



## Module Three TfL

#### What are we doing in TfL?

#### Sources of Carbon: Scope 1, 2, 3 emissions

### What can your business area do?



## We are going to talk London & TfL

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## **Carbon Emissions in London**

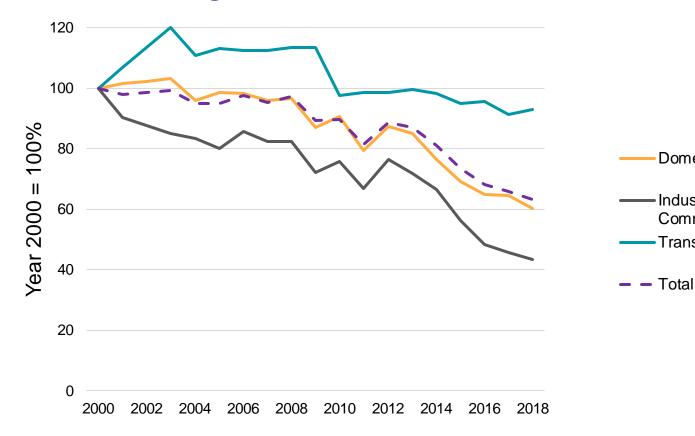
**Change in London's Carbon Emissions since 2000** 

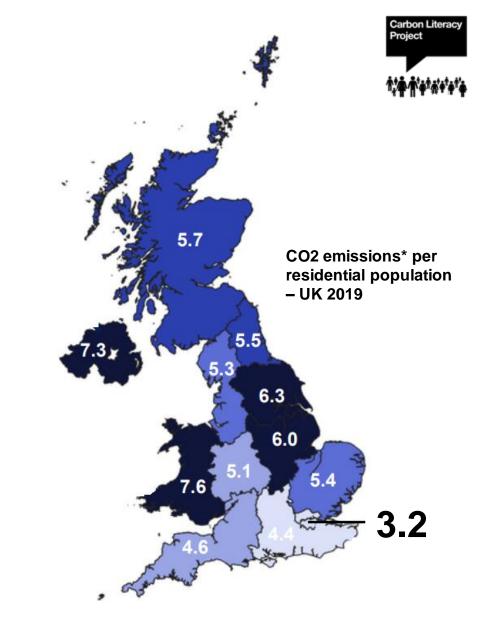
Domestic

Industrial and

Commercial

Transport

