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# Commissioner's foreword

Transport for London (TfL) is one of the world's leading and most successful integrated transport authorities. TfL has gained global respect for its innovative and progressive approach to the delivery of a world-class service that shapes the lives of the citizens it serves.

The global coronavirus pandemic has had a devastating impact on our lives, society, the UK economy and our finances. We recognise the challenges we are faced with and we are passionate about playing our part in leading London and the wider UK economy out of the coronavirus pandemic to build a better, green, just and inclusive recovery.

We are doing this by leveraging our partnerships and our position to contribute to the national recovery. With one of the most mature low-carbon transport systems in Europe and a vast supply chain, 68 per cent of which is outside London, we are uniquely positioned to support the Government's national priorities to progress to a carbon-free future and create wealth and employment that will level up the national economy. Our capital expenditure is already biased towards the green recovery and, with the right capital investment, we can accelerate this to meet the 2030 ambition to decarbonise transport.

I'm proud to work for an organisation that cares deeply about helping to build a fair, prosperous and environmentally sustainable London and wider world. I see evidence of this every day in what we do.

We are a big organisation, and with that comes big responsibility. The long-term success of cities and organisations depends on them operating sustainably. Those that do not, will no longer be viable in the decade

ahead. We intend to not only be viable in the coming decade, but to continue to serve London for generations to come. This is why we are thinking in broader terms – how we impact society and communities, health, the environment and the economy – not only for the reasons of corporate social responsibility, but to support our goal of becoming financially sustainable.

While we have come a long way, there is still a lot of progress to be made. I am determined to drive continual improvement at TfL to maximise our contributions towards the global Sustainable Development Goals, to get better at understanding the impact of our day to day and business planning decisions on our sustainability outcomes, and to create a fair and inclusive organisation that represents the city it serves.

A key step on this journey is the publication of our first TfL Sustainability Report. This report outlines the kind of organisation we want to be and underscores our commitment to continually challenge ourselves to provide an even better service for everyone.

Andy Byford Commissioner



# Our reporting

# Sustainable development is core to our purpose

We are the integrated strategic transport authority for London and one of largest public transport operators in the world.

We regulate and contract for many vital transport services, renew and maintain an expansive and complex asset base, provide new infrastructure, are a landlord, and have a significant commercial portfolio, including property development and advertising. We directly employ around 27,000 people.

Sustainable development is core to our purpose. Our strategies, plans and regular reporting on sustainability performance are centred around the principles of:

- Social development
- Improvement of the environment
- Economic development

In delivering these principles we aim to play our part in achieving the United Nations Sustainable Development Goals, which are listed on page 8. These are a collection I7 interlinked global goals designed to be a 'blueprint to achieve a better and more sustainable future for all'. The Sustainable Development Goals were set up in 2015 by the United Nations General Assembly and are intended to be achieved by 2030.

To guide our approach to reporting, we are using the Global Reporting Initiative Sustainable Reporting Standards, and have structured this report around the 'three pillars of sustainability': Society, Environment and Economy.

This Sustainability Report is our first, and sets out our work in this area, highlighting where we want to improve. Page 44 provides a list of our reports and other sources where more detailed information can be found in relation to our sustainable development impact.

We aim to play our part in achieving the United Nations Sustainable Development Goals



# This is the beginning of our journey to get better at telling a powerful and robust story on our sustainability agenda We want to secure a green and inclusive recovery for London

# Why now?

There is a widespread ambition that the legacy of the pandemic should be to deliver a better, greener future

We believe that we are well placed to help London build back better. This report aims to set out our work to date in this area and to provide a framework embedding sustainability into everything we do.

The desire to tackle issues of social inequality and improve social cohesion is stronger than it is has ever been. The United Nations recently published the Intergovernmental Panel on Climate Change (IPCC) Sixth Assessment Report on the physical science of climate change, which makes very clear that this is a critical decade for accelerating action on climate change. It is essential that governments deliver on the Paris Agreement with robust and tangible plans at the COP26 summit in Glasgow in November 2021.

With sufficient funding, TfL can play a leading role helping the UK address the climate emergency. We have witnessed increasingly serious and frequent weather events and tackling the climate and ecological crisis has become a central theme in almost all public policy and discourse. We must use our influence and position as one of the world's leading transport authorities to secure a green, just and inclusive recovery for London and the wider UK economy.

As well as our ambition to continue to operate more sustainably across our operations, we are leveraging our partnerships to contribute to the national recovery. We are a member of the London Recovery Board, a group of leaders committed to overseeing London's long-term recovery effort, and signatories of the Anchor Institutions Charter, aimed at maximising employment opportunities and helping young people to flourish through their procurement and recruitment power. We continue to put safe, reliable, clean and affordable walking, cycling and public transport at the heart of our decisions to encourage customers back to public transport and avoid a car-led recovery, thereby building on the environmental gains seen during the lockdowns.

We currently have a Safety, Sustainability and Human Resources panel (SSHRP) which considers our operating performance in relation to sustainability, among other things. We have now produced this TfL Sustainability Report, which brings together all of our existing actions and ambition into one place for the first time. It includes key aspects of our activities and performance metrics with much more detail than is available in our other reports (see page 44).

We will report progress against the plans and ambitions set out in this report annually to the SSHRP. Over time, we will evolve our approach to reporting using the Global Reporting Initiatives to guide us in terms of sustainability reporting. We will use our new Vision and Values plan to help drive sustainable development throughout the organisation as described further on page 43.

# Our scale and reach\*

We are a large and diverse organisation

We run most of London's public transport services.

# 9.7million

trips are completed each day via public transport, this accounts for 36 per cent of trips in London.



Underground, Elizabeth line, Buses, DLR, London Overground, London Trams, London Dial-a-Ride, London River Services, London Taxi and Private Hire. Santander Cycles. Victoria Coach Station and Emirates Air Line

#### Our services at a glance

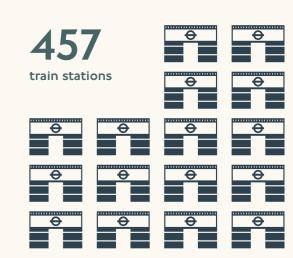
9,000 Hydrogen buses >500 electric buses











### Our wider portfolio

5,700 acre estate

we are a large land owner, landlord and commercial developer



of 10.000

planned homes underway



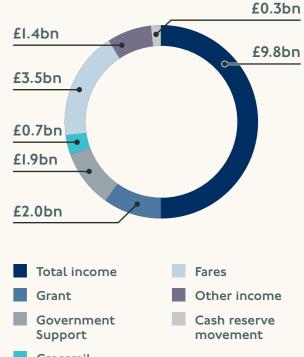


3,000 tenanted properties

Our finances

We are adapting our organisation to meet the financial challenges we are facing

Spend Data:



### Our people

We directly and indirectly employ a large number of people:



directly employed colleagues

>100,000 indirectly employed colleagues

Regulator for Taxi and Private Hire:



taxis

of

13,884 London

78,049 Private hire vehicles

Highway authority for the TfL Road Network:

580km of road

5% London road network

30% of traffic carried on the TfL Road Network

During 2019/20, we spent in excess of on goods, services and works required to deliver and upgrade services. **Our 65** key suppliers, across the UK, represent around £4.5bn of our spend

\* Data as at 3I March 202I

funding

# TfL Sustainability Framework

# Doing the right thing locally and globally

We operate to deliver the Mayor's Transport Strategy which sets out the Mayor's plans to transform London's streets, improve public transport and help to create thriving communities across London's 32 boroughs and the City of London. We have developed action plans that detail how the Mayor and TfL will achieve the Mayor's Transport Strategy policies and proposals.

In addition to delivering the Mayor's Transport Strategy, we play a significant role in delivering other Mayoral strategies and plans. This includes the London Plan, Health Inequalities, Housing and Economic Strategies, and the London Environment Strategy, which is the first integrated strategy to bring together approaches to every aspect of London's environment. Our strategic reporting framework consists of our annual Budget, our five year Business Plan and our Long Term Capital Plan, which set out the key priorities through which we implement the Mayor's Transport Strategy and deliver the best value for London.

The TfL Sustainability Report sits within our strategic reporting framework. It sets out the sustainability benefits of everything we do across our organisation both internally and externally, but it does not cover all the London-wide efforts to deliver the Mayor's Transport Strategy, which can only be fully realised by the collective effort and partnership working with many organisations, such as government and London boroughs.

Our sustainability framework is underpinned by the three pillars of sustainability – society, environment and economy – and these form a triple bottom line across our entire operations. Our social sustainability demonstrates the social value of our transport services, beyond the economic benefits, in improving the lives of Londoners and creating thriving communities, while our financial sustainability and environmental sustainability are positively linked.

We will build our financial sustainability by focusing our capital investment on a green recovery and by making progress on considering the external environmental costs of our activities. This will accelerate our progress towards decarbonising transport by 2030 and increase our overall environmental sustainability. We must demonstrate bold leadership on sustainability and we expect the same from our suppliers, the stakeholders and partners we work with.







# How TfL aligns with United Nations Sustainable Development Goals







































# Society

How we maximise social value and achieve 'Vision Zero' for safety, to improve the lives of one another locally and globally Most relevant Sustainable Development Goals

3, 4, 5, 10



### **Environment**

How we will protect and regenerate the environment through our activities, promoting environmental sustainability to help secure a greener, zero emission and more resilient recovery for London

Most relevant Sustainable Development Goals

7, 12, 13, 15



## **Economy**

How we operate to keep the organisation financially sustainable, our wider contributions to the economy and how we are supporting London, and the UK economy, to emerge from the coronavirus pandemic stronger

Most relevant Sustainable Development Goals

1, 8, 9, 11



# Society

Caring about our colleagues, customers and communities through safe, healthy and accessible transport services

- **Safe:** Safety is our top priority. Our Vision Zero ambition aims to eliminate deaths and serious injuries on our transport networks, construction and operational sites.
- Inclusive: We strive to have an accessible and inclusive workplace and transport network.
- Healthy: Enabling more cycling and walking will support a healthier, more inclusive London. We want a healthy and happy workforce.
- Thriving: We encourage the connectivity among people, trade and culture, celebrating London's unique identity.



