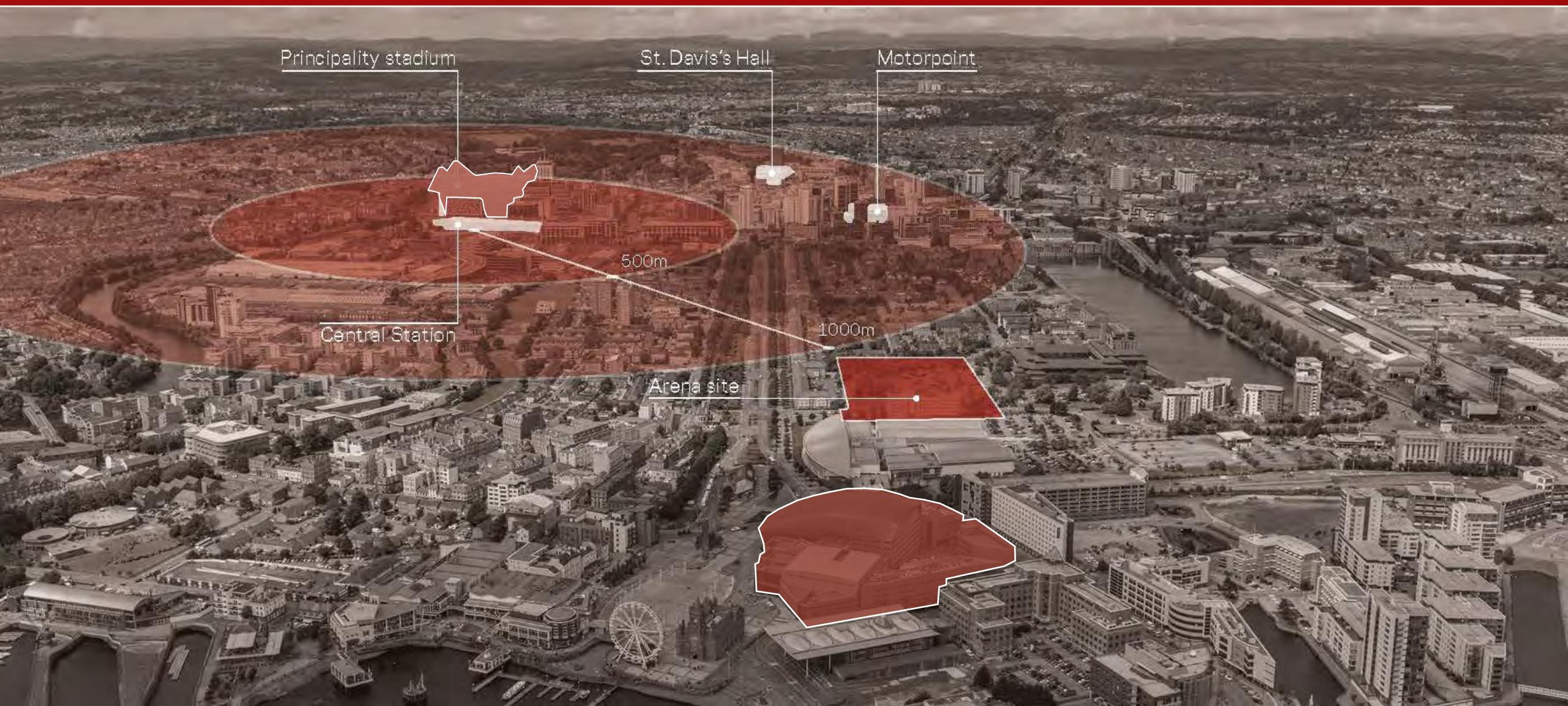


Arena and Hotel

Arena a Gwesty



City infrastructure context Cyd-destun seilwaith y ddinas



Relationship with Future Masterplan

