# London Borough of Havering Local Implementation Plan

November 2018

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# **Executive summary**

This is the third LIP for the London Borough of Havering, which sets out Havering's strategy for implementing the Mayor's Transport Strategy (MTS) at a local level.

The MTS interprets the Mayor's London Plan transport vision and details how he and his partnerships will deliver transport in London up to 2041. The MTS is a key part of the Mayor's strategic policy framework to support and shape London's social and economic development.

The MTS sets out three themes for action by Transport for London (TfL), the London Boroughs and other delivery partners. These are healthy streets and healthy people, a good public transport experience, and new homes and jobs. Under these three priority areas are a set of nine outcomes and associated outcome indicators and targets, alongside the overarching aim of the strategy – for 80 per cent of all trips in London to be made on foot, by cycle or using public transport by 2041. The LIP outlines how the Council will work with TfL to assist with delivering the outcomes, overarching aim, polices and proposals of the MTS.

The Healthy streets approach provides the framework for putting human health and experience at the heart of planning transport in London. It is an evidence based approach to improve health and reduce health inequalities designed to help Londoners use the car less, and walk, cycle and use public transport more. By applying the Healthy Streets Approach to planning transport for both, the Mayor has identified a series of Good Growth principles which are designed to help London grow in a way that works for all Londoners.

The LIP includes a set of borough transport objectives which contribute to achieving the Mayor's mode share aim and the nine Mayor's Transport Strategy outcomes. It also contains a Delivery Plan which sets out how the borough will deliver on these transport objectives both over the short term (funded programmes) and long term (aspirations) together with targets that support delivery of the Mayor's outcome indicators, which will to be worked towards through the lifetime of the LIP.

The LIP Annual Spending Submission (ASS) provides a detailed and costed programme of schemes and initiatives for the first year of the plan, with the programme to be updated in subsequent years.

The Programme of Investment (POI) provides a costed and funded high-level indicative plan that covers, by year, the three-year period 2019/20 to 2021/22. It identifies the proposed spend allocated to the packages of measures, based on the MTS priority areas, overarching aim and nine outcomes, while demonstrating how it will be comply with the borough transport objectives.

Havering's draft Local Implementation Plan has been heavily influenced by Havering's Local Plan. The Local Plan sets out the Council's ambitious vision and strategy for future growth and sustainable development over the next 15 years up to 2031. Havering's LIP has been developed taking into account the strategic objectives of the Local Plan (as set out in Chapter 3 of the Local Plan) and Policy 23 *Connections*. It has also taken into account other strategic documents including the Havering Prevention of Obesity Strategy and Air Quality Action Plan.

Going forwards, the financial support received from TfL through the LIP process will be used as the basis for future funding submissions, and will allow the borough to implement schemes to improve the transport networks in line with MTS objectives. The preparation of the LIP will allow Havering to take ownership of its own programmes and flexibility to reflect local borough circumstances, and will provide better enabling transport to be integrated with wider health, economic, social and environmental objectives at a local level.

# **Document structure**

The LIP document follows the proposed structure for the Third Local Implementation Plan (LIP3), in line with the model template produced by TfL. The key sections and sub-sections are detailed below as follows:

1. Introduction and preparing a LIP - this section details the following areas:

**1.1 Introduction** – sets out the context of the following section with regards to TfL's mandatory requirements as set out in each of the sub-sections

**1.2 Background** – provides an explanation of the statutory background of the LIP process

**1.3 Local approval process** – outlines the democratic processes to be undertaken for approval of the LIP submission at a borough level

**1.4 Statutory consultation** – outlines the consultation process to be undertaken for the LIP document during the formal consultation period

**1.5 Statutory duties** – details how LIP3 impacts have been assessed, with regard to the boroughs statutory duties and other relevant matters

**1.6 LIP3 approval** – details the approval process following the submission of the LIP3 document

2. Borough transport objectives - this section details the following areas:

**2.1 Introduction** – sets out the context of the following section with regards to TfL's mandatory requirements as set out in each of the sub-sections

**2.2 Local context** – provides a local context of the borough with regards to the geographical, demographic and other distinctive characteristics

**2.3 Changing the transport mix** – identifies key challenges and opportunities for achieving modal shift in the borough, as set out in the MTS

**2.4 Mayor's Transport Strategy outcomes** – identifies local issues, challenges and opportunities for achieving the nine strategy outcomes in the borough, as set out in the MTS

**2.5 Other Mayoral strategies** – provides details of wider corporate priorities to be considered, as set out in other relevant plans and polices

**2.6 Borough transport objectives** – outlines the LIP borough transport objectives and how strongly they align with the overarching aim, nine strategy outcomes and good growth principles in the MTS and other relevant Mayoral and local strategies

3. The Delivery Plan - this section details the following areas:

**3.1 Introduction** – sets out the context of the following section with regards to TfL's mandatory requirements as set out in each of the sub-sections

**3.2 Annual programme 2019/20** – provides a detailed and costed programme of schemes and initiatives for the first year of the plan and how they contribute to the

delivery of the MTS, with supporting commentary and risk assessment

**3.3 Three-year indicative Programme of Investment** – provides a costed and funded high-level indicative Programme of Investment that covers, by year, the three-year period 2019/20 to 2021/22, with supporting commentary and risk assessment

3.4 Sources of funding – identifies all interventions that are intended to be wholly or partly funded using LIP funding in the borough's Programme of Investment
3.5 Long-term interventions to 2041 – provides a list of potential schemes up until

2041, alongside reasons for their inclusion in the Delivery Plan3.6 Monitoring the delivery of the outcomes of the MTS – details the targets set

against the overarching mode share aim and the nine outcomes using their respective outcome delivery indicators

**3.7 TfL Business Plan** – considers the key schemes and areas of investment set out in the TfL Business Plan, that may impact on the borough

This approach has been adopted for Havering's LIP3 to ensure the document clearly demonstrates where TfL's mandatory requirements have been met, and to provide consistency and clarity between the requirements set by TfL and the information presented within the document. Footnotes are provided throughout the document, which refer to the relevant mandatory requirements, identifying where these have been addressed in the relevant sections. TfL have encouraged boroughs to reference and "signpost" supporting material within the document. Where possible links have been provided to direct readers to other resource material, for example other online documents such as the Local Plan and supporting TfL strategies.

# 1. Introduction and preparing a LIP<sup>1</sup>

## 1.1. Introduction

- 1.1.1. This section outlines the recommended process used in preparing the borough's LIP. It includes an explanation of the statutory background of the LIP process and the democratic processes that will be undertaken to approve the submission of the LIP at a borough level.
- 1.1.2. An outline of the intended public consultation process to be undertaken is provided, and how the views of the statutory consultees and any other organisations/groups will been taken into account as part of the engagement process during the formal statutory consultation period.
- 1.1.3. The statutory duties and processes undertaken in line with the preparation of the LIP are detailed, which include an outline of the Strategic Environmental Assessment and Equalities Impact Assessment undertaken (which addresses the borough's Public Sector Equality Duty).
- 1.1.4. Timescales for preparing and submitting and approval of the LIP, alongside key milestones are also provided, as set out in the guidance provided by TfL.
- 1.1.5. In summary, the main features detailed within this section as part of the introduction and preparation of the LIP include:
  - Background information regarding the LIP process
  - The local approval process
  - The statutory consultation process
  - The statutory duties undertaken
  - The LIP3 approval process

# 1.2. Background<sup>2</sup>

1.2.1. The Local Implementation Plan (LIP) is a statutory document prepared under Section 145 of the <u>Greater London Authority</u> (GLA) Act and sets out how the <u>London Borough of Havering</u> (referred to as Havering for the remainder of the document) proposes to deliver the <u>Mayor's Transport</u> <u>Strategy</u> (MTS) in its area, as well as contributing to other local and subregional goals. It has been developed in accordance with this Revised

<sup>&</sup>lt;sup>1</sup> Requirement R1: No response required in LIP submission. It is a requirement for the borough to provide a response to every Mandatory Requirement.

<sup>&</sup>lt;sup>2</sup> Requirement R2: Boroughs are required to include in their LIP an explanation of the statutory background of the LIP process.

Guidance for Borough Officers on Developing the Third Local Implementation Plan (LIP3).

- 1.2.2. The final MTS was published in March 2018. Boroughs must submit their LIPs to <u>Transport for London</u> (TfL) as soon as reasonably practicable after the Mayor has published his final MTS.
- 1.2.3. This is the third LIP for Havering. The previous documents were prepared for 2005/06 to 2010/11 and 2011 to 2031.
- 1.2.4. This LIP covers the same period as the MTS (up to 2041) and it also takes account of the transport elements of the draft London Plan (2017), and other relevant Mayoral and local policies particularly the Local Plan Proposed Submission which was submitted in March 2018 to the Planning Inspectorate. The Local Plan is currently the subject of an Examination.
- 1.2.5. The LIP document sets out:
  - Long term goals and transport objectives for Havering for the next 20+ years
  - A three-year Programme of Investment (POI) starting in 2019/20 and the targets and outcomes it is seeking to achieve
  - A more detailed delivery plan is provided for the financial year 2019/20, known as the LIP3 Annual Spending Submission (ASS)
- 1.2.6. LIP3 identifies how will work towards achieving the MTS goals of:
  - Healthy Streets and Healthy People
  - A good public transport experience
  - New homes and jobs
- 1.2.7. The overarching aim of the MTS is for 80 per cent of all trips in London to be made on foot, by cycle or using public transport by 2041, compared to 63 per cent today, and there are different targets set for central, inner and outer London. Havering's target is 65% by 2041.
- 1.2.8. The Council set out why achieving such a modal shift for an outer London Borough such as Havering will be very challenging as part of its <u>response</u> to the draft MTS submitted to the Mayor in autumn 2017. Nevertheless, LIP3 outlines how Havering will set local priorities and targets in order to assist with working towards delivering this aim.
- 1.2.9. Contained within the MTS are nine outcomes and associated outcome indicators. This document outlines how Havering will work with TfL to assist with delivering the outcomes, polices and proposals of the MTS.
- 1.2.10. In preparing LIP3, Havering has taken into account key statutory and non- statutory planning and regeneration strategies including Havering's Vision and the Havering <u>Local Plan Proposed Submission</u>,

the <u>London Riverside Opportunity Area Planning Framework</u>, the <u>Rainham and Beam Park Planning Framework</u>, the <u>Romford Town</u> <u>Centre Development Framework</u>, the <u>Havering Air Quality Action Plan</u> and the <u>Havering Prevention of Obesity Strategy</u>.

## **1.3.** Local approval process<sup>3</sup>

- 1.3.1. Throughout the development of LIP3, officers have sought the views of elected Members. This has included consultation with the Council's Leader and his Cabinet on all aspects of developing the LIP, and in particular the setting of Borough Transport Objectives, Havering's Delivery Plan and target setting.
- 1.3.2. The production of LIP3 has involved engagement with officers from a wide range of Council departments including; Planning Policy, Environment, Street Management, Public Protection, Public Health and Economic Development.
- 1.3.3. LIP3 has been developed through a series of internal workshops which have involved the above departments, on each specific section of LIP3. Internal consultation has taken place with these departments as each section has been drafted to ensure that the LIP3 conforms with existing Council policies (in particular the Local Plan Proposed Submission).
- 1.3.4. To ensure that LIP3 takes account of the Mayor's priorities and aspirations as set out in his Transport Strategy, informal consultation has also taken place with TfL as the LIP3 has been developed. This has included meetings and workshops to discuss proposed targets and objectives.
- 1.3.5. Draft LIP3 was approved by the Council's Cabinet on 13th November 2018.

<sup>&</sup>lt;sup>3</sup> Requirement R3: The boroughs are required to outline the democratic processes taken to approve the submission of the LIP at a borough level.

# **1.4.** Statutory consultation<sup>4</sup>

#### Statement of intent

- 1.4.1. The GLA Act 1999 places a duty on boroughs, when preparing a LIP, to consult with the following organisations:
  - The relevant Commissioner or Commissioners of Police for the City of London and the Metropolis
  - TfL
  - Such organisations representing disabled people as the boroughs consider appropriate
  - Other London boroughs whose area is, in the opinion of the council preparing the LIP, likely to be affected by the plan
  - Any other body or person required to be consulted by the direction of the Mayor
- 1.4.2. Submission of draft LIP3 to TfL following Cabinet commences the beginning of the statutory consultation process.
- 1.4.3. The consultation will be published on Havering's website and will be distributed to a number of publicly accessible Council premises including the Public Advice and Service Centre in Romford Shopping Centre, and all Havering libraries. Section 145 of the GLA Act 1999 places a duty on boroughs to consult with a number of different bodies and organisations.
- 1.4.4. As well as the statutory consultees, other organisations will also be consulted as part of local engagement work..
- 1.4.5. All consultation responses will be reviewed and where considered appropriate, adjustments will be made to LIP3 prior to being formally submitted to the Mayor for approval in February 2019.
- 1.4.6. This section of the document will be updated ahead of the final LIP3 being submitted to the Mayor for consideration. It will include a detailed analysis and summary. Borough responses to individual points raised will be set out in a consultation response document which will be available on the Local Implementation Plan page of the Council's website.

<sup>&</sup>lt;sup>4</sup> Requirement R4: Boroughs are required to provide evidence to show that all statutory consultees and any other organisations/groups have been engaged with during the formal statutory consultation period. They must also demonstrate how the views of their consultees have been taken into account.

# **1.5.** Statutory duties<sup>5</sup>

- 1.5.1. The borough has met its statutory duty and is conducting a Strategic Environmental Assessment (SEA). The Council has its appointed framework contractors <u>Project Centre</u> to deliver the SEA Report. The SEA is being developed in three stages:
  - An Environmental Impacts Assessment (EIA) Scoping Report Boroughs are required to set the context, develop a series of SEA objectives and set out the scope of the report. This has been developed during the preparation of the LIP3 and was submitted to English Heritage, Natural England and Environment Agency to comply with the EIA directive
  - EIA Report prepared and submitted to TfL as part of the consultation process
  - Post Adoption Statement Boroughs are required to publish a Post adoption statement which contains information on the plan and how environmental consideration and consultation reports are accounted for. This will be prepared following the consultation period and submitted to the Mayor as part of the LIP3 documentation
- 1.5.2. The completed SEA Report, including a non-technical summary, will be available on the Council's website during the consultation period.
- 1.5.3. Havering's Equalities Officer has been involved in the development of LIP3. As part of the statutory consultation process, an Equality Impact Assessment (EQIA) will be carried out on the proposals contained in LIP3. Havering uses a formal template for preparing EQIA's. An EQIA was drafted ahead of the LIP3 being lunched for public consultation. However, the final EQIA will be informed by the responses are received from stakeholders as part of the consultation process. The EQIA will be incorporated into the final LIP3 that is submitted to the Mayor for approval in February 2019.

<sup>&</sup>lt;sup>5</sup> Requirement R5: There is a requirement to undertake a Strategic Environmental Assessment and it is recommended that an Equalities Impact Assessment is also done (which addresses the borough's Public Sector Equality Duty). The boroughs are required to consider whether it is appropriate for the LIP to be assessed against other matters, for example crime and disorder, health, economic and business issues, air quality and climate change.

# 1.6. LIP3 approval<sup>6</sup>

1.6.1. The Draft LIP3 was submitted to the Mayor (following approval by the Council's Cabinet on 13<sup>th</sup> November), as part of the statutory consultation process. Comments are expected to be received from TfL by 7<sup>th</sup> December 2018. Following consideration of these comments, along with comments from all other stakeholders, it is anticipated that LIP3 including any amendments following consultation will be signed off by the appropriate Lead Member in early February 2019 before being submitted to the Mayor It is anticipated that the Mayor will approve the LIP by March 2019. All Local Implementation Plans are expected to become effective from by April 2019.

<sup>&</sup>lt;sup>6</sup> Requirement R6: Boroughs must meet all of the following requirements for the submission of their LIP set out below under the following headings: a. Name of document b. Submitting the document to TfL c. Submission milestones.

# 2. Borough transport objectives

## 2.1. Introduction

- 2.1.1. This section outlines the requirements and considerations in preparing the local transport objectives of the LIP within the framework of the Mayor's Transport Strategy priorities and outcomes.
- 2.1.2. As a starting point, the local context of the borough has been set out, providing information on the geographical, demographic and other distinctive characteristics of Havering, alongside the local policy context as appropriate. It provides details of the borough at a spatial level, and identifies the local policies and proposals which will help deliver the MTS.
- 2.1.3. Building on this background context, significant local issues, challenges and opportunities experienced within the borough have been identified, within the framework of the overarching mode share aim, the nine outcomes and other relevant policies and proposals from the MTS. Havering's plans for delivery of the relevant policies schemes and programmes are then identified, to contribute to achieving the overarching aim and nine outcomes from the MTS.
- 2.1.4. Consideration has also been given to the link between LIP3 and other key frameworks against which LIP3 develops plans and delivers local services. These include Havering's Local Plan which was submitted to the Planning Inspectorate in March 2018 and has recently undergone an Examination in Public, Havering's Adopted Air Quality Action Plan (AQAP) (2018) and Havering's Prevention of Obesity Strategy (2016).
- 2.1.5. Havering's transport objectives provide a set of locally specific LIP objectives, and have strong links with the Council's local policies, together with the Mayor's overarching ambitious aim to secure modal shift and the nine outcomes specified in the MTS. These links have been assessed in weighted matrices, which illustrate how strongly the boroughs LIP3 transport objectives support the overarching aim and nine strategy outcomes as outlined in the MTS and other relevant Mayoral and local strategies (shown in Table 5) and good growth principles as outlined in the MTS (shown in Table 6).
- 2.1.6. As explained above, this section is informed by evidence and analysis of local needs, issues and related polices, and has been shaped by the wider context of the MTS vision, the MTS's Healthy Streets Approach and the MTS policies, proposals and outcomes.
- 2.1.7. In summary, the main features detailed within this section include:
  - The local context of the borough

- The local issues, challenges and opportunities with achieving modal shift in Havering, as outlined in the MTS
- The local issues, challenges and opportunities with achieving the nine strategy outcomes in Havering, as outlined in the MTS
- Linkages to other Mayoral strategies with regards to delivering the MTS
- The boroughs transport objectives and how strongly they align with the overarching aim, nine strategy outcomes and good growth principles in the MTS and other relevant Mayoral and local strategies.

# 2.2. Local context<sup>7</sup>

## Havering's 'Vision'

- 2.2.1. Havering has a '*Vision*' for the borough that seeks to position Havering to take advantage of new and emerging opportunities for residents and business. The 'Vision' places Havering as a forward looking, exciting place to work live and invest, well suited to meeting the London Mayor's agenda for good growth.
- 2.2.2. The 'Vision' has four linked themes: communities, places, opportunities and connections.
- 2.2.3. Havering has been greatly encouraged by the strong reception to its 'Vision' within and beyond the borough The Council has welcomed the positive response from the London Mayor and it is using the 'Vision' as a strong tool in discussions with stakeholders to secure the additional investment in infrastructure improvements that is needed to deliver it.

#### Havering's places

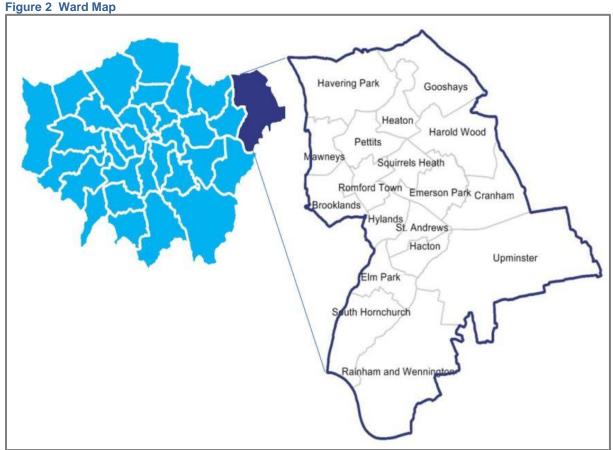
2.2.4. Havering is located on the north eastern boundary of Greater London and is the third largest London Borough (43 square miles). Most of Havering is within the M25 with part of the east of the borough outside the M25 (Figure 1).

<sup>&</sup>lt;sup>7</sup> Requirement No R7: Boroughs are required to set out the local context including the geographical, demographic and other characteristics of their boroughs, cross-referencing existing policy and context documents as appropriate. Alternatively, please provide web-link(s) to a borough document that contains this information and reference the section and page numbers where this information can be found.



Source: Approved Local Implementation Plan 2010

2.2.5. Havering has 19 electoral wards (Figure 2). It is mainly characterised by suburban development. Green Belt forms half of the borough.

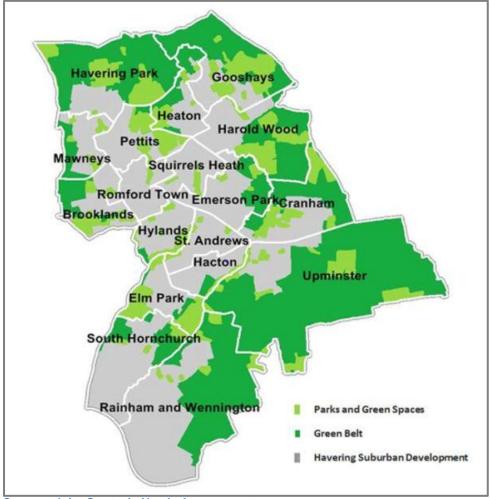


Source: Office for National Statistics (ONS); Produced by Public Health Intelligence

- 2.2.6. Romford is Havering's principal town and is identified as a Metropolitan Centre in the London Plan. Romford is identified as an Opportunity Area in the draft London Plan (2017).
- 2.2.7. The Local Plan Proposed Submission identifies Romford and, Rainham and Beam Park as the key areas for growth over the period of the Local Plan (2016-2031). The Local Plan recognizes this through the designation of two Strategic Development Areas (SDA).
- 2.2.8. The Romford SDA will accommodate a significant level of housing and economic growth alongside new and enhanced supporting infrastructure. Over the Local Plan Proposed Submission Plan period, the Council will support the delivery of 5,300 new high quality homes in well managed residential and mixed use schemes that provide attractive places to live and which are well integrated with the existing community.
- 2.2.9. The Rainham and Beam Park SDA provides the opportunity to establish an existing new residential neighbourhood linked to the delivery of a new railway station on the Essex Thameside Line at Beam Park. Further information on the Romford and Rainham and Beam Park SDAs can be found in Chapters 5 and 6 of the Local Plan Proposed Submission.

- 2.2.10. Parts of the south of Havering are included within the London Riverside Opportunity Area (OA) and will be an area of increasing development and population change over the next two decades. OAs are London's major source of brownfield land which have significant capacity for development such as housing or commercial use and existing or potentially improved public transport access.
- 2.2.11. The London Riverside Opportunity Area Planning Framework (OAPF) (2015) identifies that the area has the capacity to provide 26,500 new homes and 16,000 new jobs across Havering and Barking and Dagenham. In Havering the focus will be on the intensification of industrial land in the Rainham Employment Area and the creation of new residential communities at Rainham and Beam Park. The scope for this comes as a result of the provision of a new rail station at Beam Park and the opportunity to provide space for essential local services. Rainham and Beam Park was granted Housing Zone status by the Mayor of London in 2015 which will help accelerate residential development in the area.
- 2.2.12. The south of the borough also includes the Rainham, Wennington and Aveley Marshes which are the largest remaining expanse of wetland bordering the upper reaches of the Thames Estuary and a Site of Special Scientific Interest (SSSI) with a rich mix of wildlife habitats and species. Towards the south of the borough is the River Thames.
- 2.2.13. Much of Havering's built up area is suburban housing and includes neighbourhoods with their own distinctive characteristics. These contribute to Havering being a popular and attractive place to live. Havering has extensive areas and buildings of historic and heritage. Importance.
- 2.2.14. Havering's countryside provides many informal recreation and leisure opportunities such as walking, cycling, horse riding and bird watching. Havering has an extensive green infrastructure network comprising of many natural and semi-natural spaces, parks and gardens, woodland, rivers and their corridors (Figure 3). Such facilities provide opportunities for residents to engage in regular exercise and are promoted through Havering's <u>Prevention of Obesity Strategy.</u>

#### Figure 3 Havering's Green Spaces



Source: Joint Strategic Needs Assessment

#### People in Havering

- 2.2.15. Havering's Joint Strategic Needs Assessment (JSNA) provides a detailed shared evidence base for commissioners of services impacting on health and wellbeing. The LIP3 has been heavily informed by the JSNA.
- 2.2.16. The JSNA sets out details on the demographics of Havering. This includes current population density by ward (Figure 4). Havering has an estimated population over 257,000.

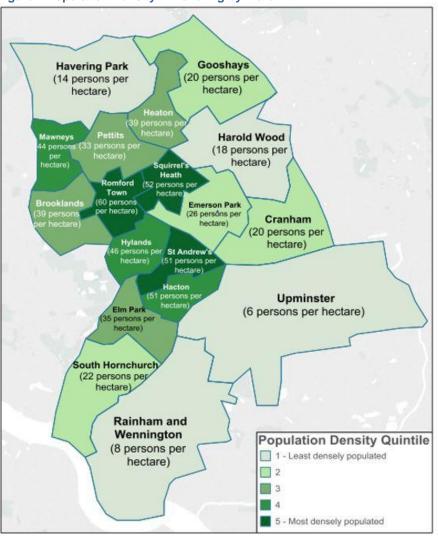


Figure 4 Population Density in Havering by Ward

Source: Joint Strategic Needs Assessment

2.2.17. According to the latest GLA's population projections Havering's population will increase by 14% by 2028 and 18% by 2033 to 294,000 and 303,000, respectively. The largest increases are expected to occur in children (0 – 17 years) and older people (65 years and above). Table 1 (below) sets out projected percentage population change by age group from 2018 to 2033.

