVA in a relatively deprived part of the South East.
  - Large reduction in carbon emissions.

#### Modelling Results (additional to core)





Fewer return car trips per weekday





The South Hampshire Rail (Enhanced) package of interventions will deliver significant further benefits to for the area.

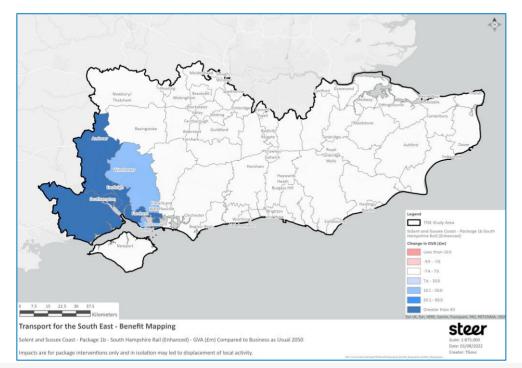
# GVA

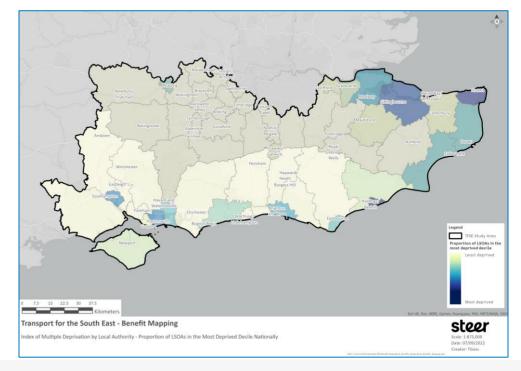
The enhanced package of rail interventions will deliver improvements in GVA. Compared to a business-as-usual 2050 baseline, GVA is forecast to increase by more than £50m in Eastleigh, Fareham, Havant, New Forest, Portsmouth, Southampton and Test Valley. In Gosport and Winchester, the increase is projected to be between £10m and £20m.

The transformational uplift in GVA is a consequence of an increase in the number of 2000 net additional full-time equivalent jobs delivered by this package by 2050.

# Deprivation

Increases in GVA will benefit some of the most deprived areas in South Hampshire including Havant, Portsmouth and Southampton. With resulting increases in GVA and employment opportunities, the enhanced rail connectivity between the main urban centres in South Hampshire will deliver direct benefits to areas with the highest levels of deprivation.







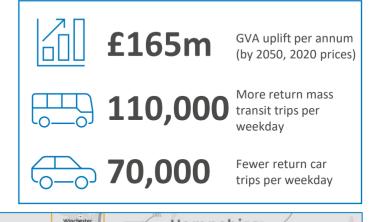
TfSE and the Area Study Working Group believe the South Hampshire conurbation is large enough and dense enough to support world class mass transit systems.

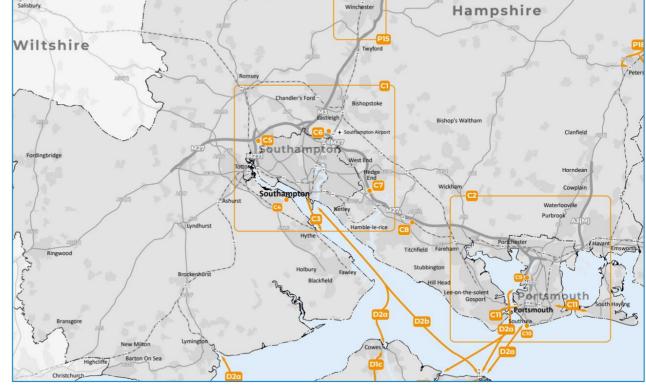
Portsmouth City Council are developing and delivering a comprehensive high quality Bus Rapid Transit that will serve the Portsmouth City Region. Southampton City Council also aspire to develop a Mass Transit System for their city region – which could take the form of Light Rail Transit, tram-train, Bus Rapid Transit. and/or ferries (and terminal facilities). Both mass transit systems will be supported by a highguality urban rail service (see packages for core and enhanced rail in South Hampshire) and, where good interchange opportunities are available, strategic mobility hubs. These hubs should provide interchange across a range of modes including active travel and new mobility choices, as well as having the potential for the co-location of services and potentially new development and enhanced public realm to improve place-making. This package includes interventions to improve access for peninsulas/islands, in particular, through improving and expanding ferry services. A world class, London comparator, mass transit system across the South Hampshire conurbation will help achieve the ambitions of the Government's Levelling Up strategy by connecting more people to more opportunities, and enhancing the sense of pride people have in the places they live.

#### Benefits

- **Transformation improvement** in the quality, speed, and frequency of mass transit services in the Solent.
- Better **interchange** and **service quality** at Strategic Mobility Hubs.
- Improvements in **connectivity** between **islands and peninsulas** in the Solent.
- **Significant mode shift** from car to bus, ferry, and tram, and enhance place-making.

#### **Modelling Results**







The South Hampshire Mass Transit package of interventions will deliver benefits across South Hampshire.

# GVA

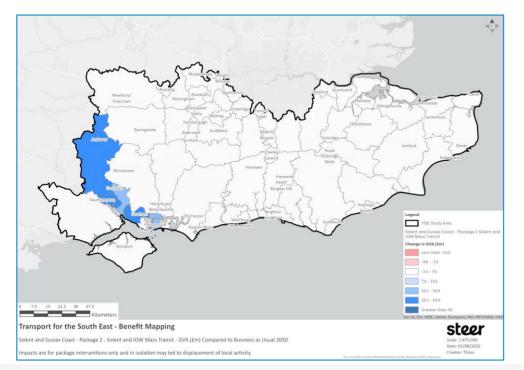
Increases in GVA will occur across South Hampshire, including in the three local authority districts with the highest levels of deprivation – Havant, Portsmouth and Southampton. GVA increases will also occur in Eastleigh, Fareham and Test Valley.

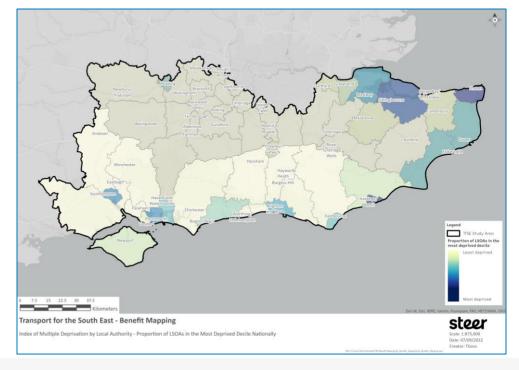
The improvements created by better mass transit infrastructure and services will also stimulate employment opportunities across the area. Modelling forecasts predict an additional 1,000 full-time equivalent jobs will be created by 2050 as a result of this package.

## Deprivation

The increases in GVA and employment will directly benefit the most deprived areas of South Hampshire.

Whilst benefits will also be delivered elsewhere in the region, the creation of a world class mass transit system will allow these major conurbations to benefit from higher levels of employment resulting from agglomeration impacts and wider investment, as well as from regeneration stimulated by the package. This will support the ability of Portsmouth and Southampton, in particular, to compete with other urban centres across the UK.







TfSE believe the Isle of Wight has the characteristics to support a high-quality, integrated mass transit system.

TfSE and key stakeholders have identified a package of • interventions aimed at improving connectivity between the Isle of Wight and the Mainland and improving connectivity within the Isle of Wight itself.

Stakeholders from the Isle of Wight and wider Solent region all raised opportunities to transform ferry services, through increasing frequency of services, extending hours of operation, more affordable ferry fares, and the possibility of new seasonal routes.

The Isle of Wight has the potential to be an exemplar for public transport given its size and unique characteristics.

With investment in ferries and public transport on the Island, there is opportunity to make the most of existing infrastructure by reinstating disused railways and complementing rail with a bus-based Mass Transit system connecting key destinations across the Island including ferry terminals and tourism hotspots and delivery of the LCWIP and island-wide segregated active travel routes.

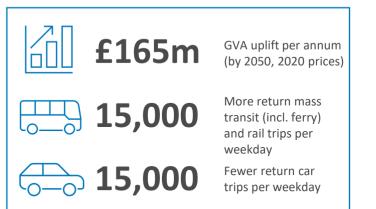
The physical remoteness of the island contributes to levels of deprivation. Investment in transport connectivity is critical to ensuring it continues to benefit from its proximity to the South Hampshire conurbation and achieves the Levelling Up objectives.

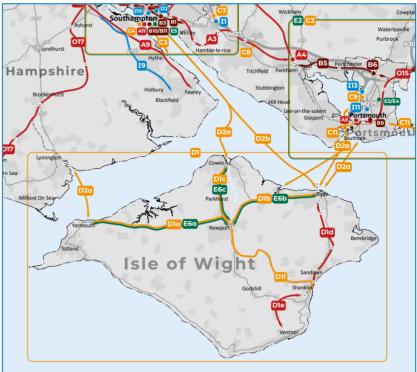
#### Benefits

- Transformational improvement in the quality, speed, and frequency of ferry services between the Isle of Wight and Mainland.
- **Seamless integration** between ferry and public transport on the mainland and the Isle of Wight supporting sustainable onward connectivity.