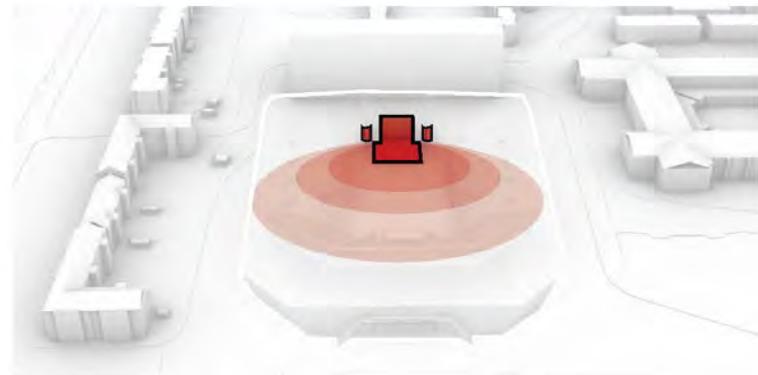
Perthynas ag Uwchgynllun y Dyfodol



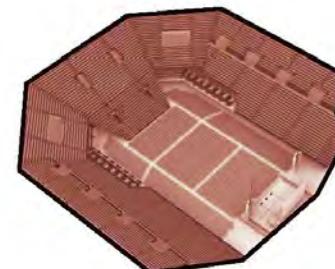
Key design drivers

Gyrwyr dylunio allweddol