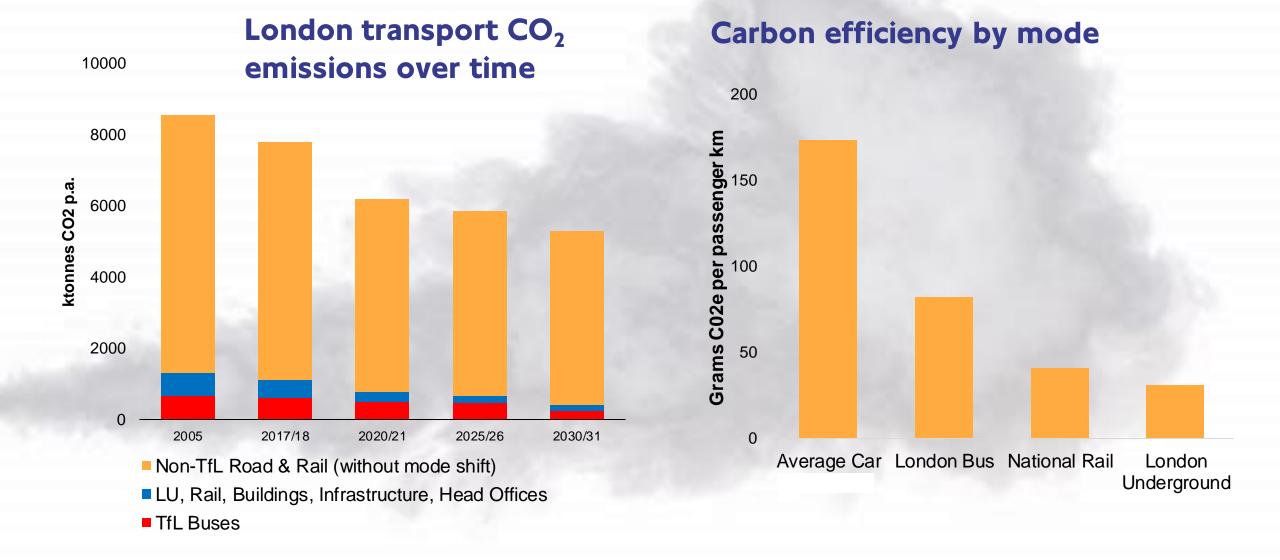




\*based on territorial emissions - not including impact of imports and exports



## **Transport Emissions in London**



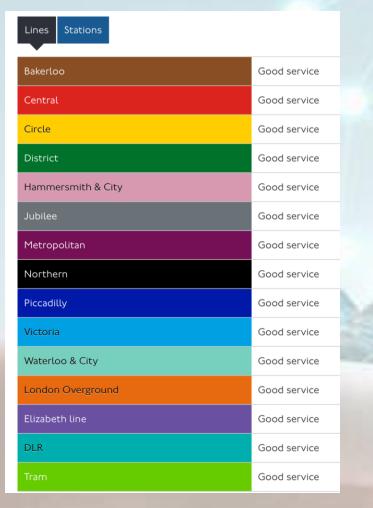
## What can we do to impact carbon at TfL?

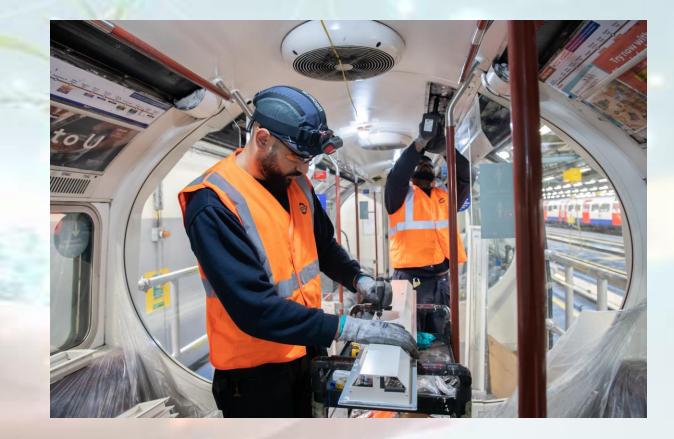
#### 1. Do what we do - well

#### 2. Decarbonise

Carbon Literacy Proiect

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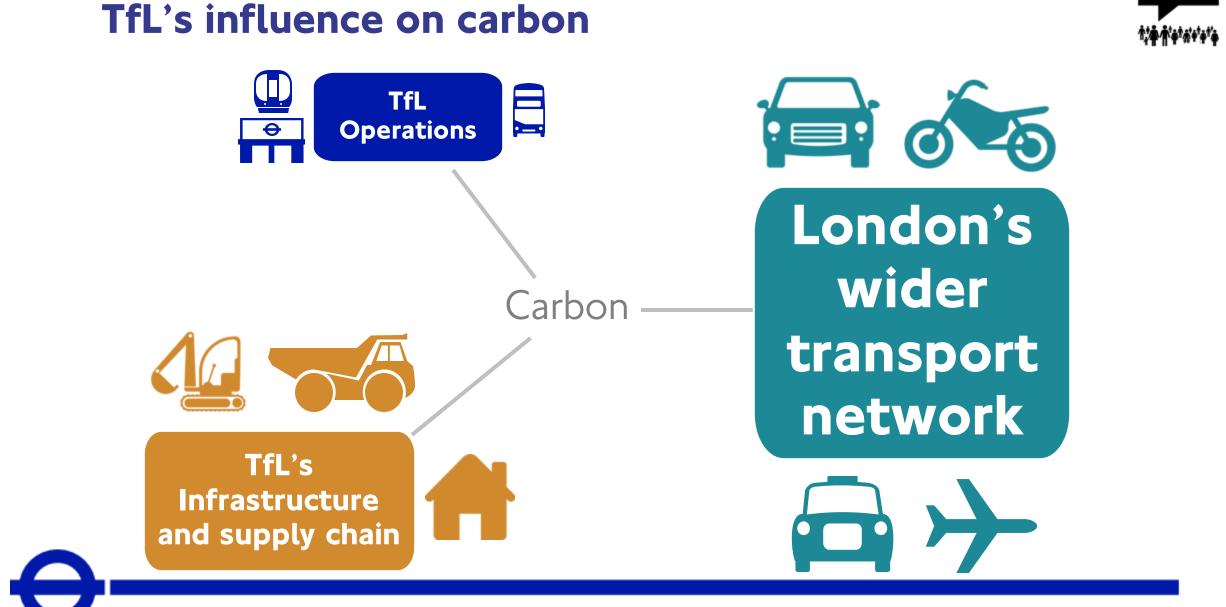


