



# Cardiff Crossrail

15<sup>th</sup> March 2023

A transit-led vision for Cardiff



# The vision for Cardiff Bay

TWO KEY OBJECTIVES:

ONE: DELIVER A **GREEN TRANSPORT – LED DEVELOPMENT TRANSFORMATION** at Cardiff Bay

TWO: DELIVER AN EFFECTIVE TRAM SYSTEM FOR  
CARDIFF/REGION

ONE: “OUR VISION IS TO DELIVER A **GREEN TRANSPORT – LED DEVELOPMENT TRANSFORMATION** AT CARDIFF BAY.....

- ... connecting people with opportunity,
- ... welcoming visitors and investors,
- ... reducing carbon emissions
- ... providing the platform for Cardiff to fulfil its potential as the economic powerhouse for all of Wales.”

## TWO: AN EFFECTIVE MASS TRANSIT SYSTEM FOR CARDIFF/REGION

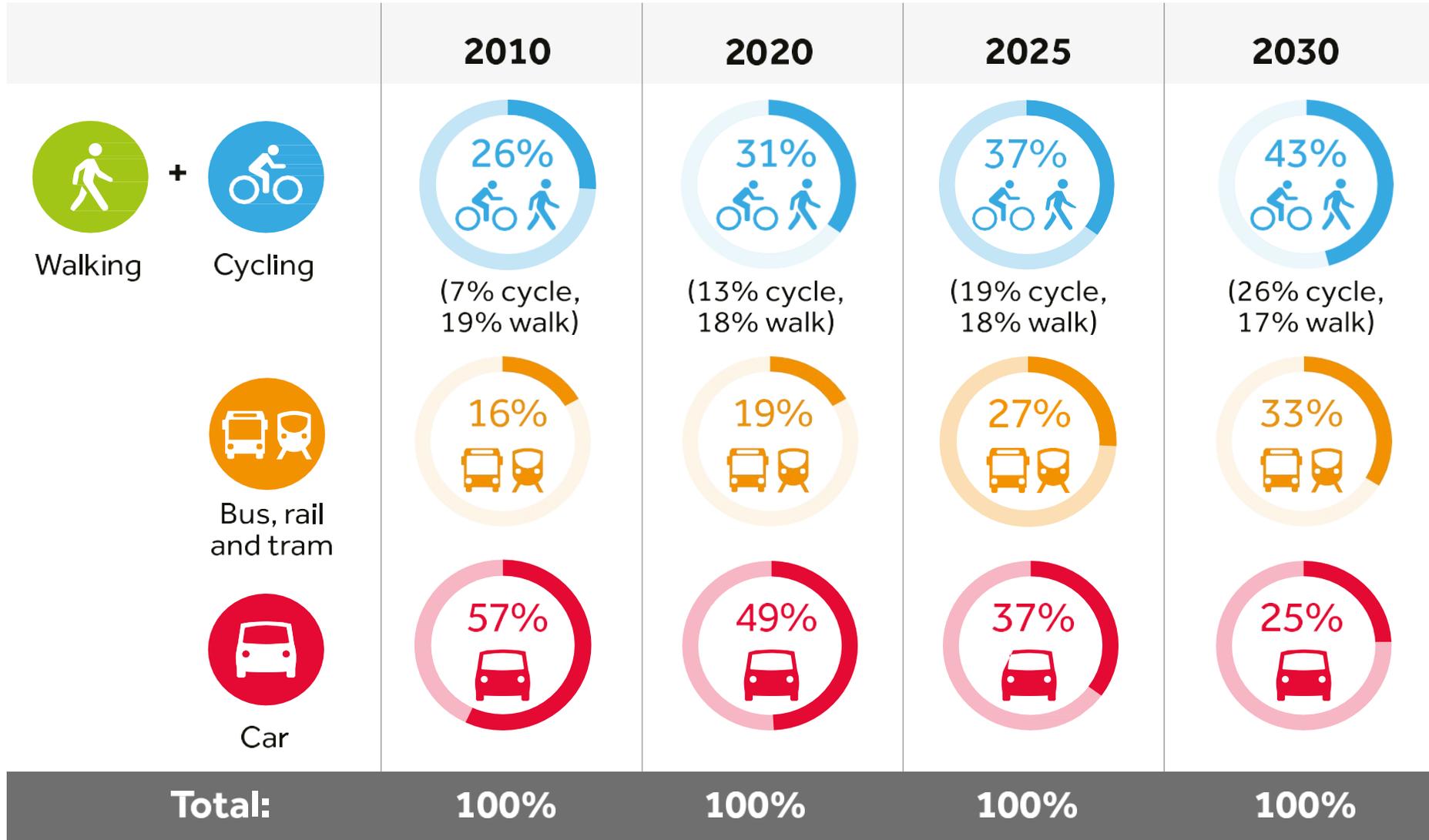
- 10 Yr Cardiff Transport Strategy Targets 75% Sustainable Transport Use
- Already CCCR £750 million Investment Regional Tram/Train
- Cardiff Crossrail 1 Phase Citywide Tram
  - City To Bay (£100m Luf + WG Match Grant)
- Next Step Among The Best Public Transport systems in UK