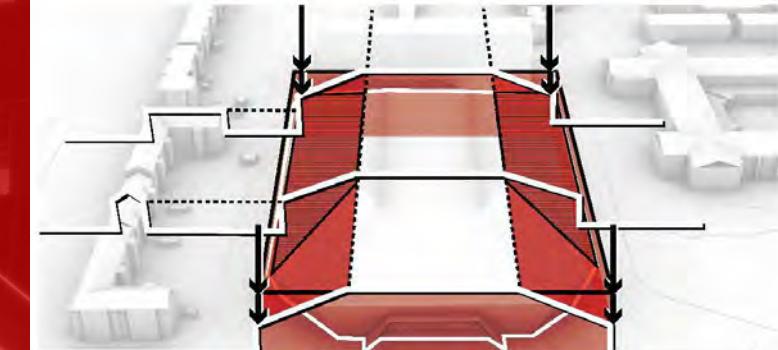
GREAT EXPERIENCE



UNIQUE BOWL

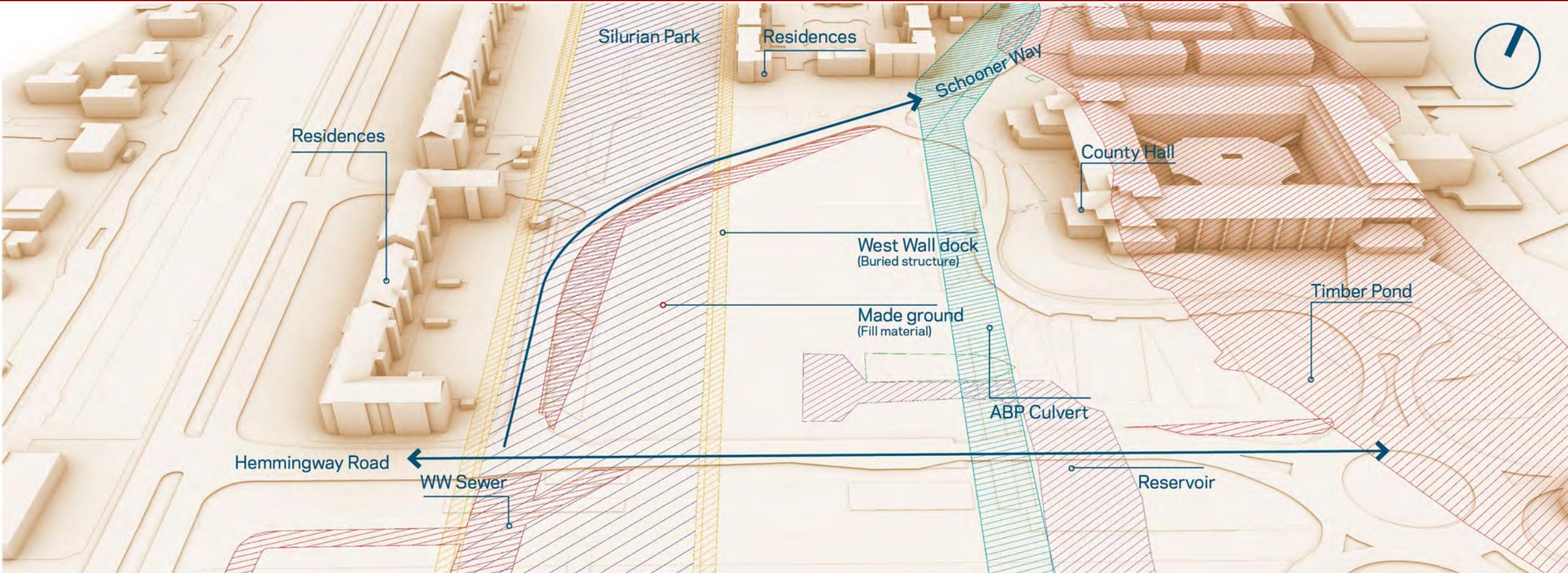


GOOD NEIGHBOUR



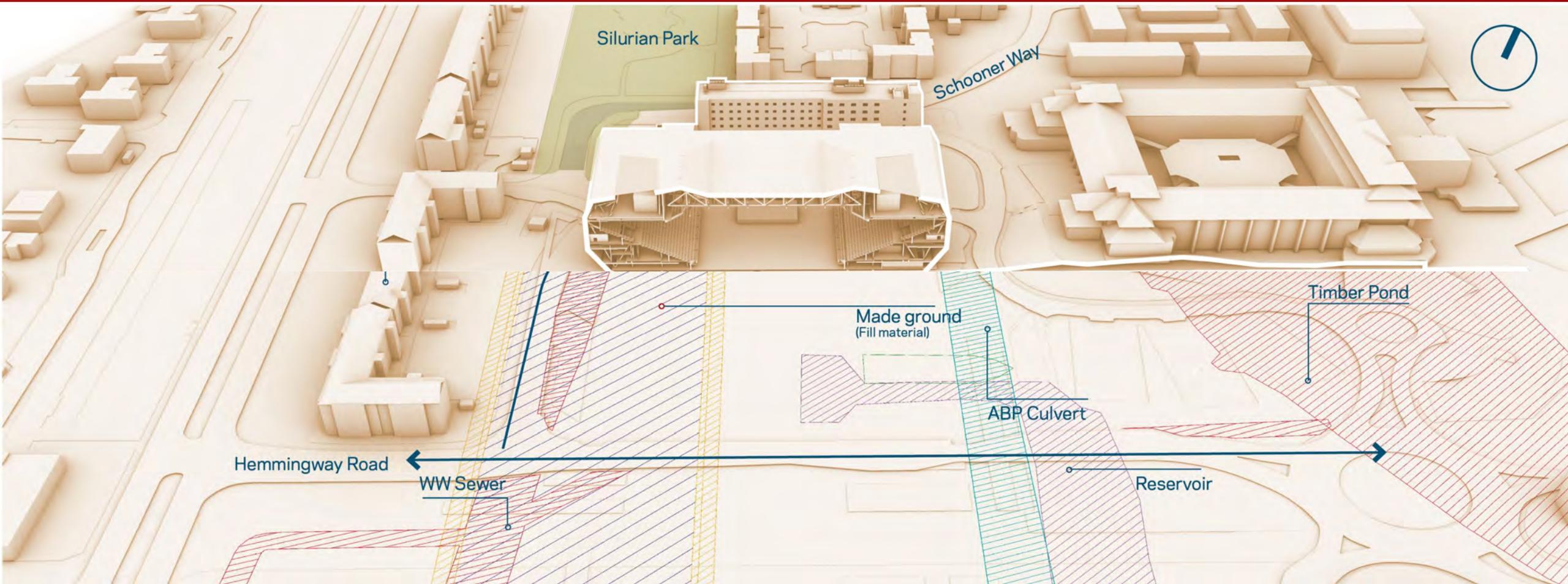