Age Group	2023	2028	2033	
0-4	6%	9%	5%	
5-10	12%	20%	19%	
11-17	21%	37%	43%	
18-24	1%	12%	22%	
25-64	6%	10%	10%	
65-84	7%	18%	26%	
85+	11%	22%	54%	

#### Table 1 Projected Percentage Population Change by Age Group from 2018 to 2033

Source: GLA 2016-based Demographic Projections – Local Authority population Projection Housing-led Model; Greater London Authority (GLA); Produced by Public Health Intelligence

- 2.2.18. The populations in the Romford Town, Brooklands and South Hornchurch wards are expected to increase the most over the next 15 years reflecting residential development planned in the Romford and Rainham areas over the borough over that time period.
- 2.2.19. Key points about Havering's population identified in the JSNA include:
  - Havering has the oldest population in London with the median age approximately 40 years
  - Since 2002 the population has increased year on year with a 12.3% increase from 2002 2006
  - Havering has experienced the largest net inflow of children across all London Boroughs (4580 children) in a 6 year period (2011-2016)
  - Life expectancy at birth is 80.1 years for males and 84.2 years for females. Life expectancy in for both males and females has been mostly higher than the England average but similar to London
  - Havering is one of the most ethnically homogenous places in London with 83% of its residents recorded as White British which higher than both London and England
  - Religion varies across Havering .In the 2011 census, 65% of residents considered themselves Christian with the second highest proportion of residents considered themselves as having no religion (22%.)
  - The latest Office for National Statistics Annual Population Survey (January 2015 December 2015) identifies that, 19% of working age people disclosed that they have a disability or long term illness which is a similar proportion to England (20%)
  - Havering is below the national average in terms of the percentage of children that are in low income families with 19% recorded as such in 2014 compared to the national average of England being 23%

#### Homes in Havering

- 2.2.20. The 2016 London Plan sets a minimum housing target for Havering of 11,701 new homes to be delivered over the period 2015-2025. It further states that the annual average increase (1,170) should be rolled forward for the remainder of the plan period. Havering's Local Plan envisages almost 12,000 new homes delivered in the first ten years of the Local Plan in addition to bringing 234 vacant units back into use.
- 2.2.21. A significant proportion of the new housing development will be delivered in the two SDAs for Romford and Rainham and Beam Park.
- 2.2.22. The recently published draft London Plan states that London will be expected to deliver at least 66,000 new homes every year to meet its growing needs. Havering's new housing target in the draft London Plan (2017) is 18,750 new homes over a ten year period which equates to a minimum annual target of 1,875 units. This is a significant increase upon its current annual minimum target and the Council commented on this in its response to the draft London Plan in early 2018.
- 2. 2. 23. The Council is planning to build a significant number of new homes in one of the most ambitious local authority home building programmes in the country by means of its twelve estates regeneration programme. The initial programme will deliver over 2,000 new homes.

2.2.24. Key points about households in Havering in the JSNA include:

- The Council Tax list (March 2018) identifies 105,691 households in Havering
- Approximately 70% of the population are home owners which is one of the highest proportions in London
- 32% of the population aged 65 years and above live in one-person households (13,349 persons)
- Almost half of one person households are occupied by persons aged 65 years and over which is the highest proportion in London
- Havering's housing is mainly Victorian and Edwardian and is generally large with an average of 2.8 bedrooms per household (higher than both London and England)

## Havering's economy

- 2.2.25. Romford is designated as a Metropolitan Centre in the London Plan and Hornchurch, Upminster, Elm Park, Collier Row, Rainham and Harold Hill are designated as District Centres.
- 2.2.26. There are also a network of local centres, shopping parades, and corner shops which serve their surrounding populations.

- 2.2.27. Romford is Havering's main commercial entertainment centre with a dynamic night time economy of eating and drinking venues, cinemas and clubs. Hornchurch has the Queens Theatre and Fairtykes Arts Centre and is Havering's cultural centre with a sub-regional importance. Leisure and tourism are also important to Havering's economy. Romford is the main centre for shopping and has had significant competition from centres such as Lakeside, Bluewater and Westfield Stratford shopping centres in the past ten years.
- 2.2.28. The average gross income per household in Havering is £44,430 (2012/13) which is lower than the London average (£51,770) and slightly higher than the England average (£39,557).
- 2.2.29. 77% of households in Havering have at least one car. Havering has the second highest proportion of households (32.8%) in London with 2 or more cars (Figure 5).

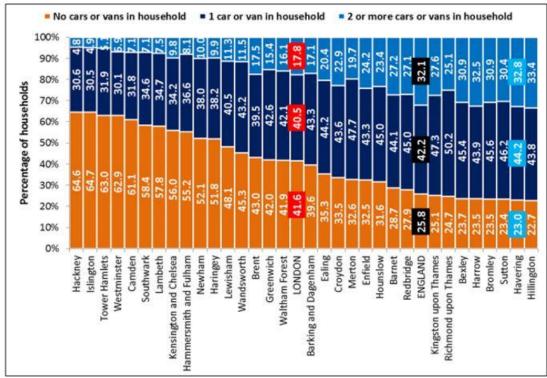


Figure 5 Car Ownership Levels across London

Source: Joint Strategic Needs Assessment

- 2.2.30. Almost 80% of working age residents in Havering were in employment between October 2016 – September 2017 which is more than London (73.7%) and England (74.5%). Working age residents in Havering claiming out-of-work benefits (6.6%) is significantly lower than England (8.4%).
- 2.2.31. Havering's Local Plan includes a borough wide strategy for growth which includes:

- Regeneration of Romford Town Centre to provide a more diverse and higher quality retail, leisure, cultural and employment offer
- Directing an appropriate scale of retail, culture, service industries and office development to Havering's network of town centres and local centres including a new local centre at Beam Park
- Protecting Havering's Strategic Industrial Locations (SILs) in Harold Hill, Romford and Rainham for continued industrial use
- Protecting Havering's Locally Significant Industrial Sites (LSISs) for continued industrial and employment use

#### Havering's transport geography

## Transport connections

- 2.2.32. Havering has good access to the rest of London, Essex, Kent, and the rest of the South East via its strategic transport connections and routes.
- 2.2.33. Different organisations are responsible for assessing challenges, generating options, funding and identifying investment priorities in Havering and the wider sub region including:
  - The Government (responsible for national transport policy) and its agencies such as Highways England and Network Rail for national and international networks and infrastructure
  - TfL for London-wide and certain regional networks
  - Havering at the local level and sub regional level
- 2.2.34. Further information on transport infrastructure responsibilities within Havering can be found in the <u>Transport Position Statement</u> <u>Evidence Base</u> for the Local Plan.

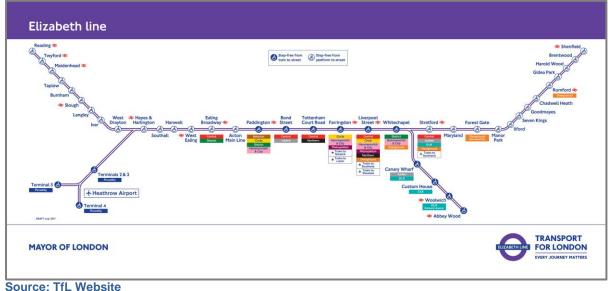
## National and international links

- 2.2.35. Havering has good road links to Kent and the Channel ports via the M25 and the Dartford Crossing and to the major ports of Felixstowe and Harwich which provide further links to Europe and beyond. The A13 provides access to the DP World London Gateway Port as well as Tilbury Docks.
- 2.2.36. There is good access by air to Europe and beyond through the airports at London City, London Southend and London Stansted. The extension of the Docklands Light Railway (DLR) to London City from existing DLR stations has improved the connections for Havering residents.

#### Sub-regional and regional links

- 2.2.37. The M25 is part of the national strategic network and provides London-wide and regional links for Havering's residents and businesses. It is managed by Highways England (HE).
- 2.2.38. Further road access is provided by the A12, A13 and A127 roads which are part of the Transport for London Road Network (TLRN). TLRN routes facilitate access to Havering's business, education and residential areas from other areas of London, Essex, and Kent.
- 2.2.39. Outside London, the A12 is the responsibility of HE. The operation and maintenance of the A127 is the responsibility of Essex County Council and Southend Borough Council. Outside London, HE, Essex County Council (ECC), and also Southend and Thurrock Borough Councils (as respective unitary authorities) are responsible for specific sections of the A13.
- 2.2.40. Havering has mainline railway services on the Great Eastern Mainline (London Liverpool Street - Norwich) and the Essex Thameside Line (London Fenchurch Street – Shoeburyness).
- 2.2.41. Crossrail (Elizabeth line) is a new regional east-west railway line scheduled to open fully in 2019 (Figure 6). It will connect Heathrow, Reading and Maidenhead with Essex and South London by means of tunnels beneath Central London. The eastern branch (north of River Thames) will run from Shenfield in Essex through Havering's Harold Wood, Gidea Park, and Romford stations to London Liverpool Street and beyond. The other eastern branch (south of River Thames) will run from Abbey Wood via Canary Wharf and the City on from here.

#### Figure 6 Elizabeth Line Route



#### Local links

Roads

- 2.2.42. Havering's public highway network comprises principal roads (36km), classified roads (126km) and unclassified roads (581km).
- 2.2.43. There are approximately 1,070km of footways, 21,000 street lights, over 100 bridges and structures, 25,000 road gullies and 21,000 street trees. All these roads and facilities are managed and maintained by the Council.
- 2.2.44. A number of Havering's District Centres are connected by Havering's Strategic Road Network (SRN). These are effectively the "A" roads within the borough that are not part of the TLRN.

Rail

- 2.2.45. London Overground provides a "push and pull" service between Romford and Upminster via Emerson Park and is the only separate section of the London Overground network. A 'push and pull' service involves trains which are able to be driven from either end of the train, allowing for quick arrival and departure from "end of the line" stations. It enables passengers to travel on the London Underground District line or on National Rail on the Essex Thameside line from Upminster Station.
- 2.2.46. Access to local surface level train services is provided by stations at Romford, Harold Wood, Gidea Park, Emerson Park, Upminster and Rainham. There is access to Underground services (District Line) at Hornchurch, Upminster Bridge, Elm Park and Upminster providing access into central London.

Freight

- 2.2.47. The road network provides the primary freight network in Havering although freight traffic also operates on both the Great Eastern Mainline and Essex Thameside line. The latter enables freight movements to/from the DP London Gateway port.
- 2.2.48. There are no major road freight terminals within Havering although there are container depots in Thurrock and Dagenham located on the A13 trunk road.
- 2.2.49. Havering has two riverside wharves on the river Thames (Phoenix Wharf and Halfway Wharf). These are currently safeguarded. In spring 2018, the Mayor published a review on the safeguarding of wharves for public consultation.
- 2.2.50. It recommended that Halfway Wharf be released from safeguarding because there is surplus capacity elsewhere in the North East sub region, its use is less favourable than other wharves because of fixed flood defence walls and a lack of jetty infrastructure.
- 2.2.51. The review recommended that the Phoenix Wharf safeguarding be retained because its cargo handling infrastructure remains in place. It recognised the potential for cargo that currently is delivered by road (such as on the A13) to be delivered by the river if the Wharf became "active". Taking freight off strategic roads and onto the River is an important target in the MTS.
- 2.2.52. Havering's Local Plan recognises the importance of maintaining safeguarding at both these wharves. The Council's consultation response reflected this.
- 2.2.53. Most freight traffic in Havering comprises deliveries or collections linked to the main employment areas in Romford and at London Riverside. Servicing for shops (particularly for Romford) also generates a considerable number of deliveries.

Bus

- 2.2.54. Rail services in Havering are complemented by bus services to the various residential, employment, education and leisure activities and key destinations.
- 2.2.55. Havering is served by more than 30 bus routes including several dedicated school bus routes.
- 2.2.56. Romford is the major destination for buses. Most routes provide good links to its <u>railway station</u> to enable direct rail access into London Liverpool Street and central London, with subsequent connections to regional and national destinations beyond.

- 2.2.57. Buses also stop at Newbury Park (in the London Borough of Redbridge) to enable passengers to transfer onto the London Underground Central Line and to <u>Upminster Station</u> where passengers can interchange and travel onto the District line into central London or the Essex Thameside railway line.
- 2.2.58. Bus services to/from the <u>Rainham area</u> and <u>Beam Park area</u> are not as extensive as in the Strategic Development Area of <u>Romford</u>, with the main routes being the 103, 165, 174, 287, 365, and 372.

Taxicard, Freedom Pass and Dial a Ride

- 2.2.59. Havering supports the Freedom Pass scheme to enable older people to make use of bus and train services free of charge at specified times and on specified routes.
- 2.2.60. Havering also supports the London-wide 'Taxi-card' scheme to enable people with severe mobility problems to use taxis for a specified number of trips each year and the 'Dial a Ride' scheme to assist people with less mobility. Dial a Ride is operated by TfL whilst Taxicard is administered by London Councils on the behalf of London Boroughs and TfL.

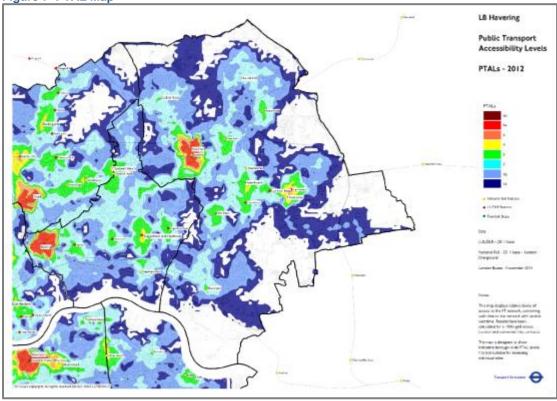
#### River crossings

- 2.2.61. Havering supports in principle additional river crossings across east London. It is committed to working with neighboring boroughs (including London Borough Bexley) to ensure Havering is well placed to benefit from further east London Crossing proposals.
- 2.2.62. Havering is working closely with HE and other partners following the announcement from HE on its preferred option and route for a new Lower Thames Crossing. HE launched its statutory consultation in October 2018. Havering will wish to ensure that any adverse impacts from the preferred route (such as any increased congestion in parts of Havering's transport network) are suitably mitigated against, that residential amenity is maintained and any adverse visual impact is minimised.

#### Access to Public Transport in Havering

2.2.63. Transport for London has developed a 'tool' to assess access to public transport. A map shows <u>Public Transport Accessibility Levels</u> (PTAL) for Havering. The map is supported by TfL's Transport Connectivity Assessment Guide <u>http://content.tfl.gov.uk/connectivity-assessment-guide.pdf. It</u> explains that a PTAL measurement rates a selected place based on how well connected it is to public transport. The

Transport Connectivity Assessment Guide lists a number of factors that are considered when measuring PTAL including, waiting times at stations, proximity to major rail stations, and frequency of services. PTAL measures do not however cover trips by car. As shown in Figure 7, areas of the borough with the highest PTAL ratings include Romford (PTAL 6A/A) and Upminster (PTALS's 3 4).



#### Figure 7 PTAL Map

Source: TfL

- 2.2.64. Figure 7 identifies Romford to have the highest PTAL rating. Hornchurch and Upminster have strong PTAL ratings by reason of being served by the District Line. Upminster benefits from C2C services operating on the Essex Thameside line and a London Overground connection to Romford. Parts of Havering with the lowest PTAL ratings currently include Collier Row, Harold Hill and Rainham. TfL has also produced <u>PTAL forecasts</u> for 2021 and 2031 respectively which can be found on the <u>WebCAT website</u>. Improved public transport provision for example in Rainham through the new Beam Park Station is expected to result in an improved PTAL rating for this area.
- 2.2.65. The PTAL approach does not adequately recognise that away from the areas adjoining rail stations there is generally poor public transport connectivity within the borough. This is reflected in the choices that Havering residents make for commuting within the local area. It

shows as relatively few public transport journeys and some of the key strategic local destinations that people use frequently being reached by private car. This includes for example, major destinations such as the Queens Hospital in Romford.

# 2.3. Changing the transport mix

- 2.3.1. The Mayor of London's MTS has an overarching modal share target for 80% of trips to be made by active, efficient and sustainable modes (public transport, walking and cycling) by 2041 compared to 63% today. This target is broken down into specific targets for individual boroughs. For Havering the mode share target by 2041 is 65% (compared to 45% today).
- 2.3.2. The MTS sets out a 'Healthy Streets' approach framework which puts human health and experience at the heart of planning. It uses evidenced based indicators (Figure 8) to assess the experience of using London's streets. A good performance against each indicator shows that individual streets are appealing places to walk, cycle and spend time. The Mayor says that improvements against all the indicators across London's streets will radically transform the day-to-day experience of living in London and help to fulfil the overall aim in the MTS of creating a better city for more people to live and work in.



- 2.3.3. Meeting the modal shift target for Havering will be very challenging because of the transport circumstances prevalent in the borough and the level of housing growth expected to be delivered over the next 15 to 20 years.
- 2.3.4. The MTS also sets out a series of principles for delivering "Good Growth". In the context of the MTS, Good Growth is seen as ensuring that people living in new housing in central, inner and outer London have options other than to drive to the shops, to school or to work. The transport principles of good growth can be aligned with many of the objectives set out in this strategy document as can be seen in Table 6 of this strategy.
- 2.3.5. Havering has a number of strategic transport aspirations that will support good growth and the Mayor's overarching modal shift ambitions. Further information on these can be found in the *Long term interventions up to 2041* section below.

#### Figure 8 Mayor's Healthy Streets Approach Indicators

Challenges and opportunities<sup>8</sup>

North-south connectivity

- 2.3.6. Havering has good east-west connectivity across the borough (and into central London), but limited public transport links between the north and south of the borough, particularly for buses. Improved transport connections between Rainham, and Romford are needed to support the two emerging GLA supported Housing Zones, but also to improve access to the Elizabeth Line and the new station to be built at Beam Park (due to be operational by 2021). In addition, improving connections further north in Havering up to Collier Row and Harold Hill is important due to their relatively modest PTAL levels and in order to improve access to Elizabeth Line services for residents in the north of the borough. In addition, Harold Hill is one the most deprived parts of Havering.
- 2.3.7. The Centre of Engineering and Manufacturing Excellence (CEME) is located just south of the A1306 in Rainham. CEME is a regeneration charity established in 2003 which supports economic growth within east London and the wider Thames Gateway region. CEME provides office, training and workshop facilities for companies looking to grow. It is currently very poorly served by public transport with only one bus service (174 Harold Hill CEME) serving the centre, and many customers left with little alternatives than to travel by car.
- 2.3.8. Havering College operates the Rainham Construction Centre next to A1306. The College has recently received planning permission to expand its existing facilities to develop a Construction and Infrastructure Skills and Innovations Centre. Expansion of the campus will increase the numbers of students using the college many of whom will rely on public transport as a method of travel.
- 2.3.9. New transport links between the north and south of the borough are required to support the level of growth expected in the Romford and Rainham Strategic development areas. Establishing better connections will support the Romford and Rainham and Beam Park Housing Zones attracting residents and employees to the area.
- 2.3.10. The Council is currently undertaking feasibility work looking to develop a route option for a tram/light rail link linking Rainham, Hornchurch, Romford, Collier Row and Harold Hill.

<sup>&</sup>lt;sup>8</sup> Requirement R8: Boroughs are required to identify key opportunities for shifting trips and journey stages to walking, cycling and public transport to contribute to achieving the overarching aim for 80 per cent of trips to be made by active, efficient and sustainable modes by 2041.

2.3.11. Improving access from the north of the borough will also make a big difference to the ability of residents to gain jobs in London Riverside. In reverse, better links will mean that residents in the south of the borough will be better able to enjoy the facilities and attractions in Romford which is the main retail and entertainment centre in the borough.

#### Improving bus services

- 2.3.12. Responsibility for operation and management of the bus network is under the jurisdiction of TfL and, the Council works closely with TfL on all bus related matters. This includes the delivery of improved bus infrastructure, new routes, and increased capacity/frequency of routes.
- 2.3.13. In recent years, the Council has been working closely with the Barking, Havering and Redbridge University Hospital NHS Trust (BHURT) as well as TfL London Buses to improve access by bus to key trip generators. Since the Queens Hospital opened in 2007, the number of bus routes serving it has increased from 4 to 9 improving access to Queens from Brentwood in Essex, as well as neighbouring boroughs.

#### Behaviour change measures

- 2.3.14. Havering invests significant levels of funding through its LIP on physical infrastructure measures to encourage modal shift. A substantial element of LIP funding is also spent on measures focussed on securing behaviour change and presenting alternative travel choices for journeys.
- 2.3.15. These measures often encompass educational initiatives delivered in schools, to businesses and other community groups to encourage people to consider making choices involving smarter travel and road safety education initiatives. The aim of these is to encourage people to walk, cycle or use public transport to/from their destination and ultimately see a reduction in journeys by private vehicle.
- 2.3.16. Every Havering school has access to 'Bikeability' training to provide the confidence and skills necessary for safe cycling. Havering has had very high Bikeability training numbers for many years now, especially in the school community. The number of cyclists trained annually is around 3,500. Havering has established four successful cycling 'hubs' spread across the borough that offer training and maintenance classes throughout the school summer holidays, More than 500 people were trained at these hubs last summer.

## Travel planning

- 2.3.17. The Education and Inspections Act 2006 places a duty on local authorities to promote sustainable travel for journeys to/from and between schools and educational institutions.
- 2.3.18. This duty can be met through a borough's School Travel Plan (STP) programme and STARS (Sustainable Travel, Active, Responsible, Safe) accreditation scheme.
- 2.3.19. A School Travel Plan (STP) is a package of measures aimed at reducing car use and improving safety on the journey to / from school. TfL encourage boroughs to promote and support these initiatives through their annual LIP programmes. Through the LIP ASS, and 2019/20 2021/22 Programme of Investment (POI), the Council will continue to invest LIP Funding in initiatives and campaigns that encourage sustainable travel to/from school. The Council will also continue to invest LIP funding to deliver improvements to the Highway (such as safe crossing points to encourage pupils to walk) that schools have identified as issues that are hindering modal shift, through their STPs.
- 2.3.20. 54 schools have an accredited travel plan under the STARS scheme to show how they encourage active, safe and sustainable travel to the school community.
- 2.3.21. In 2009, before STPs were fully embedded in Havering, the percentage of journeys to school by car in Havering was 39%. As a result of Havering's STP programme, this had reduced to 21% by 2018. Every school in Havering has an approved School Travel Plan and many of them (60) are actively using them to encourage active, safe, and sustainable travel. An active STP means that a particular school has or is working towards achieving an accreditation level within the STARs programme. Table 2 shows that two thirds of the schools in Havering are accredited at Bronze, Silver or Gold. A total of 34 are at the highest (Gold) accreditation level.

Year	Number of schools		Total Schools	Special Awards	
	Bronze	Silver	Gold	Accredited	
2017/18	17	3	34	54	<ul> <li>School of the Region – The Campion</li> </ul>
2016/17	16	5	34	55	- School of the Region – La Salette Primary School
2015/16	20	4	31	55	<ul> <li>School of Excellence Award – Cycling – Emerson Park Academy &amp; Engayne Primary School</li> </ul>
2014/15	23	2	26	51	<ul> <li>Schools of Excellence Award - Cycling - The Coopers' Company and Coborn School</li> <li>School Travel Plan Champion of the Region – Mary Norman, St Ursula's RC Junior School</li> </ul>
2013/14	27	6	24	57	<ul> <li>School of Excellence Award - Partnership - The Coopers' Company and Coborn School</li> </ul>
2012/13	34	9	14	57	<ul> <li>School of Excellence Award - Walking - St Ursula's RC Junior School</li> <li>School of Excellence Award - Scooting – Nelmes Primary</li> <li>School of Excellence Award - Pupil Led project – Ravensbourne School</li> <li>School Travel Plan Champion of the Region – Mr L Hanford, The Coopers' Company and Coborn School</li> <li>Secondary School of the Region – The Coopers' Company and Coborn School</li> </ul>
2011/12	37	11	8	56	<ul> <li>Cycle Beacon Awards - The Coopers' Company and Coborn School</li> </ul>

Table 2 School Travel Planning and STARS accreditation history in Havering

Year	Number of schools			Total Schools	Special Awards
	Bronze	Silver	Gold	Accredited	
					<ul> <li>Cycle Beacon Awards - Brady Primary School</li> </ul>
2010/11	23	6	1	30	
2009/10	21	3	1	25	
2008/09	29	1	0	30	
2007/08	27	1	0	28	
2006/07	3	0	0	3	

2.3.22. Depending on the scale of a development, through the planning application process, developers are required to produce a Travel Plan Statement or Full Travel Plan. The Council uses this to seek early engagement with prospective developers prior to planning applications being submitted to ensure that new developments include active travel opportunities for residents such as walking and cycling, and that promote alternative choices to the car.