# Cardiff Crossrail (CXR)

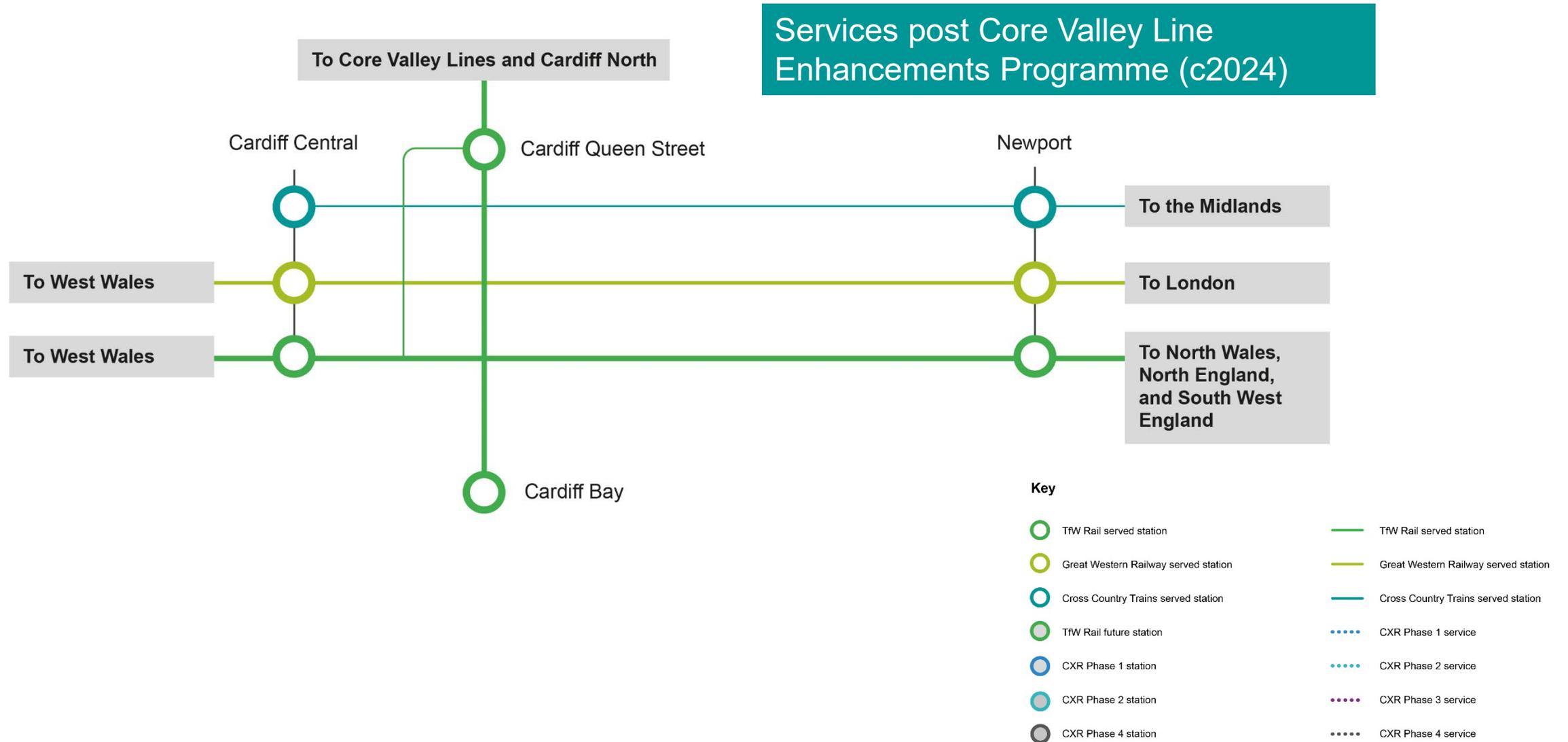
- The Cardiff Bay area offers great potential for development and employment growth but is rather isolated from the centre of Cardiff and much more so from the remainder of the Cardiff Capital Region.
- Further investment in the Bay's connectivity is required to secure direct benefits for the area and to begin to realise the agglomeration benefits associated with an increase in effective population density.
- ***It is this that makes Cardiff Crossrail (CXR) Phase 1 and later phases so essential to the whole Capital Region.***