With the Isle of Wight forming one local authority, the benefits mapping for the Island has been included in analysis for the South Hampshire packages of interventions, to provide wider context and highlight the variations between local authorities across the area.

#### **Modelling Results**







All three Local Transport Authorities in the Solent have ambitious plans to improve cycling and walking in their areas. This ambition is supported by this study.

Investment in active travel is critical to achieving the ambitions of the Levelling Up White Paper. Increased rates of walking and cycling have direct benefits to public health and wellbeing, including reduced levels of obesity and improved mental health.

Reduced car dependency and a modal shift to active travel helps address issues of poor air quality. Cleaner air, quieter urban environments due to less noise from vehicle traffic, and more space for high quality public realm are all important factors in creating better places to live and improving civic pride. High quality urban centers which prioritise people are key foundations to thriving and prosperous places.

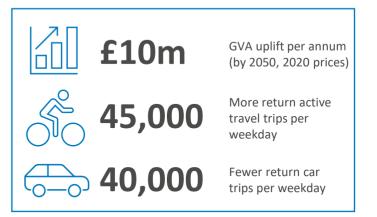
Enhanced infrastructure also benefits bike hire schemes, e-bikes and e-scooters.

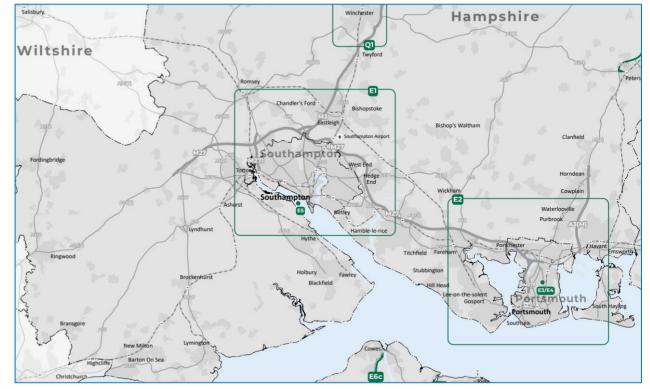
As with all sustainable mode packages, behaviour change interventions, locally, are required to optimise benefits.

# Benefits

- Material improvements to the urban realm of the Solent Built Up Area, unlocking active travel, placemaking and regeneration/development opportunities.
- Improvements in **air quality** in urban areas.
- Significant **mode shift** from car to active travel, with associated health benefits.

# **Modelling Results**







Network Rail has worked with Local Transport Authorities to develop a package of improvements for the West Coastway and East Coastway lines.

The West Coastway Strategic Study (formerly Continuous Modular Strategic Planning), if delivered, would result in faster journeys and more capacity between Brighton and Hove and Southampton. However, there is not enough capacity to accommodate all stakeholder aspirations on this corridor.

The package identified here supports those interventions that best support inter-urban and longdistance journeys – those for which car alternatives have greatest emissions and other sustainable modes are less likely to provide attractive alternatives.

In the east of the area, a proposal to extend high speed rail services off High Speed 1 at Ashford along an upgraded Marsh Link Line to Hastings, Bexhill and Eastbourne has been identified. This has the potential to almost half journey times between Hastings as London, as well as considerable improvements to more local, and inter-urban travel.

All interventions in this package help improve access to opportunities, expand labour markets, and bring business closer together, as well as increase investment in the communities along the coast

#### Benefits

- **Faster journeys** between Brighton, Chichester, Portsmouth, and Southampton.
- Potentially more frequent longer distance services between Brighton, Chichester, Portsmouth, and Southampton.
- Additional capacity between Worthing and Brighton for shorter journeys.

Modelling Results (excl. High Speed services to Hastings, Bexhill and Eastbourne)



GVA uplift per annum (by 2050, 2020 prices)



More return rail trips per weekday





The Sussex Coast Rail package of interventions will deliver benefits along the south coast.

# GVA

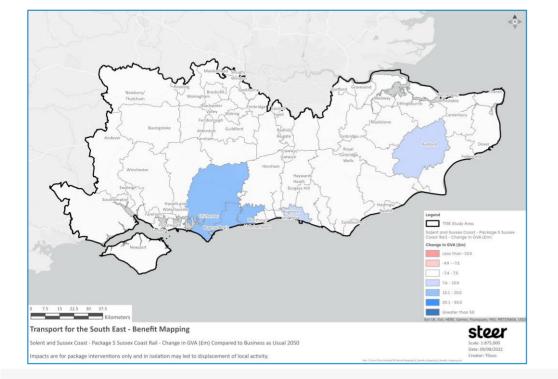
Compared to the business-as-usual scenario bv 2050. GVA is projected to increase to between £10m and £20m in Arun. with a smaller increase occurring in Brighton and Hove.

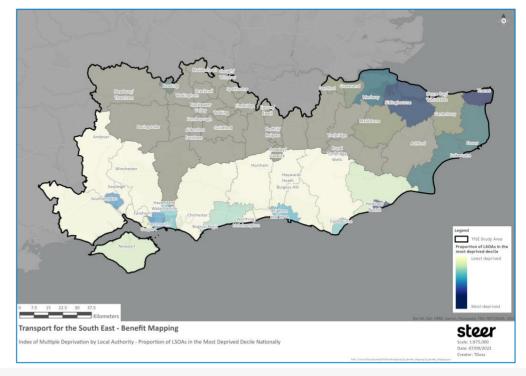
Changes in GVA elsewhere across the area are Improved rail connections enhancing both positive but less significant. This package will also deliver an additional 350 full-time equivalent jobs by 2050, compared to the business-as-usual scenario

## Deprivation

There are pockets of deep deprivation in urban areas along the Sussex Coast, including in Hastings, Bexhill, Eastbourne, the Newhaven area, Brighton and Bognor Regis.

local accessibility and inter-urban and longer distance connectivity will help distribute the GVA and employment benefits across the area







TfSE believes there is a strong case for high-quality mass transit • on the Sussex Coast.

Brighton and Hove City Council is developing plans for a highquality public transport system along the Brighton seafront, and how to best integrate all public transport across the city, including using strategic mobility hubs to intercept car trips heading into the city. Details are to be finalised, but the typology of the city lends itself strongly to Bus Rapid Transit. There are longer term options to extend or compliment this system in East and West Sussex. At this stage, extending in East Sussex appears to be more technically feasible than West Sussex where the focus is in on supporting the existing bus network. Additionally, there are proposals for improved mass transit infrastructure and services Eastbourne and Hastings.

Developing a mass transit system along the Sussex Coast will help communities more affordably access opportunities in more prosperous places such as Brighton and Hove and Chichester.

#### **Benefits**

- Significant improvement in the quality, speed, and frequency of mass transit services in Sussex Coast conurbation.
- Better **interchange** and **service quality** at intermodal Strategic Mobility Hubs on the periphery of Brighton & Hove and, potentially, Eastbourne.
- **Significant mode shift** from car to mass transit services.

#### **Modelling Results**



GVA uplift per annum (by 2050, 2020 prices)



35,000

More return mass transit trips per

weekday

Fewer return car trips per weekday





The improvements delivered through the Sussex Coast Mass Transit package of interventions will bring a range of benefits to this coastal region.

# GVA

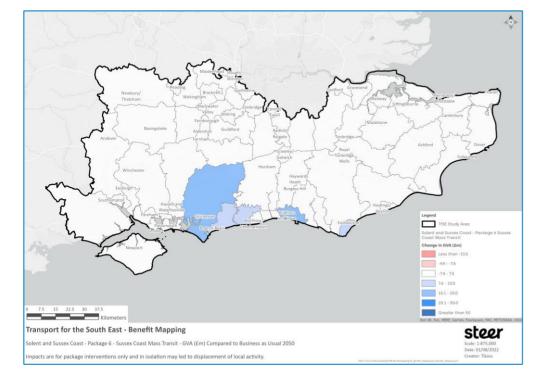
The greatest change in GVA, compared to a Business-as-Usual 2050 baseline, is in Brighton and Hove, where the benefit will be greater than £50m. Increases are also forecast for Arun and Eastbourne, with smaller increases elsewhere in the Sussex Coast area.

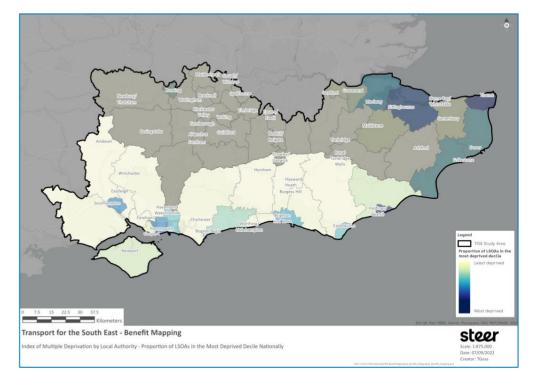
Employment opportunities will also benefit from investment in mass transit, with an additional 550 full-time equivalent jobs forecast to be created by 2050.