#### **Business engagement**

- 2.3.23. LIP funding is also used to engage with local businesses, contributing to the Council's business growth agenda.
- 2.3.24. The Council engages with local businesses who wish to explore how they can improve air quality, reduce the financial impacts of travel for their business and improve the health of their staff and the environment. Businesses can now apply for a grant from the Council using TfL LIP funding which can be used to deliver initiatives to encourage staff to travel to and from work more sustainably.
- 2.3.25. 2015 saw Havering launch its <u>Business Packs</u>. The aim of these is to raise awareness of Smarter Travel initiatives available to businesses. They provide the Council with an opportunity to engage with those businesses who wish to discuss and explore further any smarter travel opportunities. A variety of information is included within the business packs including sustainable travel advice for business, electric vehicle charging points, waste and recycling, cycling, ultralow emission vehicles.
- 2.3.26. The Business Packs were launched at a Leader of the Council event in 2015 and then distributed in particular throughout the London Riverside BID in the south of the Borough. The pack is due to be relaunched this year, with a series of new inserts offering advice to businesses on more topics such as new requirements for vehicles under the Ultra-Low Emissions Zone (ULEZ), workplace grants, energy matters, and walking.
- 2.3.27. The Council offers small grants to local businesses to promote and facilitate active travel by their staff and visitors to their sites. This has included the Council working with one of the borough's biggest employers, Queens Hospital who were awarded a workplace grant last year to purchase pool bikes for staff use. This supports the workplace travel plan that the Hospital has produced to encourage staff to travel to/from the Hospital sustainably.

# 2.4. Mayor's Transport Strategy outcomes<sup>9</sup><sup>10</sup>

## Outcome 1: London's streets will be healthy and more Londoners will travel actively

- 2.4.1. The MTS sets out proposals for increasing levels of walking and cycling and ensuring that all Londoners are able to travel actively and achieve the associated health benefits by improving the environment for walking and cycling (including the delivery of the strategic cycle network), making walking and cycling easier and promoting walking and cycling.
- 2.4.2. The Mayor has set an ambitious target for modal shift with 80 per cent of Londoners to be walking, cycling or using public transport by 2041. Recognising that each borough is different, TfL have also set borough specific targets for modal shift with a 2041 target for Havering of 65%. In addition, the Mayor aims to have all Londoners doing at least 20 minutes of active travel per day by 2041.
- 2.4.3. TfL have produced a tool known as City Planner. Cityplanner provides information on the percentage of residents completing two x 10 minutes of active travel per day. Figure 9 below shows the extent of the challenge such an aim is for an outer London borough such as Havering. Significant pockets of the borough have less than 20 per cent of its residents not completing two x 10 minutes of active travel per day. The areas with the highest percentages can be found around Romford and Upminster. This may be due to commuters walking to and from stations. The areas with the lowest percentages can be found in more remote areas away from Havering's larger roads and rail stations. This may be due to these residents opting for private car use.

<sup>&</sup>lt;sup>9</sup> Requirement R9: Boroughs are required to set out local issues, challenges and opportunities within the context of contributing towards the achievement of the nine Mayor's Transport Strategy outcomes and the relevant polices and proposals.

<sup>&</sup>lt;sup>10</sup> Requirement R11: Boroughs are required to identify a set of locally specific LIP objectives that contribute to achieving the nine outcomes of the Mayor's Transport Strategy, and the relevant policies and proposals.

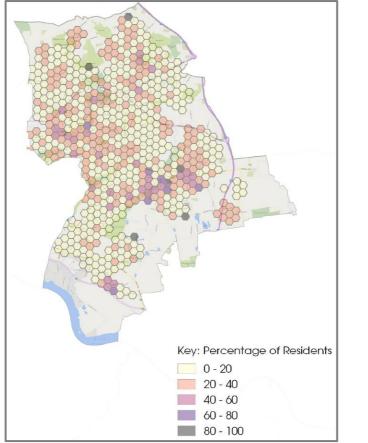


Figure 9 Percentage of Havering Residents completing 2 x 10 Minutes of Active Travel per Day

#### Source: TfL Cityplanner

2.4.4. To encourage mode shift away from the car, boroughs should set out how they will make the alternatives, walking, cycling and public transport, more attractive by improving infrastructure, enhancing wayfinding and delivering measures to support people to change their travel habits.

#### Challenges and opportunities

#### Ageing population

- 2.4.5. As explained in the *Local context* section, Havering's population is expected to increase to over 300,000 by 2033 (an 18 per cent increase from 2018). Havering's Joint Strategic Needs Assessment (JSNA) explains that the largest percentage population change (by age group) from 2018 to 2033 is expected to be residents in the 85+ age group which is expected to increase by 54 per cent.
- 2.4.6. Havering's population will present, social, economic, and health implications. There will also be the challenge of maintaining and

delivering a transport infrastructure that is accessible for older residents and visitors.

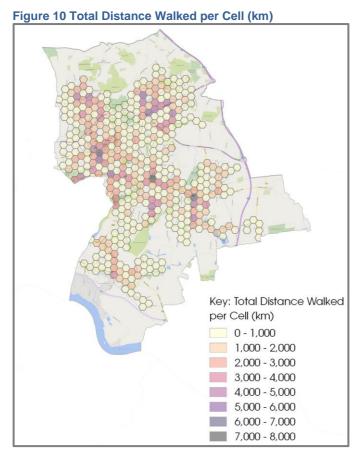
- 2.4.7. An ageing population is less likely to walk or cycle for shorter journeys and promoting the benefits of walking is just as important as providing the infrastructure to accommodate it.
- 2.4.8. The Council will continue to work closely with Havering's Over 50's Forum. This is an organisation where people over the age of 50 can find information and raise issues which are of concern to them. The Council has recently engaged with this group to promote the benefits of both walking and cycling and have recently introduced 'led rides' to the group which provide a guide with organised group cycle sessions.

## Obesity

- 2.4.9. Havering's Prevention of Obesity Strategy identifies that currently, 1 in 10 children are obese when they start primary school, and this rises to one in five by age 11. This is an issue because childhood obesity harms both mental and physical health. If unchecked, obesity may result in future generations having a lower life expectancy than their parents.
- 2.4.10. Obesity threatens the health of current and future generations and has the potential to jeopardise the continued financial viability of health and social care services as they are currently provided. A high number of Havering residents, (both adults and children) are obese and could improve their health by losing weight, being more active or by eating more healthily. The harm caused by obesity, sedentary behaviour and poor diet is significant and will only increase unless effective action is taken now by individuals, the wider community and other stakeholders.
- 2.4.11. There is an opportunity to ensure that future generations do not encounter obese related issues. Between now and 2033 there will be a 67 per cent increase of 0 17 year olds. If this age group can be targeted it can help prevent problems linked to obesity for these people later on in life.
- 2.4.12. Children burn the most energy when they are walking, cycling and playing outdoors. This also has the added benefit of greater concentration at school and supports physiological development. While children need much more activity than adults, walking and cycling can make an important regular contribution to their daily activity levels.
- 2.4.13. This is another important reason why the boroughs STPs and STARs programme (as mentioned previously in the *Travel planning* section) and Bikeability programme are so important in schools today.

### Healthy Streets approach

- 2.4.14. As previously discussed in the *Changing the transport mix* section, when schemes are assessed against the healthy streets indicators, good performance against these means that streets are appealing places to walk, cycle and spend time in. The Healthy Streets Approach set out in the MTS suggests that improvements against all the indicators will radically transform the day to day experience of living in London.
- 2.4.15. The MTS estimates whilst many Londoners already choose to travel actively with 6.5 million trips made solely on foot and around 600,000 trips made solely by cycle. It is estimated that almost 5 million journeys per day that could be walked or cycled that are currently made by car. Figure 10 shows potential switchable trips to walking and cycling in Havering. The map shows that the areas with the highest distances walked are concentrated around the borough's rail stations and town centres. This may be due to higher population densities in these areas which is likely to increase particularly around Romford Town Centre. In contrast, the areas with the fewest distances walked can be found towards the south of the borough which are less densely populated as a result of lower levels of development. The planned development in Beam Park and Rainham may result in greater distances being walked especially if developments are at a higher density and/ or car free.



Source: TfL Cityplanner

- 2.4.16. Walking and cycling are important for disabled people, who with the help of improved walking and cycling environments, consideration for wheelchair use and adapted cycles and more accessible public transport can realise the all-round health benefits active travel can provide. Within its Programme of Investment, Havering has included proposals to review access arrangements into all parks and open spaces with a view to delivering improvements to ensure they are accessible for all users.
- 2.4.17. The Hornchurch Town Centre Major Scheme is an example of a TfL funded scheme that has been delivered in Havering to support a number of the healthy streets indicators. The scheme provides for a section of Hornchurch High Street in Hornchurch Town Centre becoming more pedestrian friendly with traffic speeds reduced, improved paving and lighting as well as informal crossing points to make the area easier to navigate.
- 2.4.18. Additionally, in recent years the Council has introduced Heritage walks in Romford, Havering-atte-bower and Rainham which take

residents and visitors through 'places of interest' in Havering. The Council has introduced similar cycle routes which allow cyclists to explore the heritage of Gidea Park and the Ingrebourne Valley.

#### Outcome 2: London's streets will be safe and secure

- 2.4.19. Outcome 2 of the MTS falls within the 'healthy streets and healthy people' priority area for action, and proposes 'Vision Zero' whereby deaths and serious injuries from all road collisions are to be eliminated from London's streets by 2041.
- 2.4.20. A series of intermediate outcome indicators have been set by TfL to monitor progress over the long term period, and ensure Vison Zero can be achieved by 2041. These are:
  - Short term a 65 per cent reduction in the number of KSIs on London's streets by 2022 (against 2005-09 levels)
  - Medium term a 70 per cent reduction in the number of KSIs on London's streets by 2030 (against 2010-14 levels)
  - Long term zero deaths and injuries from road collisions by 2041
- 2.4.21. The Mayor says that the approach to achieving these milestone targets and end goal of Vision Zero will focus on reducing road danger alongside the reduction and eventual elimination of road casualties. This will be implemented through providing safer streets where people feel safe walking, cycling and using public transport. Issues such as speeding, unsafe behaviour (from vehicles and infrastructure), and providing improved security (through reduced crime and fear of crime) will be addressed. Behaviour change will be an equally important part of implementing the Vision Zero approach. It will be vital to engage with key road users groups in working to reduce road danger on London's streets.
- 2.4.22. Road safety related measures feature prominently in Havering's proposed 2019/20 ASS and POI. These include a casualty reduction programme specifically to tackle KSI rates at locations across Havering, Road Safety Education and Training and Publicity programmes alongside measures to improve safety outside schools through STP engineering measures. Havering's Local Plan and Infrastructure Delivery Plan both identify schemes for the medium to long term which will support the delivery of outcome 2 in the MTS. Further information can be found in *The Delivery Plan* section of this document.

## Challenges and opportunities

### Road Safety Education and Training and Publicity programmes

- 2.4.23. The Road Safety Education programme will deliver a series of educational and awareness raising initiatives to minimise road collisions and reduce the number of people killed and injured on Havering's roads.
- 2.4.24. This is provided through ongoing LIP funding from TfL, specifically targeting vulnerable road users such as pedestrians (with particular risk to children aged 11 13 years) and young drivers aged 17 25 years (identified as 7 per cent of licence holders but 18 per cent of reported collisions).
- 2.4.25. Havering's POI includes £90,000 allocated per annum to deliver a variety of road safety educational messages across Havering, both in schools and to the wider general public. Measures include 'In Car' safety seat checks, the Junior Road Safety Officer scheme, Junior Travel Ambassador scheme, Theatre in Education productions, and the annual Safe Drive Stay Alive event.
- 2.4.26. The 2017/18 Road Safety Education and Training and Publicity programmes delivered a total of 137 Theatre in Education productions to over 13,000 pupils. The Safe Drive Stay Alive event was delivered to all 18 secondary schools and almost 3,000 pupils.

### School Public Space Protection Orders (PSPO)

- 2.4.27. Havering has introduced Public Space Protection Orders (PSPOs) around four local primary and infant schools in recent years to prevent illegal parking when dropping-off and picking-up children. To date, Havering has issued 483 Fixed Penalty Notices' around the schools that are currently in the PSPO programme.
- 2.4.28. This has been implemented to help keep children safe during their journey to and from school, and to encourage people to park responsibly and put the safety of children first. This is enforced during the peak period for children arriving to or leaving schools between 8:00am to 09.30am and 2.30pm to 4:00pm. CCTV cameras and automatic number plate recognition software is also in use during these hours.

#### Tackling collision rates in

- 2.4.29. Analysis with regards to the location of KSI incidents across Havering identifies only a relatively small proportion occur on nonborough roads, as shown in Figure 11 below.
- 2.4.30. The graph shows that even in combination, Highways England and TLRN roads account for 21 – 26 per cent of all KSIs incidents across Havering between 2015 and 2022 (as projected for future years). In comparison, borough roads account for over 75 per cent of all KSIs incidents on average, across this analysis period.

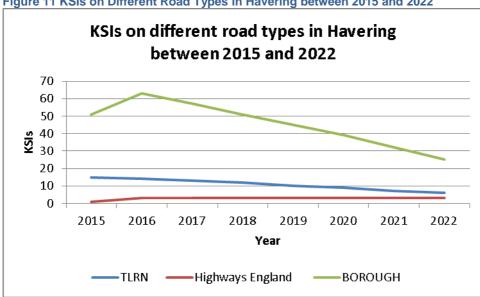


Figure 11 KSIs on Different Road Types in Havering between 2015 and 2022

#### Source: LBH Street Managent

In Havering's 2019/20 ASS, over £700,000 has been allocated 2.4.31. specifically to deliver measures to support Vision Zero. This equates to 37 per cent of Havering's indicative LIP3 allocation for 2019/20. Vision Zero is a significant challenge for Havering and substantial investment will be needed to achieve this target, through the provision of preventative measures and long term safety solutions.

#### Havering's Casualty Reduction programme

2.4.32. Havering will continue to deliver schemes aimed at reducing KSI's through its LIP funding. The aim of the Casualty Reduction programme is to deliver a package of casualty reduction measures at

collision 'hotspots' (areas experiencing the highest level of KSI incidents) across Havering to improve overall road safety.

- 2.4.33. The POI will include a rolling Casualty Reduction programme so that particular 'hotspots' with the highest KSI rates can continue to be tackled across Havering, with a focus around schools and in built up locations.
- 2.4.34. Feasibility work is initially carried out at the 'hotspot' locations identified, to determine the nature of the incidents and the mitigation measures required. These range from improved street lighting, pedestrian crossing points, and traffic calming measures.
- 2.4.35. The benefits of delivering casualty reduction programmes can be seen in TfL's Traffic Accident Diary System (TADS) data which shows KSI levels before and after a scheme has been implemented. Table 3 below shows, schemes which have been delivered through Havering's LIP programme. They have shown significant benefits (across a 36 month comparison period) with regard to the safety of the road network, and they have resulted in a notable reduction in KSI incidents. The reduction in collisions following implementation of the Hornchurch Major Scheme is a significant outcome.

Location	Scheme Measures	Date	Cols Before	Cols After	% Change
South Havering (Rainham Road)	-Pedestrian facilities -Lighting -Signs & road markings	2012	10	3	-70%
Collier Row (Mawney Road and White Hart Lane)	-Parking restrictions -Traffic calming -Carriageway resurfacing	2012	13	3	-77%
Hornchurch (Wingletye Lane)	-Pedestrian facilities -Lighting -Signs & road markings -Vehicle channelisation	2013	5	1	-80%
Hornchurch (Hornchurch Road)	-Pedestrian facilities -Signs & road markings -Vehicle channelisation	2013	5	1	-80%

#### Table 3 Previous LIP scheme details in Havering

Location	Scheme Measures	Date	Cols Before	Cols After	% Change
Hornchurch Town Centre Phase 1	-Lighting -Traffic calming -Vehicle channelisation	2012	11	6	-45%
Hornchurch Town Centre Phase 2	-Carriageway resurfacing -Street Furniture resitting -Cycle lane -Footway widening	2013	12	8	-33%

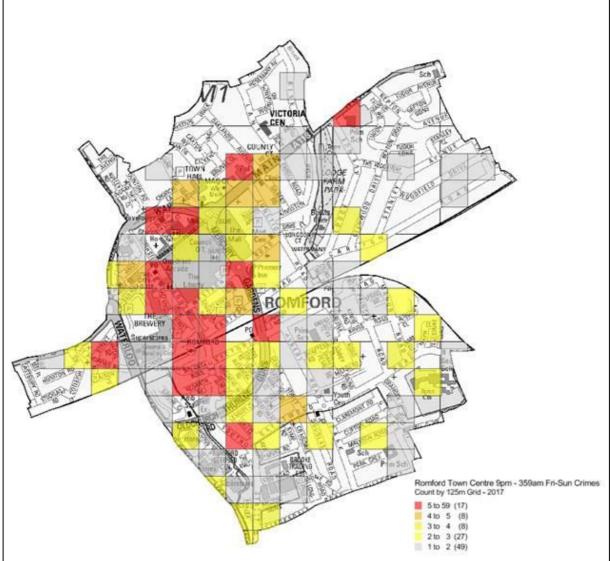
- 2.4.36. TfL have provided data on selected Havering schemes from 2012 up to the end of September 2017. A reduction of 26 per cent in KSIs was identified, across all the TADS schemes implemented over this given period. A total of 172 collisions were recorded before implementation, and 127 collisions were recorded after implementation of the schemes.
- 2.4.37. Several locations have been identified for casualty reduction measures as part of the LIP3 POI, based on the current KSI rates across Havering:
  - Collier Row Road
  - Arfield Way/Suttons Lane
  - North Streets
  - Rainham Road
  - Hilldene Avenue
- 2.4.38. Additional traffic calming schemes have been identified across Havering, in particular through Havering village, and at Belgrave Avenue and Upper Brentwood Road in Squirrels Heath. Mitigation against increased traffic volumes are proposed to improve safety for vehicles exiting The Mount at its junction, with Noak Hill and Straight Road in Harold Hill, with a suitable pedestrian crossing point. Improved pedestrian crossing facilities are proposed on St Clements Avenue.

## Tackling crime

- 2.4.39. Havering was ranked 9th safest borough in London in 2017 (improving from 10th in 2016) in terms of rate of total recorded crime per 1,000 residents (74.8 in Havering compared to 94.4 regionally).
- 2.4.40. British Transport Police (BTP) and TfL have both seen a rise in criminal reports in, and around, Romford transport hubs, with an increase

of 5.5 per cent and 12 per cent respectively, between 2016/17 and 2017/18. A large proportion of incidents in Romford are linked to the night time economy, with a number of 'hotspots' around the transport hubs particularly between 9:00pm – 4:00am Friday, Saturday and Sundays (Figure 12 below).





Source: Havering Community Safety team

- 2.4.41. A range of groups (including the BTP and the Metropolitan Police) are in a partnership to tackle crime and disorder.
- 2.4.42. Havering will continue to work towards reducing risk and harm to local communities. Havering recognises the limited resources currently available and, it will continue to work in partnership with the Police to

maximise the efficient use of resources. Collaborative working, sharing knowledge of, and replicating good practice and being data driven and intelligence focused will lead this approach to, provide a managed and accountable delivery structure.

- 2.4.43. Some issues are linked to the night time economy. Safety improvements to the public realm (in particular town centre and transport interchange locations) will be provided through a variety of schemes, including improved street lighting and natural surveillance to reduce the fear of crime and encourage people to walk and cycle.
- 2.4.44. A Taxi Marshall scheme operates in Romford Town Centre between 10.30pm to 3.30am on a Friday and Saturday. Taxi marshals organise passenger and taxi queues and, provides assurance to people waiting for a taxi. The marshals have a town link radio and are linked to the central CCTV room and Romford's night time economy.
- 2.4.45. The Night Tsar (who champions the value of London's night time culture whilst developing and diversifying London's night time economy) is introducing a women's Charter on safer travel at night.

### Fear of crime

- 2.4.46. The <u>Havering Community Safety Partnership Plan</u> outlines, crime, disorder and fear of crime rank very highly in a list of public concerns amongst local residents and amongst the wider community that work and visit Havering. Havering faces tough challenges each year in improving community safety, and this is made more difficult by the challenging climate.
- 2.4.47. An Annual Strategic Assessment evaluates the progress towards priorities set out in the <u>Community Safety Partnership Plan</u>. It has identified a key cross-cutting area to improve community engagement and public confidence. This is to enable communities to report and receive information, as well as being part of potential solutions. This will also help to close the gap between perceptions of crime and actual levels of crime in the borough.
- 2.4.48. There is robust enforcement of the schemes implemented. A key feature is ensuring that the public are aware that a no tolerance approach is taken and also the visible presence of partners highlights that action is on-going to keep residents and visitors safe within Havering.

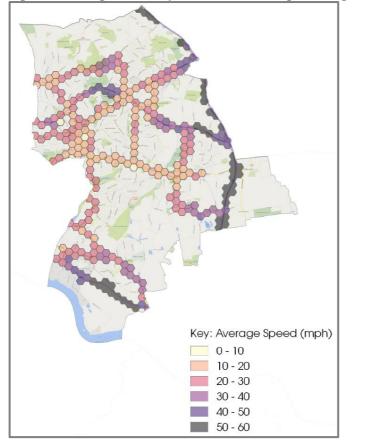
Outcome 3: London's streets will be used more efficiently and have less traffic on them

- 2.4.49. The Mayor has identified traffic reduction as an important element in achieving his overarching modal shift target aim. Key mayoral outcome indicators that boroughs are required to work towards within this LIP3 are to reduce the volume of traffic in London and reduce car ownership. Further information can be found in *The Delivery Plan* section of this document.
- 2.4.50. A key aspiration for the Mayor is tackling freight and reducing the amount of freight being transported by road because lorries and vans account for around one fifth of road traffic in London. The MTS identifies that 90 per cent of freight trips and the majority of servicing trips are carried out by road with rail and water carrying the reminder. The MTS sets out its plans to increase the amount of freight trips utilising the river or rail network. Proposal 16 of the MTS commits the Mayor to working with boroughs and other stakeholders to increasing the proportion of freight moved on London's waterways.
- 2.4.51. In recent years (and, in particular, since the 2012 Olympics) TfL have worked with boroughs to encourage businesses to 'retime deliveries'. In addition, across London a number of businesses (such as supermarket stores) have undertaken trials for retiming deliveries to the off peak periods of the day. Reducing the number and impact of freight and servicing trips on London's streets is promoted as part of <u>TfL's</u> <u>Retiming Programme</u>, and will require close partnership working between freight industry, BIDs individuals businesses, boroughs etc.
- 2.4.52. The Mayor has also committed to support the Port of London Authority and the Canal River Trust to identify the wharves and piers that have the most potential to support modal shift of freight from the road to river.
- 2.4.53. Havering's POI sets out schemes and broad investment categories that look to contribute to the aim of reducing traffic on London's streets and implementing this locally. It includes substantial investment in sustainable travel measures including behaviours change initiatives, schemes to encourage people to travel to and from school or work sustainably through STP's, and transformational schemes to support new development in Havering's Strategic Development Areas that will provide residents with alternative options to travel other than using a car. Further information can be found in *The Delivery Plan* section of this document.

## Challenges and opportunities

#### Traffic volumes

- 2.4.54. Data from the Department for Transport (DfT) traffic statistics, together with Havering's own traffic count data shows that traffic volumes across the borough are increasing each year. This is to be expected given the lack of alternative public transport options for internal journeys in the borough. Havering carries out Automated Traffic Counts (ATCs) at 69 locations across the borough and data between 2011 and 2016 showed an overall increase in average weekday traffic volumes across the borough wide network had decreased by 0.2 mph between 2011 and 2016.
- 2.4.55. Figure 13 demonstrates the average speeds across Havering's road network. The lowest average speed can be seen along the A124. This east to west route is often used by commuters travelling into Havering, parking and using the rail network to access central London resulting in heavy congestion and lower speeds.



#### Figure 13 Average vehicle Speed across Havering's Strategic Road Network (mph)

#### Source:TfL Cityplanner

2.4.56. Havering will look to procure permanent traffic counts at locations across the Strategic Road Network in 2018/19 to improve data on traffic movements across the road network..

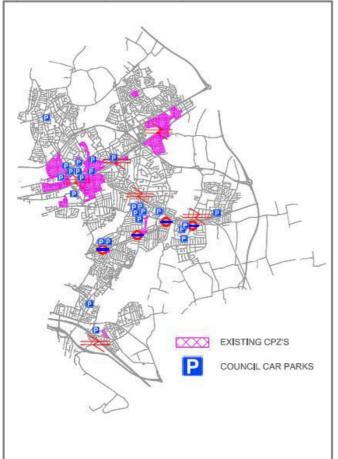
### Controlled Parking Zones

- 2.4.57. Controlled Parking Zones (CPZs) are identified in the MTS as a key tool for tackling excessive traffic and boroughs are encouraged to identify new CPZs and/or extend the operation of existing ones.
- 2.4.58. Havering has increased CPZ coverage across the borough year on year. The need for controlled parking has been driven by public demand and CPZs are delivered with the support of local ward Councillors. Last year Havering introduced 10 new CPZs. The trend is to introduce these where parking demand is the highest, around transport hubs, shopping areas and areas of high density housing.
- 2.4.59. The introduction of CPZs across the borough has had a positive impact on air quality and road safety as roads where CPZs are introduced

tend to have fewer vehicle movements and roads are less frequently parked on.

2.4.60. Figure 14 below shows the existing CPZs located in the borough. Using previous LIP funding a review of CPZs is currently taking place. Consideration will then be given whether or not to expand the level of CPZ coverage across Havering.

Figure 14 Existing CPZ coverage across





Increasing the use of the river more for freight

2.4.61. Several wharves are located in the south of Havering. Some are active (such as Veolia which is operated privately) whilst others are not (such as Phoenix Wharf and Halfway Wharf). Havering continues to support the safeguarding that is currently in place at these wharves as there is the potential for them to be used in the future (subject to substantial investment being made into the wharf infrastructure itself).