**Achieving the  
vision – Among  
Best Public  
Transport  
System in UK**

# CARDIFF'S 10YEAR TRANSPORT TARGET:

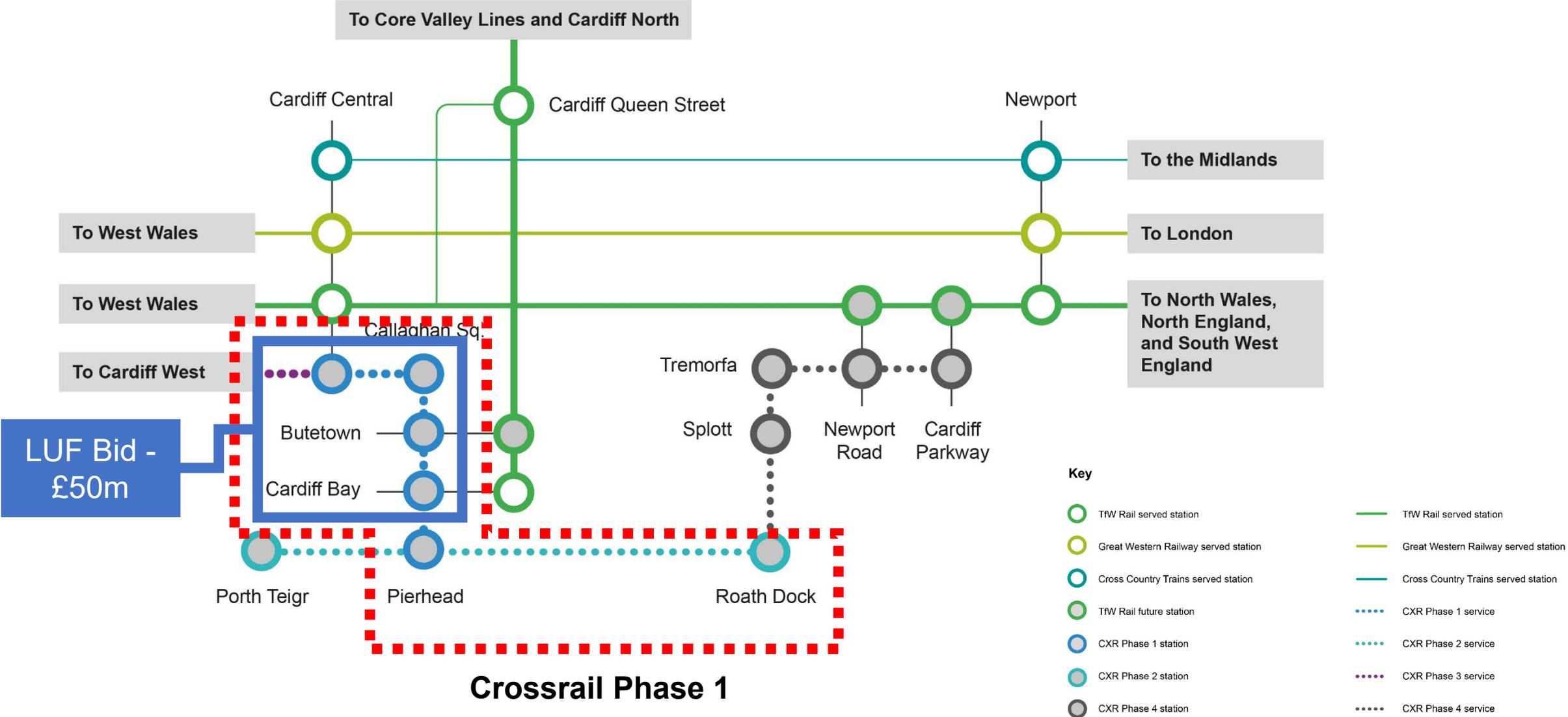


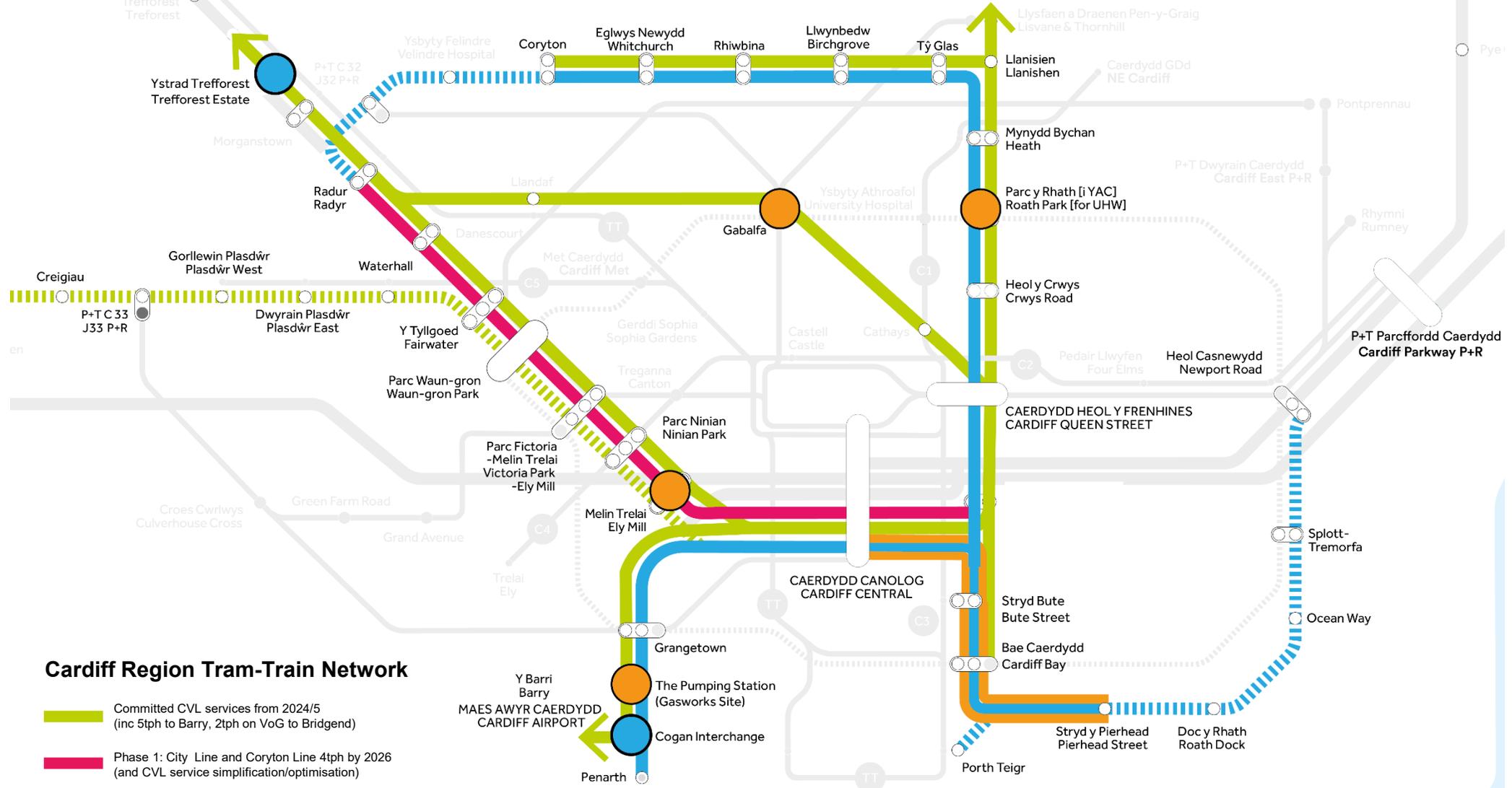
# A phased approach for Cardiff Crossrail