## Deprivation

Deprivation in the area is generally focused in the main urban centres, such as Brighton & Hove, Eastbourne and Hastings.

These areas with higher levels of deprivation will benefit from the increases in GVA and jobs created by the package.







All three Local Transport Authorities on the Sussex Coast have ambitious plans to improve cycling and walking in their areas. This is fully supported by this study.

Within Brighton & Hove, there is a sizeable intervention to renew seafront structures to support active travel.

Several smaller scale highways interventions are also proposed to support housing growth along the Sussex Coast. Most of these interventions include public transport and active travel elements, such as those being proposed for the A29 between Bognor Regis and Littlehampton, and the A259 between Chichester and Bognor Regis. Transforming places through investment in active travel, especially places which experience multiple levels of deprivation, can break the vicious cycle of decline and help reinvigorate communities.

Increased active travel can help improve socioeconomic outcomes related to quality of life and productivity, and reframe the narrative of communities into positive, progressive and healthy places.

#### Benefits

- Material improvements to the urban realm of the Sussex Coast Built Up Area, unlocking active travel and regeneration opportunities.
- Improvements in **air quality** in urban areas.
- Significant **mode shift** from car to active travel, with associated health benefits.

#### **Modelling Results**







#### This package contains interventions that help deliver TfSE's vision for a high-quality highway between the areas' two largest conurbations.

This does not necessarily mean delivering a grade separated dual carriageway – more modest interventions may be appropriate, but a priority is a long-term solution for Worthing. Addressing pinchpoints along the A27, but not at Worthing, is likely to increase congestion in the town. Any highway intervention proposed in this package should be designed to de-conflict local and longer-distance traffic, and address safety and air quality issues. They should support (and be supported by) public transport and active travel improvements. Several interventions unlock opportunities to reallocate road-space to active travel and public transport. This is reflected in modelling analysis that indicates these highways interventions could stimulate almost as many more bus trips on the A27 corridor as private car trips if supported by service enhancements.

The parallel A259 corridor provides a complimentary function alongside the A27 in providing access to coastal communities (Bognor and Littlehampton) from the SRN but also linking coastal communities (Brighton

- Peacehaven - Newhaven - Seaford – Eastbourne – Bexhill – Hastings).

Southampton Access M27 Junctions and A326 Capacity Enhancements open up residential and commercial development (e.g. Fawley Waterside) and improve access to the Port of Southampton and the wider Solent Freeport and its growth.

#### **Modelling Results**



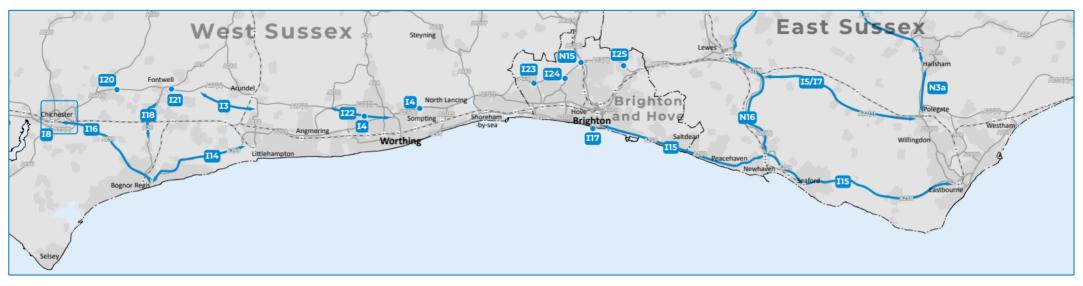
GVA uplift per annum (by 2050, 2018 prices)



More bus and car return journeys per weekday

#### Benefits

- Safer highways, notably in urban areas
- Faster, more reliable highway journeys between Brighton and South Hampshire
- Improved air quality in urban areas
- Scope to reallocate road-space to active travel and public transport
- Reduced impact of road traffic on the South Downs National Park





The Solent and Sussex Coast Highways package of interventions will deliver benefits across the area.

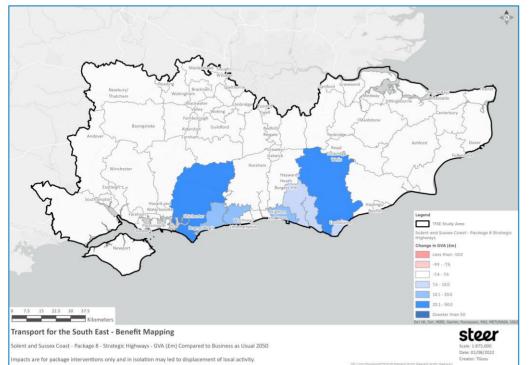
# GVA

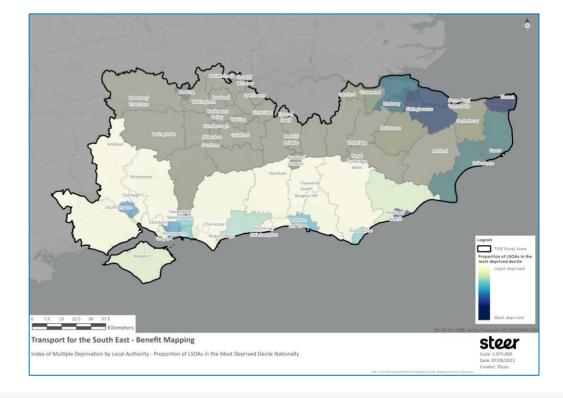
The impact of improving highway connections along the Sussex coast will deliver significant increases in GVA, with uplifts projected to occur in Arun, Brighton & Hove and Eastbourne (among other authority areas).

This package will also result in improved employment prospects in the area, with an additional 700 full-time equivalent jobs created by 2050 as a result of these interventions.

# Deprivation

The increases in GVA and employment opportunities will benefit some of the more deprived areas of the Sussex Coast. This demonstrates the benefits delivered by the highway interventions, which will enable the local population to have faster and more reliable journeys across the area, and to therefore access a wider range of employment opportunities, as well as better connecting businesses.







This package adds capacity to the classic rail network in the South East Area. It targets the areas of Kent that lie closest to London.

Areas further away from London will be served by high speed rail interventions described in the following slide.

The package includes several interventions that add capacity through additional services (e.g. Crossrail to Ebbsfleet, Thameslink to Maidstone) as well as interventions that materially increase track and platform capacity (e.g. through capacity released by the Bakerloo Line extension).

It also includes interventions that improve the integration of the rail system – notably at Ebbsfleet, Canterbury, Maidstone, and Strood – where several railway lines cross each other without providing easy interchange from one railway to another.

It also includes the introduction of passenger rail services on the Grain Branch and direct services between Gatwick Airport and Mid/East Kent.

These interventions will deliver improved connectivity across this area of the South East, which contains some of the most deprived communities in the region. Targeting investment in these areas will help achieve the Levelling Up objectives.

#### **Benefits**

- **Capacity** enhancements at key bottlenecks on radial corridors
- Improvements in service frequencies, especially for urban metro services
- Better **interchange** between rail services and other modes
- Better rail access for new/growing areas.
- Large reduction in carbon emissions.

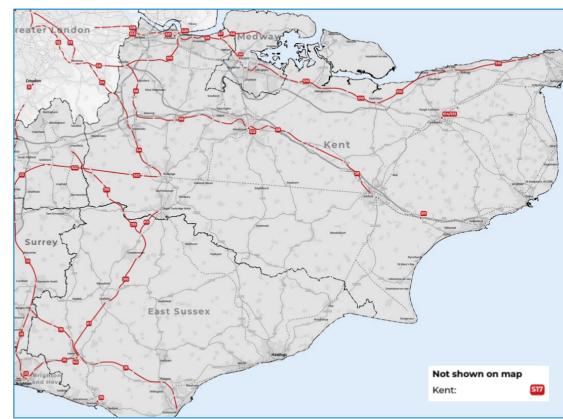
#### **Modelling Results**



GVA uplift per annum (by 2050, 2020 prices)



More return rail trips per weekday





The Kent, Medway and East Sussex (KMES) Classic Rail package of interventions will deliver a range of benefits across the KMES region, particularly for the deprived communities of Medway and East Kent.

#### GVA

The greatest increases in GVA, compared to business as usual in 2050, will occur in Dartford, with increases also forecast for Medway and Swale. Rother and Hastings will also experience an increase in GVA, with negligible changes expected in other areas of the region.