# **Environment**

Operating in a sustainable way, to protect and regenerate the natural world

- Climate: We will reduce carbon emissions from our activities and ensure we are ready for the impacts of climate change.
- Air quality: We will transform our vehicle fleets to zero emission and support broader efforts to clean London's air.
- Sustainable resources: We will design for the circular life-cycle of resources and materials, supporting London's goal of being a zero-waste city.
- Green infrastructure: We will increasingly protect, connect and enhance our green infrastructure, including the biodiversity, habitats and ecosystems services on our estate.



# **Economy**

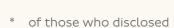
Being financially sustainable to provide a resilient and good quality of life for all

- **Economic impact:** We will deliver a transport system for London that supports economic development, and create more sustainable buildings and homes.
- Responsible procurement: We deliver social value and support our supply chain to become greener, fairer and more inclusive.
- **Financial stability:** Reduction on operational expenditure funding support from central government.
- Security risk management: We manage existing and emerging security risks and adopt a zero-tolerance approach to any fraud, bribery or corruption committed against us.

# TfL sustainability performance metrics



Theme	Measure	2018/19	2019/20	Change
5-6-	Killed or seriously injured people on our streets**	3,905	3,070	-21%
Safe	Customer and workforce injuries	10,058	9,729	-3%
	Representative index	43%	47%	+4%
Inclusive	Relative additional journey time using the step-free network	9.I mins	8.3 mins	-48 secs
Healthy	Number of colleagues who feel there is adequate support in place to help them manage their health, safety and wellbeing	59%	60%	+ %
	Number of employees completing the MIND Mental Health Awareness training	***	475	
	Number of people progressing from pre-employment programmes to employment within I2 months	36%	29%	-7%
Thriving	TfL Apprentice intakes to be representative of London ****	56.07%	59.33%	+3.26%
	TfL Graduate intakes to be representative of London ****	48.26%	53.77%	+5.51%



<sup>\*\*</sup> Data is for Calendar year 2019 and Calendar 2020 as per DfT reporting on Road Collision Statistics



Theme	Measure	2018/19	2019/20	Change
Climate	Operational carbon emissions (thousand tonnes per annum)	1,146	1,040	-9%
Air Ovalita	Percentage of bus fleet that are zero emission	1.7%	3.5%	+1.8%
Air Quality	Percentage of support vehicles that are zero emission	3%	2.6%	-0.4%
Sustainable	Percentage of commercial and Industrial waste recycled	48%	41.6%	-6.4%
resources	Percentage of construction, demolition and excavation waste reused	98.8%	98.2%	-0.6%
Green infrastructure	Number of trees on our road network	23,059	24,234	+5.1%



Theme	Measure	2018/19	2019/20	Change
Economic impact	Number of new homes delivered	86	180	+109%
Responsible	Number of new supply chain apprenticeship starts each year: including BAME and Women	52I (53%, 23%*)	619 (62%,18%*)	+18.8%
Procurement	Number of job starts: including previously workless	911 (39%*)	1,027 (46%*)	+12.7%
Security Risk Management	Number of colleagues undertaking fraud awareness training	1,618 (6%)	1,828 (7%)	+ %

<sup>\*\*\*</sup> Training started in 2019/20

<sup>\*\*\*\*</sup> Measure is a comparison of our apprentices and graduates to London's economically active population.



# Safe

Safety is our number one priority and is fundamental to everything we do. We are working to build a world where no colleague or customer is injured. We have set a 'Vision Zero' objective to eliminate all deaths and serious injuries on London's transport network and it aims to address safety through a comprehensive 'Safe System' approach.

#### **Road safety**

To ensure vehicles on our network are safe, our Direct Vision Standard, which was launched in October 2019 and came into force in March 2021, will progressively work to ban the most dangerous lorries from our roads. The Direct Vision Standard is a safety permit system for heavy goods vehicles which assigns a star rating based on how much the driver can see directly through the cab window, in order to reduce lethal blind spots. Measures such as this sit within a comprehensive approach that lowers speed limits, designs streets that are safer and welcoming for all, and works with partners to promote and enforce safe behaviours.

By the end of 2020, there had been a 52 per cent decline in the total number of people killed or seriously injured in traffic incidents on London's streets against the 2005-09 baseline. However, road safety progress has slowed in recent years, reflecting the trend also experienced by other European cities. There are still around 4,000 people killed or seriously injured in road collisions every year in London, the vast majority of which result from collisions with cars.

#### Public transport

Our public transport network has seen a continuing downward trend in incidents that injure our customers or colleagues. The number of fatal or serious injuries is much lower on public transport than in road collisions. We are committed to achieving Vision Zero on public transport and have a range of programmes designed to further increase safety – including our suicide prevention programme which has reduced the number of incidents on our network.

#### Work-related violence and aggression

We are also committed to the personal safety and security of all colleagues. We fund and work in partnership with the British Transport Police (BTP) and the Metropolitan Police Service (MPS) to tackle issues associated with work-related violence and aggression. Our strategy to eradicate work-related violence and aggression focuses on the prevention of incidents, providing support to colleagues when an incident does occur, and continuously improving in how we protect and support everyone working to keep London moving safely.

As part of our ongoing work-related violence and aggression strategy, we have introduced 4,500 body-worn video cameras for frontline colleagues in areas where they have the most frequent contact with the public.





#### Secure and low crime transport network

Everyone has the right to be safe – and feel safe – when travelling in London. If streets and public transport do not feel safe to use, then inevitably, people are more likely to take other options, including more car trips. We fund and work in partnership with the MPS and BTP to tackle crime, fear of crime and antisocial behaviour as well as non-compliance with rules and regulations that are in place to keep our people and customers safe. Our work to maintain a low-crime environment continues. During 2019/20, 9.7 million trips were made on our transport network daily, with very few customers experiencing or witnessing a crime. For every one million passenger journeys there were eleven reported crimes, the majority of these being theft offences.

We are responsible for the TfL Road Network, which makes up five per cent of London's roads and carries up to 30 per cent of the city's traffic. Our priority in managing the TfL Road Network is to keep traffic moving safely.

Contraventions on the TfL Road Network create safety risks, increase congestion and disrupt traffic for everyone including buses, deliveries and emergency services. To minimise contraventions we use fines called Penalty Charge Notices. The last time the penalty charge was increased was 10 years ago and we are concerned that it no longer provides an effective deterrent. As a result, we are proposing to increase the fine level from £130 to £160. This proposal is subject to the outcome of a public consultation which will ended on 19 September. We are now spending time considering all the responses we receive before seeking Mayor and Secretary of State approval.

We are prioritising action to deal with high harm offences such as sexual offences and harassment, hate crime, and serious violence. We are working hard to keep knives off our network. We are also working to safeguard vulnerable people using or seeking refuge on our network, including children and adults at risk.

#### Construction

We manage some of the largest capital delivery and maintenance works in the UK, so our approach to Safety, Health and Environment (SHE) is critical. We've made significant progress in SHE performance over the past five years and, to further this work, have launched a SHE Capital Delivery and Maintenance Strategy for all colleagues at TfL who work on construction activity, with the ultimate aim of zero harm across all activities. As an organisation, TfL has a unique opportunity to influence practices and standards across the construction industry. Whether directly through our own suppliers, local boroughs and partner organisations, or indirectly via the stakeholders they work with, we aim to set the benchmark for safety performance, improving standards and developing ways of working across the whole of the industry.



## Our plans to improve

Driver fatigue is a risk to road safety. We are working across the organisation to conduct fatigue risk screening, enabling us to better break down, define and quantify the factors that contribute to fatigue. This gives us a better definition and understanding of specific fatigue risk factors to help us develop, target and prioritise interventions. We are developing interventions to reduce fatigue risk through staff training, including providing supportive guidance to their family and friends, while more technical interventions around rostering and scheduling are being investigated across a number of our transport services.

As part of this screening process, we have also started to establish baseline data to enable us to monitor and track progress and improvements in reducing fatigue risk, with key performance indicators being developed to support this. The fatigue programme also continues to work with our occupational health and wellbeing team to support people through initiatives such as online sleep clinics and sleep assessment surveys.

We know that slips, trips and falls on buses are a key cause of injury to our bus customers. A longer-term strategy is being developed and will consider vehicle improvements, such as to flooring and lighting, and outcomes from predictive technology being trialled that warns drivers of hazards to help give them more time to be able to brake smoothly. It will include a benchmarking review of best practices from other transport authorities. At the end of the financial year, we had 455 buses that met the first generation of the Bus Safety

Standard. From late 2021, new vehicles will start meeting the second generation of this standard, which requires new buses to have camera monitoring systems in place of side mirrors, offering a wider field of view and clearer visibility in low light. It also includes toggling to help drivers identify the brake pedal and its relative position from their feet. There will be new safeguards to the brake system to prevent buses rolling away without a driver in the cab, and enhancements to bus interiors to help reduce the risk of customer injuries.