- 2.4.62. Havering supports the Mayor's aspiration for greater use of the river for passenger transport as well as freight and emphasised this when it responded to the draft MTS.
- 2.4.63. The retention of safeguarding both Phoenix Wharf and Halfway Wharf is appropriate, having regard to their potential to encourage greater use of river freight, promote aspirations for passenger services to be extended from Central London to Havering, support significant regeneration opportunities and commercial expansion (through the implementation and investment in the 'Heathrow Logistics Hub' and 'Business Improvement District' (BID) in Rainham), and align with a number of adopted and proposed national and local policies.
- 2.4.64. Havering's response to the Mayor's Transport Strategy (MTS), supported the proposal for increased use of the river Thames for freight and passenger transport, and this will be better implemented through safeguarding both Phoenix Wharf and Halfway Wharf.
- 2.4.65. The MTS identifies that an increase in river freight services will provide opportunities to serve developments on the river and to help reduce freight traffic on the road network. This aligns with MTS Proposal 15, to reduce the adverse impacts of freight and service vehicles on the street network, and MTS Proposal 16, to improve the efficiency of freight and servicing trips on London's strategic transport network through increasing the proportion of freight moved on London's waterways. Havering's MTS response agreed that where practical, freight should be moved off London's streets and onto the rail network and onto the River Thames.

### Outcome 4: London's streets will be clean and green

- 2.4.66. Achieving the Mayor's aim to improve air quality and reduce carbon emissions will require modal shift across London. It will also require older vehicles to be taken off London's streets and replaced with fewer, newer, cleaner vehicles. The Mayor's ambition in the MTS is for a 'zero carbon' city by 2050. This will require transforming the vehicle fleet and, utilising, electrification and zero carbon technologies supported by infrastructure and energy management systems.
- 2.4.67. In the short- to medium-term, LIP3 must have a particular focus on action to reduce air pollution, reducing exposure to it and tackling pollution hotspots.

## Challenges and opportunities

#### Air Quality Action Plan (AQAP)

- 2.4.68. In June 2018, Havering adopted an Air Quality Action Plan (AQAP). It outlines the actions Havering will take to improve air quality in the borough between 2018 and 2023. It aims to improve air quality in Havering and explains air pollution, its effects on human health, the current status of air quality in Havering, sources of pollution and sets out, current Council practices, policies, vision, priorities and future actions with regard to improving air quality.
- 2.4.69. The greatest contributor to Nitrogen Oxide (NO<sub>2</sub>) emissions in Havering is road transport which accounts for almost 70% of all emissions. A key action within the AQAP is to reduce the air quality impact of the Council's own vehicle fleet, as well as to support businesses to reduce their own air quality impact. Several vehicles in the Councils fleet are electric. The Council will undertake a feasibility study of delivering EV charging infrastructure in Havering. The study will include an assessment of demand for such provision and is expected to be completed by the end of the 2018/19 financial year.
- 2.4.70. The AQAP also aims to increase awareness, knowledge and understanding of air quality and help everyone who lives, commutes or works in Havering to reduce their own exposure as well as to improve local air quality.

### Low Emission Zone / Ultra Low Emission Zone

- 2.4.71. The Low Emission Zone (LEZ) covers most of Greater London and operates 24 hours a day, each day of the year. It was introduced in 2008 to encourage the most polluting heavy diesel vehicles driving in the capital to become cleaner.
- 2.4.72. To further help improve air quality, an Ultra-Low Emission Zone (ULEZ) will be in place in central London from April 2019. Most vehicles including cars and vans will need to meet new, tighter exhaust emission standards (ULEZ standards) or pay a daily charge to travel within the area of the ULEZ.
- 2.4.73. The ULEZ does not operate in Havering. Havering nevertheless has supported the ULEZ expansion in principle. Havering has highlighted the importance of businesses being well prepared for the implementation of the ULEZ. An effective engagement and communications plan is in

place to ensure small businesses are aware of 'the ramifications the plan has for their businesses'.

2.4.74. Havering is exploring options for delivering its own low emission surcharge on the most polluting vehicles operating within the borough. A study is expected to be carried out later this year looking at the options that would be available to deliver such an initiative locally.

## Miles the Mole air quality campaign

- 2.4.75. In 2016, Havering launched an air quality campaign with an air quality mascot called *Miles the Mole*. The mascot and with the wider campaign has highlighted issues with air quality.
- 2.4.76. In the campaign, by means of an animation, the character travels across Havering discovering the reasons for poor air quality and the scope for individuals to help themselves and others improve the air they breathe. The animation is used widely in schools, a local hospital and elsewhere to deliver four key messages of 'Turn off your Engine', 'Walk or Cycle', 'Play Outside', and 'Grow Things'. The campaign has delivered extensive and bespoke Theatre in Education in schools, along with curriculum based resources.
- 2.4.77. The character at the heart of the campaign has made many guest 'appearances'. It has attended hospitals, the Havering Show and has led specific school campaigns where schools had air quality issues. The campaign has been commended by TfL and the Mayor's office and was a finalist in the National Air Quality Awards in 2017.
- 2.4.78. Havering Schools have responded very positively to the campaign and in its first year (2016/17) the campaign delivered on many fronts including:
  - 57 Primary/Junior schools were sent campaign packs contained a video, anti-idling banners, posters and lessons plans;
  - 26 schools carried out further Miles the Moles campaigns to the whole school community;
  - 37 Primary/Junior schools Year 6 pupils saw the Theatre In Education production – approx. 2200;
  - 90 per cent of all the schools that have run campaigns have shown a positive shift away from the car across all car modes;
  - 2,000 pupils and 3,000 staff took part on the campaign; and
  - 40 schools saw the animation and accessed the curriculum based resource totalling 2,360 year 6 pupils across the 2017/18 financial year

- 2.4.79. Prior to these events, school were encouraged to publicise the information and, sent out communications in newsletters to reinforce the messages. Specific school assemblies emphasised the four steps that everyone can take. Some schools created gardens and, one was officially opened by Miles re-iterating the *grow things* message. The campaign has encouraged schools to run bespoke poster and banner competitions to encourage children to remember the campaign messages. Lesson plans encouraged schools to take part in National Clean Air Day and part of the campaign is to ensuring school coaches switch off their engines when stationary.
- 2.4.80. Further information on the Council's Air Quality Campaign can be found on the <u>Air Quality page</u> of the Havering website.

## Air quality 'hotspots'

- 2.4.81. Poor air quality is a national issue, but particularly in London where 9,000 deaths a year are cited as being directly attributed to poor air quality. Several of London's streets have air quality issues which are contributing to increasing premature deaths of Londoners.
- 2.4.82. Havering was declared an Air Quality Management Area in 2006 due to the levels of NO<sub>2</sub> and Particular Matter 10 (PM<sub>10</sub>) not meeting air quality objectives in many parts of the borough.
- 2.4.83. According to the London Atmospheric Emissions Inventory (LAEI) 2013, motor vehicles are the largest contributor to Nitrogen Oxide (NOx), PM<sub>10</sub> and Particular Matter 2.5 (PM<sub>2.5</sub>) emissions in Havering domestic gas, Non Road Mobile Machinery (NRMM) and industry have also been identified amongst the key contributors to air pollution.
- 2.4.84. There are many areas in Havering with good air quality based on the data collected by its air quality monitoring network. In contrast there also some 'hotspots' of poor air quality which need to be addressed.
- 2.4.85. The GLA has designated 'Air Quality Focus Areas' across London, which are locations identified as being in need of significant investment to improve air quality. Three Air Quality Focus Areas have been identified in Havering; Romford Town Centre and Roneo Corner, A124 Rush Green Road and Broadway in Rainham. Additionally, Gallows Corner (which is operated by TfL) is also a location in Havering with poor air quality.

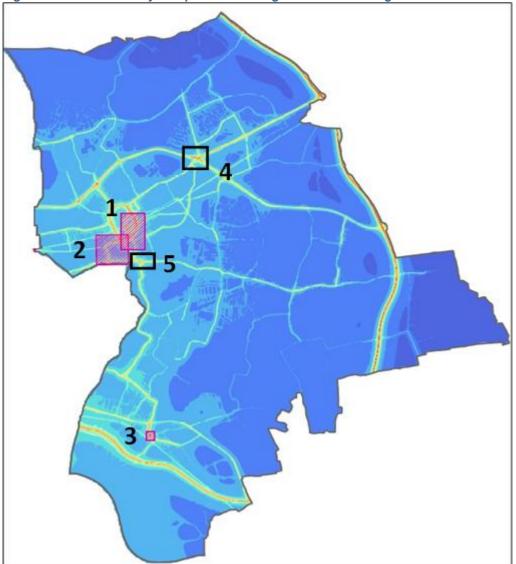


Figure 15 Local Air Quality Hotspots in Havering – Source: Havering AQAP

- 1. Romford Town Centre Thurloe Gardens
- 2. Romford/Rush Green A124 Rush Green Road and Rom Valley Way
- 3. Rainham Broadway
- 4. Gallows Corner
- 5. Roneo Corner

#### Local issues and challenges - NO2 and PM10 concentrations

2.4.86. The predicted concentrations of annual mean  $NO_2$ ,  $PM_{10}$  and  $PM_{2.5}$  for 2013 and 2020 for Havering area are shown in Figure 16 to Figure 21 using the data from the LAEI 2013 update. Higher concentrations of  $NO_2$ , and to a lesser extent of  $PM_{10}$  and  $PM_{2.5}$  are identified at locations along key transport routes (A13, A12, M25,

Romford Ring Road and the A1306), which have been linked to emissions from motor vehicles (buses, HGVs and cars).

2.4.87. The predicted concentrations of NO<sub>2</sub>,  $PM_{10}$  and  $PM_{2.5}$  for 2020 will decrease based on the LAEI2013 future projections. However, there will still be exceedances of the NO<sub>2</sub> national objective along key highway routes.

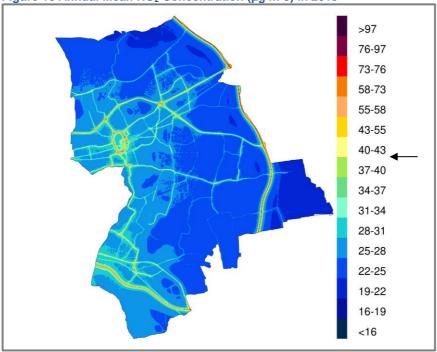


Figure 16 Annual Mean NO<sub>2</sub> Concentration (µg m-3) in 2013

Source: Havering Air Quality Action Plan

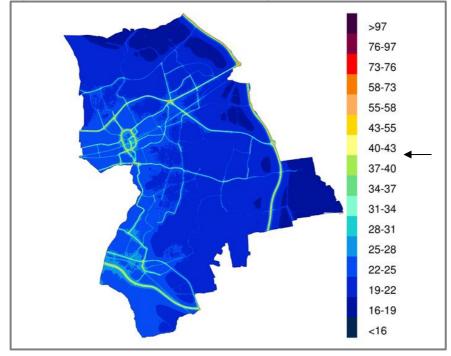
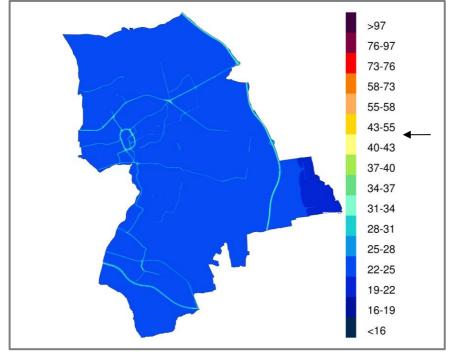


Figure 17 Annual Mean NO<sub>2</sub> Concentration (µg m-3) in 2020

Source – Havering AQAP

Figure 18 Annual Mean PM<sub>10</sub> Concentration (µg m-3) in 2013 – Source: Havering AQAP



#### Source – Havering AQAP

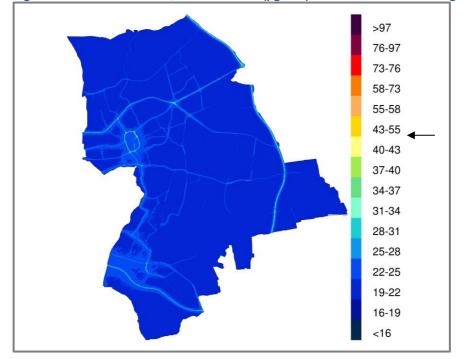
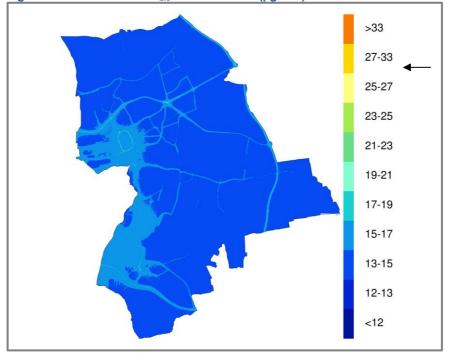


Figure 19 Annual Mean PM<sub>10</sub> Concentration (µg m-3) in 2020- Source Havering AQAP

Figure 20 Annual Mean PM<sub>2.5</sub> Concentration (µg m-3) in 2013 – Source Havering AQAP



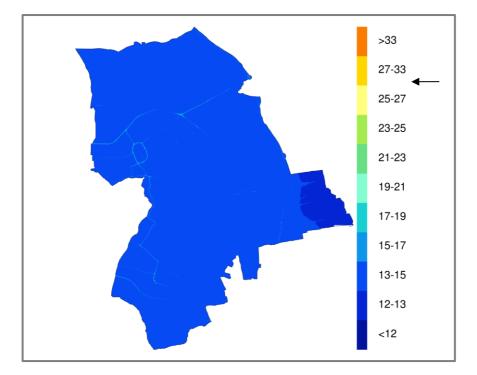


Figure 21 Annual Mean PM<sub>2.5</sub> Concentration (µg m-3) in 2020 – Source Havering AQAP

#### Source - Havering AQAP

#### Outcome 5: The public transport network will meet the needs of a growing London

- 2.4.88. The MTS recognises that London's public transport network will need developing to meet the needs of a growing London. The MTS sets out policies and proposals to improve Londoners' public transport experience and achieve modal shift away from the car by improving public transport efficiency and accessibility and reducing crowding. An indicator of this outcome is the ability for the public transport network to accommodate 15 million trips every day by 2041. Accommodating the transport needs of a growing London is further complicated by the fact that during the lifetime of the MTS an additional 66,000 homes per annum will need to be built.
- 2.4.89. A significant proportion of public transport trips start and end on borough roads. 95 per cent of roads in the capital are operated and maintained by London Boroughs. Taking a 'whole journey' approach will require boroughs and TfL to work together to enhance the whole journey experience.
- 2.4.90. Although TfL has the primary responsibility for the delivery of this, boroughs should use the Healthy Streets Approach to deliver

complementary public transport and street improvements, and to provide an attractive whole journey experience that will facilitate mode shift away from the car.

## **Challenges and opportunities**

#### Responsibility for the public transport network

- 2.4.91. The public transport network in Havering (and indeed London as a whole) is complex, with different organisations responsible for operation and maintenance of different strands of the network. TfL is responsible for the majority of the public transport network in Havering including, London Overground, London Underground, the bus network, and TfL Rail services etc. Maintenance of both the Great Eastern Mainline and Essex Thameside Railway line is the responsibility of Network Rail. This presents challenges and limitations for boroughs to deliver on this outcome. However, Havering has several aspirations for securing strategic improvements to the public transport network to support growth in the borough and these, which will continue to be championed.
- 2.4.92. Many of these improvements are set out in Havering's Local Plan Proposed Submission (Table 3 Chapter 10 Connections) and table 7.2 of the Infrastructure Delivery Plan (IDP) which supports the Local Plan. Further information on these aspirations can also be found in The Delivery Plan section this document.

### The Elizabeth line

- 2.4.93. As mentioned previously in the *Changing the transport mix* section, the Crossrail Elizabeth line will improve Havering's public transport connectivity to other parts of the network.
- 2.4.94. The Elizabeth line will operate a frequent and reliable service and has the potential to help achieve modal shift away from the car. During peak hours, there will be:
  - 12 trains per hour serving Harold Wood, Gidea Park and Romford terminating at Paddington
  - 4 trains per hour serving Gidea Park and Romford terminating at Liverpool Street
- 2.4.95. With the introduction of the Elizabeth line through Havering, there has been funding allocated to deliver improvements within the vicinity of Romford, Gidea Park and Harold Wood stations. As part of

TfL's Crossrail Complementary Measures (CCM) programme, £4.6m has been allocated to public realm and access enhancements and these works are underway. These measures are designed to encourage the use of public transport and make it accessible for everybody.

#### Improved north-south connectivity

- 2.4.96. Havering's ability to increase its reliance on public transport is heavily constrained by its poor north-south connectivity particularly in terms of public transport linkages. There is very limited bus connectivity between the north of Havering (such as Romford and Harold Hill) and Rainham in the south. This is a major concern having regard to these areas being identified for major growth in the Council's planning and regeneration strategies such as the Havering Local Plan.
- 2.4.97. Currently, there is only one bus route (no 174) from Harold Hill to Rainham and Beam Park. Between 06:00 and 20:00 there is a service on this route every 6-10 minutes and outside these hours there are four services per hour. There is also a bus service between Collier Row and Rainham (no 365). Between 06:00 and 19:00 there is a service on this route every 10-14 minutes and outside these hours there are three services per hour.
- 2.4.98. Connections between Romford and Rainham comprise services between Romford and north Romford and Rainham (Nos 165 and 103, respectively). Between 07:00 and 18:00 there is a service every 8-10 minutes and outside these hours there are three- four services per hour.
- 2.4.99. These circumstances are reflected in the significant use of private cars for many between the north and south of Havering. Havering's Local Plan Proposed Submission sets out its strategic transport aspirations in Policy 23 *Connections*, which includes improvements to north-south connections to support the delivery of the two Housing Zones in Romford, and Rainham and Beam Park. Further information can be found in *The Delivery Plan* section of this document.
- 2.4.100. The Council has commissioned work looking at the potential uplift in residential and commercial units which could be brought about by a new north-south public transport connection across the borough. The potential corridor highlighted in Figure 22 serves the borough's Housing Zones and Strategic Development Areas (SDA'S). The scheme has the potential to provide enhanced connectivity and accessibility for residents and businesses in these areas and along the route.

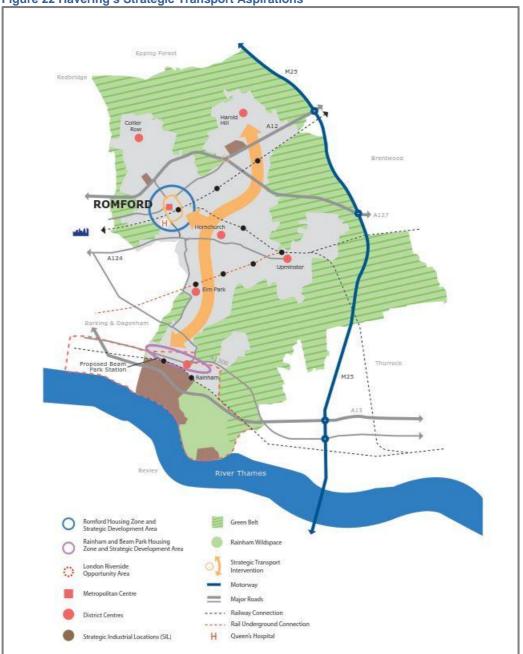


Figure 22 Havering's Strategic Transport Aspirations



#### Outcome 6: Public transport will be safe, affordable and accessible to all

2.4.102. Chapter 4 of the MTS sets outs the Mayor's aspirations for making public transport safe, affordable and accessible for all, working collaboratively with boroughs, DfT Network Rail and other stakeholders to

eliminate deaths and serious injuries from transport services, setting fares that are affordable for all Londoners and seeking to make the public transport network easier and more pleasant to use.

- 2.4.103. For public transport safe, affordable and accessible it must be inclusive. This is important when delivering a better journey experience for disabled people and the growing number of older people. This is particularly critical for Havering because it has a large elderly population that is expected to be one of the fastest growing demographic groups in the community in the coming years. Catering for a growing elderly population is reflected in the borough transport objectives that have been set out, in particular objective 5 to 'ensure that the needs of the less mobile are prioritised when delivering public realm improvements and better streets'.
- 2.4.104. Transport for London (TfL) take the strategic lead for transport and is largely responsible for public transport across London. Whilst the operation and maintenance of services on the Docklands Light Railway (DLR), bus network, London Underground, and suburban rail (London Overground, TfL Rail) fall under the responsibility of TfL, local authorities play an important role in ensuring that the beginning or the end of the customer journey experience is safe and accessible. For example, passengers alighting at Romford station may then have to walk 15 minutes to get to their destination. Ensuring safe and accessible walking routes falls under the authorities of a local borough.

## Challenges and opportunities

Growing number of residents with transport mobility issues

- 2.4.105. Many Havering residents experience mobility impairments and disabilities that impact adversely on their ability to travel independently. These include reduced mobility, mental health problems, visual or hearing impairments. Each of these poses different barriers to using public transport.
- 2.4.106. It is expected that the number of residents with reduced mobility will increase as the borough's population and number of residents over 65 continues to grow. The GLA's <u>Accessibility of the transport network (2010)</u> projects that the number of residents with reduced transport mobility will increase by 16.3 per cent between 2018 and 2031.
- 2.4.107. The public transport network will need to support Havering's growing population of not only disabled residents but also of families and young people.

#### Step-free station access

- 2.4.108. 'Step-free' stations are an integral element of an accessible transport network. A 'step-free station' is one where it is possible for users to move from the street to any of the platforms without using steps. At a step-free interchange it is also possible to move between platforms without using steps.
- 2.4.109. All of Havering's Crossrail stations are being adapted to be 'stepfree'. Crossrail Elizabeth line trains will have dedicated and clearly distinguished priority seats and space for wheelchairs. Each carriage will provide visual and audio information about the train's journey and a facility to alert and speak to the driver in an emergency. Drivers will also be able to view CCTV images of all carriage interiors. The Council is continuing to work with , Train Operating Companies (TOC's) TfL and Network Rail to lobby for step free access at the stations at Hornchurch, Rainham, Upminster (Platform 6) and Upminster Bridge.

## Accessible bus stops

2.4.110. Table 4 (below) shows that, almost all (96%) of Havering's nearly 700 bus stops meet TfL's standards for accessibility.

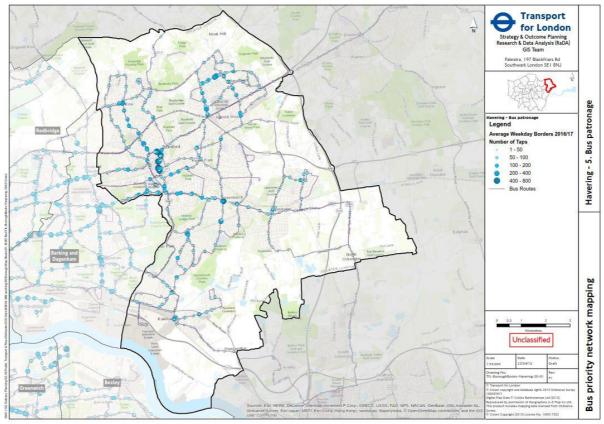
Total Number Of Bus Stops	Owner		PI Met		PI Not Met		
	Borough	TfL TLRN	Private	Number	%	Number	%
696	668	20	8	667	96	29	4

 Table 4 Havering Bus Stop Accessibility Levels

2.4.111. The remainder do not meet the accessibility standards because they lack one or more of the following:

- A suitable kerb height to enable access for mobility impaired persons (in combination with low-floor bus equipped with access ramp)
- Clearway markings and time plates to prevent obstructive parking and enable buses to manoeuvre close to the kerb
- Removal of footway obstructions at the boarding and alighting areas

- 2.4.112. The Council intends to ensure that all bus stops become stepfree by means of further works funded throughout its Programme of Investment.
- 2.4.113. The bus stop accessibility programme aligns with Policy 13 and Policy 15 of the MTS, making public transport networks easier to use, enabling customers to enjoy confident and safe travel, through the provision of accessible, comfortable and convenient travel by public transport.
- 2.4.114. Figure 23 illustrates high levels of patronage within built-up areas, including Collier Row, Harold Hill, Harold Wood, Hornchurch, Elm Park, Rainham and Romford.
- 2.4.115. Bus patronage is highest close to Romford Town Centre, and in the surrounding urban areas. It decreases away from Romford, particularly towards the south and east of Havering, where bus services (stops and routes) are more limited. This reflects the challenges for Havering residents in the south of the borough face when they try to make local journeys by public transport.



#### Figure 23 average weekday bus boarders (2016/17) Source: TfL Cityplanner

#### Source: Transport for London

#### **Concessionary passes**

- 2.4.116. It is difficult for Havering to influence the cost of travel as the affordability of Havering's public transport network is largely controlled by TfL. However, Havering will continue to support the Freedom Pass, disabled persons Freedom Pass and Zip Oyster photocard scheme. Passengers may be eligible for a Freedom Pass if they:
  - Live in a London Borough and
  - Meet the specific age criteria, or
  - Have an eligible disability
- 2.4.117. The Freedom Pass provides passengers free (within specified times) travel across London and free local bus journeys across the rest of the country. The disabled persons Freedom Pass allows free travel across London and free bus journeys nationally. The scheme is funded by local authorities but operated by London Councils. It can be used

between 09:30 and 23:00 on weekdays and at any time on weekends and public holidays.