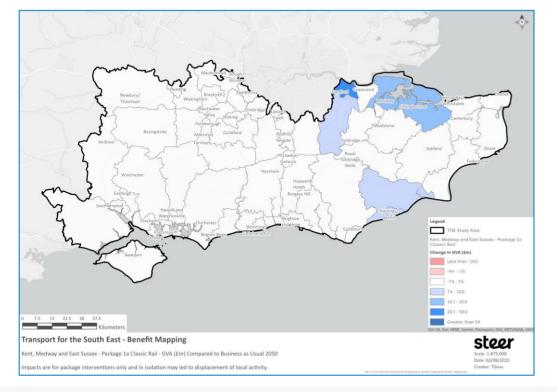
The Classic Rail interventions will also deliver an uplift in employment opportunities, with an additional 1,500 full-time equivalent jobs by 2050.

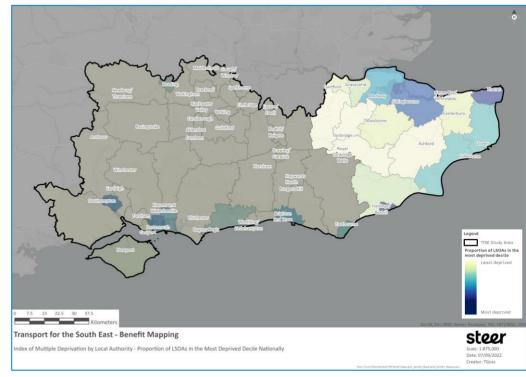
#### Deprivation

The highest levels of deprivation in this part

of the South East are in Swale and Thanet, followed by Dover, Shepway and Medway. With the benefits delivered by the classic rail package of interventions largely targeting these deprived areas, this package will directly support the Levelling Up agenda.

This demonstrates the value of creating improved connections to the most deprived communities and enhancing access to employment in areas most in need.







These packages includes some of the more radical interventions in the long list for this study. They are based around expanding the domestic high speed service to deliver transformational improvements in journey times to Kent, Medway, and East Sussex.

The East Package would deliver direct High Speed services from London to Eastbourne via Ashford and Hastings, reducing journey times from Hastings/Bexhill to London by 20 minutes. It would also deliver faster journey times to Dover using a connection to HS1 at Dollands Moor, and an increase in the frequency of HS1 services to Ashford The North Package aims to deliver significant improvements in connectivity to North Kent to ensure coastal communities in Medway, Swale, Canterbury, and Thanet are as well served as other parts of Kent. Several high-level options have been considered, ranging from a new link between HS1 and Medway to improvements to the North Kent Line and Rochester Bridge. The modelling represented for this package reflects one of the more

interventionalist options. There are also opportunities to replace domestic service rolling stock on HS1 and expand the fleet to capitalise on network enhancements.

These two packages have the potential to reach some of the most deprived communities in the South East, for example coastal areas around Hastings and the Medway estuary. Slashing journey times between these places and London would achieve a significant uplift in GVA.

#### Benefits

- **Transformational improvements in journey times** between London (and the rest of the UK) and the South East coast.
- Potentially **transformational improvements in capacity** between London and coastal Kent/Medway/East Sussex, delivering significant economic **boost to left behind coastal areas.**
- Large reduction in carbon emissions.

#### **Modelling Results**



GVA uplift per annum (by 2050, 2020 prices)



More return rail trips per weekday





High speed rail has a key role to play in delivering benefits across the KMES area.

# GVA

Increases in GVA resulting from improvements to high speed rail are concentrated to the north and east of the area, with the greatest benefits being in Medway and Swale. Increases in GVA are also forecast for Ashford, Canterbury and Thanet.

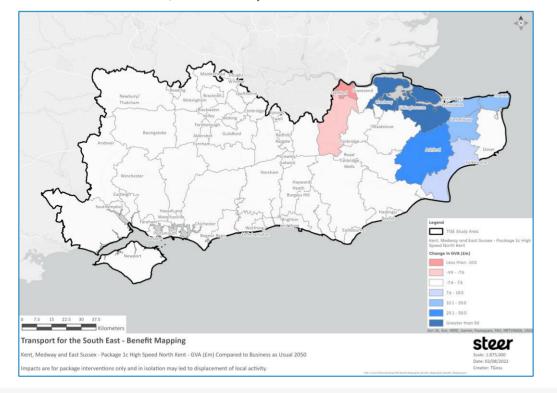
Further benefits in employment opportunities being amongst the most deprived local will be delivered by these packages. 'Eastern' interventions are projected to generate an additional 1.400 full-time equivalent jobs by 2050. whilst the 'northern' interventions will create an additional 2,450 jobs.

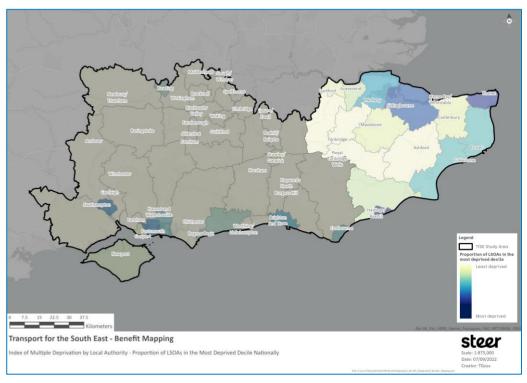
#### Deprivation

There is a strong correlation between the areas with greatest GVA increase and higher levels of deprivation, with Medway and Swale

authorities in the region. The GVA uplift will benefit deprived communities right along the Kent coast, including in Dover, Shepway and Thanet

This correlation highlights the benefits of fast and reliable rail connections to the communities most distant from London in the region, and how this connectivity is fundamental to reversing the fortunes of these left behind coastal areas.







# This package delivers improvements to bus services in Kent, Medway, and East Sussex.

The scope for improvements and expansion are particularly strong in the North Kent and Medway areas, where high levels of growth and regeneration are expected. A step change in infrastructure and service provision should be viable thanks to the underlying demographics in this area.

This package includes an opportunity to create a new Medway River Crossing to enable faster journeys between the north and south of this conurbation by bus/mass transit and active modes (e.g. walk, wheel, cycle and microtransit such as bike hire and e-scooters).

This intervention assumes all other conventional bus services in the Kent, Medway & East Sussex area experience general improvements in journey times, frequencies, and service quality.

Improvements to bus services can deliver immediate benefits to communities previously underserved by public transport. Connecting areas of high deprivation to a range of opportunities will help improve educational attainment, skills and the living standards of individuals living in such places.

#### Benefits

- Significant improvements in the quality, speed, and frequency of bus services in Kent, Medway, and East Sussex
- Better **interchange** between bus and rail
- Improvements in **connectivity** between **islands and peninsulas** in North Kent
- **Modal shift** from car to bus (and in some instances, ferries)

# **Modelling Results**







The KMES Mass Transit package of interventions will deliver smaller scale, targeted benefits across several authorities.

# GVA

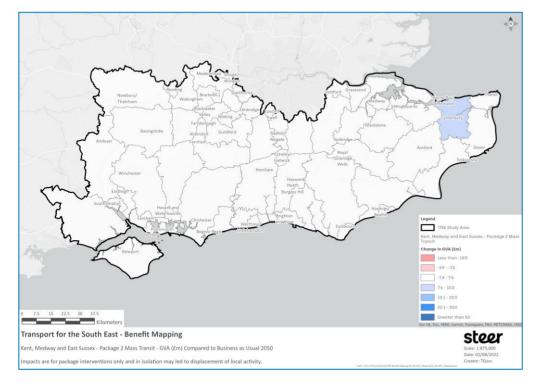
A modest GVA increase is forecast for Canterbury, with positive, but smaller scale, changes in GVA expected in local authorities across the east and north Kent and Medway area. This is accompanied by an increase in employment opportunities, with 400 additional full-time equivalent jobs expected to be created by 2050.

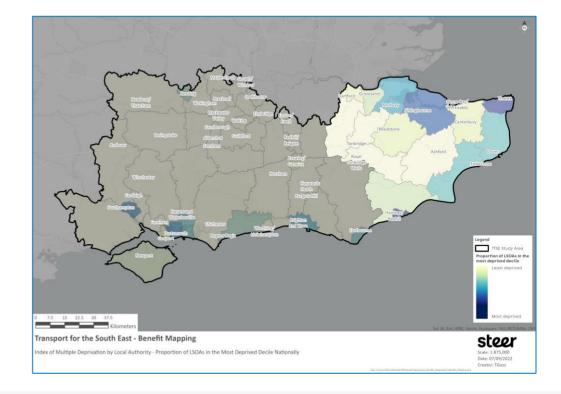
#### Deprivation

The most deprived communities in the area are those along the north and east Kent coast, including Medway, Swale and Thanet, aligning to the location of benefits forecast.

The correlation between the GVA uplift delivered by this package and levels of regional deprivation suggests this package should be used in combination with others to ensure benefits are maximized.

As part of a wide-ranging series of interventions, improved mass transit and bus services will be an important tool in connecting smaller communities which have less direct access to the rail network.







This package delivers general uplift in the quality of walking and cycling infrastructure, particularly in urban areas.