We want to establish ourselves as the UK's leading construction industry client, driving improved performance across our capital delivery and maintenance works and intervening before incidents occur. This relies on making better decisions based on meaningful data, building a positive learning culture and developing a more consistent approach to the way we operate. The SHE Capital Delivery and Maintenance Strategy adopts a Zero Harm approach, built on our Vision Zero ambition, to ensure that harm is consistently reduced across TfL's capital delivery and maintenance programmes year-on-year, until we reach zero. We aim to reduce harmful incidents by 50 per cent over the next five years. To do this we will work to improve our supplier management practices, increase the safety competence of our people, develop our data reporting and analysis, and design out harm from the start of the project lifecycle.



# **Inclusive**

#### Inclusive workforce

We are committed to creating a more inclusive and values-based culture and a workforce that is more diverse at all levels. Our Executive Committee has signed an Anti-Racism Leadership Charter, and we have held more than 100 Listening sessions across our organisation to understand the lived experience of one another to ensure we are taking the right actions to make our culture more inclusive.

There are several key ingredients to creating a more inclusive, values-based organisation, which include:

- Understanding and improving our culture
- Creating more inclusive leaders
- Developing more inclusive line managers
- Fostering more inclusive behaviours
- Supporting a more inclusive approach to career development
- Inclusive policies and practices

Closing the ethnicity and gender pay gaps are key to creating an inclusive organisation.







We continue to improve accessibility on the Tube and London Overground by making more stations step-free

We want everyone to have safe and convenient journeys

#### An accessible network for all

We are committed to enabling everyone to complete their journeys how and when they want, in a convenient, safe and dignified way. We seek to address the needs of everyone, including people with hidden impairments, from planning a journey to arriving at a chosen destination. In addition to Turn up and go at our stations and a fully accessible bus network, our services include Dial-A-Ride, Taxicard and other community transport.

We collaborate closely with diverse partners whose views we value and learn from. Increasingly, we are co-creating solutions to inclusive design questions to harness the skills, knowledge and expertise of our partners, suppliers, customers and stakeholders. Our relationship with groups such as the Independent Disability Advisory Group and the Valuing People Network help us better understand our customers' experiences so we can improve our approach to inclusive design and customer service. Our goal is to understand the impact of our policies, projects and programmes on disabled customers and all individuals who share protected characteristics under equality legislation.

Our investment in improving the physical accessibility of our built environment continues. All of our pedestrian crossings and pavements are accessible with tactile paving, audible signals and/or rotating cones on the pushbutton. Legible London maps located at station entrances and bus shelters make it quicker and easier for people to find their way when travelling around the Capital.

We also tackle other barriers to travel, including those faced by our customers who may be visually or hearing impaired or those with cognitive and sensory impairments. These include accessible bus stops, audio announcements, visual announcements, hearing loops and speech-to-text software, and seating and toilets for older and disabled customers, pregnant women and families with small children.

We continue to improve accessibility on the Tube and London Overground by making more stations step free. Currently 89 Tube stations, 60 London Overground stations and most of the 25 stations served by TfL Rail have step-free access. The entire London bus network, all DLR stations and tram stops are step free.

We have launched the TfL Go app to welcome customers back on the network and make it easier to plan their journeys. As well as providing real-time updates on bus arrivals and train times at every station through the use of a unique 'real-time' map feature, it enables our customers with accessibility needs to plan a journey with a step-free route by showing real-time station closures, platform access and lift status, as well as toilet availability at our stations.

We are raising awareness of accessible technology design by introducing accessibility standards, principles, tools and techniques that will enable the production of more accessible documents and more accessible application design among our developers.

#### Connecting communities

An inclusive transport network is crucial to connect people to jobs, shops, schools, health services, friends and family, and all the other places they need to go. It is vital to support more Londoners to have healthy and active lives to reduce inequality, promote social integration and increase opportunities for employment while helping to tackle loneliness and improve mental wellbeing.

The bus network has the most coverage of our public transport modes. This ensures almost all Londoners are connected to their local area, wherever they live. In addition, our extensive Night Bus network supports night workers who are more likely to have lower incomes. Bus connections serve commuters, shopping and leisure demand in all parts of London, provide an affordable and accessible public transport choice for those who need it, bring children to school and key workers to hospitals, connect Londoners with their families, GPs and local shopping areas, and link people to the wider public transport network by connecting residential areas to stations.

#### Inclusive supply chain

In the recovery from the coronavirus pandemic, we recognise the specific impacts and challenges facing businesses and Small and Medium Enterprises (SMEs). We have identified some of the barriers that prevent small and diverse businesses gaining access to and winning TfL contracts. Our 'Small and Diverse Business Procurement Action Plan' sets out the interventions we will implement to ensure our procurement processes are more accessible and inclusive to London's diverse businesses.

Paying the invoices of our SME suppliers within ten working days supports their cash flow. We will go further than this and encourage our key suppliers to pay more than 95 per cent of their invoices within 60 days, in at least one of the previous two reporting periods, in line with the government's approach.

We are encouraging our suppliers to recruit a more diverse workforce. To support this aim we are participating on a cross-industry Diversity Data Benchmarking initiative, led by Highways England, along with Network Rail and HS2, benchmarking our key suppliers' workforce diversity data.

Some of our major projects delivered in partnership with our supply chain, demonstrate the social value of our work. On the Barking Riverside Extension project, the Morgan Sindall VolkerFitzpatrick joint venture worked closely with the local community on various outreach programmes.

These included learning initiatives with local schools to promote a healthy lifestyle, supporting an event at the London Transport Museum to encourage and inspire the next generation into construction, supporting fundraising events to provide learning experiences for a local school, providing training and volunteering opportunities for local people and donating to the Barking foodbank warehouse that supports more than 50 families locally. They also adopted sustainable development practices as part of these local initiatives by partnering up with a local community wood recycling trust which re-used some of the timber waste produced as a result of the project.



Sustainability Report

Our partnerships contribute to a more vibrant London

#### Our partnerships

We leverage our partnerships to contribute to a safer, healthier and thriving London. We work closely with London boroughs through the Healthy Streets programme to deliver walking, cycling and safety schemes that create greener, healthier and more attractive places in which to live, play and do business, within our diverse communities.

Our commercial and media partnerships help to shape the rich culture and vibrancy of London by giving businesses the unique opportunity to align campaigns, filming or photography work with our wellestablished TfL brand. The Santander Cycle Hire scheme is a bespoke partnership that has had a huge impact on the millions of customers who travel across our network every day.

As London's largest landowner, we provide a wide range of commercial rental properties that are close to transport hubs, putting businesses ranging from pop ups and small businesses to global brands, closer to their customers.

We work closely with London boroughs through the Healthy Streets programme to deliver walking, cycling and safety schemes

# Healthy

Our colleagues' mental and physical health are paramount to having a healthy and happy workforce. We offer a series of preventative health and wellbeing initiatives, including those which promote physical activity, healthy diet and sleep hygiene as part of a healthy lifestyle. These include:

- Online portals. An internal site with guidance and resources for mental and physical health and maintaining a safe work environment; a wellbeing channel with recorded exercise; Pilates and wellbeing sessions, and free subscription to Kaido, a digital team-building experience that helps employees improve their health while having fun together
- Confidential support helplines. Our Employee Assistance Programme offers emotional support and advice for workrelated or personal difficulties
- Physical and mental health interventions. To tackle obesity, fatigue and help identify early signs of medical health conditions, our employees have free access to Slimming World, sleep clinics and health assessments
- Occupational Health services. The Medical Advisory team undertake safety critical medicals to ensure that colleagues involved in safety critical roles are able to do their role safely. They provide advice to managers and colleagues on health conditions which are impacting on them at work. They undertake health surveillance for those who are exposed to noise, vibration and chemicals. Throughout the pandemic the team have provided in-depth advice about COVID-19 and undertaken nearly 3,000 individual risk assessments

 Peer Supporter Schemes. Health and Wellbeing Champions, the Supporting Colleagues Network, and Trauma Support Group encourage a positive and supportive environment

#### Our wider health impacts

Health is a central theme of the Mayor's Transport Strategy, which we are primarily responsible for delivering, in partnership with key stakeholders, such as London Boroughs. Schemes such as Healthy Streets deliver walking and cycling schemes which promote active travel, which has significant health benefits, such as reduction in heart disease and improving mental health. The improvement in London's air quality from a reduction in harmful road transport emissions has had transformative health benefits and is discussed more under the environment pillar of this report.

Health and wellbeing in numbers



joined Kaido to take part in the Around the World challenge



people have benefitted from our free access to Slimming World





# Our plans to improve

We will continue to provide the opportunity for colleagues to improve their mental and physical health in line with Public Health England and National Institute for Health and Care guidelines.