# City – Bay Link – Crossrail (CXR) Phase 1

**Bid 1**

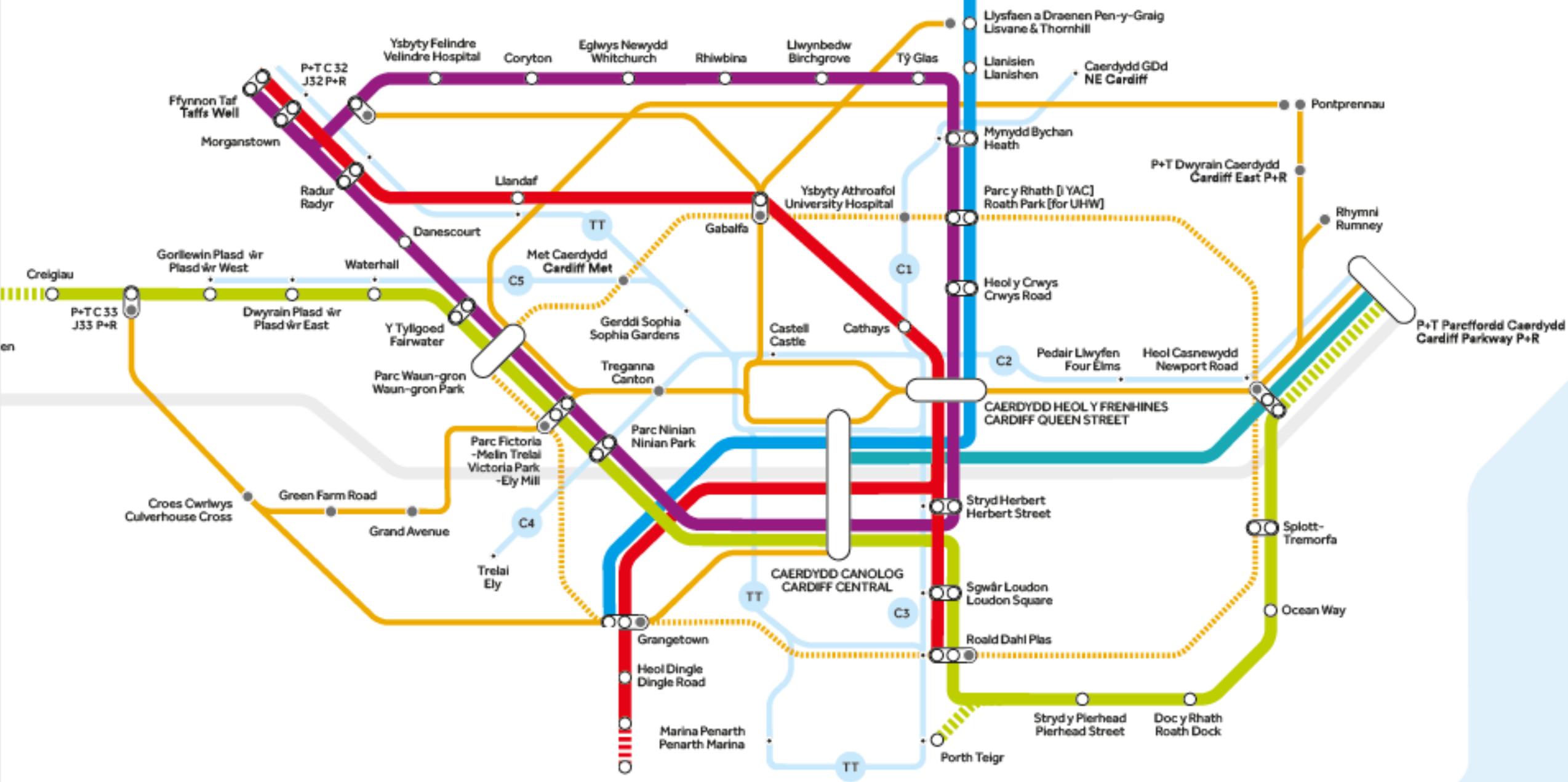




### Cardiff Region Tram-Train Network

- ▬ Committed CVL services from 2024/5 (inc 5tph to Barry, 2tph on VoG to Bridgend)
- ▬ Phase 1: City Line and Coryton Line 4tph by 2026 (and CVL service simplification/optimisation)
- ▬ Phase 2: Cardiff Central – Pierhead Street, 2026- 2028
- ▬ Phase 3: Cardiff Crossrail to Penarth by 2028 (via ramp, OLE to Penarth and incorporate Coryton line services)
- ▬ Phase 4: City Circle, and Crossrail to Newport Rd by 2030 subject to further funding
- ▬ Phase 5: North-West Cardiff, by 2035