Kent County Council has identified inter-urban corridors on the cycling network and identified several gaps in national and regional cycle networks that many stakeholders wish to see addressed. Urban areas are identified with most need and potential for investment.

Similarly, East Sussex County Council has developed a Local Walking and Cycling Infrastructure Plan which provides details of network of routes for its main towns including Bexhill, Hastings, Battle and Rye.

The development of walking and cycling infrastructure is a key mechanism to delivering the objectives of the Levelling Up White Paper.

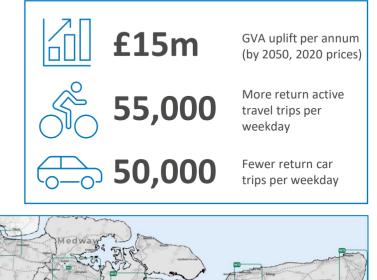
Targeting walking and cycling infrastructure in high density urban areas, especially the more deprived areas of the north Kent coast, will help transform these communities into better places to live. For example, road space which is reallocated from private vehicles to active travel creates healthier streets and fosters more cohesive communities.

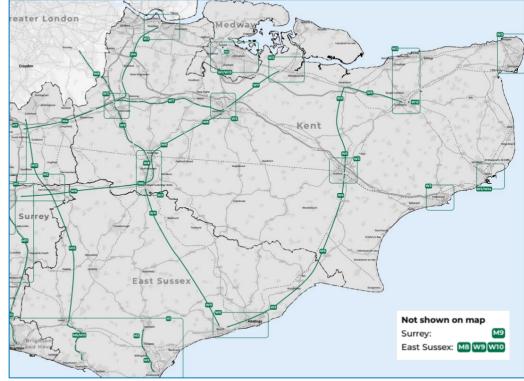
Street designs which prioritise active travel help improve public health, wellbeing, and pride in place. More active streets also result in reduced neighborhood crime.

#### Benefits

- Material improvements to the urban realm of urban areas, unlocking active travel and regeneration opportunities
- Improvements in air quality in urban areas
- Significant **mode shift** from car to active travel, with associated health benefits

#### **Modelling Results**







The Kent, Medway and East Sussex highways package delivers the Kent Bifurcation strategy – which strengthens the resilience of Channel Port access corridors – and improved connectivity for coastal areas.

This package includes several interventions that aim to improve the resilience of the M2/A2 and M20/A20 corridors, improve the connectivity of Coastal East Sussex (via the A21 corridor), and relieve congestion in city and town centres.

Many of these interventions will enable housing growth and/or improve public transport and active travel facilities in urban areas. In this sense, highways should be viewed as multi-modal interventions.

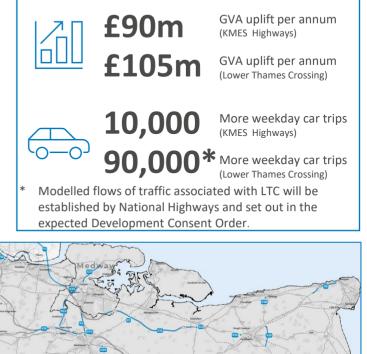
Any highway intervention on this corridor should be designed to de-conflict local and longer-distance traffic, safety and air quality. They should support (and be supported by) public transport improvements.

When modelled in isolation, these interventions are projected to increase carbon emissions. This effect will diminish if this package is combined with Global Policy and other mode interventions.

#### Benefits

- More resilient corridors serving the key Channel Ports
- Safer highways, notably in urban areas
- Faster, more reliable highway journeys between London and communities in Kent, Medway and East Sussex
- Improved air quality in urban areas
- Scope to reallocate road space to active travel and public transport

#### **Modelling Results**







The combined highways packages of KMES Highways and the Lower Thames Crossing will deliver significant benefits to some of the most deprived areas of north Kent.

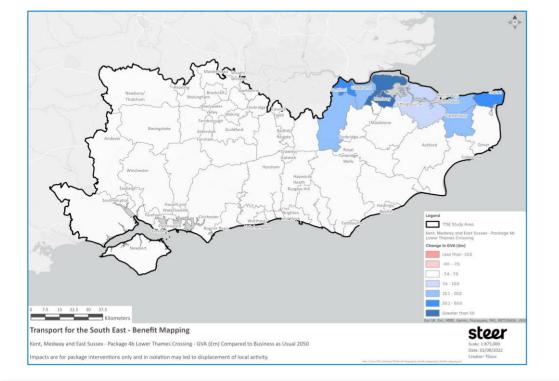
# GVA

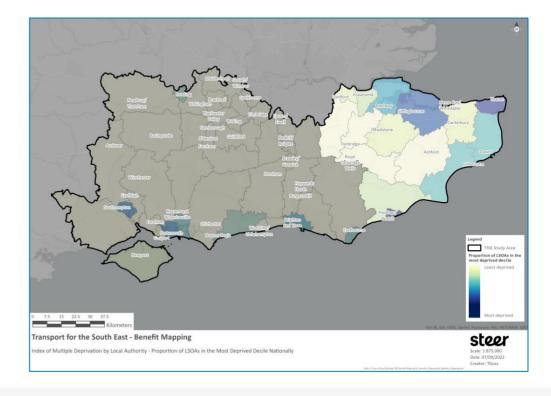
The greatest increase in GVA is forecast to occur in Medway, with the next most significant increases also forecast for Dartford and Thanet. The area will also benefit from increased employment opportunities, with the Highways package expected to deliver an additional 950 full time equivalent jobs by 2050, and the Lower Thames Crossing package forecast to generate 1,400 jobs.

#### Deprivation

These packages will directly benefit the local authorities with the highest levels of deprivation in the KMES area, for example Medway and Thanet. This demonstrates the value of enhancing regional and national connectivity, and in particular, of providing an additional link across the Thames Estuary to supplement the Dartford Crossings.

This will enable access to new opportunities for businesses and the labour market on either side of the river, as well as locally, and allow the benefits to be spread across the region's estuarine communities.







Part 5 of this Plan has presented 13 packages of location specific interventions which could be adopted to achieve the objectives of the Levelling Up White Paper.

The proposed interventions offer a range of multi-modal solutions targeted at the most deprived areas of the South East.

When combined, they present a comprehensive set of packages, which have been devised to have a transformational impact on the targeted communities.

# Global or non-site-specific interventions

Our strategy also supports the following global and non-site-specific interventions:

- Strategic Mobility Hubs;
- Rural bus service improvements;
- Improved Rural Demand Responsive bus/taxi services;
- Integrated ticketing, that's simpler, more affordable and promotes greater use of public transport, in particular mult modal trips;
- Behavioral change campaign;
- Electric cycle, scooter, and micromobility infrastructure, including dockless or docked hire schemes for the public and businesses;
- Integration into economic, spatial and transport policy, as well as major sites and assets;
- Policy response to emerging technologies; and
- South East Future Mobility Forum.

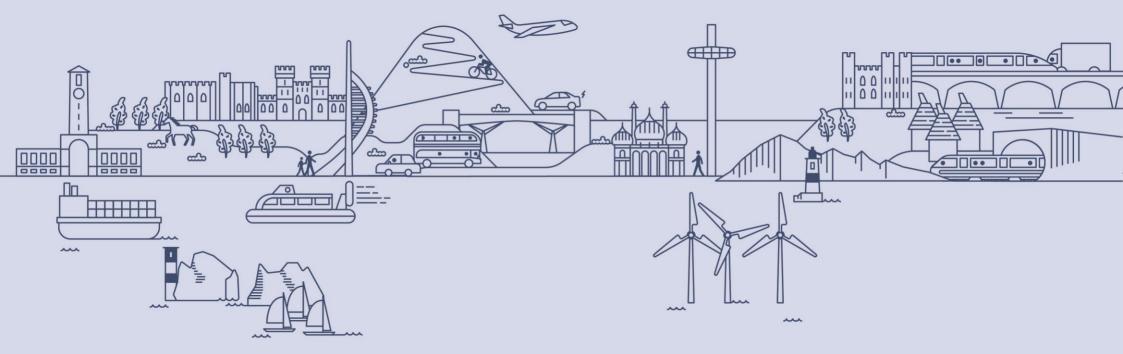
# **Additional Interventions**

In order to deliver the vision and objectives outlined above, our strategy supports the following additional interventions:

- Mass transit expansion to existing systems and further consideration of where Mass Transit is best suited to operate;
- The ongoing support to local authorities in their BSIPs;
- Build on the success of high-quality bus services in Reading, Brighton, Blackwater Valley, Southampton, Portsmouth and Crawley Gatwick, extending the reach of these networks in surrounding areas and particularly those less well served;
- Learn lessons, from home and abroad, and apply the principles high-quality bus networks and priority measures to other parts of the South East; and
- Support the role out and enhancement of (digital) demand responsive transit (trials) in rural areas and make permanent if demand warrants.