Site Constraints

Cyfngiadau Safle



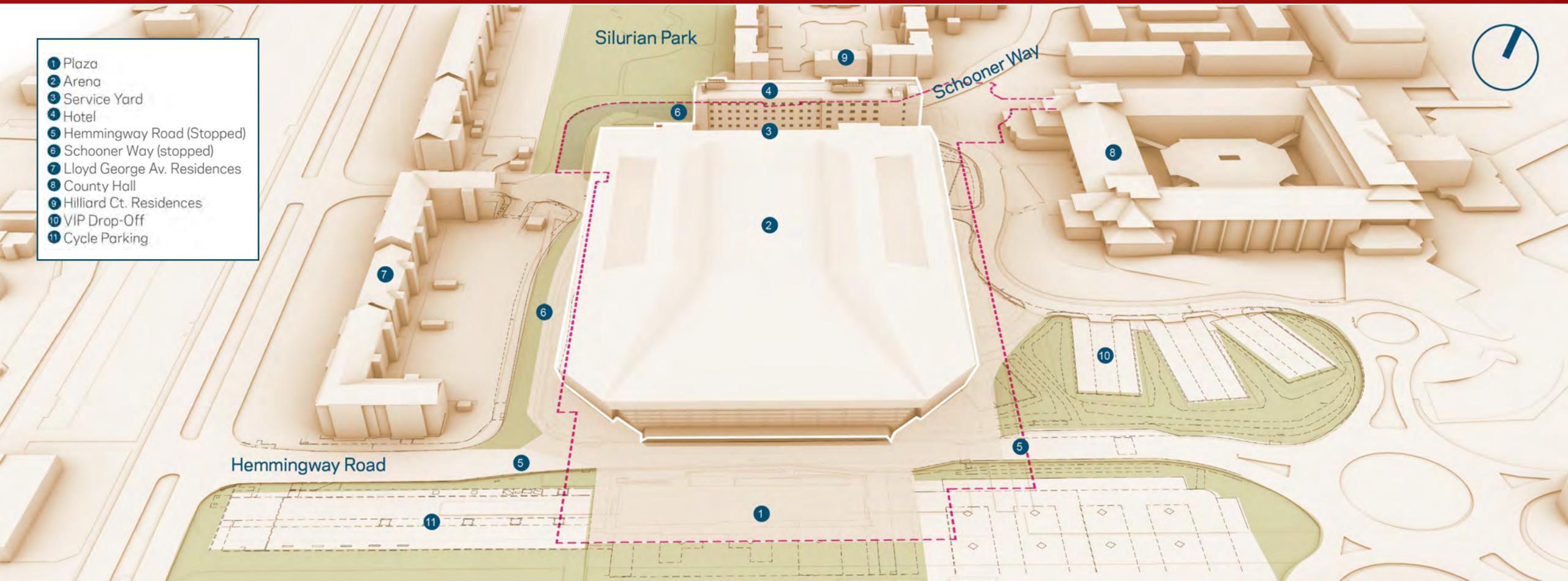
Section Stage 3

Adran Cyfnod 3



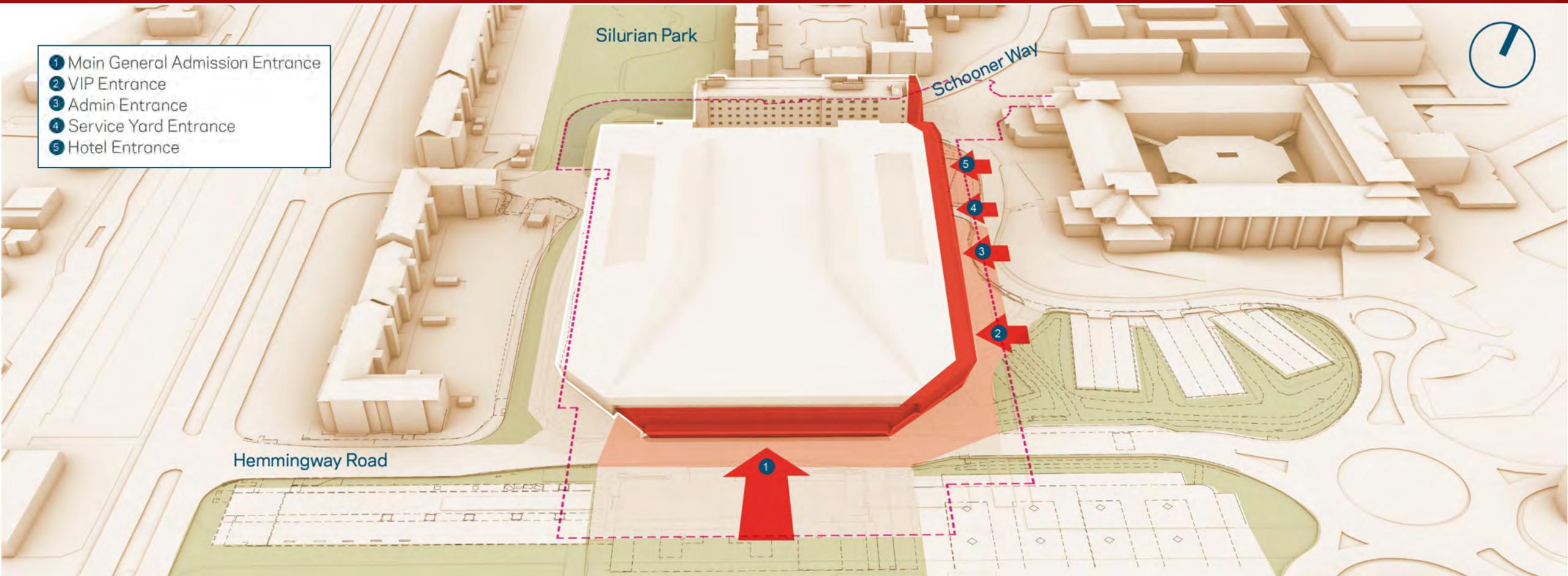