#### The focus in the next year will be:

- Improving data collection on health so that we can better target our initiatives
- Preventing health problems by promotion of healthy habits through a number of initiatives
- Improving routine medicals to include health promotion

#### We aim to:

- Ensure all line managers across our organisation have appropriate training and resources to enable them to better support the health and wellbeing of our employees and ensure they understand the role they play in preventing work-related ill health and also understand the effect of health and wellbeing on improved organisational performance
- Improve how the business can effectively communicate what is on offer for our employees on health and wellbeing
- Ensure that health and wellbeing is seen as important as safety across the organisation

More than

2,100

colleagues accessed our online mental health awareness training





# **Thriving**

Creating access to the skills and training people need to enter the workplace helps address skills shortages in London and across our industry. We want to break down barriers to employment by ensuring that we are accessible to all Londoners, regardless of their background. Successful programmes we deliver include:

- Our flagship Steps into Work programme.
   A targeted I2-month employability scheme for individuals with learning disabilities and/or on the autistic spectrum, that incorporates a work skill qualification alongside work placement rotations supported by specialist trained job coaches
- Our Catalyst programme. This is a partnership between our Supplier Skills team and our supply chain. It's a fourweek employability programme providing industry recognised qualifications, work experience and employability skills to underrepresented groups and those with barriers to employment, leading to interviews for roles with our suppliers. We also host an annual supply chain recruitment fair during National Apprenticeship Week
- Education to Work outreach. This helps young people raise their career and education aspirations and achievements through targeted engagement focusing on supporting those impacted by high deprivation. Activities include mentoring, volunteering programmes and experiences of the world of work. By working with young people, their educators and carers, we also aim to break down negative perceptions about careers in transport and help underrepresented groups overcome barriers to entering the industry

- Our Construction skills programme.
   Aimed at Londoners aged I6-plus who
   are not currently working in construction
   specifically women, those with a health
   condition/disability and those from Black,
   Asian and minority ethnic backgrounds
- Stuart Ross Communications Internship.
   A diversity initiative aimed at creating career opportunities in communications, public relations, public affairs and marketing for students of Black Asian and minority ethic backgrounds, who are under-represented in these sectors, regionally and nationally
- Armed Forces Covenant. An ongoing commitment to support former members back into full-time civilian employment
- Graduate and apprenticeship programmes. These support the Government's agenda of increasing job creation for 18-24-year olds and help build a diverse pipeline of talent to meet our future skills needs for 2023 and beyond

# Other notable activity

#### Culture and Heritage London Transport Museum

London Transport Museum is a great place for all ages to enjoy and learn how transport shapes our city. Gallery activities and outreach programmes across London inspire young Londoners to be habitual public transport users and we actively support children and young people to be curious about STEM subjects (Science, Technology, Engineering and Mathematics). The Museum works with its Enjoyment to Employment coalition partners to promote careers in transport and engineering. In March 2021, London Transport Museum published the Rethinking Sustainable Cities report, which explores how we can change our cities for the better by protecting our planet and people, and launched its Green Journey to decarbonise our own operations by 2030. The Museum's Climate Crossroads programme is engaging its visitors with a green future vision for London and exploring the innovations, skills and jobs needed to build a sustainable future. The programme is supported by Mott MacDonald and Cubic Transportation Systems.

#### Public spaces and art

We have a long-standing history of art and design on our network, with many of our transport designs being design classics.

Our long-running Art on the Underground programme aims to change the way people experience our city by inviting artists to create pieces of art for display across the network. Most recently, David Hockney, one of the UK's most influential living artists, has redesigned TfL's iconic roundel in a special artwork called 'Hockney Circus' as part of a takeover of Piccadilly Circus station.





# **Environment**

Our approach to environmental sustainability is covered in detail in our Corporate Environment Plan. This sets out our environmental ambitions and how we will achieve this through our operations, maintenance and construction activities. It forms the detailed environmental pillar of our approach to sustainability. Key aspects of that plan are included in this report to help communicate our overall sustainability story.

The Corporate Environment Plan focuses on our own activities, however, it is also important to note that as London's strategic transport authority, we also help realise the environmental outcomes of the Mayor's Transport Strategy and the transport elements of the London Environmental Strategy. Examples include setting London-wide policy, operating road transport emissions schemes such as the Ultra Low Emission Zone (ULEZ) and achieving a wide range of environmental outcomes through the London borough Local Implementation Plans.

We support the Mayor's ambition to make London a carbon neutral city by 2030 by driving down carbon emissions, cleaning up London's air, protecting and regenerating the natural environment, and ensuring we are prepared for the impacts of climate change.

Our influence stretches beyond London, as our activities inspire transport operations across the UK and the world. Through our contracts, stakeholder engagement and partnerships we will make it clear that we expect high environmental performance and ambition.

Our central vision on environment is to be part of a zero carbon London. The diagram on page 25 is our Corporate Environment Plan Framework, which is based on five key themes, each of which will help us in delivering our contribution to a zero carbon London.



# Our environmental framework and ambitions



# Sustainable resources

- We use resources and materials sustainably
  - We think of a material's carbon cost across its lifecycle
    - We support London's goal of being a zero-waste city



# Best environmental practices

- We are a good neighbour
- We comply with our obligations and legal requirements
- We go beyond our minimum obligations to apply environmental and sustainability best practices



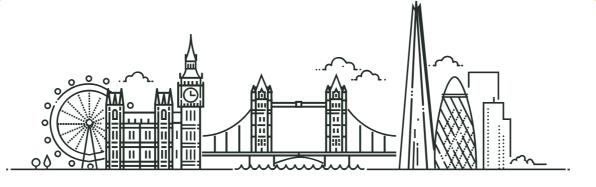


- **Mitigation**: We reach zero carbon in all our activities
- We support London becoming a zero carbon city
- Adaptation: We are ready for the impacts of climate change



- We deliver and operate major air quality schemes
- We will bring vehicle fleets under our control to zero emission
- We manage emissions from our buildings and on the Tube







# **Green infrastructure**

 We protect, connect and enhance our green infrastructure, including the biodiversity, habitats and ecosystem services on our estate



Making it happen

- Make it a core part of TfL culture, advocated by leaders and championed in every team
- Incorporate into standards, specifications, contracts and management systems
- Deliver through business planning, asset management and procurement

# Climate emergency Transport is responsible for a quarter of

Our research programme assesses the impacts of flooding

London's carbon emissions, with private car use the primary source of these. Therefore, we have a vital role in increasing the proportion of journeys that can be made by walking, cycling and public transport, which is why we have a target of 80 per cent of trips in London to be made by these methods by 2041. We must ensure that our Underground, bus and rail services lead by example in reaching net-zero carbon operations, and we must reduce emissions from our buildings and infrastructure. To do this, we focus on the following:

#### Removing fossil fuel consumption

We are committed to converting our 9,000-strong bus fleet to zero emission. We already operate the largest zero-emission bus fleet in western Europe, with more than 500 electric buses currently in operation (increasing to 800 by the end of March 2022) and 22 hydrogen fuel cell buses. We are committed to making the cars and vans in our support vehicle fleet zero emission by 2030.

We have the largest zero-emission bus fleet in western Europe, with more than 500 electric buses in operation

#### **Energy efficiency**

We continually seek opportunities to reduce energy demand and optimise energy efficiency across our organisation. This not only reduces carbon emissions, but often also saves money. Examples include regenerative breaking on the Underground, replacing lighting with LEDs, encouraging a culture of turning off equipment when not in use, procuring low energy assets and retrofitting our buildings.

#### Supplying renewable energy to TfL

We are the largest consumer of electricity in London, and within the top ten for the whole of the UK. This means what we do has a material impact on how quickly the UK market on renewables evolves. We are currently engaging with the market to unlock Solar Private Wire, which will enable us to directly receive zero-carbon electricity from local solar farms.

#### Renewable energy procurement

We have a strategy to move the more than 1.5 Tera Watt hours (TWh) of electricity we use annually to 100 per cent renewable energy. Procurement of power purchase agreements with renewable energy generators will begin in 2021/22, with the aim of securing up to 20 per cent of our consumption in this first step. We are working with the Greater London Authority (GLA), a strategic regional authority for London, with powers over transport, policing, economic development, and fire and emergency planning. We are exploring opportunities to jointly procure renewable electricity in this way for the entire GLA Group, alongside potentially creating a fund for public and private investors to invest directly into new renewable projects (which in turn supply energy to the GLA Group).

# Carbon in our infrastructure and supply chain

Initial research suggests that carbon emissions from our supply chains and projects ('scope 3' emissions) could be around double our operational emissions. We are developing a more detailed and accurate baseline for these emissions to identify areas to focus our reduction efforts. In parallel, we are developing the expertise and tools to improve calculation of life-cycle carbon during early optioneering and detailed design of projects and programmes, so we are equipped to make life-cycle carbon emissions part of our design decisions.

We have adopted a carbon strategy for the delivery of our major projects, which is based on driving four outcomes:

- Baselining the carbon footprint of our major projects
- Reducing the carbon impact of our projects by using the baseline to identify and actively manage our carbon risks and opportunities
- Reporting on the carbon impact of our capital programmes and monitoring through our assurance processes
- Establishing a carbon culture and improving carbon literacy within the organisation

#### Adapting to the changing climate

The number and intensity of severe weather events is increasing, with prolonged periods of hot weather, flash flooding and winter storms. We established and continue to chair the quarterly Transport Adaptation Steering Group, which brings together stakeholders, such as Network Rail and Highways England, and experts, including the London Climate Change Partnership, to understand how we can proactively address the issue of climate change adaptation in the transport sector.

In addition, we have established a research programme with a range of partners to determine how severe weather events affect our operations, from the impact of rainfall and flooding on our road network, to the impact of high temperatures on London Underground. We are also completing a climate risk assessment for our assets.

Climate change presents not only a significant and growing health and safety risk to our customers, colleagues and communities, but also a financial risk to TfL, as discussed further under the economy pillar of this report.





# Our plans to improve

We will continue to significantly reduce our operational carbon by transitioning from our national grid supply and obtaining electricity from renewable power purchase agreements. This means we can meet our targets to have our rail network powered by 100 per cent renewable electricity by 2030, our entire bus fleet to reach zero emissions by 2034 (with an ambition to achieve this by 2030), and all the cars and vans in our support fleet to be zero emission between 2030 and 2037 (depending on funding). As we replace our aging Tube fleet on some lines, we will take advantage of technology in both train design and signalling to reduce energy consumption. We will also ensure our longterm asset plans phase out the use of fossil fuels and are substituted by sustainable energy.

Alongside our bus fleet and rail services reaching net zero carbon, we will also develop clear plans to retrofit and tackle emission in our office buildings and across our network – ensuring optimum reach over our infrastructure's operational emissions.

Based on the results of our research programme and the asset climate risk assessment, we will look to better embed climate change adaption into our long-term planning and decision—making processes. We will also work with other infrastructure owners and transport organisations to share and develop best practice.