- Ongoing: New (or enhanced) stations required
- Major station upgrade



**Among the first major UK cities to have a comprehensive and integrated:**

**Rail/Tram**

**Bus**

**and Fully Segregated Cycle Network....**

**Achieving the vision  
– potential wider  
socio-economic  
impact**

# Light rail to the Bay

1

## Benefits the economy

Allowing the region to grow without increased car traffic

2

## Can be site specific in targeting impact

e.g. Butetown station

3

## Promotes economic confidence

for investors and is proven to deliver land value uplift

4

## Provides social inclusion

providing an attractive connection to jobs and training opportunities

5

## Will be green

- ↓ car trips
- ↓ carbon emissions
- ↑ air quality

6

## Will promote placemaking

Delivering public realm improvements and a sense of connectivity and inclusion

7

## Link visitors seamlessly

to the Arena, Butetown, and rest of Cardiff Bay

8

## Supports health and wellbeing

by linking to complementary investment in active modes and car free environments



# Environmental benefits

In addition to new homes, jobs and GVA benefits, the light rail investment is the potential catalyst to a transformational change in travel behaviour, realising significant economic and environmental benefits for the region and nation:



## Reduced car travel

Saving an estimated  
10,000 million kms per  
annum

£1,400 million per annum  
from decongestion



## CO<sub>2</sub> emissions

Saving an estimated 750,000  
tonnes per annum

£70 million per annum



## Improved air quality

£25 million per annum

- 2040 values. Monetary values have been converted to 2010 values and prices and discounted to 2010 in line with HMT and DfT guidance.