Stage 3 Overview

Trosolwg Cam 3



Entrances & Active Edges

Mynedfeydd ac Ymylon Gweithredol



Diverse programming

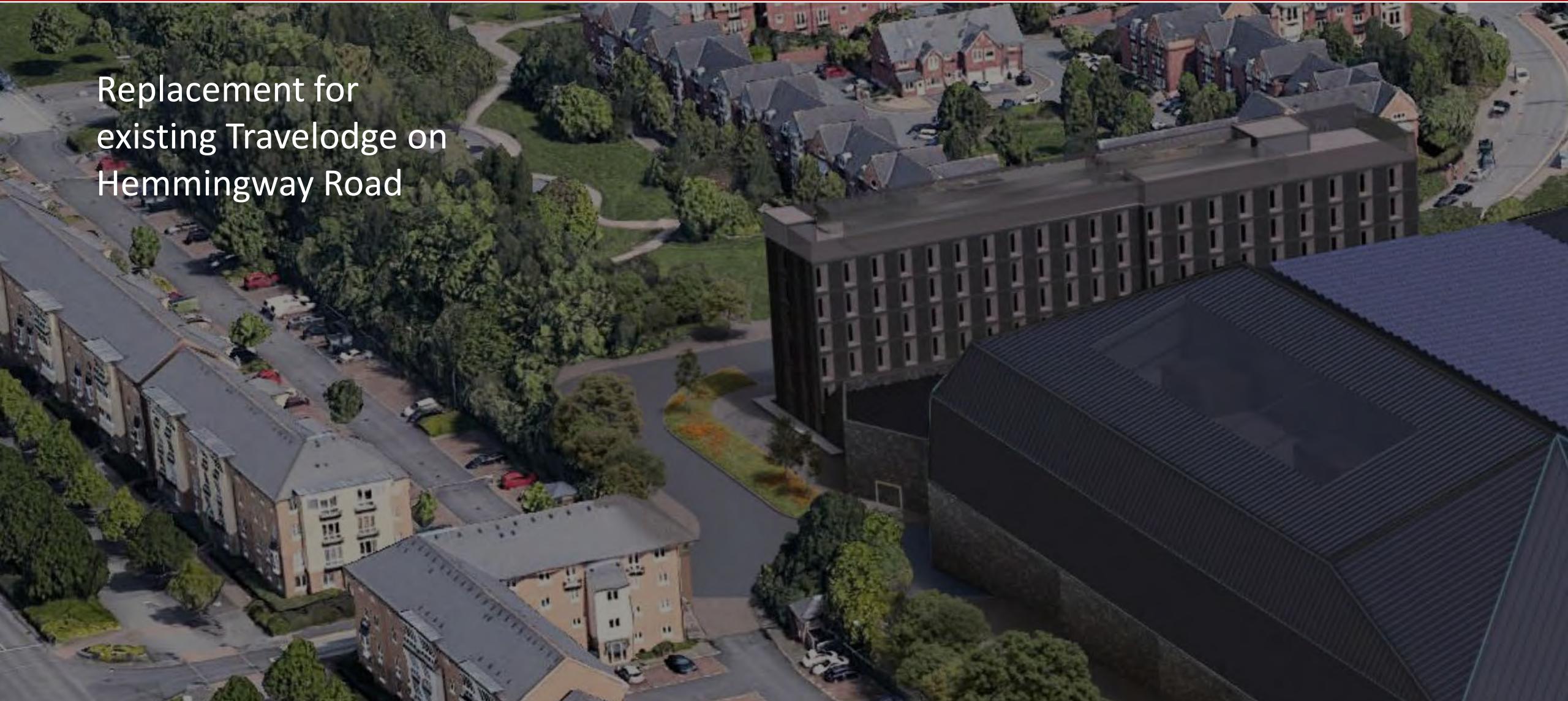