We are working to increase awareness of the importance of green infrastructure for climate change adaptation. We aim to protect and increase green infrastructure and sustainable drainage systems (SuDs), for example, to help mitigate surface water flood risk and provide shade and local cooling.

# Air quality

#### **Emissions from our fleets**

We are creating one of the greenest bus fleets in the world. Our bus fleet meets the latest Euro VI emission standard across the entire city and we have introduced more than 500 zero emission buses at tailpipe (electric and hydrogen). Currently, one in 20 buses in London are zero emission and this will continue to increase as we transition the entire fleet. We also have a fleet of around 1,000 support vehicles that we use to operate and maintain a safe transport system – and we are working to switch these to zero emission as soon as possible.

#### Wider road transport emissions

We play a significant role in delivering the Mayor's air quality programme and enabling activities on the road network. We operate the ULEZ which has cut down the number of older, polluting vehicles on London's roads and contributed to a 44 per cent reduction in roadside nitrogen dioxide within its boundaries in 2020 compared to 2017. From 25 October 2021, the ULEZ will expand to create a single larger zone bounded by the North Circular Road (A406) and South Circular Road (A205) and cars, motorcycles, vans, other specialist vehicles and minibuses driving into and within the zone, will need to meet the required emission standards or pay a daily charge. We have supported Londoners though £56 million for scrappage schemes, which have encouraged the disposal of nearly 10,000 more polluting vehicles.

Road transport in London accounts for 40 per cent of NO<sub>X</sub> pollution in London, so our management of road traffic and transport materially impacts London's air quality. Our Surface Intelligent Transport System programme enables us to make real-time network management decisions taking account of all strategies, policies and impacts. This means that we can manage traffic light sequencing to reduce areas of high air pollution.

As a result of our delivery of measures in the London Environment Strategy (including the introduction of the ULEZ and reducing emissions from TfL buses and support fleets):

- In 2016, two million Londoners, including 400,000 children, lived in areas that exceeded legal limits of air pollution. In 2019, this had reduced to II9,000 people – a reduction of 94 per cent
- The number of state primary and secondary schools in areas exceeding the legal limit for NO<sub>2</sub> fell from 455 in 2016 to 14 in 2019 – a reduction of 97 per cent
- In 2016, monitoring sites in London recorded more than 4,000 hours above the short-term legal limit for NO<sub>2</sub>. In 2019, this reduced to just over 100, a reduction of 97 per cent

#### Taxi and private hire vehicles

Through our compliance and regulatory function, we are working with the taxi industry to ensure the greenest taxi fleet in the world. By continually tightening licensing requirements and taxi vehicle age limits, we will phase out diesel taxis and increase the number of zero emission capable vehicles in London. More than 4,200 already operate in the Capital.

#### Electric vehicle charging

Working with London Boroughs, we have helped deliver 3II rapid charging points and more than 3,000 slower chargers through the Go Ultra Low City Scheme.

Increasing active travel, including walking, cycling and public transport, is essential to improving the environment and the health of Londoners. This is why the Mayor's Transport Strategy has the central aim of 80 per cent of all trips in London to be made on foot, by cycle or using public transport by 204I. As described in our Corporate Environment Plan, our partnership working with London boroughs is key to achieving this ambition. More detail can be found in the Mayor's Transport Strategy and the supporting walking and cycling action plans.







# Our plans to improve

To further reduce our greenhouse gas emissions and improve London's air quality, we will explore ways of financing the acceleration of the transition of our 9,000 strong bus fleet to zero emission by 2034. With Government support we can do this by 2030. If we can secure a viable way of making this affordable, this will be seven years earlier than our original target. We will work with taxi and private hire operators to support their conversion to zero emission capable vehicles while updating our own support vehicles. In terms of our supply chains, from 2025, all new contracts will require freight and servicing vehicles under 3.5 tonnes delivering to TfL buildings to be zero emission.

#### Increasing compliance through enforcement

We could make a greater contribution to sustainability and the environment through our enforcement activity if it had the right tools. We will work with the Government and make the case for additional enforcement powers which are currently available to local authorities but not TfL. This includes powers to tackle engine idling or the dumping of illegal waste.

We will explore ways of financing the acceleration of the transition of our 9,000 strong bus fleet to zero emission

by 2030

subject to funding

From 2025, all new contracts will require with freight and servicing vehicles under 3.5 tonnes to TfL buildings to be

zero emission



## Our plans to improve

We aim to support London's goal to become a 'zero waste city' by using all our materials sustainably and understanding their carbon costs throughout their lifecycle. We have set targets to divert 100 per cent of non-hazardous construction, demolition and excavation waste from landfill and recycle 65 per cent of commercial and industrial waste by 2030.

TfL is covered by the GLA Group Responsible Procurement Policy. The policy includes prioritising circular procurement options, maximising value and using sustainable materials. The GLA Group Central Responsible Procurement Team have developed Circular Procurement Guidance and an e-learning tool to support our aim to embed circular economy principles and culture across the business.

# Sustainable resources

We are working towards the Mayor's ambition of London being a zero-waste city and to support the transition to a low carbon circular economy. This includes:

#### Waste reduction

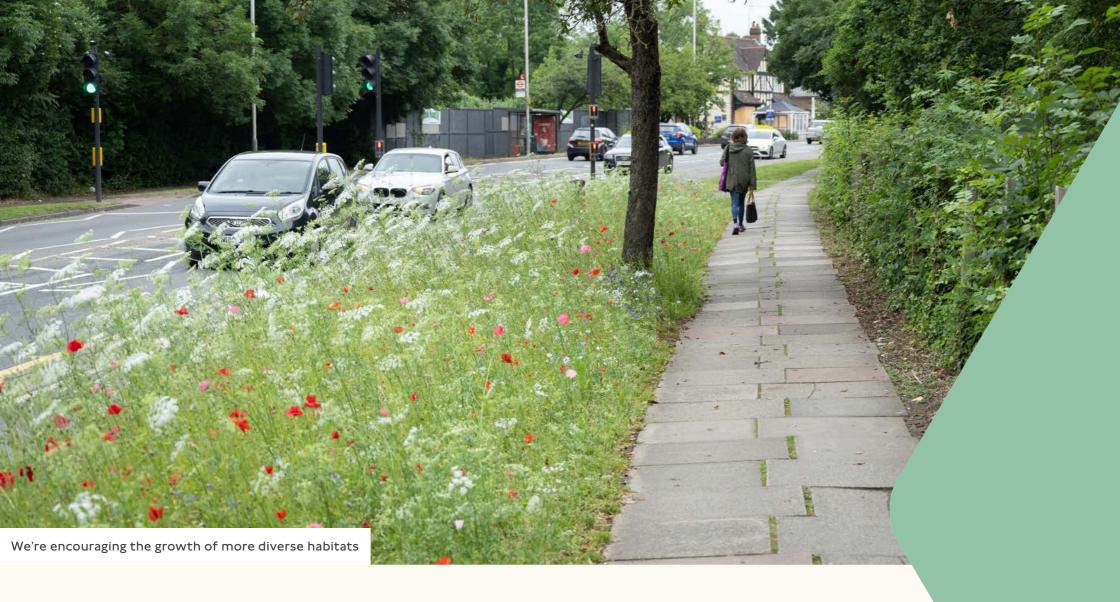
To reduce waste at source, we aim to eliminate it early in the planning and design stages of our projects and programmes. By far, the largest generator of waste by weight and volume are our major construction projects, where we recycle in excess of 98 per cent. We require all our major projects to achieve sustainability awards levels (CEEQUAL and BREEAM) that themselves require designing out waste and highly responsible waste management.

#### Recycling

We continue to pursue our objective of increasing recycling rates in stations, depots, offices, and construction activities (in addition to reusing waste items). We have begun to embed clear principles for the recovery and reuse of redundant equipment in our maintenance practices, by working with London Underground Materials Stores teams to store and redistribute key assets where possible.

We are also addressing litter left by passengers on our services – there are continued trials to increase segregation of recyclables. Waste that is not recycled is sent to incineration with energy-recovery.







We aim to protect, connect, and enhance green infrastructure, including the biodiversity, habitats, and ecosystem services across our estate. We do this by recognising and acknowledging the benefits of green infrastructure, and aiming to deliver biodiversity net gain through maintenance and project delivery.

#### Sustainable drainage systems

By incorporating green infrastructure into our projects, particularly where they act as SuDs at ground level or as green roofs, we are helping to make London more resilient to extreme weather and climate change, reducing the pressure on London's historic drainage network.

#### Tree planting on the TfL Road Network

We continue to be ahead of our target of increasing trees on the TfL Road Network by an average of one per cent per year. This is despite restrictions due to the coronavirus pandemic limiting the 2020/2I tree planting season to a single month from its usual six month window. A total of 7I7 new trees were planted in the shortened season, although this figure was lower than the number of trees removed for disease and safety reasons, as part of our annual inspections on tree health. Despite this year's challenges, we are ahead of our Mayor's Transport Strategy target due to tree planting efforts in previous years.

#### Natural capital

To protect the habitats and ecosystems across our estate, we need to ensure their value and importance is recognised at all levels across our business. Consequently, we are developing a natural capital account for our estate, which will quantify the value of the services provided by our green infrastructure.



# Our plans to improve

Following the development of our natural capital account, we will embed it into our decision-making processes and regularly update the account. This will help us track changes over time and identify where we need to focus our efforts to maximise the benefits we obtain from our green infrastructure.

In addition to better understanding how biodiversity across our estate can make London a more attractive city and more resilient in the face of the climate crisis, we will explore how biodiversity offsetting (as part of a mitigation hierarchy) on our estate could help us deliver biodiversity net gain.