## Module Three TfL

#### What are we doing in TfL?







## Talking carbon: Scope 1, 2, 3 emissions



#### Scope I: we burn stuff

greenhouse gases we emit directly, such as running gas boilers in offices or diesel engines in buses

#### Scope 2: someone burns stuff to make our electricity

greenhouse gases which are caused indirectly by a company. This includes non-renewable electricity purchased by the company



TfL's Infrastructure and supply chain

London's wider transport network



#### Scope 3:

#### Upstream: our suppliers emit carbon Downstream: carbon from activities we influence

All the other emissions that are associated with what we do. From what we buy from our suppliers, to the emissions of its customers while using the company's service (in our case, anyone travelling in London!)



## Activity: In sector do our activities belong?



TfL Operations

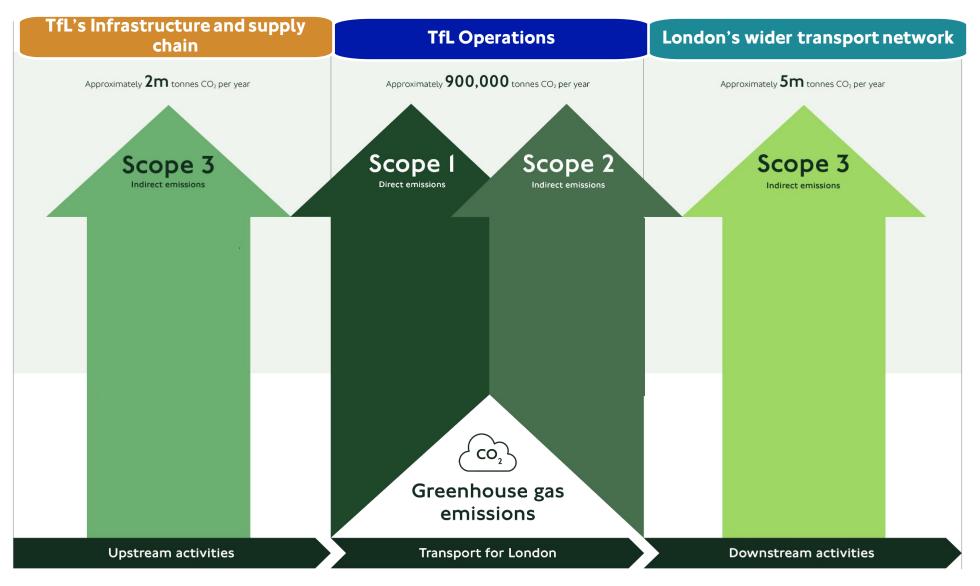
London's wider transport network

## Place your activities on the wall



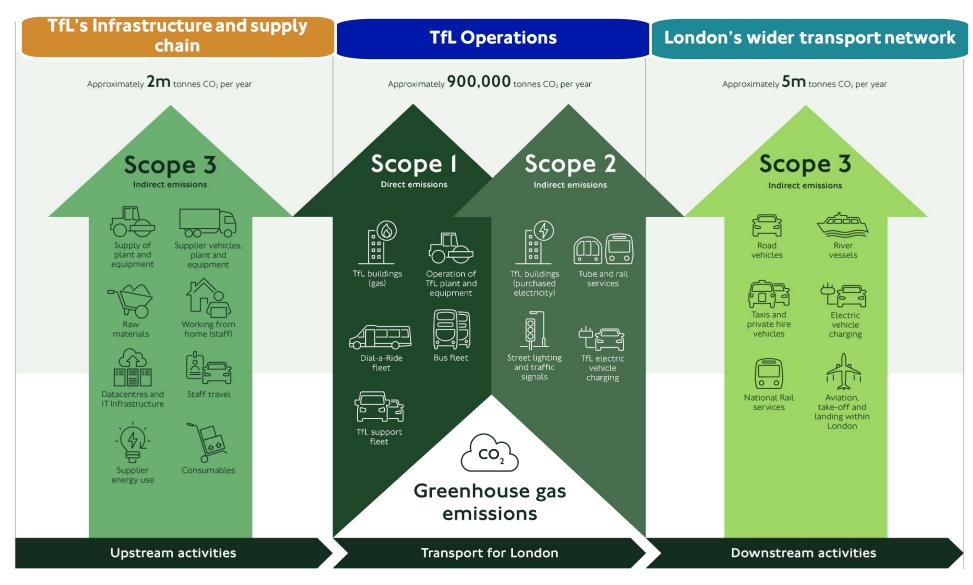
## Scope and reach of our carbon emissions





## Scope and reach of our carbon emissions





## London and TfL Policy



#### The Mayor's target for London is to be Net Zero Carbon by 2030, this means:

## London's emissions are decreased to as low a level as is possible

Any remaining emissions are then balanced by either:

- removing an equivalent amount of carbon from the atmosphere (negative emissions measures)
- offsetting through investment in carbon mitigation outside the region.