Rhaglennu amrywiol



Hotel

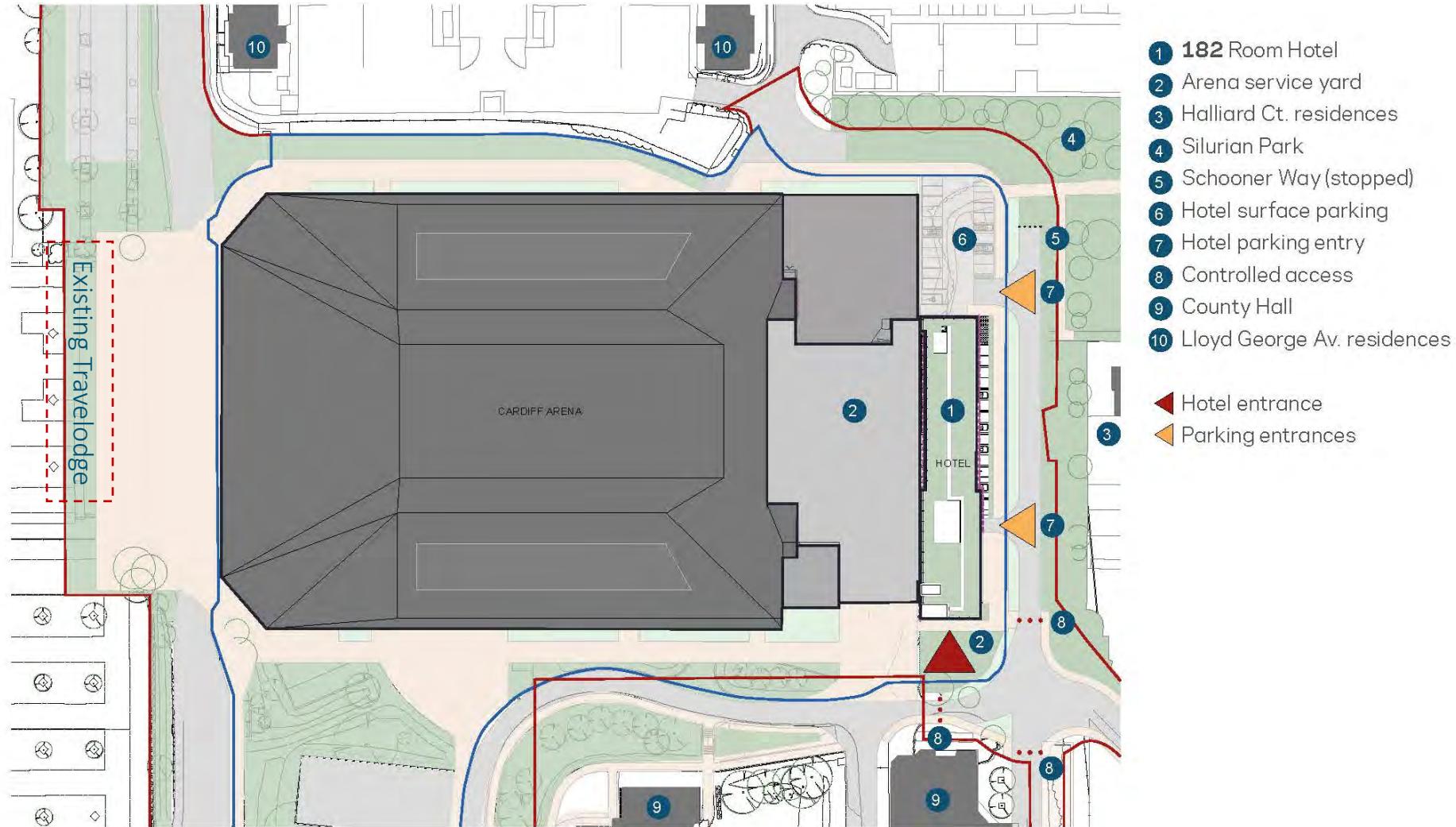
Gwesty

Replacement for
existing Travelodge on
Hemingway Road



Site context - Hotel