We will support the Mayor's manifesto commitment to rewild and improve access to the Green Belt, plant green roofs on bus stops and increase wild flowers on our road verges and embankments.



486 ha

of Sites of Importance of Nature Conservation on our estate, representing 1.6% of London's Sites of Importance of Nature Conservation (by area) on just 1.25% of London's land

# Other notable activity

Enhancing and regenerating the environment is our ambition, and compliance with the law is our bare minimum. The TfL Management System incorporates our approach to environmental management and is supported by training, communication, and assurance activities.

#### Noise

We actively consider our neighbours by continuing to find ways to reduce the levels of noise on our transport networks to the best of our ability. We test and use improved technology and materials, including targeted trials for solutions relevant to reduce noise impact. The transition of our vehicle fleets to zero emission and our focus on shifting journeys to active travel also contributes to reducing road traffic noise. We are aiming to meet 'no net increase in noise' in DEFRA noise key areas for TfL schemes.

#### Property development

We continue to go beyond our obligations and legal requirements by adopting and implementing environmentally sustainable development best practice across our programmes. For example, the pilot launch of a Sustainable Development Framework for our property development portfolio will help us to achieve biodiversity net gain across our estate (see page 35 for more detail).

#### Compliance

We assess the sustainability issues of our projects and programmes and are independently verified where appropriate to improve their sustainable design, construction and maintenance principles. Larger TfL projects use the recognised sustainability rating systems BREEAM and CEEQUAL and our management system includes processes and tools to ensure we meet our environmental obligations and regularly undertake assurance and improvement activity.

We actively consider our neighbours by continuing to find ways to reduce the levels of noise





# We have a crucial role to play in supporting London and the wider UK economy to come out of the coronavirus pandemic Nearly 5 per cent of UK jobs are in London's central activities zone

# **Economic impact**

Over the course of the last 20 years, investment in public transport in London has been focused on more sustainable travel, with the number of trips made by walking, cycling or public transport rising from 52 per cent in 2000 to 63 per cent just before the pandemic. This shift in travel behaviour has kept London liveable despite its rapid growth, and the continued shift towards more efficient modes of transport is essential if the city is to continue contributing to a productive UK economy.

London makes a critical economic contribution to the UK and if it recovers quickly and robustly, it will be a strong economic engine for both growth and 'levelling up' across the UK, particularly given its significant fiscal contribution to the UK historically. London represents about I3 per cent of UK population but it accounts for nearly 23 per cent of the UK's gross domestic product (GDP) and before the pandemic, it was a significant driver of jobs and growth across the UK.

The central activities zone, which is London's vibrant centre and one of the world's most attractive and competitive business locations compared to anywhere else in the UK or in the world, is uniquely dependent on our public transport. Despite covering only a tiny fraction of its landmass, it is home to 4.4 per cent of UK jobs, and contributes to 7.8 per cent of UK Gross Value Added (GVA). Being home to about 26 per cent of all employment in London and more than 260,000 of London's I.2million retail and other service jobs in 2019, it is supported by accessible, frequent and sustainable public transport which, before the pandemic, brought 1.2 million people into the central area every weekday. It plays a crucial role in driving jobs and growth across London and the wider UK.

London has one of the most mature low-carbon transport systems in Europe, and our capital expenditure is already biased towards the green recovery. Our Financial Sustainability Plan, published in January 2021, at the request of the Government as part of our funding agreement for the second half of 2020/21, showed how with the right level of capital investment we can support Government objectives to meet the 2030 ambition to decarbonise transport and secure a sustainable green recovery for London, including through the transition of London's bus fleet to zero emission and working towards a zero-carbon railway.

We are actively working to attract customers back to our public transport networks as we emerge from the pandemic, focusing on ensuring they are clean, safe, well-maintained and reliable. This is not only vital to avoiding a car-led recovery and increasing the sustainability of travel in London, it also generates fare revenue which we then invest back into improving walking, cycling and public transport. This 'virtuous circle' is essential to maximising sustainable travel in London.

The new Elizabeth line is an example of a truly transformational project in terms of both construction and operation. The project will protect and improve the environment, develop skills, create jobs, promote sustainable travel, support new homes and the success of London and the wider UK economy.

By accelerating investment in decarbonisation of our network and renewable energy solutions, we will create thousands more jobs, produce innovative solutions and attract international investment. For instance, we estimate that

around 3,000 jobs could be secured through investment in our zero-emission bus fleet and enable manufacturers to create around 600 more.

Our major projects demonstrate the value that we create in the wider economy. These contribute to London's economy, boosting the UK economy and quality of life for millions of people, and supporting the redistribution of economic wealth by providing access to jobs and services in opportunity areas.

Our projects include asset renewals, line upgrades and major infrastructure projects that increase the reliability and capacity of our transport services and give people confidence to make sustainable travel choices. Network extensions like the Silvertown tunnel will reduce congestion, improve the reliability and resilience of the wider road network and provide improved cross-river transport links.

Crossrail is expected to add £42bn to UK GDP over the next 60 years and the Northern Line Extension will create £5bn of wider economic benefit over the same period.

As well as this, our organisation is key to unlocking new housing to tackle the existing housing crisis in a sustainable way. London needs 66,000 new homes each year for at least 20 years. The integration of land use and transport, and the provision of a robust and resilient public transport network, are essential in ensuring that different parts of the city are connected in a sustainable and efficient way.

We use our own land to directly support London's housing needs.

Our 5,700-acre estate makes us one of the largest landowners and we are currently undertaking one of London's most significant programmes of urban development and housing delivery. More than 10,000 new homes will be delivered across London, including a commitment to deliver 50 per cent affordable housing across all sites brought to market after May 2016. Work is underway on 1,580 of these homes, with planning committee approval or submission on nearly 8,000 more.

#### Sustainability Development Framework

As with many of our past initiatives, this programme will leave a lasting legacy for London and shape its development for many decades to come. It is therefore critical that it adopts and embodies sustainable development best practice. To ensure this is achieved, we have created our commercial development Sustainability Development framework. This is a metric-driven approach to optimising, specifying, delivering, and monitoring best-in-class sustainability performance across our development portfolio. It will continuously evolve over time in line with policy, best practice, and lessons learned.



Number of homes delivered/started on site by our Property Development programme since 2016/17



# osters I mins 2 mins Cockfosters PICCADILLY LINE New Piccadilly line trains will require 20 per cent less energy

# Case study one

# New Piccadilly line trains

Fifty per cent of the new train fleet built by Siemens Mobility to replace the existing Piccadilly line fleet from 2025 will be built in Goole, East Yorkshire, employing up to 2,650 people: 700 people in engineering and manufacturing roles, 250 in the construction phase and 1,700 in the broader supply chain. Siemens Mobility has announced £50m of related contracts for UK suppliers, including a number for train components. These include almost £6m in contracts for Yorkshire-based LPA Lighting to provide the interior train lighting, Midlands-based suppliers Baker Bellfield to supply cab partition walls and I M Kelly for driver seats and footrests.

Up to 2,650

people to be employed to build new Piccadilly line trains

Sustainability Report



Manufacture of London Overground and Crossrail trains by Bombardier Transportation

All current London Underground and Overground fleets were built by Bombardier Transportation, now taken over by Alstom. Alstom's Derby train factory is the largest in the UK, employing 2,000 people directly and many more in the supply chain. The fleets for the Circle, District, Hammersmith & City, Metropolitan and Victoria lines and the new AVENTRA trains for London Overground were designed and built there.

Alstom employs 330 staff to support the Northern line alone and in total supports 4,709 rail cars across London Underground, Overground, TfL Rail and London Trams. This sustains jobs and apprenticeships across London, and in Derby, Crewe, Widnes, and Mansfield.



2,000

people work for Alstom (formerly Bombardier) and many more in the supply chain





### Responsible Procurement

As part of the GLA Group, we have adopted a Responsible Procurement Policy. This high-level strategic policy sets out the GLA Group's plans, ambitions and commitments for ensuring continuous improvement in London. Our commitment is to ensure that our decisions on the procurement of goods, works or services are undertaken in line with the commitments set out in this document, under the following themes:

- Improving supply chain diversity
- Embedding fair and inclusive employment practices
- Enabling skills, training and employment opportunities

- Promoting ethical sourcing practices
- Improving environmental sustainability

These are applied, where relevant and proportionate, in commercial arrangements with partnering and contracting organisations.

By the end of Quarter 2 202I/22, the Responsible Procurement Implementation Plan for the Mayoral term 202I-24 will be published. The plan will set out the actions that we, along with the wider GLA Group, will prioritise to deliver on the commitments of the GLA Group Responsible Procurement Policy.



## Our key Responsible Procurement achievements in 2020/21

- As part of National Apprenticeship Week in February 202I, we delivered a set of virtual events with 290 people interested in working for TfL and its supply chain attending the I2 supplier-led sessions
- There were 524 new apprenticeship starts in our supply chain, of which 51.2 per cent are from a Black and minority ethnic background and 27.8 per cent are women
- Of our 65 key suppliers who have issued a Modern Slavery Statement, 72.3 per cent scored 3/5 or above from Transparency in the Supply Chain analysis
- Thirteen TfL suppliers are accredited to the Mayor's Good Work Standard, the London benchmark for good employment practice, which encourages employers to adopt best practice in areas such as fair pay and conditions, diversity and inclusion, skills and progression and workplace wellbeing
- We paid 90.8 per cent of the invoices from SMEs within ten working days, to support their cash flow
- Of our Capital Delivery colleagues in construction and SHE roles, I70 took part in introductory Modern Slavery prevention training in March 202I. We also held a bespoke three-hour workshop as part of the development of the Modern Slavery Assurance Handbook, with representatives from each of our Purchasing and Commercial teams
- We have continued to upskill our Purchasing and Commercial teams through a number of Responsible Procurement half-day virtual training sessions, as well as our online Responsible Procurement eLearning module



## Financial stability

Before the pandemic, we were on track to achieve financial sustainability and deliver an operating surplus by 2022/23 having taken out around £Ibn from our net cost of operations from 2015/16 to 2019/20. However, with the devastation to our passenger income as a result of the pandemic, we required Government support of over £3bn in 2020/21. We have secured £I.6bn in 2021/22, including £I.08bn in the I June Funding and Financing agreement to December 2021; the latter agreement includes a target to achieve financial sustainability by April 2023.