2.4.118. The <u>Zip Oyster photocard</u> operates three different schemes dependent on the child's age.

Outcome 7: Journeys by public transport will be pleasant, fast and reliable

- 2.4.119. Outcome 7 of the MTS falls within the 'good transport experience' priority area for action and proposes the delivery of improvements in bus journey time reliability, with bus priority improvement projects.
- 2.4.120. The overall target defines improvements in bus speeds of approximately 5 per cent to 15 per cent London-wide by 2041. In the case of Havering, this equates to a targeted speed of 12.7mph to 13.9mph (for a 5 per cent to 15 per cent increase respectively) compared to 12.1mph, as observed in the 2015 base year.
- 2.4.121. Improved journey times and increased capacity for rail services are also targeted under Outcome 7. Responsibility for these is primarily with TfL and train operating companies but the Mayor expects, objectives and measures to improve access to interchanges to be considered within the LIP3s, to assist in transforming London's rail based services.
- 2.4.122. Havering has a number of strategic public transport schemes presented within the LIP3 POI for the short term, and the Local Plan Proposed Submission and the IDP for the medium to long term, to support the delivery of outcome 7 in the MTS. Further information can be found in *The Delivery Plan* section of this document.

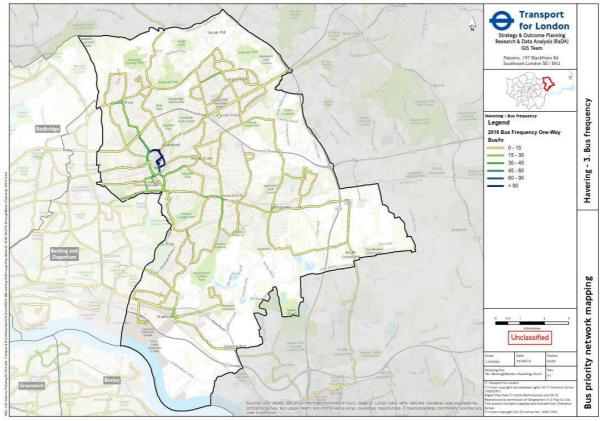
## **Challenges and opportunities**

### Travel by mode in Havering

- 2.4.123. TfL's 'Travel in London' Report identifies that only 13 per cent of journeys originating in Havering are made by bus. This compares to an average of 15 per cent for outer London and 17 per cent for inner London.
- 2.4.124. The lack of suitable public transport alternatives for Havering residents is one of the reasons for this. As Figure 24, shows that although the recorded 2016/17 bus journey frequency is relatively high within Romford Town Centre, and surrounding areas, the majority of the wider bus network illustrates the lower provision of bus frequency, particularly

for travel on routes to extended areas of Havering, outside central Romford.



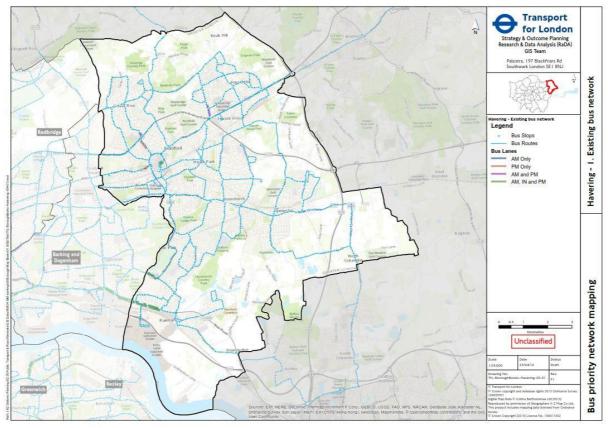


Source: TfL Cityplanner

Access to key trip generators

2.4.125. Figure 25, shows that the existing bus network covers an extensive area of Havering, and provides residents with a range of bus links and access to a number of key attractors and locations within Havering. Romford Town Centre has the highest frequency of bus services which reflects its Metropolitan Town Centre status. Most importantly, the map shows the lack of access to the London Riverside BID at Rainham.

#### Figure 25 Havering existing bus network.



Source: TfL Cityplanner

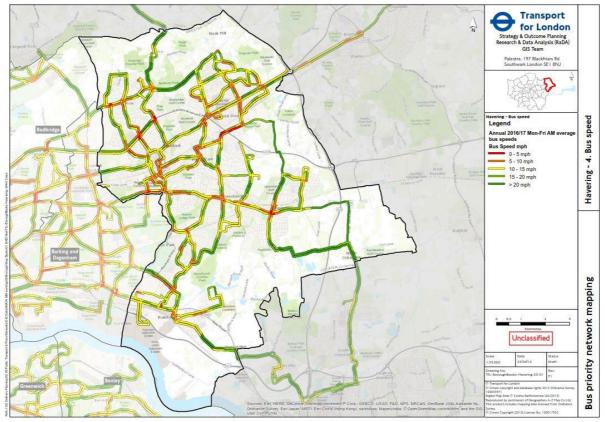
- 2.4.126. In recent years Havering has focused on providing increased bus accessibility to key developments and trip generator locations making use of the good bus network links already within the urban areas of the borough.
- 2.4.127. Queens Hospital and King Georges Hospital (in London Borough of Redbridge) have undergone a reconfiguration of some patient services in recent years. This has placed increasing pressure on the existing facilities at Queens Hospital for patients and visitors, both in terms of parking provision and public transport services.
- 2.4.128. The Council has secured a planning obligation contribution from a nearby development to secure additional bus infrastructure at the interchange at Queens Hospital which, in time, will allow for further bus services to be routed via the Hospital and make it more accessible across the catchment area.
- 2.4.129. The Council would like to improve bus access to/from and within the Rainham London Riverside area particularly to improve access to the Business Improvement District (BID). Attracting and retaining staff is very

difficult for businesses here because of the lack of public transport serving the area and the very limited penetration into the area by bus services. TfL began work on a review of bus services in London Riverside in 2017 and the Council will continue to work with TfL as this study develops.

- 2.4.130. As outlined in Havering's MTS response, the Council strongly welcomes the aspirations to improve public transport connections, to, and within the London Riverside Opportunity Area and bus capacity in outer London. Havering will continue to support the TfL led initiative looking at options for a bus rapid transit service for the London Riverside region known as the 'City in the East' study.
- 2.4.131. TfL have recently undertaken a <u>review of bus services</u> in the Harold Hill area as part of the wider review of bus services along the Crossrail Elizabeth line route. This made several recommendations including a new bus route (no 497) to serve Harold Wood Station and the Hilldene Shopping Centre in Harold Hill. The route would pass through the new Kings Park housing development thereby, improving access to the Harold Wood Polyclinic. Following public consultation, TfL have recently announced that, this route should be delivered when the second phase of the Elizabeth Line opens.
- 2.4.132. Improving access to key trip generators aligns with Policy 13 and Policy 15 of the MTS to, make public transport networks easier and more pleasant to use, to provide more efficient and 'seamless' journeys, through the provision of stress free and convenient travel by public transport.

### Bus journey time reliability

2.4.133. Figure 26, shows that the recorded 2016/17 annual average weekday bus speeds in Havering vary widely across the borough. A number of hotspots have low bus speeds of 10 mph or slower and present reliability issues. The hotspots with the lowest speeds are found around Havering's town centres and stations.



#### Figure 26 Havering average weekday bus speeds (2016/17)

Source: TfL Cityplanner

- 2.4.134. According to TfL's 'Travel in London' Report, Havering's high frequency bus routes have an excess waiting time (EWT) typical of Greater London.
- 2.4.135. LIP funding has been allocated in recent years to 'improving the reliability of public transport'. It has focused on bus routes with poor bus punctuality and liaising with the relevant bus operators to identify those parts of the route where the delays happen. Feasibility studies have been undertaken to develop measures to alleviate these issues and these have been implemented through the LIP programme. An example of this, in recent years, has been the widening of the junction of Pettis Lane north and the A12 to assist bus movements at this junction. The POI in this LIP3 commits the Council to continue to improve bus journey times. This will initially be done through a review of 'pinch points' across Havering's network followed by implementation of appropriate measures identified through the review. This has been proposed as a rolling programme, to ensure improvements are updated to align to emerging traffic patterns.

2.4.136. Improving public transport journey times supports Policy 13 and Policy 15 of the MTS, making public transport networks easier and more pleasant to use, enabling customers to enjoy informed and stress-free travel, through the provision of faster, and more reliable and convenient travel by public transport.

### Bus priority measures

2.4.137. Figure 27 shows that there are a limited number of bus lanes in operation in Havering. All day bus lanes are provided to the south in Rainham (along strategic corridor routes A1306 New Road and A1112 Rainham Road South) and in Romford Town Centre (Western Road) while peak period operation bus lanes are located to the north of Havering on the B175 Havering Road in Collier Row and Straight Road in Harold Hill.

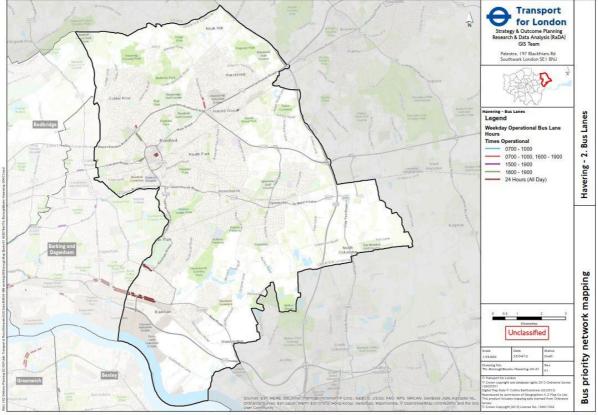


Figure 27 operational bus lanes

Source: TfL Cityplanner

2.4.138. There has been limited investment in bus lane provision in Havering in recent years. Havering's MTS response said that, the Council

still has concerns over bus priority lanes, and the adverse impacts this may have on the local road network for journey times of other traffic given current traffic growth in Havering. Many junctions in Havering are already operating at capacity and there is limited scope to deliver bus lanes without reducing capacity on the carriageway for other road users. Bus priority lanes are not always the most appropriate measure to improve punctuality and are not considered appropriate for Havering. Havering will focus more on tackling pinch points across the bus network and delivering accessible bus stops to support better journey time reliability, as detailed above.

### Railway capacity improvements

- 2.4.139. To help secure modal shift, the Council continues to work with relevant bodies and lobby for longer (12 car) trains and 'fast' peak time services to serve Romford railway station and also along the Essex Thameside line.
- 2.4.140. The Council works closely with TfL, GLA, Network Rail and the Train Operating Company (TOC) C2C through the nine stage 'GRIP' process for the development of a new Beam Park railway station.

Outcome 8: Active, efficient and sustainable travel will be the best option in new developments/Outcome 9: Transport investment will unlock the delivery of new homes and jobs'

- 2.4.141. Outcomes 8 and 9 fall within the "New homes and Jobs" theme in the MTS. This theme sets out the challenge that more people than ever want to live and work in London. There are forecast to be around 1.3 million more people working in the capital than currently by 2041. The London Plan (2017) estimates that at least 66,000 homes will have to be built each year between now and 2041 in order to meet this growth. It is unlikely that this will satisfy the Mayor's 'good growth' ambition identified in the MTS if it is not supported by the timely and effective provision of sustainable transport infrastructure.
- 2.4.142. The theme *new homes and jobs* is focused around *Good Growth*. Within the MTS, Good Growth focusses on ensuring that people living in new housing in central, inner and outer London have options other than to drive to the shops, to school or to work and that people across London have access to sustainable travel for journeys.

- 2.4.143. To help apply "good growth" locally, the MTS sets out seven Good Growth Principles which boroughs can apply when preparing transport schemes. These are:
  - Good access to public transport
  - High density mixed use developments
  - People choose to walk and cycle
  - Car-free and car- lite places
  - Inclusive accessible design
  - Carbon free travel
  - Efficient freight
- 2.4.144. By applying Good Growth principles to transport schemes, boroughs can ensure that a greater proportion of people will live in locations that are well connected to employment and opportunities to travel sustainability. A weighted matrix displaying how strongly the LIP3 objectives support these "good growth" principles can be found in Table 6.

# Challenges and opportunities

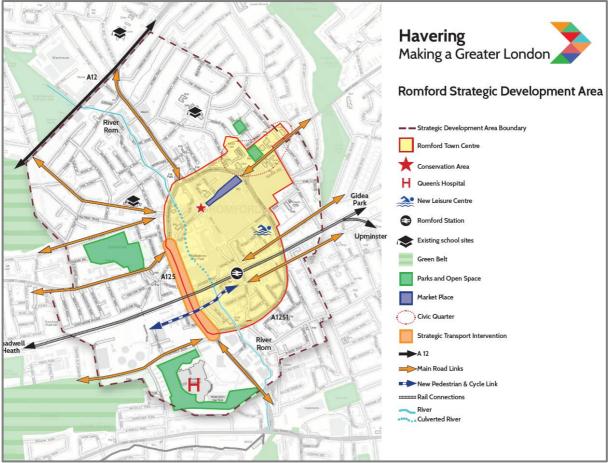
# Growth in Havering

- 2.4.145. Havering's Local Plan sets out a Borough Wide Strategy for Growth. It identifies two areas in Havering that are planned to accommodate most of the growth in Havering over the plan period. These are focussed on Romford and the Rainham and Beam Park. This is consistent with national and Mayoral planning policies. Rainham has been identified for several years in the London Plan (and earlier planning and regeneration strategies from the Government and London Mayor) as one of London's main brownfield development opportunities and an area of considerable potential for regeneration including many new homes and jobs.
- 2.4.146. As within the *Local context* section of LIP3, the Local Plan seeks to deliver at least 17,550 high quality homes over the Local Plan period up to 2031. This includes delivery of over 5,300 new homes in the Romford Strategic Development Area and at least 3,000 homes in the Rainham and Beam Park Strategic Development Area (both as identified in the Havering Local Plan).
- 2.4.147. Figure 28 shows the Romford Strategic Development Area. It encompasses Havering's largest town centre. It has been identified in the

London Plan (2017) as an opportunity Area along the Crossrail Elizabeth line corridor. Romford has significant potential for new development and economic growth alongside new and enhanced supporting infrastructure. The Infrastructure Delivery Plan identities the infrastructure that will support growth in Romford. The Council will work with its partners to realise the opportunities in Romford and to ensure it retains its strategic role within north east London. The Council is preparing a new Masterplan for Romford to complement the Havering Local Plan and to provide detailed guidance on how the town should develop. The Masterplan will update and replace the earlier Romford Development Framework (2015)

2.4.148. Figure 28 identifies opportunities to improve connectivity in Romford town centre with a particular focus on tackling the ring road on the western side of Romford as a barrier to sustainable access into the town centre. The Council is working with Transport for London on the preparation of a Liveable Neighbourhoods scheme for this area to enhance the public realm and provide better connectivity between the housing on waterloo Road and the town centre. Waterloo Road is a focus for the Romford Housing Zone and it is important that safe and convenient links are provided between ere and the town centre.





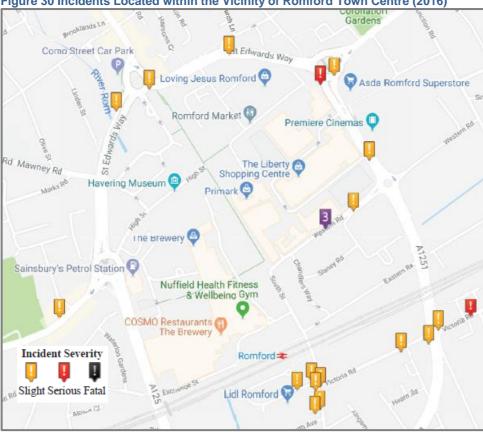
- 2.4.149. Figure 29 shows the Rainham and Beam Park Strategic Development Area. The Rainham and Beam Park Strategic Development Area is a major growth and regeneration area and provides the opportunity to establish an exciting new residential neighbourhood linked to the delivery of a new railway station (Beam Park Station) on the existing Essex Thameside Line at Beam Park between Dagenham Dock and Rainham.
- 2.4.150. London Riverside Opportunity Area Planning Framework (OAPF) identifies that the wider area has the capacity to provide 26,500 new homes and 16,000 new jobs across Havering and Barking and Dagenham. In Havering, the focus will be on the intensification of industrial land in the Rainham Employment Area and the creation of new residential communities at Rainham and Beam Park. Rainham and Beam Park has Housing Zone status which will help accelerate the delivery of residential development in the area.



#### Figure 29 Rainham and Beam Park Strategic Development Area

### Romford Town Centre ring road

- Figure 30 below provides a visual representation of the slight 2.4.151. and serious incidents located within the vicinity of Romford Town Centre in 2016, which involved a bus or coach. During the survey, no fatal incidents were recorded.
- 2.4.152. These incidents fall within a broadly circular pattern, aligning with the Romford ring road.



#### Figure 30 Incidents Located within the Vicinity of Romford Town Centre (2016)

- The Council is very keen to secure improvements to the Ring 2.4.153. Road and its environs so that it is safer, less polluted and a more attractive place.
- 2.4.154. To support the delivery of the Romford Housing Zone the Council has funding from TfL through the Liveable Neighbourhoods programme to look at opportunities to improve access into Romford town centre and support growth.
- The proposals contained within this bid will form Phase 1 of the 2.4.155. transformation of the Ring Road. This first phase focuses on junctions and links that will address key issues such as road safety concerns, links to Queens Hospital, the ability for adjacent Housing Zone sites to successfully address the street and the barrier effect of the Ring Road for walking and cycling. This will include the junctions with Rom Valley Way, London Road, Mawney Road and North Street, as well as the section of the ring road that connects Rom Valley Way with London Road.
- 2.4.156. The limited safe access points into the town centre for pedestrians will also be considered as part of this work. Further information can be found in *The Delivery Plan* section of this document.

### Havering's Spatial Strategy

- 2.4.157. Havering's population is expected to grow to over 293,000 over the next 15 years. The Havering Local Plan seeks to ensure that there is the necessary growth in homes, jobs and critical infrastructure to support and sustain new and existing communities whilst also preserving and enhancing the boroughs most valuable assets and maintaining the long established and strongly supported character and appearance as an attractive outer London suburban borough.
- 2.4.158. This growth will be complemented by significant public transport investment and improvements. Some of these improvements have been identified within Havering's Three Year Programme of Investment (such as the Beam Parkway Major Scheme) whilst other more substantial strategic transport interventions are required, for example the growth in the two Strategic Development Areas are set out in Table 12 which details the long term interventions to 2041.
- 2.4.159. In line with national, and mayoral planning policy, development is to be directed to the most accessible and well connected areas in the borough where there are existing concentrations of supporting social and community infrastructure or where this can be delivered alongside, and supported by, new developments.
- 2.4.160. Further details of Havering's strategy for growth can be found in chapter five of the Local Plan.

### Accommodating growth on the transport network

- 2.4.161. The level of growth forecast to be delivered in east London generally and in Havering over the next 15 years will place additional pressures on the local and strategic highway network. This arises particularly as a result of the growth and change identified in the London Plan and the need for boroughs to ensure their plans are in general conformity with this. It also arises as a result of the growth being planned for the areas outside London such as within the Essex authorities.
- 2.4.162. It has been recognized that this issue needs to be addressed at a sub-regional level and involve strategic partners such as Transport for London (TfL) who are responsible for the operation and maintenance of the TLRN. Havering will continue to work closely with Transport for London because of the key role that it has had in ensuring that the growth envisaged in the London Plan for east London and, in particular, London Riverside, can be accommodated on the existing network or with specific

interventions. Havering is already working closely with Essex County Council and its constituent authorities to understand the implications of the growth planned outside London.

- 2.4.163. As part of the evidence base for developing the Local Plan Proposed Submission, Havering commissioned TfL to undertake <u>strategic modelling</u> using its East London Highway Assignment Model (LoHAM). The technical note identifies that growth is most evident in outer London, the M25 and principal outer London radial corridors. From the three principle roads in Haverig, (A12, A13 and A127 TfL operated) the pattern of traffic growth shows an increase of typically between 5% and 20% across all periods with peak period growth being strongest against the peak directions, (assuming the peak directions to be into London in the AM peak and towards the M25 in the PM peak). This reflects a general lack of excess capacity in the peak direction.
- 2.4.164. Accommodating growth on the transport network is a subregional issue and through a <u>Statement of Common Ground</u>, linked to the preparation of the Havering Local Plan, Havering agreed to work collaboratively with its neighbouring authorities on ways to mitigate the impact respective Local Plan growth with have on the transport network.

# Beam Parkway Strategic Development Area

- 2.4.165. Havering has secured £4.5m of funding from the Mayor of London and £1.8m from Transport for London (TfL) to progress plans to transform New Road (the A1306) in South Hornchurch.
- 2.4.166. The A1306 retains its appearance as a former trunk road. It is already a single carriageway east of Cherry Tree Lane but, to the west of this junction it remains a dual carriageway. The highway environment is dominated by the road and has road safety issues. There is a bus lane operating westbound between Dover Corner Roundabout and Marshway Junction.
- 2.4.167. The funding will enable Havering to tackle these challenges through by means of the Beam Parkway scheme. The scheme will transform New Road into a greener and more pleasant place to spend time in and live next to, for both existing and future residents (Figure 31 and Figure 32).
- 2.4.168. Beam Parkway will become a major asset for new and existing residents. The parkway will provide a visual and physical amenity. The current perception of an out of town "A road" will be replaced with the experience of passing through a high quality place specific landscape that

complements the new homes and community at Beam Park. The Parkway will have the capacity to provide a wide-range of new uses, amenities and infrastructure currently lacking in the local area. It is envisaged that the Parkway will become a place where people can walk, cycle, play sport, shop and eat. The scheme will be supported by improved lighting, seating, and Wayfinding and a new planting enhancing local habitats and suitable urban drainage. Subject to TfL approvals of the final design, further funding will be released to help deliver the scheme.

2.4.169. Further information on the Beam Parkway Major Scheme proposal can be found <u>here.</u>



Figure 32 Beam Parkway Major Scheme - Proposed



# 2.5. Other Mayoral strategies<sup>11</sup>

## National Planning Policy Framework

2.5.1. The <u>National Planning Policy Framework (NPPF)</u> sets out the Government's Planning Policies for England and provides details on how these policies are expected to be applied. It contains a set of Core Planning Principles which includes to

"actively manage patterns of growth to make the fullest possible use of public transport, walking and cycling, and focus significant development in locations which are or can be made sustainable....".

2.5.2. Havering's LIP contains several objectives (2, 3 and 9) and proposed schemes set out in the 2019/20 ASS (as detailed in *The Delivery Plan* section below) which align with the NPPF's core planning principle. These include public realm schemes designed to improve pedestrian access in the borough and encourage walking for short trips, improving sustainable access to new developments, and behaviour change initiatives. The programme of investment sets out broader commitments to improve public transport and sustainable travel.

# London Plan and Mayor's Transport Strategy

- 2.5.3. The London Plan (2015) sets out the Mayor's overarching strategic land use planning priorities and policies for London. It sets the overall context for most, if not all, of the Council's own strategies.
- 2.5.4. The draft London Plan was launched for consultation in late 2017. It is a broad plan to shape the way London develops over the next 20-25 years. The draft London Plan must be considered by an Examination in public which is expected to begin in January 2019.
- 2.5.5. Havering's Local Plan sets out the Councils vision for accommodating growth in the borough over a 15-year period. The Local Plan has been prepared to complement national policy and the Mayor's regional strategies including the current London Plan and the NPPF.
- 2.5.6. A key focus in the Local Plan is to deliver strategic transport interventions that support growth in the borough and a number of

<sup>&</sup>lt;sup>11</sup> Requirement R12: Other Mayoral strategies are also relevant to LIPs, and boroughs should have regard to these as they are published.

schemes identified in Chapter 10 *Connections* (table 3) of the Local Plan feature in *The Delivery Plan* section of this document.

2.5.7. The <u>draft London Plan</u> has six overarching objectives including one with a transport focus to deliver this vision:

"A city where it is easy, safe and convenient for everyone to access jobs, opportunities and facilities, with an efficient and effective transport system which places more emphasis on walking and cycling and making better use of the Thames, and supports delivery of all the objectives of this plan."

- 2.5.8. The <u>Mayor's Transport Strategy</u> (MTS) interprets the Mayor's London Plan transport vision and details how he and his partners will deliver the plan over the next 15 years. Havering's LIP objectives have been designed to align with principles in the MTS, in particular with the Mayor's Healthy Streets and Good Growth agendas.
- 2.5.9. The MTS is a key part of the Mayor's strategic policy framework to support and shape London's social and economic development. It sits alongside other key Mayoral documents such as the Economic Development Strategy and Housing Strategy.
- 2.5.10. London has limited opportunities for accommodating large scale development. Several suitable areas have been identified as Opportunity Areas which are a major source of brownfield land which have significant capacity for development. With TfL, GLA and surrounding boroughs, Havering has been involved in the development of the London Riverside Opportunity Area Planning Framework (OAPF) (supplementary planning guidance to the London Plan) and TfL's Sub Regional Transport Plan for the East. The adopted London Riverside OAPF outlines the Mayor's strategic vision for housing, commercial and transport on a more local scale within the areas. The Sub-Regional Transport Plan for the East outlines transport schemes that have been implemented and additional investment needed for further schemes in order to support growth and address transport challenges in the east sub region.

# Mayor's Housing Strategy

2.5.11. One in three Londoners now call affordable housing one of the biggest issues facing the capital. London's housing shortage can be traced back to a failure, over many decades, to build the new homes the city's growing economy requires. The strategy underpins five priorities which includes significantly increasing the number of new homes being

built whilst investing in infrastructure. Whilst focussing on the delivery of major new rail lines such as Crossrail 2, the Mayor wishes to provide more local investment to make walking and cycling easier. Objective 1 of Havering's LIP focusses on the need to improve north/south connectivity in Havering to support development planned for the two Housing Zones in Havering, at Romford and Rainham and Beam Park. Havering's POI sets out broad packages which look to improve access and address permeability issues in the two SDAs.