Cyd-destun y safle - Gwesty



Existing Travelodge

Travelodge presennol



Hotel context

Cyd-destun gwesty



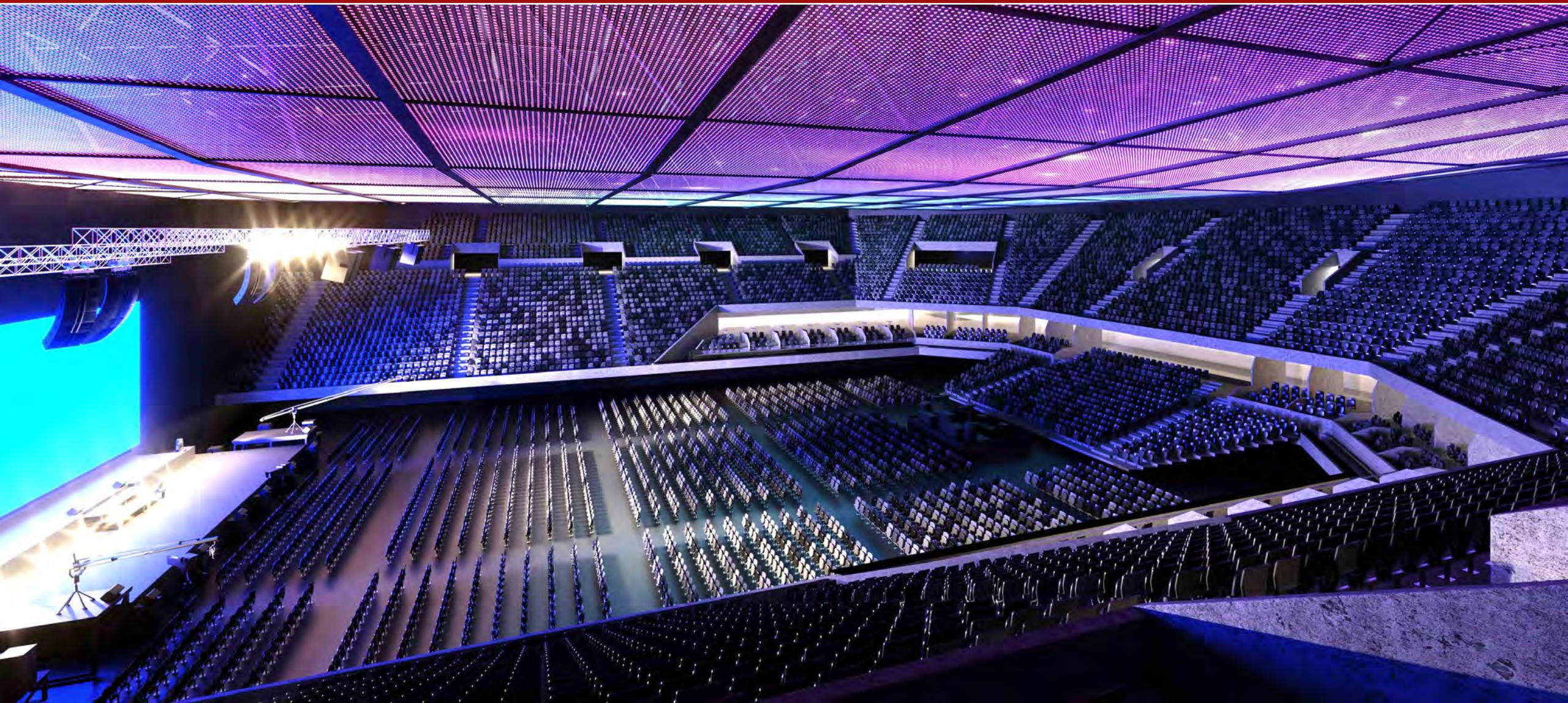
Hotel view