# What a **green development transformation** means in practice for Cardiff Bay



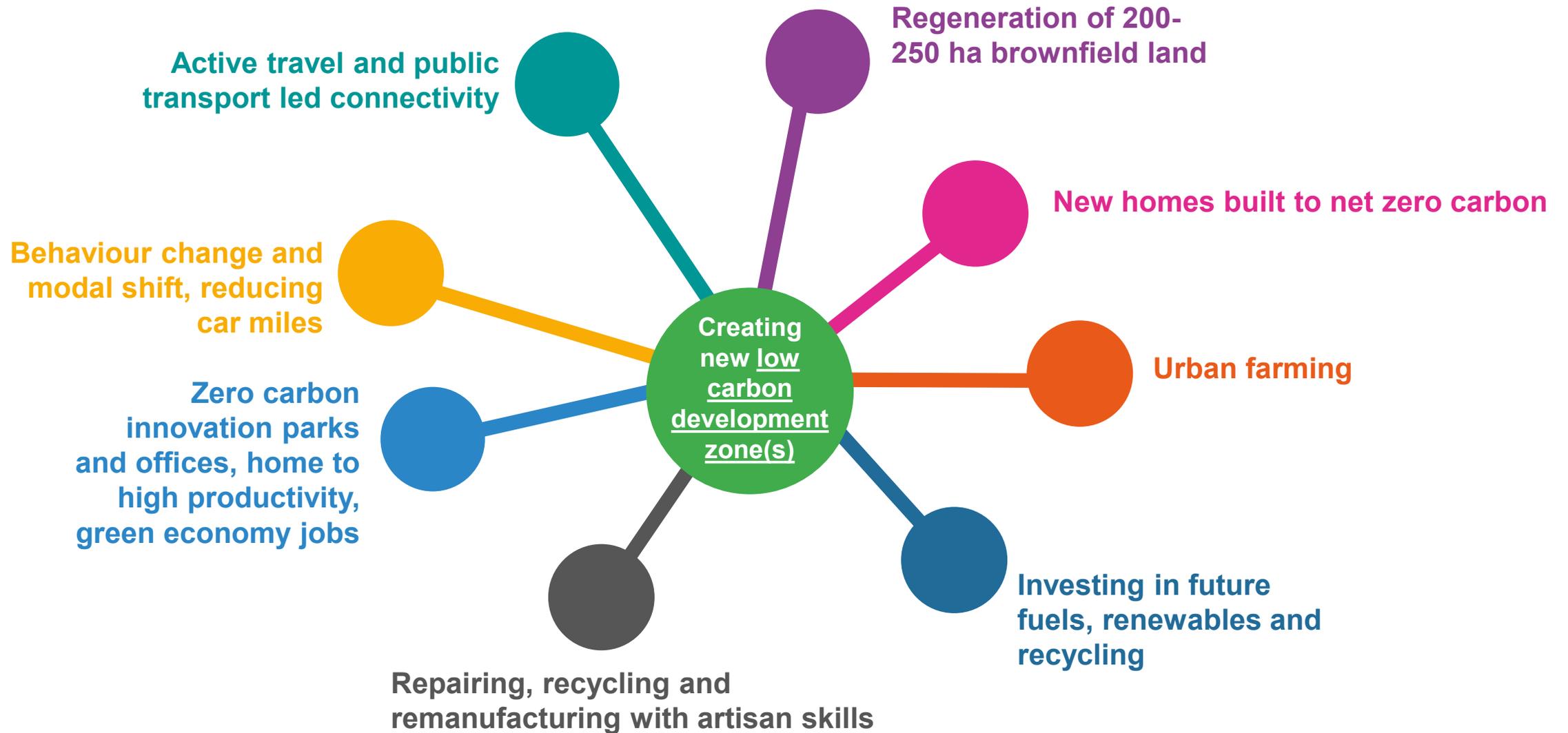
## Growing the...Green economy

- Energy sector – future fuels, renewables & recycling
- Specialist manufacturing
- Repair, recycle, remanufacture needs artisan skills
- A future generations & well-being tourism and hospitality sector
- Active travel & healthy lifestyles

## Green regeneration...

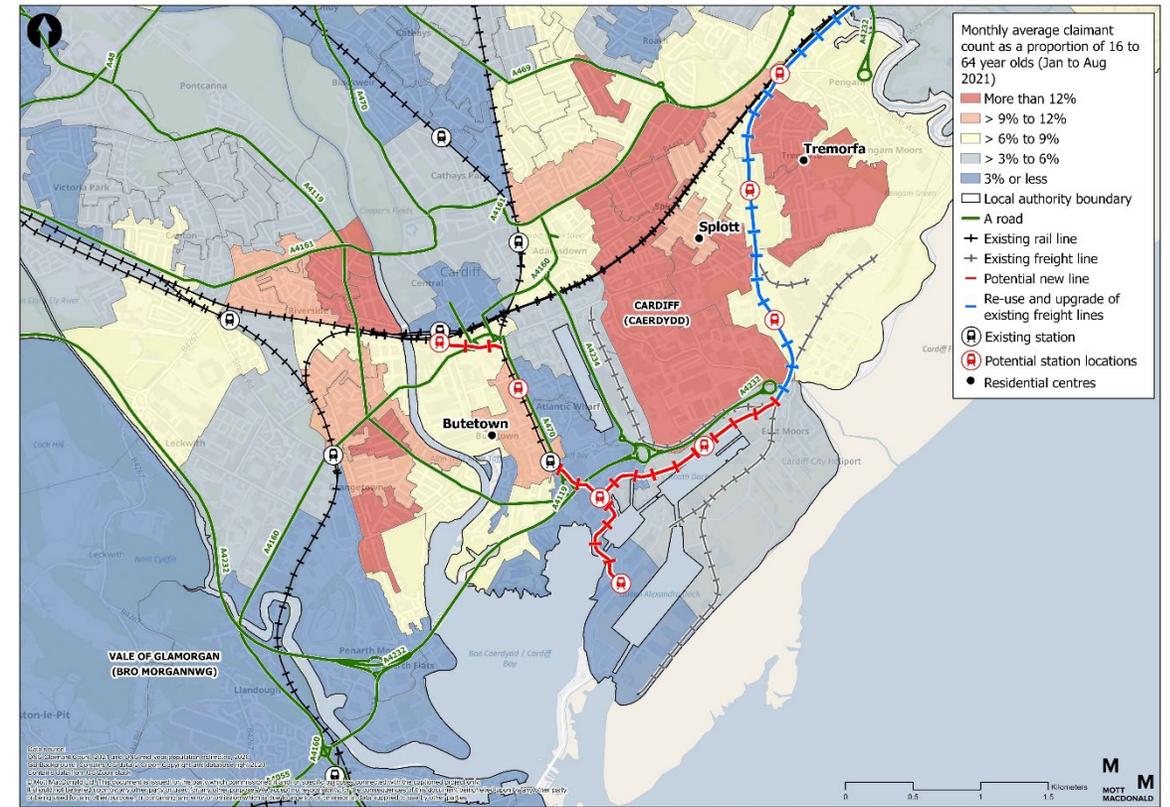
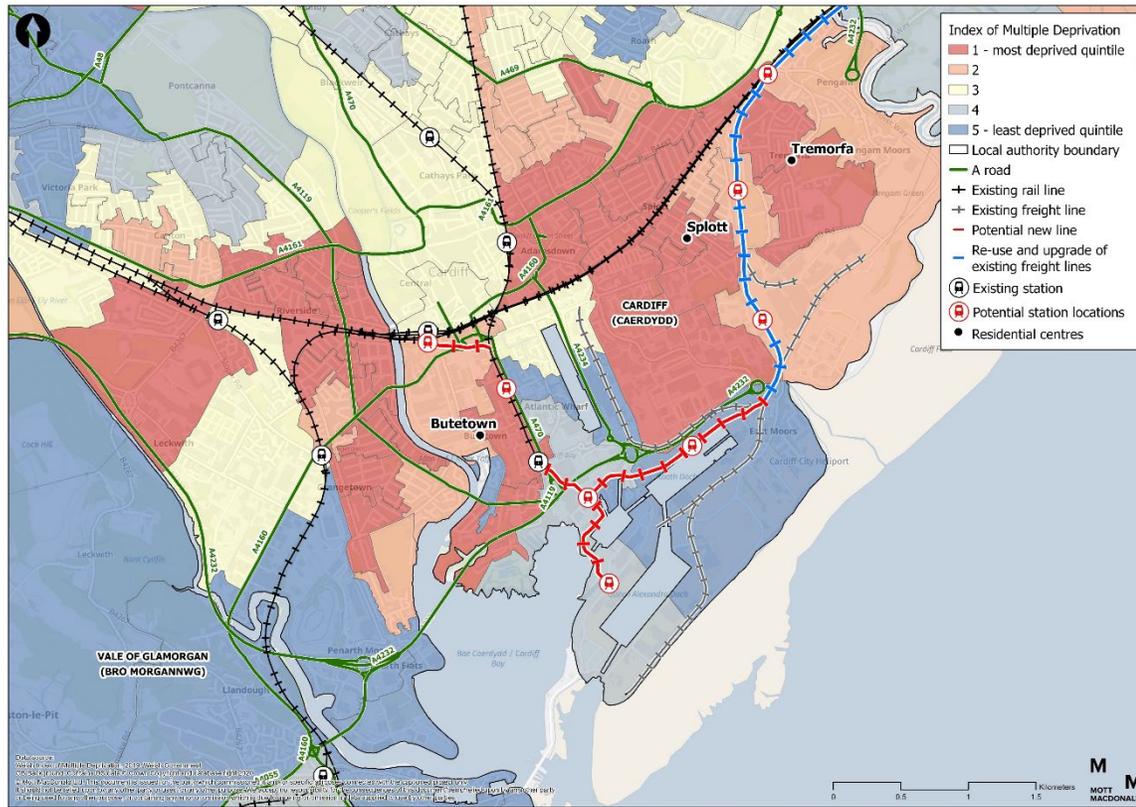
- Modern housing for a net zero future
- Regeneration & repurpose of brownfield sites for green economy jobs
- **Behaviour change based on world class public transit and active modes**