### Mayor's Economic Development Strategy

- 2.5.12. The Mayor's <u>Economic Development Strategy</u> states that more people are living and working in London than ever before and sets out its aims to accommodate for current and future growth. The strategy acknowledges that London's transport system faces major capacity constraints.
- Havering's LIP objectives (particularly 1, 2 and 3) have been 2.5.13. designed to reduce the borough's strain on London's public transport network by promoting sustainable travel options; whilst also trying to reduce resident's needs to travel for work. Objective 1 focusses on providing residents who wish to travel locally with alternative options to travelling by car, this is particularly important with addressing the lack of north south connections between the Romford and Rainham and Beam Park Strategic Development Areas (SDAs). Objective 2 in particular focusses on the need to ensure that residents can travel to Havering's employment areas (and in particular the two SDAs) sustainably. This is particularly important with regard to Rainham in the south of the borough where a lack of public transport connectivity is a considerable constraint on retaining employees and attracting new ones. Objective 3 emphasises how healthy lifestyles can be maintained through travelling more sustainably.
- 2.5.14. The LIP programme aims to deliver sustainable access to Havering's employment areas including the Romford and Rainham and Beam Park Strategic development areas through the A1306 Beam Parkway Major Scheme and Romford Liveable Neighbourhoods programme. Havering also has aspirations for long term interventions to support continued growth in Romford and Rainham and Beam Park which are set out in Table 12 below.

# Mayor's Environment Strategy

- 2.5.15. Toxic air, noise pollution, the threat to our green spaces and the adverse effects of climate change all pose major risks to the health and wellbeing of Londoners. The Mayor's Environment Strategy focusses on reducing CO<sub>2</sub>, PM<sub>10</sub> and NOx emissions by encouraging sustainable transport modes and tightening policies on green infrastructure and waste.
- 2.5.16. Havering has adopted an AQAP which focusses on delivering measures to reduce NOx and PM10 and to implement Air Quality Management Areas across Havering. Objective 7 of Havering's LIP commits the borough to support this through the delivery of transport and regeneration programmes that contribute to reducing CO2, NOx and PM10. The 2019/20 Annual Spending Submission and broader three year POI contain proposed measures that will directly support delivery of the AQAP.

## Mayor's Diversity and Inclusion Vision

- 2.5.17. The aim of this vision is to ensure that London is a place where people can live, work and play equally regardless of age, gender, sexuality, faith and disability. Despite provision of more inclusive and accessible ways for Londoners to travel, disabled and older Londoners still travel less than others. The Mayor, with TfL, will continue to make sure that the network becomes more accessible.
- 2.5.18. Havering's LIP3 objective 4 and 5 align with the Mayor's diversity and inclusion vision as they are designed to accommodate the transport needs of the less mobile and disabled. An issue that this LIP seeks to address is the borough's increasing aging population and the need to make sure that all residents are free and able to choose what mode of transport they wish to travel in and this can be demonstrated in Objective 4.
- 2.5.19. Havering's POI includes proposals to review access into all parks and open spaces in Havering to ensure that they are accessible for all users. An Equalities Impact Assessment (EQIA) is being drafted on LIP3 and the final EQIA will be informed by responses that are received on the draft LIP3 as part of the statutory consultation process.
- 2.5.20. Havering is also committed to ensuring that its transport infrastructure across the borough is accessible for all users. Further Bus Stop Accessibility improvements are proposed to be delivered in

Havering's POI which, if implemented could increase the number of accessible bus stops in the borough from 96% to 98%.

### Mayor's Health Inequalities Strategy

- 2.5.21. This strategy addresses some of the main issues which lead to inequalities in the health of different groups of Londoners, and proposes a set of aims for reducing them. The length of time that Londoners can expect to live in good health varies widely across the city. The Mayor's aims are achieving healthy children, healthy minds, healthy places, healthy communities and healthy habits.
- 2.5.22. The Mayor wants to surround children with environments that help them to play, eat, socialise and develop well. The Mayor wants many more Londoners to feel comfortable talking about mental health and remove the widespread stigma. The places where we live, learn, work and play have a profound impact on our health and wellbeing. Too many parts of London have poor access to healthy, pleasant streets and green space. Communities that are better connected and engaged are more socially integrated. They are also healthier. The Mayor would like more people to have the power to act on the things that affect their health. The combination of smoking, excessive drinking, physical inactivity and an unhealthy diet is too common in some communities, leading to health problems. Reducing this inequality means making it easy for some communities in the most disadvantaged areas to eat well and be active.
- 2.5.23. LIP3 objectives support the aims of the Mayor's Healthy Inequalities Strategy. Objective 3 focusses on enabling healthier lifestyles for all Havering residents through provision of active and sustainable travel choices. Objective 9 is focussed around the Mayor's Healthy Streets approach to creating high quality and safe neighbourhoods where people want to live. Over 50% of Havering is green space which should be well maintained and promoted as not only a means for active travel but also a place of leisure and recreation. In recent years using the borough's parks and open spaces has been encouraged through the Council's *Miles the Mole* air quality campaign. Further information on green spaces in Havering can be found in the *Local context* section of this document.
- 2.5.24. Table 5 of this strategy demonstrates how each LIP3 objective meet the Mayoral Strategies set out above. Further information showing how each of Havering's LIP3 objectives supports the Mayors Healthy Streets indicators and Good Growth principles can be found in Table 6.

# 2.6. Borough transport objectives<sup>12</sup>

- 2.6.1. As mentioned previously, Havering's transport objectives have strong links with the Council's local policies, together with the Mayor's overarching aim to secure modal shift and the nine outcomes specified within the Mayor's Transport Strategy (MTS).
- 2.6.2. These links have been assessed in weighted matrices, which illustrate how strongly the boroughs LIP3 transport objectives support the overarching aim and nine strategy outcomes as outlined in the MTS and other relevant Mayoral and local strategies (shown in Table 5) and good growth principles as outlined in the MTS (shown in Table 6).

<sup>&</sup>lt;sup>12</sup> Requirement R10: Boroughs are required to set objectives that explicitly assist with meeting the Mayor's Transport Strategy aim of increasing the sustainable travel mode share.

### Table 5 Alignment of Havering Strategic LIP3 Objectives and MTS Outcomes

	MTS: Overall Aim	MTS: He	ealthy Stre Peo	eets and He ple	ealthy		A good p ort exper		MTS: homes a			dopted Po Strategies			Mayo	oral Strate	gies	
Key Slightly supports x Supports xx Strongly supports xxx Havering Strategic LIP3 Objectives	Overall Aim: 80% walking, cycling and public transport	Outcome 1: London's streets will be healthy and more Londoners will travel actively	Outcome 2: London's streets will be safe and secure	Outcome 3: London's streets will be used more efficiently and have less traffic on them	Outcome 4: London's streets will be clean and green	Outcome 5: The public transport network will meet the needs of a growing London	Outcome 6: Public transport will be safe, affordable and accessible to all	Outcome 7: Journeys by public transport will be pleasant, fast and reliable	Outcome 8: Active, efficient and sustainable travel will be the best option in new developments	Outcome 9: Transport investment will unlock the delivery of new homes and jobs	Havering Local Plan Proposed Submission	Air Quality Action Plan	Prevention of Obesity Strategy	Economic Development Strategy	Housing Strategy	Diversity and Inclusion	The London Plan	Environment Strategy
<ol> <li>To improve north south transport connectivity in Havering through provision of alternative travel choices to the private vehicle.</li> </ol>	ххх	xx		xx	x	хх	Xx	x	xx	хх	ххх	хх		хх	хх	хх	ххх	xx
2. To ensure sustainable access to Havering's employment areas including the Romford and Rainham and Beam Park Strategic development areas.	ххх	хх		хх	x	хх	Xx	x	ххх	xxx	ххх	хх	x	ххх	x	ххх	ххх	хх
3. Enable healthier lifestyles through the provision of active and sustainable travel choices to residents and visitors in Havering and to make Havering a better place to walk and cycle around.	ххх	ххх		ххх	x				xx		ххх	xx	xx		x	x	ххх	хх
4. Work with partners to deliver fully accessible transport links to ensure that residents and visitors with disabilities have the freedom to choose how to travel in the borough.	хх	x	x			хх	Ххх	x	x		ххх				x	ххх	ххх	
5. Ensure that the needs of the less mobile are prioritised when delivering public realm improvements and "better streets".	ххх	хх	xx		хх		x		x						x	ххх	ххх	
<ol> <li>To deliver "Visions Zero" in Havering by 2041 through reducing casualties of all road users on <u>borough roads</u>, especially in the vicinity of schools and KSI "hotspots"</li> </ol>	x	x	xx								ххх				x		ххх	
<ol> <li>Improve Air Quality in Havering by delivering transport and regeneration programmes that contribute to reducing CO<sub>2</sub>, PM<sub>10</sub> and NOx emissions and that support Havering's adopted Air Quality Action Plan.</li> </ol>	x	x		xx	хх	x		x	xx		xxx	xxx					xxx	ххх
<ol> <li>To reduce the fear of crime and antisocial behaviour and improve perception of personal safety and security to encourage residents to travel actively.</li> </ol>		xx	ххх	xx	xx		Xx	xx			xxx					x	xxx	
<ol> <li>Through the Healthy Streets agenda, enhance and maintain the quality of public realm in our Major, Minor and District centres to create high quality safe neighbourhoods that people want to live and travel within.</li> </ol>	хх	ххх	ххх	x	ххх					хх	ххх	x		х	хх	x	ххх	x
<ol> <li>To strengthen strategic links with neighbouring local authorities in Essex and the wider South East on strategic transport issues to support sub regional growth including the A127 growth Corridor and remodelling Gallows Corner.</li> <li>To bring and maintain all infrastructure assets to good state of repair</li> </ol>				x					x	ххх	xxx			хх	xx	x	ххх	
within Havering.		x	x	xx	x	xx		хх		хх	ххх	x		x	x	х	ххх	x

### Table 6 LIP3 Objectives and MTS Good Growth Principles Weighted Matrix

Havering Strategic LIP3 Objectives		1	MTS	Good Growth Princ	iples	1	
	Good access to public transport	High density mixed use developments	People choose to walk and cycle	Car-free and car- lite places	Inclusive, accessible design	Carbon-free travel	Efficient freight
<ol> <li>To improve north south transport connectivity in Havering through provision of alternative travel choices to the private vehicle.</li> </ol>	ххх			ххх	xx	x	
2. To ensure sustainable access to Havering's employment areas including the Romford and Rainham and Beam Park Strategic Development Areas.	ххх	хх	хх	ххх	xx	x	
3. Enable healthier lifestyles through the provision of active and sustainable travel choices to residents and visitors in Havering and to make Havering a better place to walk and cycle around.	хх	х	ххх	ххх	хх	ххх	
4. Work with partners to deliver fully accessible transport links to ensure that residents and visitors with disabilities have the freedom to choose how to travel in the borough.	ххх		x	ххх	ххх	x	
5. Ensure that the needs of the less mobile are prioritised when delivering public realm improvements and "better streets".	x		хх	хх	ххх	хх	
<ol> <li>To deliver "Visions Zero" in Havering by 2041 through reducing casualties of all road users on borough roads, especially in the vicinity of schools and KSI "hotspots".</li> </ol>			x				
<ol> <li>Improve Air Quality in Havering by delivering transport and regeneration programmes that contribute to reducing CO<sub>2</sub>, PM<sub>10</sub> and NOx emissions and that support Havering's adopted Air Quality Action Plan.</li> </ol>			хх			ххх	x
8. To reduce the fear of crime and antisocial behaviour and improve perception of personal safety and security to encourage residents to travel actively.	x		xx	x	Х	хх	
<ol> <li>Through the Healthy Streets agenda, enhance and maintain the quality of public realm in our Major, Minor and District centres to create high quality safe neighbourhoods that people want to live and travel within.</li> </ol>	x	хх	ххх	x	xx	хх	
10. To strengthen strategic links with neighbouring local authorities in Essex and the wider South East on strategic transport issues to support sub regional growth including the A127 growth Corridor and remodelling Gallows Corner.	x		x	x	xx	x	x
11. To bring and maintain all infrastructure assets to good state of repair within Havering.	xx		x	x	x	x	x

# 3. The Delivery Plan

# 3.1. Introduction

- 3.1.1. This section sets out the requirements for the Delivery Plan, which outlines how Havering will work towards achieving the borough transport objectives set out in section 2. It aligns Havering's proposed projects and programmes with the policy framework of the MTS, the overarching mode share aim, each of the nine outcomes, and the relevant policies and proposals.
- 3.1.2. The main elements within the Delivery Plan are the annual spending submission, a three year programme of Investment and monitoring of targets. A detailed and costed annual programme is provided for 2019/20 identifying schemes and initiatives for the first year of the plan, with the programme to be updated in subsequent years. Projects and programmes that contribute to the delivery of the MTS (through the nine Mayoral outcomes), other Mayoral strategies, and the Councils Local Plan, in the preparation of a Delivery Plan at a local level are also outlined. The three-year Programme of Investment is provided for 2019/20 to 2021/22 and sets out a costed and funded high-level indicative programme of initiatives and projects, designed to deliver the borough's LIP objectives and the policies and proposals in the MTS. Both are provided with supporting commentary with regards to how these elements have been derived, the role of revenue-based investment policy decisions, and third-party actions and how the delivery of the Mayor's priorities will be supported at a local level. They also provide a risk assessment, identifying any potential programme and project risks. It includes any steps that can be taken to mitigate against these risks, and possible remedial measures that could be implemented should the risks materialise.
- 3.1.3. The proposed funding source for each of the interventions have been identified, detailing what proportion is to be provided from LIP funding allocations and how much will be provided from other sources of funding.
- 3.1.4. The long term interventions identified reflect the boroughs high-level ambitions for investment and improvements on the transport network. A list of potential schemes up until 2041 has been provided, together with a short explanation of the reasons for their inclusion in the Delivery Plan.
- 3.1.5. The delivery of the LIP will be facilitated through ongoing monitoring, which will be undertaken through the targets set against the overarching

mode share aim and the Mayoral outcomes. The respective outcome delivery indicators refer to the delivery of the MTS at a local level.

- 3.1.6. To provide a consistent approach to investment, major projects local complementary and parallel programmes that are provided in the TfL Business Plan have been considered, where appropriate, that illustrate a potential impact on the borough.
- 3.1.7. In summary, the main features detailed within this section as part of the Delivery Plan include:
  - A detailed annual programme for 2019/20 with supporting commentary and risk assessment and linkages to the MTS priorities
  - A three-year indicative Programme of Investment for the period 2019/20 to 2021/22 with supporting commentary and risk assessment
  - A list of potential funding sources for the period 2019/20 to 2021/22
  - A list of long-term interventions to 2041
  - Details on monitoring the delivery of the outcomes of the MTS
  - Linkages to TfL's Business Plan

# 3.2. Annual programme 2019/20<sup>13</sup>

3.2.1. The annual programme of schemes for 2019/20 has been completed and submitted to TfL on Proforma A. The programme of schemes will be updated annually.

# Supporting commentary<sup>14</sup>

3.2.2. The interventions outlined in the Annual Spending Submission (ASS) have been identified and prioritised in order to best meet the needs of the borough and its residents whilst continuing to delivering the Mayor's Transport Strategy locally as required by the legislation.

<sup>&</sup>lt;sup>13</sup> Requirement R20: Boroughs are required to provide a detailed and costed programme of schemes and initiatives for the first year of the plan, with the programme to be updated in subsequent years. Boroughs should submit their Programme of Investment using Proforma A (as shown at Part three – Appendix F). Proformas will need to be uploaded to the Borough Portal.

<sup>&</sup>lt;sup>14</sup> Requirement R21: Boroughs are required to provide supporting commentary on: a. How the annual Programme of Investment has been derived, including how potential interventions have been identified and prioritised, and practical considerations relating to timescales, capacity and consultation b. The role of revenue-based investment, policy decisions, and third-party actions (including commitments outlined in TfL's Business Plan and investment programme) in delivering the borough's LIP objectives c. How the delivery of the Mayor's priorities will be supported at a local level

### Considerations for the annual programme

3.2.3. A number of issues and topics were taken into account when preparing the Annual Spending Submission and these have been set out below in further detail. As can be seen within the Annual Programme in Table 7, the Council's programme for 2019/20 strongly supports the existing Council strategies, which was a key priority for schemes to be considered for inclusion.

### Ongoing schemes

- 3.2.4. Some schemes currently being delivered in the 2018/19 programme are 'design and build' schemes that span two years. These schemes, therefore, require additional funding in the 2019/20 financial year to ensure successful delivery. Examples of such schemes include the implementation of Traffic calming measures in Havering Village, the feasibility of which has been investigated this year and will be implemented (subject to Member approval at Committee) in the 2019/20 financial year.
- 3.2.5. Funding has been allocated to the borough's rolling programmes which are largely behaviour change initiatives. These include, but are not exclusive to, the delivery of borough wide Road Safety Education initiatives; travel planning in schools and workplaces and Bikeability training.

# **Corporate Priorities and Council Policy**

- 3.2.6. Measures that support the Council's Vision and four Vision themes of *Communities*, *Places, Opportunities* and *Connections* are reflected in the annual programme.
- 3.2.7. The annual programme supports the Local Plan, in particular, the Strategic Objectives, the Spatial Strategy and Policy 23 Connections. Schemes have been identified that improve connectivity to and between the two Strategic Development Areas of Romford and Rainham and Beam Park.
- 3.2.8. Within the adopted Air Quality Action Plan (AQAP), a number of measures are aimed at encouraging people to travel by means other than the car to support reducing NOx and PM10 emissions. The Annual Programme contains schemes that support many of the actions contained within the AQAP, a number of which relate to sustainable travel and smarter travel initiatives.

3.2.9. Havering's Prevention of Obesity Strategy has also been an important factor when compiling the 2019/20 Annual Programme. A key theme of the strategy is supporting a culture that sees physical activity and healthy eating as the norm.

### Highways Advisory Committee Requests

3.2.10. Schemes put forward by local Councillors are considered by the Councils Highways Advisory Committee (HAC). Where a scheme is considered appropriate they are added to a "reserve" list for consideration when funding (such as LIP) becomes available. Schemes that are currently on the HAC list were taken into consideration when preparing the 2019/20 Annual Programme.

### Mayoral priorities

3.2.11. As well as the above the nine Mayoral Outcomes set out in the Mayor's Transport Strategy have to be supported within Havering's 2019/20 programme. The programme also needed to take into account other Mayoral initiatives such as the recently published Walking Action Plan (2018) and Vision Zero Action Plan (2018).

### How the annual programme was put together

- 3.2.12. The schemes were assessed against a number of elements including:
  - MTS Overarching Modal share aim
  - Nine Mayoral Outcomes
  - Havering's Local Plan
  - Havering's Air Quality Action Plan
  - Havering's Prevention of Obesity Strategy
  - Supporting the delivery of Housing Zones in Havering
  - Mayor of London Walking Action Plan (2018)
  - Mayor of London Vision Zero Action Plan (2018)
- 3.2.13. Each scheme was assessed against each of the above to see which ones they met. Once this was complete an assessment was carried out to see which schemes met 75% of the factors, 50% and 25%.

3.2.14. Other considerations taken into account included a schemes ability to meet TfL LIP Guidance criteria and the Council's corporate priorities.

## **Delivery timescales**

3.2.15. The preparation of the programme, has taken into account the challenges of how schemes will be delivered. Most of the measures that focus on behaviour change including Road Safety Education and School Travel Planning measures will be delivered within the 2019/20 financial year. For schemes that are delivered on the highway, additional considerations need to be taken into account including, design, consultation, political approval and implementation. In some cases, this will lead to schemes being delivered over more than one financial year and this is considered in further detail in Table 8.

## Delivering the Mayor's Priorities Locally

- 3.2.16. Havering's 2019/20 Annual Programme is considered to offer a balanced programme in support of the Mayor's overarching modal shift aim, and nine Mayoral outcomes having regard to circumstances in the borough. Further information on how each scheme within the 2019/20 programme support these priorities can be found in Table 7.
- 3.2.17. Table 7 shows how, schemes in the 2019/2020 programme support Mayoral priorities. For the purposes of the table, the schemes are included under 'package' headings:

# Road safety and Vision Zero

3.2.18. Over £700k has been allocated to supporting the Mayor's Vision Zero aim. This includes measures to improve safety around schools and certain junctions that require treatment to reduce traffic speeds. The Council also continues to support the road safety education, training and publicity agenda offering free 'Theatre in Education' productions to primary schools across Havering and holding the very well supported annual 'Safe Drive Stay Alive' event (which Havering was the first London Borough to host).

# Air quality

3.2.19. A key Council priority is to improve Air quality in and around Havering. £125k has been allocated to support the delivery of the Air Quality Action Plan. Many of the measures that are delivered through the AQAP will not only support reducing NOx and PM10 (key Mayoral targets see Table 13) but will also contribute to other Mayoral outcomes that support active and sustainable travel.

## Sustainable transport

- 3.2.20. £205K has been allocated to support sustainable transport and encouraging active travel. Schemes receiving this funding will support the Mayor's goal for the borough to achieve 29% of its residents partaking in at least 2x 10 minutes of active travel a day by 2021.
- 3.2.21. Funding is allocated to support schools with their school travel plans where issues have been identified that need to be addressed to encourage active travel to/from school. School Travel Planning engineering schemes for several primary schools will be funded through the LIP annual programme following feasibility studies in 2018/19.
- 3.2.22. A review of the borough's alleyways has been funded to support the Mayor's Healthy Streets approach. The Council will lobby to deliver schemes following this review which are designed to favour pedestrians by making the borough's alleyways feel safer and accessible.

# Public transport reliability

3.2.23. Reliability of public transport often depends upon the operators themselves. £80k of funding has been allocated to deliver measures along Havering's bus network to help achieve better journey times. This is being supported by a borough wide review of bus 'pinch points'.

# Supporting the Romford and Rainham and Beam Park Housing Zones

3.2.24. Several schemes within the programme focus on improving connectivity between the two Housing Zones within Havering Romford and Rainham and Beam Park. This includes continued match funding to support the Beam Parkway Major scheme along a 2.2 km stretch of the A1306 and improving access into Romford town centre through the Romford 'Liveable Neighbourhoods' programme and 'greening' the eastern side of the Romford ring road.

### Timetable for delivery

3.2.25. Most of the specific interventions identified within the 2019 / 2020 Annual Spending Submission will be delivered by March 2020.

There are some schemes, however, that form part of the wider three year delivery programme and will therefore be implemented over the course of the Programme of Investment. Such schemes *include "review of alleyways in the borough to improve access for pedestrians"* and *"review of access arrangements into parks and through open spaces across the borough"*. These schemes will be delivered over the wider three year programme and consist of feasibility in year one, detailed design and consultation in year two and delivery in year three. Spreading the delivery of schemes over the three year Programme of Investment enables the borough to more adequately plan its resources over a longer period, and gives more certainty over capacity requirements.

### **Political Approval Process**

3.2.26. Schemes which impact on the highway network will require approval of the Council's Highways Advisory Committee. As schemes are designed and consulted on, they will be presented to the Highways Advisory Committee (HAC) for consideration. The Committee will then make a recommendation to the Lead Member as to whether or not the scheme should be delivered.

### Linkages to the Mayor's Transport Strategy priorities<sup>15</sup>

- 3.2.27. Necessarily, the 2019/2020 annual programme was developed to align the borough's projects and programmes with the policy framework of the Mayor's Transport Strategy, the overarching mode share aim, each of the nine outcomes, and the relevant policies and proposals.
- 3.2.28. Table 7 sets out Havering's 2019/20 Annual Spending Submission, and demonstrates how each of the specific measures supports the MTS through the nine Mayoral outcomes, other Mayoral strategies, and the Councils Local Plan Proposed Submission.

<sup>&</sup>lt;sup>15</sup> Requirement R13: Boroughs are required to outline projects and programmes that contribute to the delivery of the Mayor's Transport Strategy – including the overarching mode share aim, each of the nine outcomes and the relevant policies and proposals – in preparing a Delivery Plan.