# **Part 6: Benefits and Costs**

# Modelling Benefits

In 2018, Transport for the South East commissioned Steer to develop a model to test the impact of the scenarios developed in support of the development of a Transport Strategy for the South East.

This model, known as the South East Economy and Land Use Model (SEELUM), is a transport and land use model that simulates the interaction of transport, people, employers and land-use over periods of time.

#### **SEELUM produces detailed reports on:**

- changes in land-use in each zone (i.e., housing units and business premises);
- changes in households, population and the workforce in each zone;
- changes in employment (jobs filled) in each zone and the unemployment rates;
- changes on CO<sub>2</sub> emissions from transport activity;
- travel patterns, volumes and mode shares; and
- time savings benefits for appraisal and impacts on productivity.

To model each Package in SEELUM, adjustments were made to bus Generalised Journey Times (GJTs) within and between each zone (by mode).

The Packages were modelled in SEELUM from a base year of 2018 and run for 32 years to 2050. The results are presented as a comparison to a Business as Usual Scenario (BaU), which is based on the Department for Transport's National Trip End Model (NTEM) that also projects employment and population growth to 2050.

The results of modelling all the packages of Interventions that support levelling up are presented in **Table 6.1** on the following page.

# **Estimating Costs**

Capital cost estimates have been prepared to a level of detail commensurate with the maturity of the design of the Packages of Interventions and are presented in Table 6.1.

Items and quantities have been priced using historic project data and industry standard published data, with adjustments made to capture the influence that quantity, access, time constraints, site location and conditions will have on labour, plant and materials input costs.

A contingency has been added for minor items that have not been measured. Allowances have been made for main contractor's preliminaries and overhead and profit, temporary works and traffic management where required. Allowances for professional fees, upgrades, and relocation have also been added to the construction cost estimate. To reflect the maturity of the design a risk allowance has been applied.

Operations, Maintenance, Renewal and impacts on tax revenue are excluded from these costs.



# "Levelling Up" Packages Impacts

Table 6.1: "Levelling Up" Packages Impacts									
Package	Pop <sup><u>n</u> (2050)</sup>	New Jobs (2050)	GVA (£m in 2050)	Total CO <sub>2</sub> (Tonnes in 2050)	Car Trips (weekday return in 2050)	Rail Trips (weekday return in 2050)	MT Trips (weekday return in 2050)	Total Trips (weekday return in 2050)	Capital Construction Costs (£m, 2020 prices)
Solent and Sussex Coast									
South Hampshire Rail (Core)	1,050	1,550	285	-	-5,000	15,000	-	5,000	600
South Hampshire Rail (Enhanced)	1,150	2,000	305	-	-5,000	15,000	-	10,000	3,700
South Hampshire Mass Transit	1,300	1,000	165	-30,000	-70,000	-	110,000	5,000	1,800
South Hampshire Active Travel	150	50	10	-10,000	-40,000	-	-5,000	-	350
Isle of Wight Multi-Modal	1,950	1,500	165	-	-15,000	5,000	15,000	5,000	250
Sussex Coast Rail	700	350	80	-	-	5,000	-	5,000	350
Sussex Coast Mass Transit	850	550	120	-10,000	-35,000	5,000	55,000	5,000	450
Sussex Coast Active Travel	<50	<50	5	-5,000	-20,000	-	-5,000	-	250
South Coast Highways	250	700	170	45,000	5,000	-	5,000	5,000	3,400

#### Abbreviations

#### Reporting units

- MT: Bus and Mass Transit
- AT: Active Travel (walking and cycling)
- GVA (Gross Value Added) is GVA per annum in 2050 in 2020 prices
- Carbon emissions are CO<sub>2</sub> tonnes equivalent
- Costs are in 2020 prices
- Changes in trips are weekday return trips



# "Levelling Up" Packages Impacts

Table 6.1: "Levelling Up" Packages Impacts (cntd.)										
Package	Pop <sup>n</sup> (2050)	New Jobs (2050)	GVA (£m in 2050)	Total CO <sub>2</sub> (Tonnes in 2050)	Car Trips (weekday return in 2050)	Rail Trips (weekday return in 2050)	MT Trips (weekday return in 2050)	Total Trips (weekday return in 2050)	Capital Construction Costs (£m, 2020 prices)	
Kent, Medway, and East Sussex (KMES)										
KMES Classic Rail	6,150	1,500	140	-15,000	-	15,000	-	20,000	3,700	
KMES High Speed Rail (East)	5,800	1,400	125	-15,000	-	15,000	-	15,000	1,000	
KMES High Speed Rail (North)	11,700	2,450	225	-15,000	-	35,000	-	35,000	7,300*	
KMES Mass Transit	1,550	400	45	-25,000	-50,000	-	85,000	-	700	
KMES Active Travel	450	250	15	-10,000	-50,000	-	-5,000	-	100	
Lower Thames Crossing	1,200	950	90	65,000	10,000	-	-	5,000	2,800 <sup>+</sup>	
KMES Highways	1,600	1,400	105	45,000	85,000	-	-5,000	75,000	3,800	

\* Assumes High Speed Rail option goes via Chatham rather than Rochester

Assumes assignment of 40% of Lower Thames Crossing capital costs to Kent geographically

#### Abbreviations

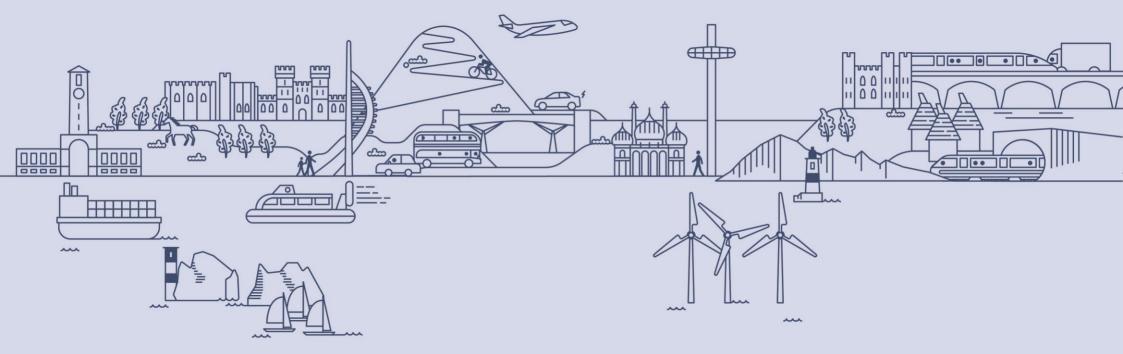
- керс
- MT: Bus and Mass Transit
  AT: Active Travel (walking and cycling)

#### Reporting units

- GVA (Gross Value Added) is GVA per annum in 2050 in 2020 prices
- Carbon emissions are CO<sub>2</sub> tonnes equivalent
- Costs are in 2020 prices
- Changes in trips are weekday return trips







# **Part 7: Delivery**

# Introduction

## Introduction

TfSE will work with partners to deliver the packages of interventions outlined in Part 5.

The delivery of the packages of interventions will need to consider:

- timing and phasing;
- roles and responsibilities;
- funding and financing; and
- monitoring and evaluation.

This part provides an overview of a suggested approach to the topics listed above.

## **Timing and Phasing**

Implementation timescales are presented in **Table 7.1** overleaf.

Some interventions often present "quick wins" for Local Transport Authorities and other delivery parents.

Delivery, will be dependent on each individual intervention and its local context, the complexity of the scheme, the stage of scheme and business case development, as well as funding.

Indicative phasing is contained within the Delivery Plan.

# **Roles and Responsibilities**

As outlined in the Introduction, local transport authorities will typically be responsible for delivering the Area Study Packages and Global Interventions, with support from partners where necessary.

TfSE's role will reflect its current and likely future status as an established Sub National Transport Body for South East England. It is assumed there would be no significant change in the current distribution of powers, funding mechanisms, and democratic accountability in South East England at a local level.

TfSE's role will therefore focus on building consensus and capacity to deliver its transport strategy through others. It will tailor its approach to the mode, scale, and level of development of each prioritised intervention.

A suggested approach for delivering the Packages of Interventions – including Global Policy Interventions – is provided in Table 7.2.