This means that we will cover our cost of operating, maintaining and financing, as well as capital renewals to ensure assets remain in a good state of repair, by April 2023.

While we work on our plans to achieve this, our ability to invest for sustainability rests on securing certainty of longer-term multi-year funding. Government has explicitly committed to continuing to work with us on reaching a longer-term financial settlement beyond our current agreement. We will continue to push hard for this so that we can plan effectively for London's future and continue to deliver value for money through our services, capital projects, contracts and supply chain.



### Our plans to improve

We had already embedded £730m savings into our Financial Sustainability Plan to be achieved in the six years to 2024/25. At the end of financial year 2020/2I, we had £390m left to deliver, which is largely related to considering options in London Underground such as our supply chain, maintenance delivery, embracing new technology, and being more agile on resource planning.

We are also exploring options in major operating contracts, reviewing our head office accommodation strategy and exploring efficiencies in back and middle office costs and other business areas. As part of the I June funding agreement with Government, we agreed to examine how the remaining £390m of the embedded £730m savings could be accelerated. The Government also asked us to make additional savings of £300m, which we have included in our Revised Budget that was approved by our Board on 28 July 2021.

The Government has asked us to conduct a review of our pension scheme, to identify reform options which would put our pension fund into a financially sustainable position and we have agreed the terms of reference for the review. We were also asked to freeze pay, in line with the public sector pay pause while we are in receipt of Government funding.

We have been asked to conduct a joint review of actual passenger demand levels as we recover from the pandemic and prepare a revised medium-term capital investment programme which takes into account future demand scenarios, post COVID-19. This programme includes measures to improve tracking of capital efficiencies and quantification of anticipated carbon reductions from future capital spend. We are working to confirm the programme with Government through the Spending Review.

## Security risk management

The threat from deliberate, intentional acts to harm TfL and London's people, reputation and economy is constant, evolving and increasingly significant in an unstable world. Financial crime, cyber crime, organised crime and the hostile actions of nation states are becoming indistinguishable. TfL is an operator and owner of critical national infrastructure and a key player in the safety and security of London. We adopt an holistic and risk based approach to improve security and protect customers and colleagues from hostile and deliberate actions that cause harm.

We work to identify existing and emerging security risks and seek to reduce our vulnerability to terrorism, nation state hostile acts, extortion (through cyber attacks), organised financial crime such as fraud, blackmail, corruption, espionage, sabotage and industrial scale theft. Our systematic approach to protective security contributes to TfL and London's sustainability.

Everyone at TfL has a role to play in security and we actively work to increase awareness, understanding and competence through security training, briefings and acting on security communications.

#### Our tax strategy

We are committed to meeting all legal requirements. We are transparent about our approach to tax and discuss the interpretation of tax legislation with HMRC, particularly where the tax treatment is unclear. We have a zero-tolerance approach to all forms of tax evasion, fraud, corruption or bribery whether under UK law or under the law of any foreign country.

#### Fare evasion

The vast majority of our customers pay their fares. This fare income is reinvested in running and improving services for our customers. We take a robust approach to tackling fare evasion and ticket fraud and ensure fairness to all our customers. We do this through designing out opportunities for fare evasion, using technology to deter and detect fraud, and proactive enforcement and compliance activity across our public transport networks.

Financial crime, cyber crime, organised crime and the hostile actions of nation states are becoming indistinguishable



Other notable activity

#### Financial risk of climate change

The financial risks of climate change are wideranging and have implications for matters such as financing and supply chain disruption. However, the direct impact on our network and operations in terms asset failure, service disruption and associated potential health and safety liabilities means that adapting to climate change is key to mitigating financial risk. We are actively working to report in line with the Taskforce on Climate Related Financial Disclosures and will be providing a submission to Defra under their Adaptation Reporting Power.

There has been an anecdotal increase in incidents across our network that have been linked to weather events. The potential of further severe weather events due to climate change could lead to many more incidents, such as extensive flooding, like we saw during July 2021, or failure of assets – including embankments, and flooding controls and defences – any of which could be catastrophic for London and its transport network.

We have a dedicated programme of research to understand current and future severe weather impacts. Part of the programme includes identifying improvements to data collection so we can better carry out comprehensive quantitative assessments of the impact of weather events on our assets and operations and how this might be exasperated by climate change. This is a medium-term programme over several years that, in the short-term, is being supplemented with a range of case studies that highlight the impacts of severe weather on our operations. This information is helping to make the case across the business that climate change adaptation is a priority for decision-making and provide guidance on how to best manage this risk. Adaptation is now a key environmental priority for London Underground's asset strategy.



#### Modern slavery

More than 95 per cent of our key suppliers are registered in the UK but many of their operations and supply chains are global. We use a risk-based approach, prioritising steps to achieve greater supply chain visibility where our risks are highest, recognising that workers in the lowest tiers of supply chains are often the most vulnerable.

As an example, we are actively working to ensure that workers producing our uniforms are treated fairly wherever they may be in the world. Recently, following mobilisation on the Underground uniform contract, each factory is required to undergo an annual, independent, third-party social audit against the nine principles of the Ethical Trading Initiative Base Code.

We are actively working to ensure that workers producing our uniforms are treated fairly wherever they may be in the world





# Driving sustainability through our TfL Vision and Values

Our TfL Vision and Values reinvigorates our purpose to move London forward by setting out a longer-term view, beyond our immediate recovery: a bold long-term vision for the next era of TfL. One that is stronger and capable of tackling the single, most pressing crisis of our time: climate change. And one that will contribute to a more inclusive, dynamic, democratic place to work, all for the good of London.

Because everything we do – our public transport services, our roads, our walking and cycling routes, our estate and infrastructure, and our role in regulation and enforcement – we can do more to improve people's lives and help our city navigate the future, than almost any transport body in the world. TfL's purpose is to move London forward safely, inclusively and sustainably.

#### Safely

- Preventing colleagues and customers from being killed or seriously injured
- Making customers feel safe and secure while travelling
- Being a workplace where every person feels safe

#### Inclusively

- Reflecting the diversity of our city to serve it better
- Keeping transport affordable for the greatest number of people
- Improving accessiblity so that everyone can make journeys with independence

#### Sustainably

- Balancing our income and our costs so London can keep moving long into the future
- Working to reduce carbon emissions, positively impact our environment and adapt to climate change
- Supporting a clean, healthy London that is not congested with traffic

Our vision is to be the strong green heartbeat for London. We have developed roadmaps to chart our next steps towards this future. They start with our colleagues and end with our customers, with safety and inclusion woven through both, in line with our purpose. They include plans to make our network more financially and environmentally sustainable, while we continue essential day-to-day operations and project delivery. These roadmaps will evolve as we continue to work with our colleagues and learn along the journey. They will be updated annually.

How we work is as important as what we do. Putting people at the heart of how we work starts with this: we treat every journey like it matters, both our customer's journeys around London, and our colleagues journey in the organisation. To achieve this, we have three core values: to be caring, open and adaptable. This starts with our employees and extends to everyone we work with, including the trade unions. This ambition extends to our contractors and supply chain partners as we will need every bit of their expertise, insight and support.

## References to other reports

This section contains relevant reports that may be useful if you are interested in delving deeper into a topic. Reports listed might span one or more of the three pillars of sustainability and we have indicated which pillar(s) are most relevant.

Click on the publication for more information. This list is not exhaustive but attempts to summarise some of the more relevant publications. A full list can be found in the Publications and Reports section of our website.

Publication	Society	Environment	Economy
About TfL web landing page	•	•	•
TfL Business Plan and Budget	•	•	•
Commissioner's report	•	•	•
Annual Report and Statement of Accounts	•	•	•
Mayor's Transport Strategy Annual Update	•	•	•
<u>Travel in London Report</u>	•	•	•
TfL Pension Fund (On sustainable Investing)	•	•	•
Safety, health and environment Annual reports	•	•	
TfL Sustainable Timber Policy		•	
Bus Crime statistics (London boroughs)	•		

Publication	Society	Environment	Economy
Road danger reduction dashboard and data	•		
Annual Diversity and Inclusion impact report	•		
Employment Landing page	•		
Human Resources Quarterly Report	•	•	
TfL Modern Slavery and Human Trafficking Annual Statement	•		
Santander Cycles Performance report	•		•
Transparency landing page	•		•
Senior Pay	•		
GLA Group Responsible Procurement Progress Report	•	•	•
<u>Vision Zero action plan</u>	•		