# A strategic plan for low carbon transition



# Challenging inequalities

## Economic and social inclusion

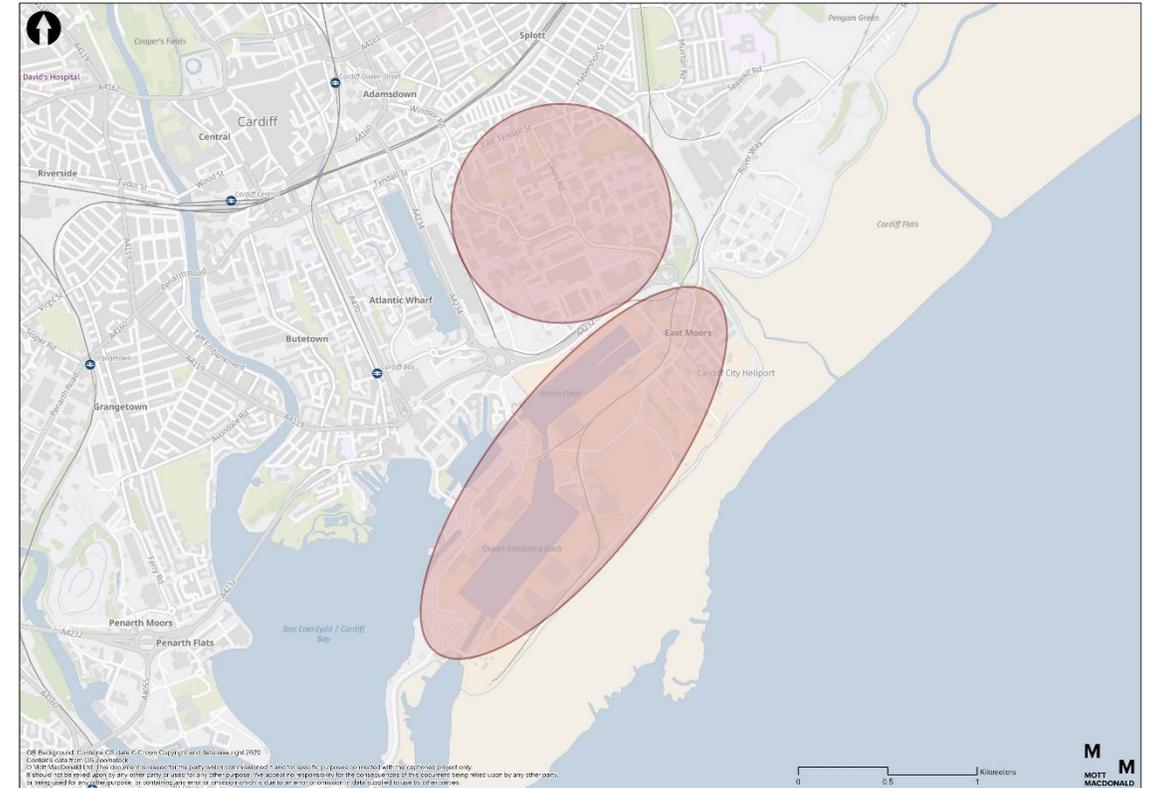


# CXR is not an isolated scheme...

...and a green development transformation won't happen overnight

- A new, world class, 15,000 seat arena - expected to:
  - deliver 1,600 additional jobs
  - raise GVA by £50m pa.
- Catalysing further development to ultimately provide:
  - several thousand homes
  - up to 20,000 jobs, including Arena-related jobs
  - regenerating up to 200-250 ha of brownfield land, subject to planning policy and infrastructure requirements.