# **Timing and Phasing**

Table 7.1: Timing and Phasing of different intervention type											
Category	Sub-Category	Time	Max Years	Pre-SOBC	SOBC	OBC	FBC	Pre-DCO/PI*	DCO/PI*	Delivery	
Rail	Rail - New Offline Rail Infrastructure	15-20 years	20	20	15	12	10	8	6	5	
Rail	Rail - New Online Rail Infrastructure	5-10 years	10	10	7	6	5	4	3	2	
Rail	Rail - Service Improvement	0-7 years	7	7	5	4	3	N/A	N/A	1	
Rail	Rail - Reinstating Line	10-15 years	15	15	12	10	8	7	5	4	
Rail	Rail - Level Crossing Removal	5-7 years	7	7	6	5	4	3	2	1	
Mass Rapid Transit	MRT - New BRT/MRT	5-10 years	10	10	7	6	5	4	3	2	
Mass Rapid Transit	MRT - New Ferry/Waterway	5-8 years	8	8	6	5	4	N/A	N/A	2	
Mass Rapid Transit	MRT - Service Improvement	0-5 years	5	5	4	3	2	N/A	N/A	1	
Mass Rapid Transit	MRT - New Strategic Mobility Hub	3-5 years	5	5	4	3	2	2	1	1	
Mass Rapid Transit	MRT - Infrastructure Improvement	3-5 years	10	10	8	7	6	N/A	N/A	1	
Active Travel	Active Travel - New Cycleway/Footways	2-5 years	5	5	4	3	2	N/A	N/A	1	
Active Travel	Active Travel - Improved Cycleways/Footways	1-3 years	4	4	3	2	1	N/A	N/A	1	
Active Travel	Active Travel - Service Improvement	0-2 years	4	4	3	2	1	N/A	N/A	1	
Active Travel	Active Travel - Mobility Hubs	2-3 years	3	3	3	3	2	2	1	1	
Active Travel	Active Travel - Online Road Improvements	2-3 years	3	3	3	3	2	N/A	N/A	1	
Active Travel	Active Travel - Offline Road Improvements	3-5 years	5	5	4	3	3	2	1	1	
Highways	Highways - Junction Improvement	3-5 years	5	5	4	3	3	2	1	1	
Highways	Highways - Widening	3-5 years	5	5	4	3	3	2	1	1	
Highways	Highways - New Online Infrastructure Improvement	3-5 years	5	5	4	3	3	2	1	1	
Highways	Highways - Bridge/Tunnel	15-20 years	20	20	15	12	10	8	6	5	
Highways	Highways - Bypass/Relief road	10-15 years	15	15	12	10	8	7	5	4	
Highways	Highways - Lorry Park	5-7 years	7	7	6	5	4	3	2	1	
Highways	Highways - Service Improvement	2-5 years	4	4	3	2	1	N/A	N/A	1	



# **Roles and Responsibilities (contd.)**

Intervention	Potential Scheme Promoter	TfSE Role			
Global Package - lower public transport fares	<ul> <li>Central government (e.g. Department for Transport) / Local Authorities</li> </ul>	<ul> <li>Stakeholder engagement</li> <li>Pre-feasibility work and funding for relevant scheme promoters, likely delivery partners and other key stakeholders</li> <li>Business case development and support, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>			
Global Package – active travel (e.g. delivery of LCWIPs, trends in micro- mobility, wider behavioural change programmes)	Local Transport Authorities	<ul> <li>Pre-feasibility work and funding for relevant scheme promoters, likely delivery partners and other key stakeholders</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>			
Global Package – national road user charging	<ul> <li>Central government (e.g. Department for Transport)</li> </ul>	<ul> <li>Further strategy development</li> <li>Stakeholder engagement</li> <li>Pre-feasibility work</li> <li>Advocacy</li> </ul>			
Global Package – integrated spatial and transport planning	<ul> <li>Central government (e.g. Department for Transport and Department for Levelling up, Housing and Communities) / Local Transport Authorities / Local Planning Authorities</li> </ul>	<ul> <li>Stakeholder engagement</li> <li>Pre-feasibility work</li> <li>Use of TfSE's emerging analytical framework</li> <li>Advocacy</li> </ul>			
Global Package – digital technology and use of remote working and virtual access to services	<ul> <li>Central government (e.g. Department for Transport and Department for Culture, Media, Sports and Digital) / Local Authorities / Private Sector</li> </ul>	<ul> <li>Further strategy development</li> <li>Stakeholder engagement</li> <li>Pre-feasibility work</li> <li>Business case development and support</li> <li>Advocacy and securing funding</li> </ul>			
Global Package – decarbonisation: faster adoption and regulation for zero emission vehicles	<ul> <li>Central government (e.g. Department for Transport and Department for Business, Environment and Industrial Strategy) / Local Authorities / Private Sector</li> </ul>	<ul> <li>Further strategy development</li> <li>Stakeholder engagement</li> <li>Pre-feasibility work</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>			



# Table 7.1: Roles and Responsibilities - rail

Intervention	Potential Scheme Promoter	TfSE Role
Passenger rail services that can be introduced without new infrastructure, but which will likely require government support and/or capacity allocation within a passenger service contract (or franchise)	<ul> <li>Today: Department for Transport</li> <li>Future: Great British Railways</li> </ul>	<ul> <li>Stakeholder engagement between central government, operators and local partners</li> <li>Business case development, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>
Passenger rail services that can be introduced without new infrastructure, and without central government intervention (e.g. more international services to Mainland Europe, more freight services).	Open Access Operators	<ul> <li>Stakeholder engagement with operators, local partners and central government</li> <li>Use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy</li> </ul>
	Schemes under development	
For passenger or freight rail services requiring new	<ul> <li>Department for Transport (very large projects e.g. Crossrail)</li> <li>Network Rail (most schemes e.g. Croydon Area Remodelling)</li> </ul>	<ul> <li>Stakeholder engagement with central government and local partners</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework if at an earlier stage of development</li> <li>Advocacy and securing funding</li> </ul>
infrastructure (e.g. high speed services to Hastings)	Schemes not currently under develop	oment
	<ul> <li>Likely Network Rail and, later on, Great British Railways</li> <li>TfSE could be a joint scheme promoter</li> </ul>	<ul> <li>Stakeholder engagement with central government and local partners</li> <li>Pre-feasibility work</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>



Table 7.1: Roles and Responsibilities – bus, ferry, mass transit and shared mobility							
Intervention	Potential Scheme Promoter	TfSE Role					
Mass Transit services that can be introduced without new infrastructure, but which will likely require local government support.	<ul> <li>Local Authority</li> <li>TfSE could be a joint scheme promoter</li> </ul>	<ul> <li>Stakeholder engagement between central government, operators and local partners</li> <li>Business case development, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>					
Mass Transit services that can be introduced without new infrastructure, and without Central Government Intervention (e.g., more Fastrack services).	<ul> <li>Local Authority</li> <li>TfSE could be a joint scheme promoter</li> </ul>	<ul> <li>Stakeholder engagement with operators, local partners and central government</li> <li>Use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy</li> </ul>					
	Schemes under development						
For Mass Transit services requiring new	<ul> <li>Department for Transport (very large projects)</li> <li>Local Transport Authorities (smaller schemes e.g. HIF)</li> </ul>	<ul> <li>Stakeholder engagement with central government and local partners</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework if at an earlier stage of development</li> <li>Advocacy and securing funding</li> </ul>					
infrastructure ( e.g. the larger mass transit interventions/networks proposed in the South	Schemes not currently under development						
East	<ul> <li>Local Transport Authorities</li> <li>TfSE could be joint scheme promoter</li> </ul>	<ul> <li>Programme management, including stakeholder engagement with local partners and operators</li> <li>Pre-feasibility work</li> <li>Potential joint scheme promotion</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>					



# **Roles and Responsibilities (contd.)**

Table 8.1: Roles and Responsibilities – active travel and micromobility							
Intervention	Potential Scheme Promoter	TfSE Role					
Active travel packages	<ul> <li>Local Transport Authorities / Active Travel England / Sustrans National Highways / TfSE</li> </ul>	<ul> <li>Stakeholder engagement, where appropriate, with local partners, Sustrans, National Highways and central government</li> <li>Pre-feasibility work</li> <li>Potential joint scheme promotion</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>					



Table 7.1: Roles and Responsibilities								
Intervention	Lead Authority	TfSE Role						
	Schemes under development							
	<ul> <li>National Highways</li> </ul>	<ul> <li>Stakeholder engagement with central government and local partners</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework if at an earlier stage of development</li> <li>Advocacy and securing funding</li> </ul>						
For Strategic Road Network infrastructure	Schemes not currently under develop	ment						
	<ul><li>National Highways</li><li>Local Transport Authorities</li></ul>	<ul> <li>Programme management, including stakeholder engagement with central government and local partners</li> <li>Pre-feasibility work</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>						
	Schemes under development							
For other highways infrastructure	Local Transport Authorities	<ul> <li>Programme management, including stakeholder engagement with central Government and local partners</li> <li>Pre-feasibility work</li> <li>Business case and scheme development and support, including use of and providing access to TfSE's emerging analytical framework</li> <li>Advocacy and securing funding</li> </ul>						



# **Funding and Financing**

The Strategic Investment Plan will consider funding and financing options in detail.

This topic is are best considered from a panregional, multi-modal perspective, as there may be opportunities for developing linkages between modes at a local level.