Our Vision and Values

Our Purpose: This is why we exist

## To move London forward safely, inclusively and sustainably

Our Values: This is how we work

## We are caring, open and adaptable because every journey matters



Our Vision: This is the future we'll create together

We'll be a strong green heartbeat for London

Our Roadmaps: This is how we'll get there







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

## TfL's Climate Emergency ambitions:

**Reach net zero** carbon across all our operations by 2030

Support London reaching net zero

**Be ready** for the impacts of climate change on our network





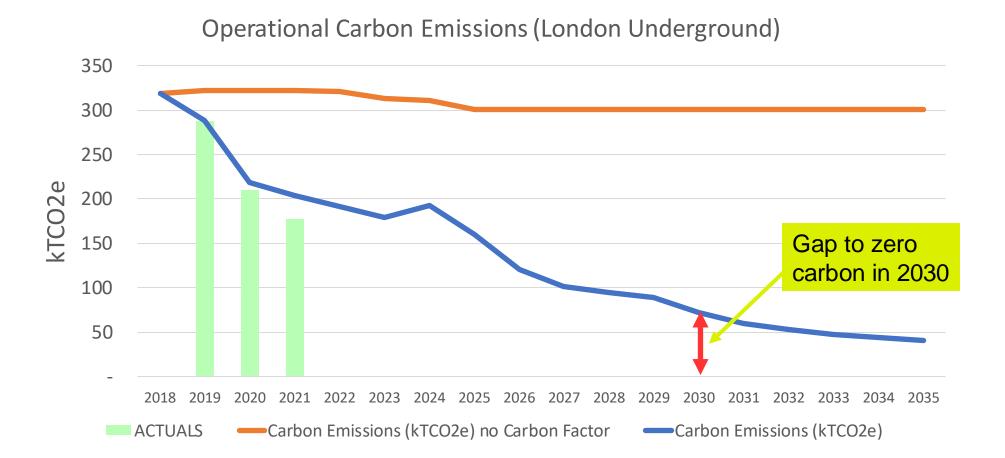


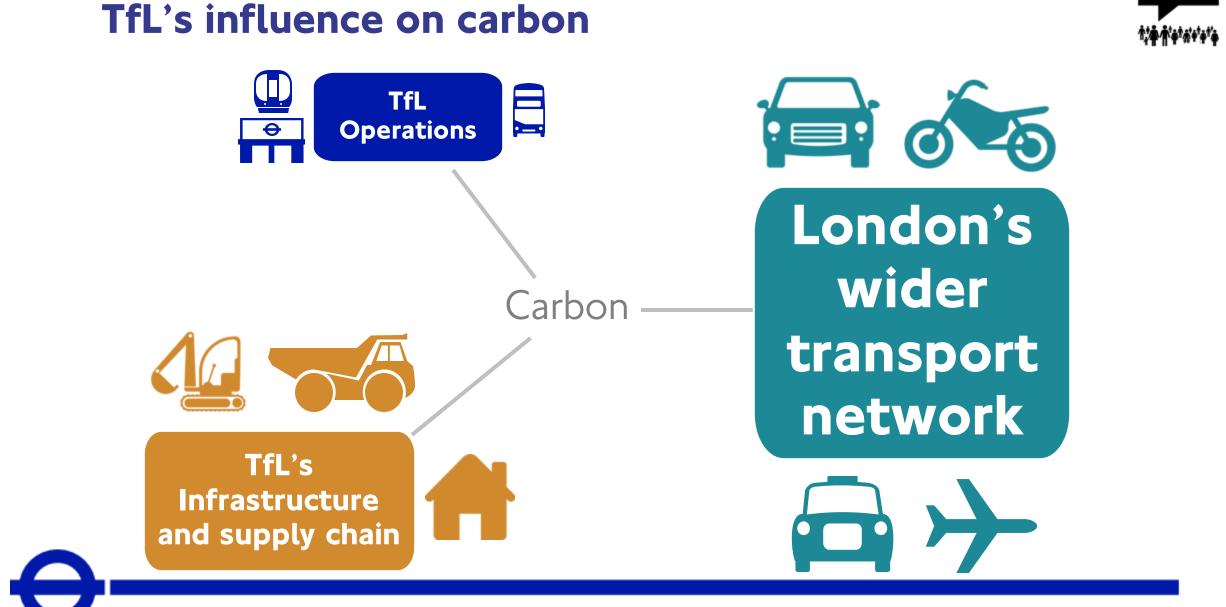






## How is TfL performing against these targets

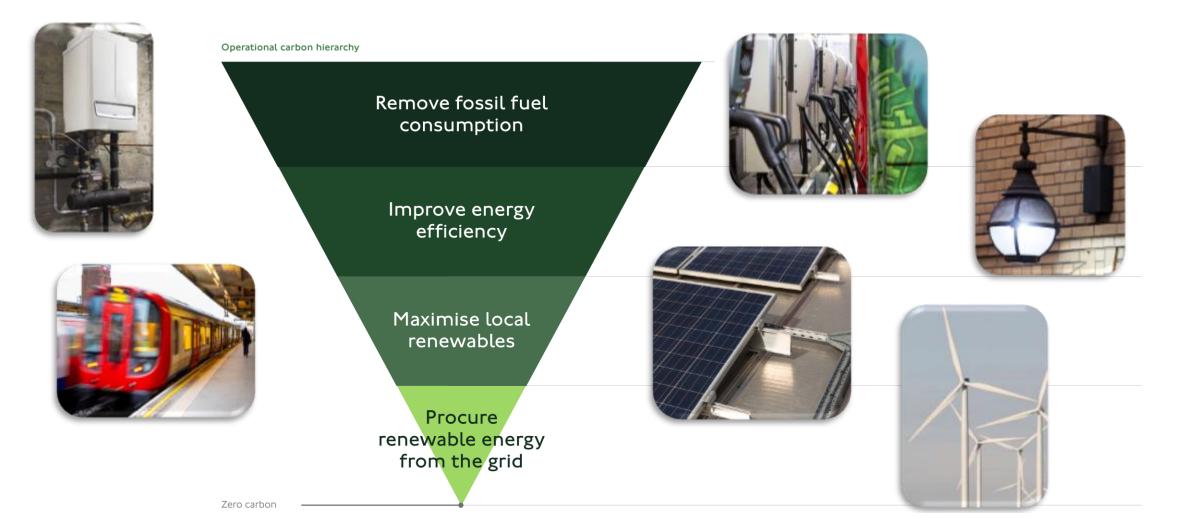