Given the generally high average quality of new jobs created in the Bay area, such an expansion of employment would be associated with a **GVA impact of up to £1.2bn annually**.

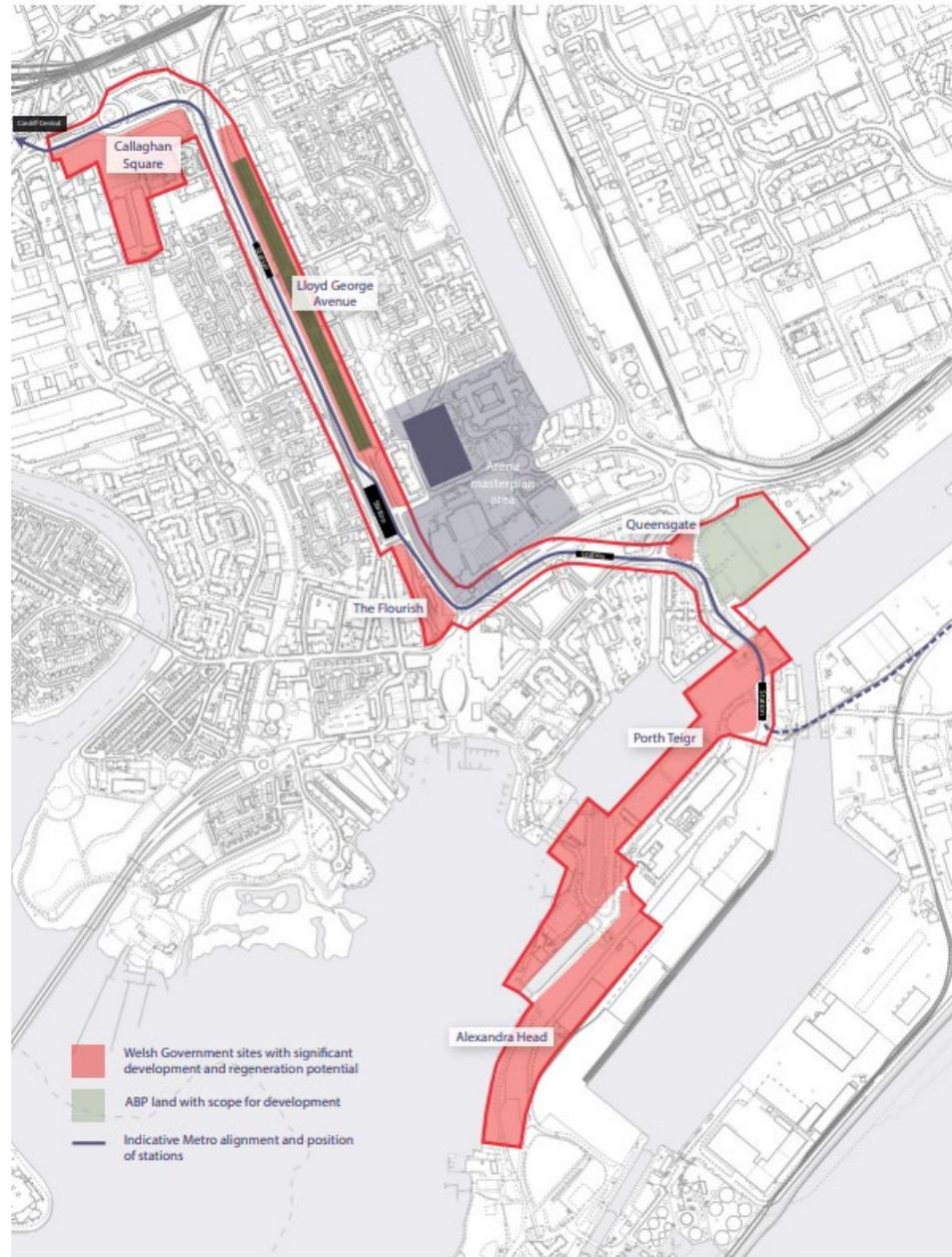


**Opportunities for future development – approximate location of brownfield sites**

## Crossrail Phase 1

### Central Station to Porth Teigr

The LUF bid  
represents only  
the first part of  
Crossrail  
between  
Central Station  
and Cardiff  
Bay.



# CXR is not an isolated scheme...

...and a green development transformation won't happen overnight

- Other arrangements are needed to ensure potential can come to fruition, including:
  - significant public and private sector investment
  - skills training
  - satisfactory utilities infrastructure
  - a responsive planning regime





## First steps – Transit Oriented Development



# Economic benefits

What does this mean for the Capital Region and Wales?

A new world class arena, expected to deliver **1,600 additional jobs** and **£50 million of GVA pa.**



Regeneration of **200ha+ of brownfield land**, with capacity for several thousand new homes



A total of up to **20,000 jobs**, with a GVA impact of **£1.2 billion pa**



An effective doubling of population to derive a productivity uplift of 6 to 8%, equating to **£680m pa.**

# **Achieving the vision – summary**

# Achieving the vision - summary

The changes that have CXR and better transport at their heart could, over time, raise Cardiff GVA 2035:

**A Fully Sustainable Transport System**

**£1.2bn pa**

in addition to growth already projected, and accommodate

**20,000 jobs**



**M**

**MOTT  
MACDONALD**

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**Thank you**