## Glossary

Considering the design of products, devices, services and environments to ensure everyone can use them
Charter launched in March 202I, to which TfL is a founding signatory. TfL has committed, along with some of the city's other biggest organisations, to working together by using their procurement and recruitment power to maximise employment opportunities and help young people to flourish
Term used to describe the enormous variety of life on Earth, including plants, bacteria, animals and humans. It can be used more specifically to refer to all the species in one region or ecosystem
An approach to development that leaves biodiversity in a better state than before
National special police force that polices railways and light-rail systems in England, Wales and Scotland
The world's longest established method of assessing, rating and certifying the sustainability of buildings
Funds used by a company to acquire, upgrade and maintain physical assets such as property, plants, buildings, technology or equipment
Investment in construction projects that build, maintain and improve our network's infrastructure
The amount invested in a company to enhance its business objectives
Principal greenhouse gas related to climate change
System based on the principles of designing out waste and pollution, keeping products and materials in use and regenerating natural systems
Relates to any purchase required for an organisation to operate, as part of their transition towards a circular economy
Evidence-based sustainability assessment, rating and awards scheme for civil engineering, infrastructure, landscaping and works in public spaces
Improvements to the built environment, assets or processes that lead to a reduction in harm or risk of harm, or realisation of benefits associated with climate variability and climate change. Adaptation policies can lead to greater resilience of communities and ecosystems to climate change
Consists of a wide variety of office product packaging, including cardboard, wood, metal, glass, textiles, containers and aggregates. For TfL, this includes waste from stations, tenanted properties, depots and head offices

Conference of the Parties (COP)	The supreme decision-making body of the UNFCCC (United Nations Framework Convention on Climate Change). All States that are Parties to the Convention are represented at the COP, at which they review the implementation of the Convention and any other legal instruments that the COP adopts, and take decisions necessary to promote the effective implementation of the Convention, including institutional and administrative arrangements
Construction, demolition and excavation waste (CDE waste)	The largest waste stream generated in London. It can contain bricks, slabs, concrete, plaster (gypsum), plasterboard, insulation and excavation materials such as soil, sand and wood
DEFRA	Department for Environment, Food and Rural Affairs
Dial-a-Ride	TfL's free door-to-door service for those with permanent or long- term disabilities
Ecosystem services	The benefits provided by natural capital that contribute to making human life both possible and worth living
Ethical trading initiative base code	Viewed as a global reference standard as a code of good labour practice, widely used as a benchmark to conduct social audits and develop ethical trade action plans
Euro VI	The name given to a set of limits for harmful exhaust emissions produced by virtually any vehicle powered by petrol or diesel engines
GLA Responsible Procurement Plan	Greater London Authority Responsible Procurement Plan
Greenhouse gas	Any gas that induces the greenhouse effect, trapping heat within the atmosphere that would normally be lost to space, resulting in an increase in average atmospheric temperatures, contributing to climate change. Examples include carbon dioxide, methane and nitrous oxides
Green infrastructure	The network of parks, green spaces, gardens, woodlands, rivers and wetlands (as well as features such as street trees and green roofs) that is planned, designed, and managed to: promote healthier living; lessen the impacts of climate change; improve air quality and water quality; encourage walking and cycling; store carbon; and improve biodiversity and ecological resilience
Global Reporting Initiative (GRI)	An international independent standards organisation that helps businesses, governments and other organisations understand and communicate their impacts on issues such as climate change, human rights and corruption
Independent Disability Advisory Group (IDAG)	A panel that helps TfL better understand the impact of its policies, projects and programmes on disabled customers

Low Emission Zone (LEZ)	Encourages the most polluting heavy diesel vehicles driving in London to become cleaner. The LEZ covers most of Greater London and is in operation 24 hours a day, every day of the year
MPS	Metropolitan Police Service
Natural capital	The set of environmental resources (green space, air, water, wildlife) that provides services, such as flood protection or cleaner air, that benefit the wellbeing of Londoners and the city's economy.
Net-zero carbon	Making the amount of carbon emitted into the atmosphere equal to the amount taken out of the atmosphere. Reaching zero carbon on a net basis, where any residual greenhouse gas emissions are offset
Oxides of nitrogen (NO <sub>x</sub> ) consisting of nitric oxide (NO) and nitrogen dioxide (NO <sub>2</sub> )	Two gases whose molecules are made of nitrogen and oxygen atoms. These nitrogen oxides contribute to the problem of air pollution, impacting on human health and life expectancy and playing a role in the formation of both smog and acid rain
Non-visible disability	A disability that is not immediately apparent, typically chronic illnesses and conditions that significantly impair normal activities of daily living
Optioneering	Evaluating different options to solve a specific problem
Pilates	A method of exercise that consists of low-impact flexibility, and muscular strength and endurance movements
Procurement	The process of finding and agreeing to terms and acquiring goods, services, or works from an external source, often via a tendering or competitive bidding process
Rewilding	The process of restoring ecosystems to the point where nature can take care of itself. It often involves reintroducing a few key species that act as a catalyst for wider nature and biodiversity restoration
Scope 3 emissions	Other indirect emissions, such as the extraction and production of purchased materials and fuels, transport-related activities in vehicles not owned or controlled by the reporting entity, and electricity-related activities not covered in scope 2
Scoping study	A preliminary study to define the scope of a project
SHE	Safety Health and Environment
Small and medium enterprise (SME)	Business with fewer than 250 employees, and a turnover of less than €50 million, or a balance sheet total of less than €43 million
Social cohesion	The extent of connectedness and solidarity among groups in society

Social development	Improving the wellbeing of every individual in society so they can reach their full potential. The success of society is linked to the wellbeing of each and every citizen
Social integration	Process during which newcomers or minorities are incorporated into the social structure of the host society
Solar private wire	Generating new solar power on land with a direct contention to TfL's network, thereby providing a renewable supply of energy to London Underground services
Step-free access	The use of lifts, ramps and level surfaces instead of stairs or escalators, and avoidance of gaps onto our trains, buses and boats
Supply chain	The activities and processes required by an organisation to deliver goods or services to the consumer
Sustainable drainage systems (SuDS)	Systems to slow and reduce the flow of rainwater before it reaches our drainage systems, helping to reduce the risk of surface water flooding
Tactile paving	Textured ground surface found on footpaths, stairs and station platforms to warn or direct pedestrians who are visually impaired
The London Recovery Board	London's recovery is led by the London Recovery Board, chaired jointly by the Mayor of London, Sadiq Khan, and the Chair of London Councils, Councillor Georgia Gould. It brings together leaders from across London's government, business and civil society, as well as the health and education sectors, trade unions and the police, to oversee the long-term recovery from the coronavirus pandemic
The Paris Agreement	A legally binding international treaty on climate change. It was adopted by 196 Parties at COP 2I in Paris, on I2 December 2015 and entered into force on 4 November 2016. Its goal is to limit global warming to well below 2, preferably to I.5, degrees Celsius, compared to pre-industrial levels
Three pillars of sustainability	Sustainability is most often defined as meeting the needs of the present without compromising the ability of future generations to meet theirs. It has three main pillars: Society, Environment, Economy. The factors of these must be balanced in equal harmony to achieve true sustainability
United Nations Sustainable Development Goals	A blueprint to achieve a better and more sustainable future for all. They address the global challenges we face, including poverty, inequality, climate change, environmental degradation, peace and justice
Vision Zero	An apporach for that aims to eliminate all deaths and serious injuries on London's transport system
Workplace champion	Employee that is dedicated to improving a certain area within the company

#### **About TfL**

Part of the Greater London Authority family led by Mayor of London Sadiq Khan, we are the integrated transport authority responsible for delivering the Mayor's aims for transport.

We have a key role in shaping what life is like in London, helping to realise the Mayor's vision for a 'City for All Londoners' and helping to create a safer, fairer, greener, healthier and more prosperous city. The Mayor's Transport Strategy sets a target for 80 per cent of all journeys to be made by walking, cycling or using public transport by 204I. To make this a reality, we prioritise sustainability, health and the quality of people's experience in everything we do.

We run most of London's public transport services, including the London Underground, London Buses, the DLR, London Overground, TfL Rail, London Trams, London River Services, London Diala-Ride, Victoria Coach Station, Santander Cycles and the Emirates Air Line. The quality and accessibility of these services is fundamental to Londoners' quality of life. By improving and expanding public transport and making more stations step

free, we can make people's lives easier and increase the appeal of sustainable travel over private car use.

We manage the city's red route strategic roads and, through collaboration with the London boroughs, we are helping to shape the character of all London's streets. These are the places where Londoners travel, work, shop and socialise. Making them places for people to walk, cycle and spend time will reduce car dependency, improve air quality, revitalise town centres, boost businesses and connect communities. As part of this, the Ultra Low Emission Zone scheme and more environmentally friendly bus fleets are helping to tackle London's toxic air.

During the coronavirus pandemic we have taken a huge range of measures to ensure the safety of the public. This includes enhanced cleaning using hospital-grade cleaning substances that kill viruses and bacteria on contact, alongside regular cleaning of touch points, such as poles and doors, and introducing more than I,000 hand sanitiser points across the public transport network.

Working with London's boroughs we have also introduced Streetspace for London, a temporary infrastructure programme providing wider pavements and cycle lanes so people can walk and cycle safely and maintain social distancing.

At the same time, we are constructing many of London's most significant infrastructure projects, using transport to unlock much needed economic growth. We are working with partners on major projects like the extension of the Northern line to Battersea, Barking Riverside and the Bank station upgrade.

Working with Government, we are in the final phases of completing the Elizabeth line which, when open, will add IO per cent to central London's rail capacity. Supporting the delivery of high-density, mixed-use developments that are planned around active and sustainable travel will ensure that London's growth is good growth. We also use our own land to provide thousands of new affordable homes and our own supply chain creates tens of thousands of jobs and apprenticeships across the country.

We are committed to being an employer that is fully representative of the community we serve, where everyone can realise their potential. Our aim is to be a fully inclusive employer, valuing and celebrating the diversity of our workforce to improve services for all Londoners.

We are constantly working to improve the city for everyone. This means using data and technology to make services intuitive and easy to use and doing all we can to make streets and transport services accessible to all. We reinvest every penny of our income to continually improve transport networks for the people who use them every day. None of this would be possible without the support of boroughs, communities and other partners who we work with to improve our services.

By working together, we can create a better city as London recovers from the pandemic and moves forward.