## TfL's strategy to reduce operational carbon



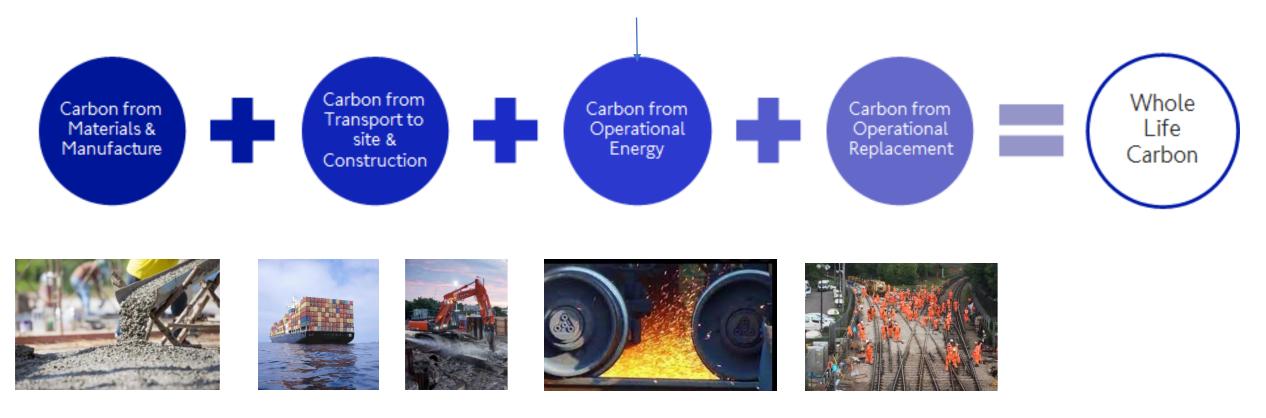
TfL's Infrastructure and supply chain

### **Carbon in construction projects**

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#### TfL's 'Whole Life Carbon' footprint is <u>not</u> just due to energy use!



#### PAS 2080 (2016): Carbon Management in Infrastructure

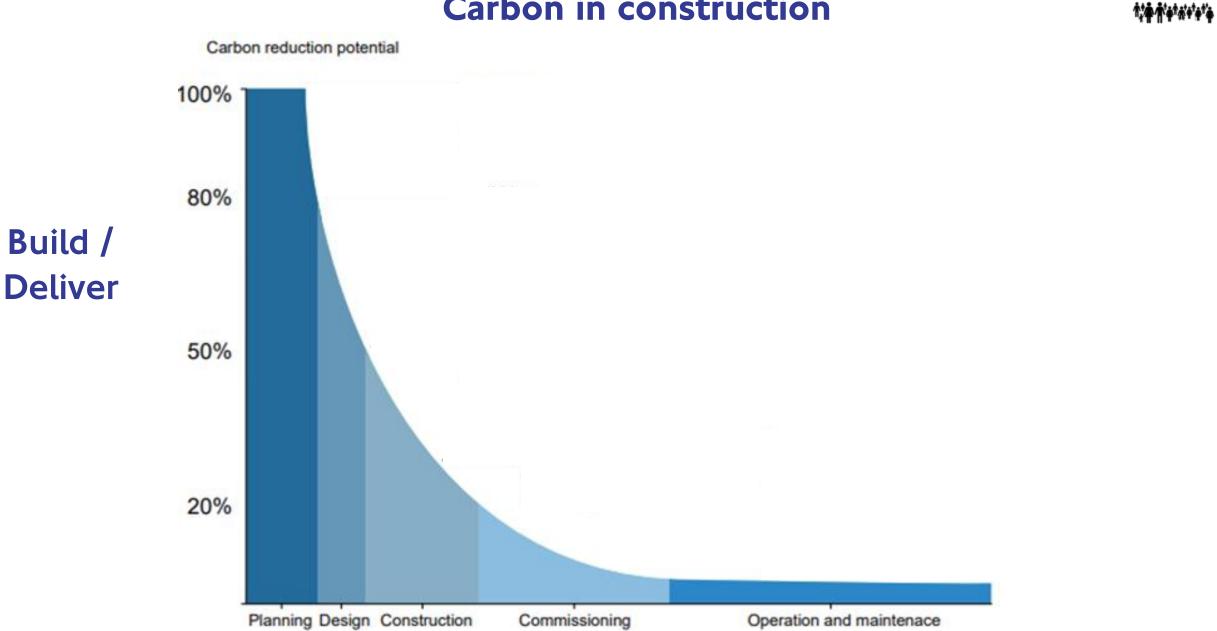
BSI Standards Ltd & Green Construction Board