## Table 7 2019/20 LIP Annual Spending Submission

					MTS οι	itcomes				Local Plan 2016-2031		in 2018-	/ Strategy	elopments APF 2015	Walking ו	Nision 8
Project / Programme Cos	Cost	Outcome 1 - Healthy Streets	Outcome 2 - Safe Streets	Outcome 3 - Less Traffic	Outcome 4 - Clean Streets	Outcome 5 - Exp. PT Network	Outcome 6 - Safe/Aff. PT Network	Outcome 7 - Reliable PT Journeys	Outcomes 8 & 9 Sustainable Growth/Unlocking	Strategic Objectives	Policy 23- Transport Connections	Air Quality Action Plan 2023	Prevention of Obesity Strategy 2016-2019	Support of New Developments Housing Zones/ LROAPF 2015	TfL/ Mayor of London Walking Action Plan 2018	TfL/ Mayor of London Vision Zero Action Plan 2018
Continuing Schemes / Corporate Priorities																
Delivery of borough wide Road Safety Education initiatives including Safe Drive Stay Alive, car seat safety checks and Theatre in Education productions	£90k	х	x	x					x	х	x		x			
Delivery of actions from the adopted Action Quality Action Plan to support Healthy Streets	£125k	х		x	x				x	х	x	х	x			
Travel Planning in schools and workplaces and smarter travel business engagement	£95k	x		x					x	Х	x	Х				
Delivery of the Mayor's Healthy Streets Agenda	£90k	х	х	х					x	Х	x	Х				
Squirrels Heath/ Shepherds Hill - Ped refuge provision to address accessibility issues	£50k	х	x	x				Х	x	х		х				
Romford Liveable Neighbourhoods programme - match funding	£125k	х	х						х	х	х	х	х	х		
Greening Eastern side of Ring Road Review and future year implementation	£50k	х	х		х				х	Х	х	Х	х	х	х	
Match Funding of Beam Parkway Major Scheme	£150k	х		x	x		x		х	х	x	х	х	х		
Road Safety (Vision Zero)			<u> </u>	1	<u> </u>	<u> </u>	1		1							

Implementation of Traffic Calming measures through Havering Village (following 2018/19 feasibility work)	£50k	Х	Х		х				х	х	х	х	х	х	х	
Delivery of casualty reduction measures based on borough wide KSI rates (various locations including Collier Row Road, Airfield Way/Suttons Lane, North Streets, Rainham Road Hilldene etc.)	£451k	x		х	x				х	Х	X	х	x			
Controlled Parking Zones – contribution to the funding of review, consultation on where appropriate installation of new CPZ's	£40k		х	х						х	х			х		
Improving safety outside schools – infinitives to address congestion and inconsiderate parking outside schools during the AM and PM school peaks	£120k	x	х	х					x	x	x		x	x	x	x
Highways Advisory Committee Requests																
Belgrave Avenue - traffic calming to deal with speeding drivers. Supports Vision Zero	£45k	х	Х	х						х	х	х			х	х
Upper Brentwood Road (by Beaumont Close) Squirrels Heath - Traffic calming by junction to reduce driver speed - supports Vision Zero	£12k	х	Х	x						х	х	х			х	х
The Mount/Noak Hill Road/Straight Road - Safety Improvements to mitigate against increasing traffic volumes following removal of traffic lights from Straight Road. Measures to improve safety for vehicles exiting The Mount at this junction and suitable pedestrian crossing point for the area - supports Vision Zero	£40k								х	x	x	х		х	х	х
Sustainable Transport					-											
School Travel Planning Engineering Measures outside schools following 2018/19 feasibility studies	£155k	x	х	х						х	х	х	х			

					6								
Mawney Road Healthy Streets Implementation following 2018/19 review	£50k	х	х		х		х	х	х	х	х		
Junction redesign to provide zebra crossing in St Clements Avenue. Supports Vision Zero	£20k	х	x	x			х	Х	х			х	х
Review of alleyways in the borough to improve access for pedestrians (three year review/design implementation scheme)	£10k	Х	x	x		х		х	х				
Review of access arrangements into and through parks and open spaces across the borough (three year review/design implementation scheme)	£10k	х			x			х	х		Х	х	
Delivery of Bikeability training to school, adults and families across Havering	£60K	х		x			х	х	х	х	х		х
Public Transport Reliability			1										
Bus pinch point review study to identify locations along the bus network where journey times need to be improved (three year scheme)	£10k	x	х	х		х	х	х	х	х	х		
Improving the reliability of public transport (measures to improve bus journey time reliability)	£70k		Х	Х		Х	х	х	х	х	х		

## **Excluded schemes**

- 3.2.29. Whilst Table 7 sets out Havering's proposed programme for the 2019/20 financial year, there are a number of measures that Havering will not be progressing through the 2019/20 programme. These include:
  - 20 mph zones In recent years 20 mph zones have been delivered at locations across the borough including in the vicinity of some schools. However, such schemes are difficult to enforce as the responsibility lies with the Police where there are significant resourcing challenges. It is considered that other measures such as introducing School Streets or expanding the Council's PSPO programme could be considered more appropriate when dealing with speeding traffic in the vicinity of schools.
  - Speed humps Whilst the Council will continue to address KSI rates through an annual Casualty Reduction programme, speed humps are not considered appropriate for Havering. These measures are detrimental to the environment because they require vehicles to slow down on the approach and speed up following negotiating the speed hump and this can have a negative impact on local air quality and noise. They may also divert traffic onto other local streets, therefore displacing the problem elsewhere. In line with its commitment to casualty reduction, other appropriate measures will be considered such as, pedestrian refuges, build outs, width restrictions or improve lighting. Measures implemented will depend on the nature of the incidents.
  - Bus lanes Havering has developed a modest number of bus lanes at prime locations where these are needed to improve passenger times and in recent years has delivered improvements at junctions to assist bus journey times through TfL's Bus Priority Delivery Portfolio programme. The borough has no further programme to develop Bus Lanes in Havering due to limited road space. The introduction of further bus lanes is considered detrimental to other road users. The Council will focus on other alternative measures to improve bus journey times such as addressing bus pinch points.
  - Cycle Lanes The Council will continue to support the Romford and Rainham and Beam Park Housing Zones through delivering schemes that provide residents with the opportunity for choices involving sustainable alternatives to travel (such as through the Beam Parkway Major scheme). However, there are no plans to deliver further cycling infrastructure on the carriageway elsewhere within the borough. Limited road space in Havering makes the introduction of such facilities

challenging and are considered a contributing factor to congestion in the borough.

 Road closures – Given that travel within Havering is so limited by public transport, residents that use a car to travel should have the freedom to travel where they need to go without being obstructed by roads that have been permanently closed off. Road closures can lead to rat running in other roads and journey times can be lengthened due to unnecessary detours. Such closures can also be detrimental to emergency services when having to lock/unlock bollards.

# Risk assessment<sup>16</sup>

3.2.30. Table 8 below shows the principal risks associated with delivery of the LIP together with possible mitigation actions for the annual programme. The risk register summarises the strategic risks identified that could impact on the annual programme of schemes / initiatives.

<sup>&</sup>lt;sup>16</sup> Requirement R22: Boroughs are required to identify any projects that have significant potential of risk within the planned programme of works and identify any mitigation measures for these high-risk projects.

 Table 8 LIP Risk Assessment for the Annual Programme

LIP Risk Assessment for annual programme												
Diek	Lił	celiho	ood	Detential mitiration managemen	Inspect if pat mitingted							
Risk	H M L			Potential mitigation measures	Impact if not mitigated							
Financial												
Scheme Cost Increases		x		Project costs are reviewed internally on a bi-monthly basis and any variants in cost are escalated to the Programme Manager and relevant Senior Officer. Permission may then be given to transfer funds from one budget to another to ensure that the highest priority projects are completed whilst staying within the overall LIP Programme budgets. Where a scheme experiences delays opportunities to transfer funding to other priority schemes will be explored.	If the LIP Programme each year is not appropriately managed and monitored overspends may occur which have to be catered for from Council funding.							

Statutory / Legal			
Schemes that contribute towards the Council's statutory obligations	х	Programme Manager in place to monitor schemes within the LIP Programme. Bi monthly meetings held with project managers of LIP schemes to ensure schemes that contribute to statutory obligations are on track to be delivered within required timescales and guidance criteria. This includes the Council's School Travel Planning measures, Road Safety Education Training and Publicity Programme, and public transport reliability schemes contained in the 2019/20 Annual programme.	Unsuccessful scheme delivery means that the Council might not meet its obligations under the Traffic Management Act 2004 to ensure an expeditious movement of traffic on the authority's road network and Education and Inspections Act 2006 places a duty on local authorities to promote sustainable travel for journeys to, from and between schools and educational intuitions.
Third Party			

Stakeholder support	x	Early consultation is undertaken in advance of detailed design, so that any fundamental issues are addressed as soon as possible. Consultation is undertaken at the detail design stage.	Objections through consultation could lead to schemes not being delivered (if the schemes are subsequently rejected at Committee stage). This will impact on Havering being able to spend its annual LIP Funding allocation.
Public / Political			
Political compatibility	x	A spread of schemes across policy areas will ensure that LIP3 covers the whole range of targets and outcome indicators Elected Members are closely involved in scheme prioritisation and programme approval.	If schemes are rejected by elected Members, elements of the annual LIP programme will not be delivered which will impact upon target delivery.
Programme & Delivery			

Delays to progress work	x	Where it is possible to do so, scheme will be delivered across multiple years. Timescale for delivery allows sufficien time to undertake a feasibility study, develop a detailed design, undertake consultation, and address any identified issues. Consultation with statutory undertakers is undertaken at the earliest possible stage.	allocated to. If schemes have to continue in the next financial year in order to be delivered this would have implications for future year
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## 3.3. Three-year indicative Programme of Investment<sup>17</sup>

3.3.1. The Three Year indicative Programme of Investment (POI) has been completed as shown in Table 9 below.

#### Supporting commentary<sup>18</sup>

#### Three Year Programme of Investment Table

- 3.3.2. The Three Year Programme of Investment (Table 9) sets out the broad packages of measures the Council wants to deliver over the next three financial years (2019/20, 2020/21, 2021/22). In addition, the programme also sets out other programme areas where the Council has been allocated funding, including the Major Schemes and Liveable Neighbourhoods schemes the Council is delivering during the life time of the three year programme.
- 3.3.3. The packages of measures set out in the POI have been categorised under each of the Mayor's Transport Strategy priority themes A good public transport experience, Healthy Streets and Healthy People and New homes and jobs.

#### How have packages been identified?

- 3.3.4. Packages of measures have been prepared that support the Mayor's Transport Strategy Themes and Nine Outcomes. They have been grouped into programme areas that support these. The programme areas have been grouped into are, improving the public transport experience, Delivery of Vision Zero, Active, inclusive and safe travel, Healthy Streets and Unlocking Growth.
- 3.3.5. Consideration has been given to identifying packages that will support delivery of the Outcome Indicator Targets (see Table 13) relating to accident rates, public transport reliability, air quality, and modal shift.

<sup>&</sup>lt;sup>17</sup> Requirement R17: Boroughs are required to produce a costed and funded high-level indicative Programme of Investment that covers, by year, the three-year period 2019/20 to 2021/22.

<sup>&</sup>lt;sup>18</sup> Requirement R18: Boroughs are required to provide supporting commentary on: a. How the three year Programme of Investment has been derived, including how potential interventions have been identified and prioritised, and practical considerations relating to timescales, capacity and consultation b. The role of revenue-based investment, policy decisions, and third-party actions (including commitments outlined in TfL's Business Plan and investment programme) in delivering the borough's LIP objectives c. How the delivery of the Mayor's priorities will be supported at a local level.

Packages also reflect that the local authority has statutory obligations that it has to meet, in particular relating to KSI targets (National as well as Mayoral targets), sustainable access to and from school (Education and Inspections Act 2006), and the expeditious movement of traffic on the road network (Traffic Management Act 2004).

3.3.6. The POI supports the spatial strategy and the transport policies underpinning the Havering Local Plan and the longer term aspirations within this for unlocking growth and supporting the two Housing Zones. Measures identified in Table 7.2 of Havering's Infrastructure Delivery Plan (IDP) which supports the Local Plan are supported in the POI including the packages set out to deliver Vision Zero, and the Bus Stop Accessibility Programme.

#### **POI Programme Areas**

3.3.7. Packages are identified within each programme area. A brief summary of what is contained within each programme area is set out below:

#### Improving the Public Transport experience

3.3.8. Packages are focussed on improving journey time reliability on the bus network. The schemes delivered will include measures to address bus pinch points and to secure improved bus journey times.

#### Delivery of Vision Zero

3.3.9. Packages will support reducing accidents rates in Havering through casualty reduction schemes at accident 'hotspots'. The Road Safety Education, Training, and Publicity Package will deliver campaigns in Havering's schools around the dangers of the highway network for pedestrians, cyclists and other road users.

#### Active, inclusive and safe travel

3.3.10. These measures will encourage the benefits of travelling through Havering by means other than the car. Packages relating to the school and workplace travel programmes will offer support to schools and local businesses to encourage sustainable travel. Packages to support borough wide access improvements will look to improve access for all users in parks an alleyways across Havering.

### Healthy Streets

3.3.11. These packages will support Council programmes to support improved air quality across Havering and improving the environment for pedestrians around the eastern side of the Romford ring road.

### Unlocking Growth

3.3.12. Package will support the delivery of the Major scheme in Rainham and Beam Park and the Romford Liveable Neighbourhoods. Both these schemes will support the emerging Housing Zones that will be delivered over the next two decades.

#### Table 9 Programme of Investment

Three-year indicative programme of investment for the period 2019/20 to 2021/22							
The table summarises, at a programme level, the borough's proposals for the use of TfL borough funding in the period 2019/20 – 2021/22.							
London Borough of Havering	Prog	ramme budg	et (£)				
TfL Borough funding 2019/20 to 2021/22	Allocated 2019/20	Indicative 2020/21	Indicative 2021/22				
MTS Theme- A good public transport exp	erience						
Improving the public transport experies	nce						
Improving the reliability of public transport - Review of "pinch points" across the bus network in Havering and delivery of measures that support better journey time reliability on selected bus routes.	80k	50k	50k				

Bus Stop Accessibility Programme - Bringing bus stops in Havering up to the Mayoral accessibility standard. Borough wide BSA level is currently at 96% and further delivery in years two and three of Programme of Investment will bring a further 2% of stops up to the accessibility standard taking Havering wide BSA level to 98%.		50k	50k
Sub-total	£80k	£100k	£100k
MTS Theme - Healthy Streets and Healthy	y People		
Delivery of Vision Zero			
Casualty Reduction Package - Delivery of casualty reduction measures at KSI accident "hotspots" (as evidenced by KSI data) and measures to improve safety. Measures delivered will be based on outcome of accident analysis and feasibility studies the previous year. Package will include funding to deliver safety measures outside schools.	788k	700k	700k
Road Safety Education Training and Publicity - Delivery of an Education training and publicity programme across Havering both in schools and to the wider general public. It includes annual 'Safe Drive Stay Alive' event, in car seat safety checks, and 'Theatre in Education' productions.	90k	90k	90k

Controlled Parking Zones – Contribution to the funding of review, consultation and - where appropriate - installation of new CPZs and other parking measures across the borough to prioritise the available kerb space to support local residents and businesses	£40k		
Active, inclusive and safe travel			
Delivery of School Travel Planning and Business Engagement activities across Havering to encourage choices involving Smarter Travel.	185k	185k	185k
School Travel Planning Implementation - Delivery of measures identified within a School Travel Plan review by schools in Havering, to encourage pupil/parents to travel to school by sustainable means.	155k	155k	155k
Borough wide accessibility improvements - Review of pedestrian alleyways access and at entrances into parks and through open spaces to ensure they are suitable for all users.	20k	50k	50k
Borough wide Cycle Training - Delivery of Bikeability training in schools across Havering as well as adult and family training.	60k	60k	60k
Borough wide signage review - Review of cycle signage, wayfinding and ASLs		30k	30k

Unlocking Growth						
MTS Theme - New Homes and Jobs						
Sub-total	£1563k	£1545k	£1545k			
Greening the Romford Ring Road - Review the eastern side of the Ring Road and deliver measures that promote Healthy Streets indicators including <i>shade and shelter, places to</i> <i>stop and rest</i> and where <i>people feel</i> <i>relaxed.</i> Package will support complement the Romford Liveable Neighbourhoods project.	50k	100k	100k			
Implementation of Havering's Air Quality Action Plan - Delivery of Air Quality Action Plan measures that contribute to reducing NOx, and PM10 emissions across Havering.	125k	125k	125k			
Healthy Streets Review - "Reconnecting Neighbourhoods". Delivery of outcomes of Healthy Streets review that took placed in 2018/19 looking at improving sustainable access from Mawney Road into Romford town centre.	50k	50k	50k			
Healthy Streets						
across Havering to ensure infrastructure is safe on the highway and adequately maintained.						

Improving connectivity to/from and within the Romford and Rainham and Beam Park Housing Zones through the A1306 Beam Parkway Major Scheme and Romford Liveable Neighbourhoods programme (match funding commitments)	275k	275k	275k
Sub-total	£275k	£275k	£275k
Major Schemes			
Beam Parkway Major Scheme	£3096k	£2906k	
Sub-total	£3096k	£2906k	
Liveable neighbourhoods			
Romford Ring Road	£2000k	£2500k	
Sub-total	£2000k	£2500k	
Total	£7014k	£7326k	£1920k

Risks assessment<sup>19</sup>

3.3.13. Table 10 (below) shows the principal risks associated with delivery of the LIP together with possible mitigation actions for the three-year programme. The risk register summarises the strategic risks

<sup>&</sup>lt;sup>19</sup> Requirement R19: Boroughs are required to include a concise section on risk assessment and mitigation in preparing and considering options for their Delivery Plan.

identified that could impact on the three-year programme of schemes/initiatives.

LIP Risk Assessment for three-year programme 2019/20-2021/22							
Risk	Likelihood			Potential mitigation massures	Impact if not mitigated		
<b>NISK</b>	Н	М	L	Potential mitigation measures	Impact if not mitigated		
Financial							
Reduction in LIP Funding	Х			Regular monitoring of LIP Programme. If underspends within programme are identified schemes for future years can be brought forward. Continued dialogue with TfL so that Officers can be alerted to any reduction in funding as soon as possible.	If funding allocations are reduced across the Three Year Programme of Investment, this could lead to elements of the Programme of Investment not being delivered. The "knock on" effect of this would be that decisions would have to be made by on which programme areas should be delivered with the reduced funding. The impact of this is that some Mayoral Outcomes may not be able to be delivered within over		

			the course of the three year programme as funding would have to be prioritised.
Statutory / Legal			
Delays to Programme of Investment impact on the Council meetings its statutory obligations	x	Programme Manager in place to monitor the LIP Programme. Issues to be identified through bi monthly discussion with programme managers to ensure successful three year programme of delivery.	Unsuccessful Programme delivery means that Council might not meet its obligations under the Traffic Management Act 2004 to ensure an expeditious movement of traffic on the authorities road network and education in Inspections Act 2006 places a duty on local authorities to promote sustainable travel for journeys to, from and between schools and educational; institutions.
Third Party			
Stakeholder support	x	Early consultation is undertaken in advance of detailed design, so that any fundamental issues are	Objections through consultation could lead to schemes not being delivered. This will impact on being able to spend its annual LIP

			addressed as soon as possible. Consultation is undertaken at the detail design stage	Funding allocation.
Public / Political				
Policy and Political Compatibility		×	Ensure that elected Members are closely involved as Programme of Investment is progressed and are fully consulted on proposals as they develop.	There is a risk that elements of the Programme of Investment would not be delivered. This in turn would negatively impact on the boroughs ability to achieve the outcome indicator targets set in the LIP3.
Programme & Delivery				
Resource to plan design and implement the programme	x		Work planned in conjunction with in- house, contractor and consultant resources. Identification of a reserve list of schemes in order to ensure sufficient use of resources if schemes are delayed or additional funds are made available.	Elements of the programme may not be delivered because of a lack of resources which would impact on delivering LIP3 targets and meeting Mayoral Outcomes.

# 3.4. Sources of funding<sup>20</sup>

3.4.1. Table 11 (below) identifies the potential funding sources for implementation of Havering's LIP, including LIP funding allocation from TfL, possible contributions from Havering's funds, and funding from other sources.

### Supporting commentary

- 3.4.2. The key source of funding will remain Havering's LIP allocation from TfL. TfL's Business Plan notes that TfL's grant from Central Government has been cut from this financial year such that TfL must reduce its own budget by £700m on average per annum. There is currently a degree of uncertainty as to the precise level of funding boroughs are expecting to receive as part of their "Corridors" LIP Allocation over the next three financial years. Following discussion with TfL officers have based their submission on the initial allocation that the borough received following the launch of TfL's Five Year Business Plan which equates to £1918.2k.
- 3.4.3. It is currently unknown whether Havering will receive funding for Principal Road Maintenance through the lifetime of the Three Year Delivery Plan. TfL announced that no funding was being allocated for the 2018/19 and 2019/20 financial years due to the reduction in their central government grant. In addition to the above Corridors funding, Havering is expecting to receive funding for Beam Parkway Major Scheme and Romford Liveable Neighbourhoods scheme.
- 3.4.4. The borough is expecting to submit a funding application under the Mayor's Air Quality Fund (MAQF) in early 2019.
- 3.4.5. Table 11 (below) sets out potential sources of funding to support LIP delivery over the 2019/20 2021/22 financial years.

<sup>&</sup>lt;sup>20</sup> Requirement R15: Boroughs are required to identify all interventions that are intended to be wholly or partly funded using LIP funding in the borough's Programme of Investment. Boroughs should identify the proposed funding source for each of these interventions, i.e. how much is from LIP funding allocations and how much comes from other sources (for example, the council's own capital and revenue sources, Section 106/CIL contributions, or other sources of TfL/GLA funding, such as Growth Areas).

### Table 11 Potential Funding for LIP Delivery

Funding source	2019/20	2020/21	2021/22	Total			
TfL/GLA funding							
LIP Formula funding –Corridors & Supporting Measures	£1918k	£1918k	£1918k	£5754k			
Strategic funding	£5096k	£6106k	£700k	£11902k			
GLA funding	£4206k	£304k		£4510k			
Sub-total	£11220k	£8328k	£2618k	£22166k			
Borough funding							
Capital funding	£200k	£270k		£470k			
Sub-total	£200k	£270k		£470k			
Other sources of funding							
Developer Contributions*	£132k			£132k			
Sub-total	£132k			£132k			
Total	£11552k	£8598k	£2618k	£22768k			

\*Includes CIL

## 3.5. Long-term interventions to 2041<sup>21</sup>

3.5.1. In the medium to long-term, Havering believes that a number of significant, but currently unfunded, investments will be required to ensure the economic and social vitality of the borough. These are shown in Table 12 (below) with indicative funding and indicative but uncommitted timescales.

## Supporting commentary

- 3.5.2. The list of potential schemes in Table 12 reflects the borough's highlevel ambitions for investment and improvements in its strategic transport network up to the year 2041.
- 3.5.3. The list draws from the most significant and ambitious schemes outlined in Policy 23 of Havering's Local Plan Proposed Submission and Havering's Infrastructure Delivery Plan highlighting both short term schemes (expected to be delivered by 2021) as well as long term schemes (projected up to 2041). Havering is also working collaboratively with neighbouring local authorities east of the M25 to improve the A127 corridor between Southend and Gallows Corner. This is with respect to accommodating accumulative Local Plan growth across the wider sub-region in south Essex and providing appropriate strategic mitigation measures through cross boundary initiative working, with key stakeholders including Essex County Council, Highways England, Brentwood Borough Council, Basildon Borough Council, and Southend Borough Council.
- 3.5.4. As outlined in Policy 23 of the Local Plan Proposed Submission, the Council supports providing developments in Havering in locations that are most accessible by a range of transport options, delivering initiatives that enable sustainable and active travel across the borough to help to meet its statutory targets and support the Mayor's Healthy Streets agenda.
- 3.5.5. Policy 23 contains a number of priorities to make the borough more accessible for its residents and visitors; of which the below specifically align with the aspirations as detailed in the long term interventions in Table 12:

<sup>&</sup>lt;sup>21</sup> Requirement R16: Boroughs are required to provide a list of potential schemes up until 2041, together with a short explanation of the reasons for their inclusion in the Delivery Plan.

- Progressing improved north to south public transport connections in the borough, improving access to the Romford and Rainham and Beam Park Strategic Development Areas and Queens Hospital
- Improving bus connections to/from key trip generators
- Enhancing strategic transport links across the borough
- Providing residents with options to travel sustainably and enabling walking and cycling
- Working with partners to provide sustainable access to key employment areas across the borough including Rainham Employment Area
- Requiring new development to optimise sustainable access and other future transport connections, wherever applicable
- Tackling key congestion "hotspots" through remodelling of Gallows Corner and Romford Ring Road to reduce congestion and improve air quality
- Ensuring good sustainable access between new developments and public transport interchanges in the borough to promote active travel
- Supporting new developments that include shared use routes for people walking and cycling which lead to public open spaces and parks to promote active recreational activities
- Taking an active role in the A127 Corridor for Growth project through cross borough engagement with Essex County Council and seeking improvements to the A127 that will facilitate growth along this corridor
- Working with neighbouring authorities to better co-ordinate highway works
- 3.5.6. This illustrates the strong link between the schemes proposed and Havering's own adopted strategies and objectives.
- 3.5.7. This is consistent with the Mayor's Transport Strategy vision to create a future London that is not only home to more people, but is a better place for all of those people to live in - and supports the overarching aim and nine outcomes.
- 3.5.8. Havering aims to reduce its dependence on car trips through the provision of enhanced sustainable transport links and improved facilities and infrastructure for active modes of travel and, by providing residents with alternative options to travel by private vehicle. This not only supports the MTS overarching aim, but links further to the objectives identified in the 'heathy streets and healthy people' and a 'good public transport experience' priority area for action. Support for the two housing zones within Romford and Beam Parkway draws on the MTS vision and the

remaining priority area for action '*new homes and jobs*', with improved transport links supporting new developments and unlocking key areas of expansion, creating a better place to work and live.

3.5.9. This is further reiterated in the objectives matrix, which clearly demonstrates the link between the MTS overarching aim and each of the nine outcomes with the boroughs objectives, of which align closely with Havering's Local Plan and aspirations as previously established.