Ultimately, a Full Business Case will need to be developed for each intervention, and this will be instrumental in making the case for investment. The best way of securing funding is, therefore, to prioritise those schemes that offer the most compelling case for intervention. Funding for modal shift-related infrastructure can be sourced from:

- central government funding;
- central government loans/bonds;
- local government contributions (e.g., Workplace Parking Levy, Business Rate Supplement); and
- private investment to authorities (e.g. developer contributions s106 & CIL).

Additional funding sources could include:

- Council Tax and Business Rates (including precepts);
- borrowing against future revenues;
- land value capture;
- alternative income streams (e.g. advertising); and
- parking revenue and road pricing hypothecation).

Given the scale of investment proposed and the range of transport infrastructure interventions, a portfolio of funding sources will be required reflecting the nature of beneficiaries and the criteria for the funds.

#### Governance

TfSE and local transport authorities should establish appropriate governance to oversee the development, delivery, and benefits realisation arising from interventions included in this strategy (particularly the larger and/or more complex interventions). The arrangements will vary according to the type of intervention and its stage of development.

# Monitoring and Evaluation

A selection of potentially suitable KPIs for monitoring and evaluation the Packages of Interventions in this Plan are presented in **Table 7.3** on the following pages.



# **Theory of Change Monitoring and Evaluation Framework**

# Table 7.3: Key Performance Indicators - rail

Inputs	Outputs	Outcomes	Impacts
<ul> <li>Integrated planning for transport, land use and wider policy</li> <li>Policy and guidance shaping the nature of the interventions developed</li> <li>Funding invested in rail</li> <li>Staff resource to create, design and deliver schemes</li> </ul>	<ul> <li>Delivery of Global Policy Interventions: reduction in public transport fares</li> <li>Delivery of rail Interventions: capacity (seats, services per hour), and connectivity ( better journey times, frequencies, direct/indirect services, 'turn up and go' service, internet connectivity)</li> </ul>	<ul> <li>Journey Time/Reliability: improvements for specific groups, perturbation recovery</li> <li>Demand: increased public transport usage</li> <li>Modal shift: public transport mode share increased, move to non-caron emitting transport modes</li> <li>Resilience and performance: Operating performance indicators (e.g. minutes delay/early, cancelations, etc.)</li> <li>Quality: Customer Satisfaction Surveys, Service Quality Regimes, Mystery Shopper Regimes, other "trust" related/reliable indicators, enhanced interchange</li> <li>Accessibility: improvement for all passengers, especially people with protected characteristics. number of fully accessible stops and stations, portion of buses, ferries, trams and other vehicles that are fully accessible</li> <li>Affordability: Affordable fares for all, new products to make attractive</li> <li>Revenue: Revenue raised per annum</li> </ul>	<ul> <li>Reduced carbon emissions to net-zero reduced trip rates, higher sustainable transport mode share, fewer private vehicle kilometres, lower or zero emission per vehicle kilometre</li> <li>Productivity: Boosted through better skills matching, knowledge sharing and agglomeration</li> <li>Reduce poverty: for all residents and enable the "levelling up" of socioeconomic outcomes.</li> <li>More financially sustainable public transport: Portion of operating costs recovered through revenue</li> <li>Realisation of TfSE's Vision and Objectives presented in Part 4 of this Plan</li> <li>Resolution of the Problem Statements identified in Part 4 of this Plan</li> </ul>



able 7.3: Key Perform	0	utputs	Outcomes		Impacts
<ul> <li>Integrated planning for transport, land use and wider policy</li> <li>Policy and guidance shaping the nature of the interventions developed</li> <li>Funding invested in bus, ferry, mass transit and shared mobility</li> <li>Staff resource to create, design and deliver schemes</li> </ul>	<ul> <li>Intervent public tra</li> <li>Delivery of transit an Intervent (seats, se and conn- journey to direct/ince</li> </ul>	of Global Policy tions: reduction in insport fares of bus, ferry, mass of bus, ferry, mass of shared mobility tions: capacity rvices per hour), ectivity ( better imes, frequencies, direct services, 'turn o' service, internet vity)	<ul> <li>Journey Time/Reliability: improvements for specific groups, perturbation recovery</li> <li>Demand: increased public transport usage</li> <li>Modal shift: public transport mode share increased, move to non-caron emitting transport modes</li> <li>Resilience and performance: Operating performance indicators (e.g. minutes delay/early, cancelations, etc.)</li> <li>Quality: Customer Satisfaction Surveys, Service Quality Regimes, Mystery Shopper Regimes, other "trust" related/reliable indicators, enhanced interchange</li> <li>Accessibility and reduced community severance: improvement for all passengers, especially people with protected characteristics. number of fully accessible stops and stations, portion of buses, ferries, trams and other vehicles that are fully accessible</li> <li>Affordability: Affordable fares for all, new products to make attractive</li> </ul>	•	<ul> <li>Reduced carbon emissions to netzero: reduced trip rates, higher sustainable transport mode share, fewer private vehicle kilometres, lower or zero emission per vehicle kilometre</li> <li>Productivity: Boosted through better skills matching, knowledge sharing and agglomeration</li> <li>Reduce poverty: for all residents and enable the "levelling up" of socioeconomic outcomes.</li> <li>More financially sustainable public transport: Portion of operating costs recovered through revenue</li> <li>Realisation of TfSE's Vision and Objectives presented in Part 4 of this Plan</li> <li>Resolution of the Problem Statements identified in Part 4 of this Plan</li> </ul>

• **Revenue**: Revenue raised per annum



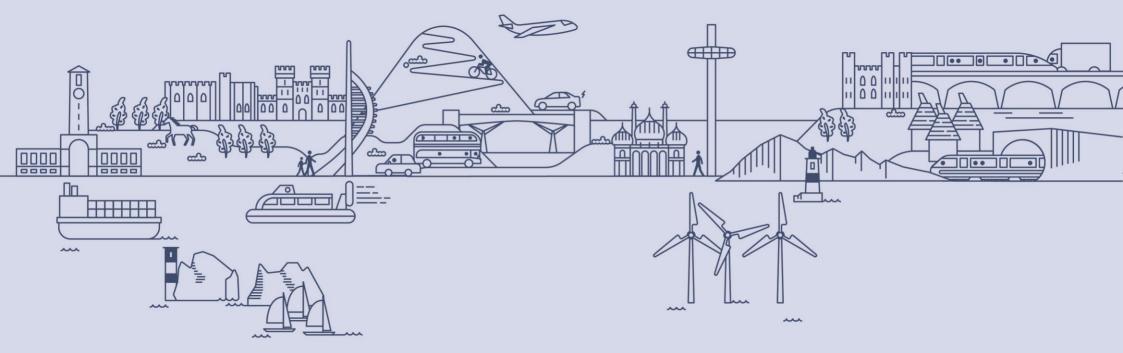
nputs Ou	utputs Outcomes	Impacts
transport, land use and wider policy Policy and guidance shaping the nature of the interventions developed Funding invested in Active Travel and Micromobility transport, land charging, in connectivity roll-out an travel, shat micro-trans Public Rea Micromobility	<ul> <li>Increases in Active Travel and</li> <li>Increases in Active Travel and</li> <li>Micromobility: More people are walki cycling or using micromobility due to minfrastructure</li> <li>Motor traffic volumes reduced: Due to fewer people are driving shorter trips (driving less often)</li> </ul>	<ul> <li>Wenicle kilometres, lower of Zero emission per vehicle kilometre</li> <li>Improved air quality: Due to fewer people driving and reduction in congestion</li> <li>Reduced congestion: Due to fewer people driving local journeys</li> <li>Road safety improved: Due to high quality routes protecting people cycling from motor traffic</li> </ul>



# Table 7.3: Key Performance Indicators – highways

Inp	uts	Outputs		Outcomes		Impacts		
•	Funding invested in highways	• <b>Connectivity</b> : Faster average journey times (e.g. between Eastbourne and Chichester)	•	<b>Reliability:</b> Journey Time Reliability <b>Safety</b> : Reduced collisions and injuries (KSI)	•	Improved place: Highways in built up areas are better suited to the needs of residents, especially vulnerable users		
•	packages <b>Delivery</b> of interventions	<ul> <li>Capacity: Appropriate capacity is provided for normal demand</li> </ul>	•	<b>Air quality</b> : Reduced particulate, SOx and NOx emissions.	•	Agglomeration: More efficient allocation and sharing of resources within and across the region		
		• <b>Reduced conflicts</b> : Fewer flat junctions, right hand turns, and roundabouts	•	Other transport interventions are easier to deliver – especially those requiring road space reallocation such as bus and active travel.	•	<b>Realisation of TfSE's Vision and</b> <b>Objectives</b> presented in Part 3 of this Plan		
					•	Resolution of the Problem Statements identified in Part 3 of this Plan		





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# For further information please contact

Sarah Valentine TfSE Client Project Manager Sarah.Valentine@eastsussex.gov.uk

Steven Bishop Technical Advisor Programme Director Steven.Bishop@steergroup.com

Ali Goddard Technical Advisor Project Manager <u>Ali.Goddard@steergroup.com</u>

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