TfL's Infrastructure and supply chain

#### **Carbon in construction**

Carbon Literacy

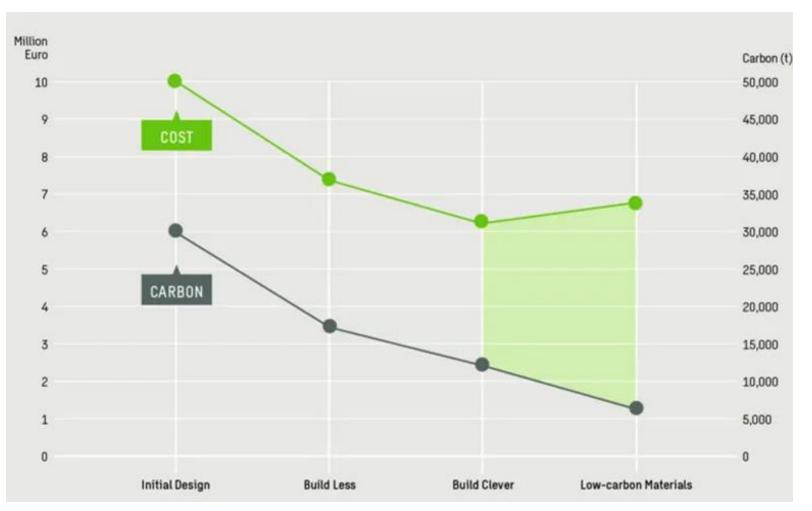
Project



### Low carbon = Low cost



If low carbon thinking is embedded from the start, the cost will decrease in line with carbon



#### TfL Project's Carbon Reduction Example – Colindale Station

Total **209 Tonnes of CO2**(e) saved (-16% vs baseline) due to design changes changes...

Original Concept Design – station facade



#### <u>Revised</u> Concept Design - key changes



#### Original Concept Design – ticket hall



#### <u>Revised</u> Concept Design – key changes





## TfL priorities for London's Transport Network

### Road user charging



## Electric Vehicle (EV) charge points



### ULEZ and Congestion Charge schemes



Improve transport carbon data



## **Climate Adaptation**



#### The process of adjusting to current or expected effects of climate change

Flooding example: Alma Road, Enfield: By Enfield Council Creating rain gardens to reduce the risk of surface water flooding





#### **SuDS in action**







## We all need to embed low-carbon practices to create real change

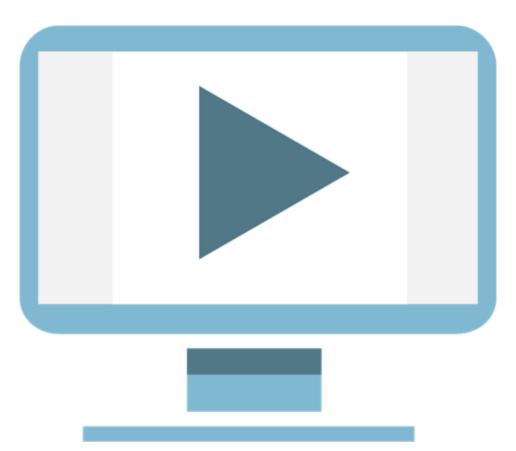
The actions mentioned in the previous slides are just a starting point

We must all take action to change our thinking, ways of working and exert or our influence to achieve the transformative change required

See Andy Byford talk about the importance of TfL's Green Future

#### **Extract from Sustainability video**









## **Break**





#### **Break video**











## Module Three TfL

#### What can your business area do?





# What are the main sources of carbon related to the work of your business area?

- 1) Which of these is your business area in direct control of?
- 2) How could your business area **influence** other areas?
- 3) What can you do?

Who can your department/team influence to take action on climate change? (other parts of TfL, other organisations) These ideas may be helpful for your pledge

How can you influence? What techniques could you use?

## **Carbon Literacy**

How could you help TfL cut carbon and tackle climate change?

Would you be confident in making your case and able to support your view with evidence?



## **Break**