Long-term interv	Long-term interventions up to 2041								
Project	Approx. date	Indicative cost	Likely funding source(s)	Scheme Description	Comments				
Strategic Transport Intervention - Improved North South connectivity through Tram/Light Rail link	2041	To be confirmed - feasibility study including costs estimate currently being carried out.	TfL LIP Funding has already been used to commission a high level feasibility study looking at potential route options for a north south tram link. Further work on economic appraisal and potential additional housing development to be undertaken later in 2018/19. This is likely to be funded through existing 2018/19 LIP Budgets. Funding sources for scheme delivery have not yet been identified. This is likely to become clearer once the economic appraisal work has been carried out. This work is expected to be completed by the end of the	A rapid transit link to improve north – south connectivity across the borough, in particular improving accessibility to Rainham, Romford and further north including collier Row.	Connection will improve north/south connectivity within the borough and support the two Housing Zones being delivered over the next two decades.				

			financial year.		
Strategic Transport Intervention - Reconfiguration of Gallows Corner Junction	2041	£700m	TfL initially carried out a high level study exploring different options for remodelling Gallows Corner junction. This study suggested that sinking Gallows Corner junction would cost around £700m. A more detailed study will be commissioned in 2018/19 looking at options for 'sinking' Gallows Corner junction and the potential costs Potential funding sources will be explored as part of the feasibility work.	Remodelling of Gallows Corner which will involve "sinking" the junction to address congestion and smooth traffic flows at this busy traffic "hot spot".	Remodelling Gallows corner will help to address several issues including Air Quality, tackling congestion and reducing the effect the junction has on being a barrier to people wishing to travel into Romford from the north of the borough. The proposal will enable better links between Harold Hill and Romford. It has the potential to improve the environment and provide scope for further development.

Beam Park Station	2021	£37.5m	TfL, GLA, Developer contribution	Delivery a new station on the Essex Thameside line between Rainham and Dagenham Dock to provide direct access into central London for residents in the Rainham and Beam Park Housing Zone.	Will improve connectivity in the Rainham and Beam Park Housing Zone.
A1306 Beam Parkway Major Scheme	2021	£12m	TfL Major Scheme £7.8m GLA Housing Zone 4.5, TfL, LIP 0.45m,	Delivering transformational change to the road layout along the A1306 between Dovers Corner and borough A1306 Beam boundary including Marsh Way bridge (2 kilometres Parkway Major Scheme in length). This scheme will include Pocket Parks, play areas, new crossing points and shared use paths along the entire route to support the Rainham and Beam Park Housing Zone. This	Scheme has ability to transform the way residents travel in the south of the borough and will unlock Rainham and Beam Park Housing Zone development.

				scheme is currently going through the detailed design process through TfL's Major Schemes programme.	
Romford Liveable Neighbourhoods	2019- 2025	£7m	Transport for London GLA	Improving walking and cycling access into Romford town centre including an improved east west link. Havering has been allocated funding to develop proposals to deliver improvements to junctions along the western side of the ring road. This aspiration is to	Will improve access into the town centre for people wishing to travel sustainably. The scheme will benefit particularly residents in the Housing Zone on the west side of Romford.

				improve access into the town centre for people wishing to travel sustainably through TfL's 'Liveable Neighbourhoods' programme based on TfL's Healthy Streets Initiative. Scheme would include improvements to Ring Road junctions to make it easier to access Romford town centre by means other than the car.	
Romford Town Centre Master Plan	2020- 2026	£10m	TfL	Delivery of Romford Public Realm Master Plan	Transformational change of Romford town centre including interventions necessary to make the town centre a more safe pleasant place to arrive at and move through for all users.
Romford Station Southern Entrance	2016- 2021	£3.5m	TfL, Crossrail, GLA	Improvements to Romford Station. This includes developing a better interchange facility	Southern entrance would improve interchange between passengers using the

Improvements				for passengers transferring from bus services south of Romford station into the station itself. . The Council continues to press the case for a southern entrance for Romford station.	bus stops to the south of the station and the station itself. The scheme has the potential to benefit development on the south side of the station at the Station Gateway site.
Romford Market Transformation	2021	£2m	TfL/GLA	Positively transform the Market Place into a high quality civic space, accommodating a reconfigured, successful and vibrant market with a re-imagined public space and an enhanced retail and restaurant offer.	The scheme will support wider Romford town centre and local economy.
London Riverside Beam River bus bridge - linking and LB Barking & Dagenham on	2021	£10m	TfL	Delivery of a link road to be used by buses that bridges the Creek and will connect existing roads. This will provide access to the Fairview Industrial estate and allow buses to travel on	The scheme would improve connectivity in the London Riverside BID area.

Ford Land.				further through the Rainham and Beam Park Strategic Development Area.	
London Riverside Conservation Park	2021	£5m	TfL	London Riverside Conservation Park (Wildspace) – Development of Sustainable Transport Options (walking, cycling, bus, tram)	The scheme will support wider transformational improvements along the A1306 (Beam Parkway) and Rainham and Beam Park Housing Zone.
London Riverside Orbital bus service	2021	£2m	TfL	Connecting SIL and Rainham. Will provide bus linkages links to Rainham from elsewhere in access to London Riverside as well as within the local area.	The proposal supports the delivery of the London Riverside Opportunity Area, the Rainham and Beam Park Housing Zone, the new Beam Park station and Beam Parkway A1306 highway scheme.

# 3.6. Monitoring the delivery of the outcomes of the MTS

#### Overarching mode-share aim and outcome indicators<sup>22</sup>

- 3.6.1. Following discussions with Transport for London, Havering has set targets against each of the Mayor's outcome indicators. The outcome indicators stem from the Mayoral outcomes contained in the Mayor's Transport Strategy and are designed to measures a borough's progress for delivering the Mayor's Transport Strategy locally.
- 3.6.2. The monitoring of outcomes is an essential element of the LIP process in order to understand progress in delivering the Mayor's Transport Strategy in Havering. TfL has provided boroughs with trajectories for each of the Mayor's Transport Strategy outcomes. TfL acknowledge that the trajectory of change will vary across London and that each borough will contribute in different ways to each of the outcome indicators. Some of the outcome indicators will inevitably be more challenging to some boroughs than others because of a borough's local characteristics.
- 3.6.3. Boroughs are required to set targets against the overarching mode share aim and the nine outcomes using the respective outcome indicators.
- 3.6.4. Table 13 provides further information on the targets Havering has set against each of the Mayoral outcome indicators together with how this compares to TfL's trajectories for Havering. In some cases, Havering has set a different target compared to TfL's trajectory. Commentary has been provided in these instances to explain why it is appropriate to identify specific targets for Havering.

### Delivery indicators<sup>23</sup>

3.6.5. The delivery indicators are set by TfL but will be monitored by boroughs. The delivery indicators provide information on measures and interventions delivered through TfL funded projects that support the delivery of the Mayor's Transport Strategy outcomes. Havering will

<sup>&</sup>lt;sup>22</sup> Requirement R23: Boroughs are required to set targets against the overarching mode share aim and the nine outcomes using their respective outcome indicators.

<sup>&</sup>lt;sup>23</sup> Requirement R24: Boroughs are required to collect this information and submit it to TfL using Proforma C on at least an annual basis.

monitor and record the delivery indicators relevant to Havering and report on these to TfL once a year.

#### Table 13 Borough Outcome Indicators Targets

Objective	Metric	Borough target	Target year	Additional commentary
Ove	erarching mode share aim in the	Mayor's Tra	ansport St	trategy – changing the transport mix
Londoners' trips to be on foot, by cycle or by public transport	Active, efficient and sustainable (walking, cycling and public transport) mode share (by borough resident) based on average daily trips. Base period 2013/14 - 2015/16.	46%	2021	The latest Travel in London Report says that Havering's current walking, cycling and public transport mode share is 45%. The Elizabeth line (Crossrail) is expected to be fully operational within Havering by 2021. This will increase capacity at Romford, Gidea Park and Harold Wood stations and support an increase in modal shift in future years as far as journeys that can be made by train are involved Substantial investment in transport infrastructure will be required in order to meet the Mayor's long term target of 65% of Havering residents' journeys be by walking, cycling or using public transport by 2041.Havering's aspirations for better connectivity through sustainable transport is set out in <i>Long term interventions to 2041</i> section of the Three Year Delivery Plan.

Objective	Metric	Borough target	Target year	Additional commentary		
				Havering is currently undertaking high-level feasibility work looking at options for improving north south connectivity within the borough in the form of a light rail/tram link between Rainham, Romford and further north into Collier Row and Harold Hill. If established this link would help contribute to the long term modal shift target.		
				The Havering Local Plan sets out Havering's commitment to the delivery of other measures that will assist in securing modal shift such as ensuring new development is in accessible locations and the encouragement of active travel modes and programmes.		
Mayor's Transport Strategy Theme : Healthy Streets and healthy people						
Mayor's Transport Strategy : outcome 1: London's streets will be healthy and more Londoners will travel actively						

Objective	Metric	Borough target	Target year	Additional commentary
Londoners to do at least the 20 minutes of active travel they need to stay healthy each day	Proportion of London residents doing at least 2x10 minutes of active travel a day (or a single block of 20 minutes or more).	21	2021	The target has been set in line with proportionate increase in the number of Londoners that do at least 20 minutes of active travel a day between 2013/14 – 2015/16 and 2014/15 to 2015/16 (i.e. 11%). Havering already does significant work through its School Travel Plan programme to encourage pupils and parents to travel to/from school by means other than the car. Since the STARS Accreditation programme was established to recognise achievements in school travel planning, car use on the school run in Havering has reduced from 40% down to 21%. Havering has a very successful STARS Accreditation programme with over two thirds of Havering's schools engaged in the School Travel Plan process. Out of the 60 schools that are engaged , 55 are accredited.34 schools are accredited at Gold level and this is amongst the highest in London. Havering launched a Prevention of Obesity Strategy in 2016. It includes an Action Plan and measures to support active travel are included.

Objective	Metric	Borough target	Target year	Additional commentary
Londoners have access to a safe and pleasant cycle network	Proportion of Londoners living within 400m of the London-wide strategic cycle network.	0	2021	<ul> <li>Havering currently does not have any cycle 'Quietways' or Cycle Superhighways.</li> <li>Havering worked with TfL to develop 6 proposed Quietway routes for consideration in 2014 but was unsuccessful in receiving funding to develop any of these to the detailed design stage. For this reason, it is appropriate for the target to be 'nil'.</li> <li>Through TfL's Major Schemes programme, Havering is progressing a transformational scheme called "Beam Parkway". It involves 'downgrading' the A1306 to improve its permeability and make it more pedestrian and cyclist 'friendly'.</li> <li>Whilst this scheme is set to be delivered during the initial Three Year Programme of Investment period, because the Rainham and Beam Park Housing Zone is going to be developed over two decades it is unlikely to increase the proportion of Havering residents living within 400m of the London Strategic Cycle Network in the near future.</li> </ul>

Objective	Metric	Borough target	Target year	Additional commentary
				Additionally, Havering has successfully received 'Liveable Neighbourhoods' funding to consider opportunities on the western side of the Romford Ring Road. The scheme will address 'permeability' issues and make it easier for people to access Romford town centre by sustainable means of travel. This scheme is currently at the feasibility stage. It would benefit especially residents in the Housing Zone to the west of Romford.
Mayor's Transport St	rategy : Outcome 2: London's str	eets will be	e safe and	secure
Deaths and serious injuries from all road collisions to be eliminated from our streets	Deaths and serious injuries (KSIs) from road collisions, base year 2005/09 (for 2022 target)	42	2022	A review of accident data within Havering highlighted that a substantial number of accidents occur on the Transport for London Road Network (TLRN) or the Highways England network. In 2017, for example, 18% of all KSI's in the borough occurred on the TLRN and 4% of KSI's occurred on the Highways England network. Responsibility for accident reduction on the TLRN or the M25 in Havering is TfL or Highways England respectively.

Objective	Metric	Borough target	Target year	Additional commentary
				The funding that Havering allocates through the Local Implementation Plan to casualty reduction measures is specifically for locations that the borough is responsible for (such as B roads and the Principal Road Network). Havering does not allocate funding to deliver schemes that are part of the TLRN or Highways England's road network. The Council will continue to work closely with the respective operators of the TLRN and M25 to support reducing casualties on these roads. The Council supports the proposed improvements to Gallows Corner junction in Havering which are proposed to tackle KSI rates at this very busy junction. The Council is also working closely with Highways England as it develops proposed capacity improvements to J28/M25 which will also support reducing casualty rates.
	Deaths and serious injuries (KSIs) from road collisions base	19	2030	See above comments

Objective	Metric	Borough target	Target year	Additional commentary			
	year 2010/14 (for 2030 target).						
Mayor's Transport Strategy : Outcome 3: London's streets will be used more efficiently and have less traffic on them							

Objective	Metric	Borough target	Target year	Additional commentary					
				Traffic volume data from the Department for Transport shows that between 2015 and 2016 the volume of traffic in Havering increased by around 3.2%.					
		verall 124,749		Data from DfT traffic flow counts over a 5 year period (2011 – 2016) shows an increase in traffic volumes of 7.8%.					
				Havering's own traffic count data also confirms that traffic in Havering continues to increase year on year. Automated Traffic Count data analysed at over 60 counts over the five year period 2011 to 2016 shows an increase in traffic volumes of around 3.5%					
Reduce the volume of traffic in London.	Vehicle kilometres in given year. Base year 2015. Reduce overall traffic levels by 10-15 per cent.		124,749	124,749	124,749	124,749	124,749 2021	124,749	2021
			Havering has three major trunk roads (A12,A13 and A127) carrying strategic traffic through the borough. For example, Gallows Corner junction has up to 90,000 users on a daily basis, and the A127 flyover handles 13,000 vehicles across the AM and PM peaks.						
			It is unrealistic to reduce Havering's traffic levels by the target identified given the circumstances in Havering in which journeys take place (ass et out above).Havering. In addition to this an unrealistic target to set.						

Objective	Metric	Borough target	Target year	Additional commentary
Reduce the number of freight trips in the central London morning peak.	10 per cent reduction in number of freight vehicles crossing into central London in the morning peak period (07:00am - 10:00am) by 2026.	N/A	N/A	Applicable to central London Boroughs only.
Reduce car ownership in London.	Total cars owned and car ownership per household, borough residents. Quarter of a million fewer cars owned in London. Base period 2013/14 - 2015/16.	124,749	2021	<ul> <li>In 2011, 77% of households in Havering had at least one car. Havering has the second highest proportion of households (32.8%) with 2 or more cars in London.</li> <li>Car ownership in Havering has increased year on year. Between 2014 and 2016, car ownership increased by about 4%. Many residents will continue to rely on the car as a mode of travel, particularly for north/south journeys in the light of transport circumstances in Havering (as set out above).</li> <li>It will be very challenging to maintain car ownership at its current level in Havering given that car ownership and traffic volumes in Havering have increased in recent years as a reflection of the circumstances in the borough.</li> </ul>

Objective	Metric	Borough target	Target year	Additional commentary	
				The Council will be looking to carry out some feasibility work looking into the demand for car clubs through delivery of the Air Quality Action Plan.	
Mayor's Transport Strategy Outcome 4: London's streets will be clean and green					

Objective	Metric	Borough target	Target year	Additional commentary
Reduced CO <sub>2</sub> emissions.	CO <sub>2</sub> emissions (in tonnes) from road transport within the borough. Base year 2015/16.	328,200	2021	A 2013 baseline makes it challenging to establish how Havering is progressing against the trajectory that TfL have provided given this data is five years old. Several initiatives are currently being delivered by Transport for London and other Mayoral agencies and should help Havering meet its 2021 target for CO2 reduction. These include introduction of the LEZ and the ULEZ. The ULEZ is not directly within Havering but many residents and businesses that travel within the relevant area are impacted by the scheme and will have to make adjustments to their vehicles. Through its adopted Air Quality Action Plan, the Council will be undertaking feasibility work to assess the demand within the borough for electric vehicle charging points.

Objective	Metric	Borough target	Target year	Additional commentary
Reduced NO <sub>x</sub> emissions.	NO <sub>x</sub> emissions (in tonnes) from road transport within the borough. Base year 2013.	500	2021	A 2013 baseline makes it challenging to establish how Havering is progressing against the trajectory that TfL have provided. Several initiatives currently being delivered by Transport for London and other Mayoral agencies should help Havering meet its 2021 target for NOx reduction. These include introduction of the LEZ and the ULEZ. Non Road Mobile Machinery (NRMM) contributes a significant amount to London's poor air quality (the London Atmospheric Emissions Inventory (LAEI) estimated that in 2010 NRMM was responsible for 12% of Nitrogen Oxides (NOx) and 15% of PM10 emissions in Greater London). In order to address this problem, Havering is now part of the NRMM Low Emission Zone, which restricts the type of NRMM used in construction sites within the borough.

Reduced particulate emissions.PM10 and PM25 emissions (in tonnes) from road transport within borough. Base year 2013.77 (PM10) 39 (PM 2.5)2021A 2013 baseline makes it challenging to establish how Havering is progressing against the trajectory that TfL have provided given the data is five years old.Reduced particulate emissions.PM10 and PM25 emissions (in tonnes) from road transport within borough. Base year 2013.77 (PM10) 39 (PM 2.5)2021The Council launched its "Miles the Mole" Air Quality Campaign in 2016. It focusses on the impacts of poor air quality on health. The campaign encourages residents to travel by means other than the car.	Objective	Metric	Borough target	Target year	Additional commentary
147	· ·	tonnes) from road transport	(PM10) 39 (PM	2021	<ul> <li>Havering is progressing against the trajectory that TfL have provided given the data is five years old.</li> <li>Several initiatives currently being delivered by Transport for London and other Mayoral agencies should help the borough meet its 2021 target for PM 2.5 and PM10 reduction. These include introduction of the LEZ and the ULEZ.</li> <li>The Council launched its "Miles the Mole" Air Quality Campaign in 2016. It focusses on the impacts of poor air quality on health. The campaign encourages residents to travel by means other than the car.</li> </ul>

Objective	Metric	Borough target	Target year	Additional commentary
	Mayor's Transport Strate	gy Theme:	A good pi	ublic transport experience
Mayor's Transport St	rategy Outcome 5: The public tra	insport net	work will n	neet the needs of a growing London
More trips by public transport - 14-15 million trips made by public transport every day by 2041.	Trips per day by trip origin. Reported as 3yr moving average. Base year 2013/14 - 2015/16.	120	2021	The Elizabeth line (Crossrail) is due to be fully operational by 2021 improving journey times and capacity for residents using Romford Gidea Park and Harold Wood Stations. A new station along the Essex Thameside line is to be built between Rainham and Dagenham Dock at Beam Park. It will serve the Rainham and Beam Park Housing Zone and will provide direct access to London for residents. Havering's three year delivery programme will include schemes to improve the reliability of public transport (particularly bus journey times) and to increase the number of accessible bus stops in Havering. This is currently at 96% but by the end of the three year delivery programme it will have increased to 98%.

Objective	Metric	Borough target	Target year	Additional commentary
				These key pieces of strategic transport infrastructure should help Havering work towards its 2021 target.
Mayor's Transport St	rategy Outcome 6: Public transp	ort will be s	afe, afforc	able and accessible to all
Everyone will be able to travel spontaneously and independently.	Reduce the difference between total public transport network journey time and total step-free public transport network	88 minutes ( full network) 91 minutes ( step free network)	2041	2015 baseline data shows the average journey time on the full network at 97 minutes and the average journey time using the step free network at 107 minutes giving a difference between the two of ten minutes. The 2041 target is for the average journey time on the full network at 88 minutes and the average journey time on the step free network of 91 minutes, reducing the different to 3 minutes between both networks. In recent years, Havering has delivered a bus stop accessibility programme which has seen the number of bus stops meeting the Mayor's accessibility standard in Havering increase from 37% to 96%. A further 2% is likely to be delivered through Havering's Bus Stop Accessibility Programme during the Three Year

Objective	Metric	Borough target	Target year	Additional commentary
				<ul> <li>Programme of Investment.</li> <li>The new station which is set to be delivered at Beam Park will also be step-free.</li> <li>As part of the Crossrail programme, lifts are being installed at Romford, Gidea Park and Harold Wood station. Through the Crossrail Complementary measures programme, the public realm around the vicinity of each station is being improved for all users.</li> <li>Whilst the stations that are located within the borough are the responsibility of other transport provides (TfL for London Underground, Overground and TfL Rail and C2C for stations along the Essex Thameside line)</li> <li>Havering continues to lobby for improvements to be delivered through TfL's step-free access is available, particularly at Rainham, Hornchurch and Upminster Bridge Stations.</li> <li>Train Operating company C2C, who run the Essex Thameside franchise, are putting together a funding submission for the Department for Transports Access for</li> </ul>

Objective	Metric	Borough target	Target year	Additional commentary
				All programme for facilities to support step free access at Rainham and Upminster stations. The Council is providing support for these submissions.
Mayor's Transport St	rategy Outcome 7: Journeys by <b>j</b>	oublic trans	sport will b	be pleasant, fast and reliable
Bus journeys will be quick and reliable, an attractive alternative to the car	Annualised average bus speeds, base year 2015/16	12.2 mph	2021	Each year Havering delivers an "improving the reliability of public transport" programme. This looks at identifying "pinch points" along the bus network. This is done through reviewing TfL bus data to establish where delays are on the route network and also speaking directly with the bus operators. Schemes can include carriageway widening at junctions (such as Pettits Lane North/A12 junction) and two wheel footway parking schemes (Petersfield Avenue). Through the three year Programme of Investment, Havering will look to identify "pinch points" along the bus network and deliver targeted improvements at these locations to improve bus journey times. Some types of bus priority are more difficult to deliver in Havering. For example due to limited road space and

Objective	Metric	Borough target	Target year		Additional commentary	
				in Haverir	vay widths it is very difficult to deliver bus lanes ng beyond what is already in place on the vithout significantly impacting on traffic flows in lgh.	
				Havering has recently received funding through a Priority Delivery Portfolio programme to delivery improvements to Upminster North/South junction support bus movements. If further future year fur made available through the Bus Priority Deliver F it is anticipated that the 2021 target set for this o indicator should be met.		
	Mayor's Transport	ransport Strategy Theme : New homes and jobs				
Mayor's Transport St	Mayor's Transport Strategy Outcome 8: Active, efficient and sustainable travel will be the best options in new developments					
Mayor's Transport Strategy Outcome 9: Transport investment will unlock the delivery of new homes and jobs						
N/A	No Outcome indicators		N/A	N/A	N/A	

# 3.7. TfL Business Plan<sup>24</sup>

- 3.7.1. In developing and preparing its programme of works (as outlined in the Delivery Plan), Havering has considered the Mayor's aspiration to deliver the major projects in TfL's Business Plan and the milestones associated with these projects including major infrastructure associated with Growth Areas and Opportunity Areas.
- 3.7.2. The following TfL projects have implications for the London Borough of Havering.

## Crossrail (Elizabeth Line)

- 3.7.3. The first phase of the Elizabeth line became operational in May 2017 when TfL Rail took over operation of the London Liverpool Street Shenfield "metro" services. A number of the new Elizabeth line trains operate along this route and provide, increased capacity as a result of the trains being longer. When it is fully open, the Elizabeth Line will be more than 60 miles from Reading and Heathrow in the west through central tunnels across to Shenfield and Abbey Wood in the east.
- 3.7.4. It is currently unclear when the entire Elizabeth line will be fully operational following delays involving the construction and testing of central section of the route.
- 3.7.5. When the Elizabeth line is fully operational it will enable improved journey times and allow passengers travel from Romford directly into central London and further west without having to interchange at Stratford or Liverpool Street. A fully operational Elizabeth line will allow passengers from Romford to reach Canary Wharf in 28 minutes and Paddington in 38 minutes. A fully operational Elizabeth line will have a positive impact on the local economy with improved access to central London, Heathrow airport and key leisure and entertainment services (in the West End).
- 3.7.6. Passengers who use the Essex Thameside line will also have convenient access to Elizabeth line services through interchanging at Upminster Station and boarding London Overground services to Romford from where they will be able to board Elizabeth Line services.
- 3.7.7. To support the introduction of the Elizabeth Line, the Council has been delivering complementary measures to improve access to and from the

<sup>&</sup>lt;sup>24</sup> Requirement R14: When preparing their LIPs, boroughs are required to take into account the major projects and investment in all modes of transport, as well as the investment in the road network that may impact on their borough, as set out in the TfL Business Plan.

three stations in Havering which have services on the Elizabeth Line, (Romford, Gidea Park and Harold Wood). Further information on Havering's Crossrail Complementary Measures (CCM) programme and how it supports Crossrail can be found in the *Outcome 5: The public transport network will meet the needs of a growing London* section of this document.

#### Modernisation of the District Line

3.7.8. The modernisation programme of the Circle, District, Hammersmith and City and Metropolitan lines will see 33 trains an hour running on some sections once completed in 2022/23. This will add 33% more capacity to these lines. A new signalling system will optimise the benefits of the most recently introduced trains which are air conditioned and have 10% more capacity and dedicated wheelchair spaces. Havering has four stations along the District line at Elm Park, Hornchurch, Upminster Bridge and Upminster. Upminster Station is a key interchange in Havering with passengers being able to change between Essex Thameside, London Overground and District line services.

#### Liveable Neighbourhoods

3.7.9. The TfL Business Plan includes a commitment to continue to fund the Liveable Neighbourhoods programme to transform town centres and neighbourhoods so they are attractive places to walk, cycle and spend time. As well as the Romford 'Liveable Neighbouring' scheme in Romford six other Liveable Neighbourhood schemes are being progressed in Ealing, Haringey, Waltham Forest, Hackney, Greenwich and Lewisham.

#### Ultra-Low Emission Zone (ULEZ)

3.7.10. The Ultra-Low Emission Zone will be introduced in Central London in 2019. Early in 2018 TfL consulted on plans to expand the ULEZ to the North and South Circulars. Havering responded to this consultation highlighting that whilst the Council was not adverse to the extension, if the proposal was agreed it was important that the changes are properly communicated to local residents and businesses before the scheme is implemented. Havering has one of London's largest Business Improvement Districts (BID) and such changes would impact on many of these businesses who make journeys into inner and central London.