Golwg gwesty



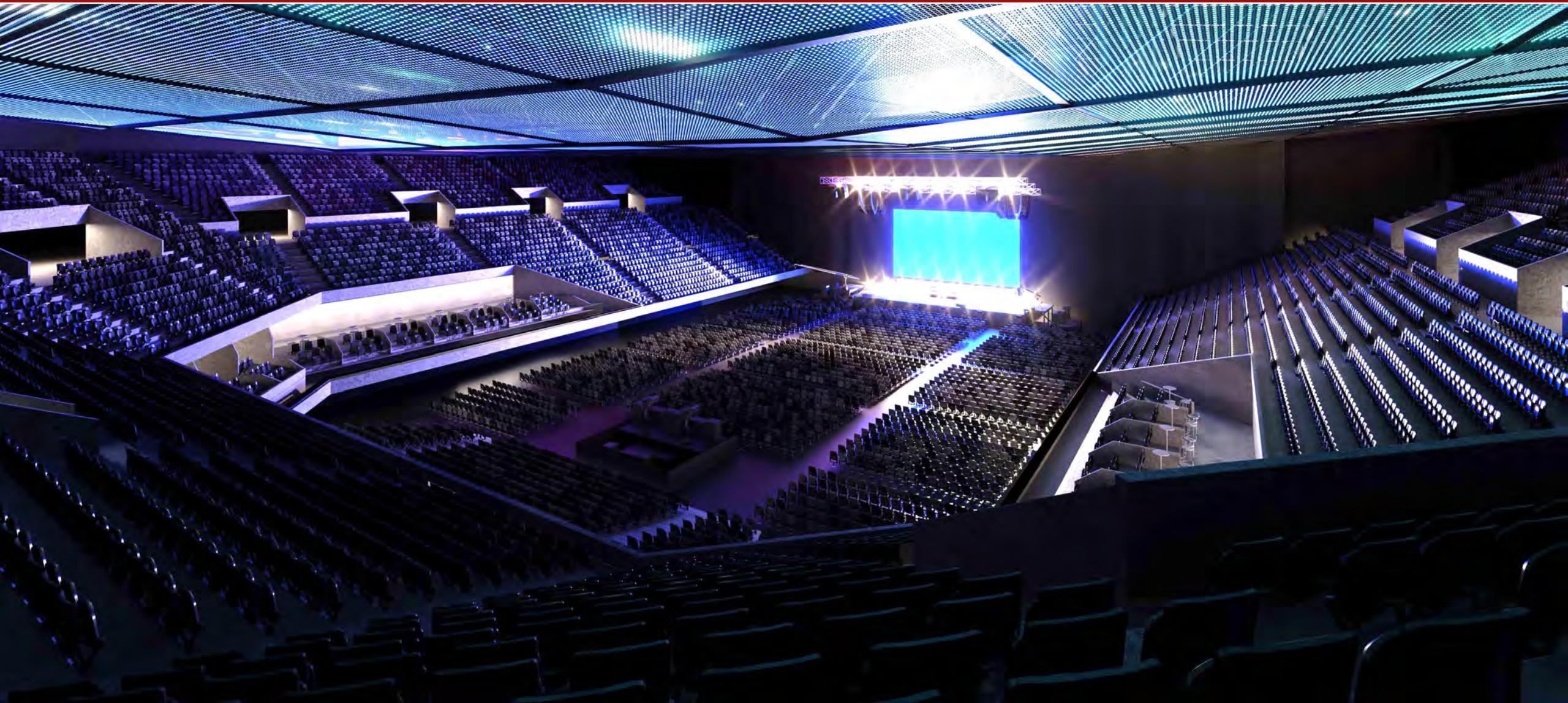
The Bowl

Y Bowlen



The Bowl

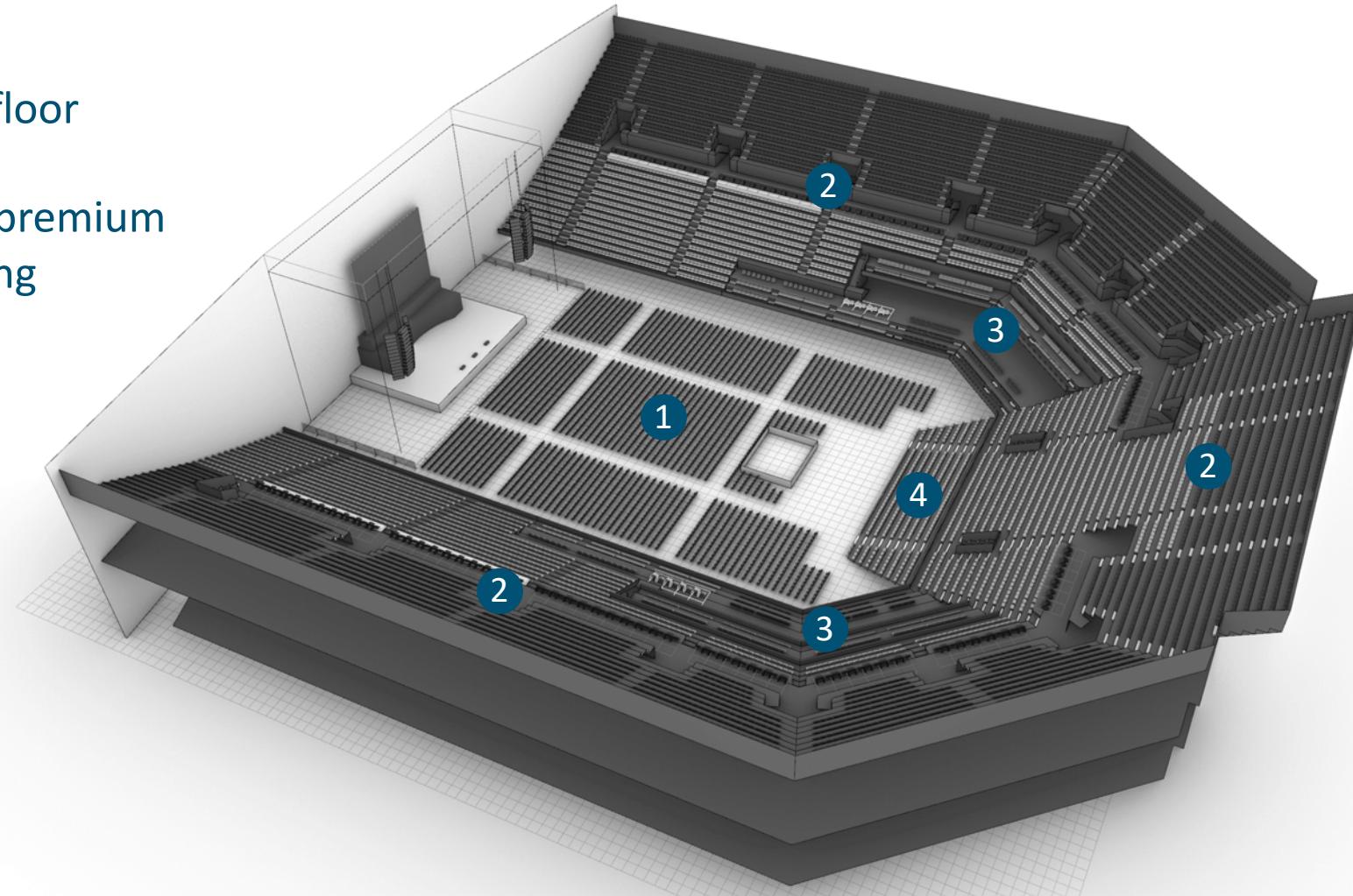
Y Bowlen



Bowl overview

Trosolwg bowlio

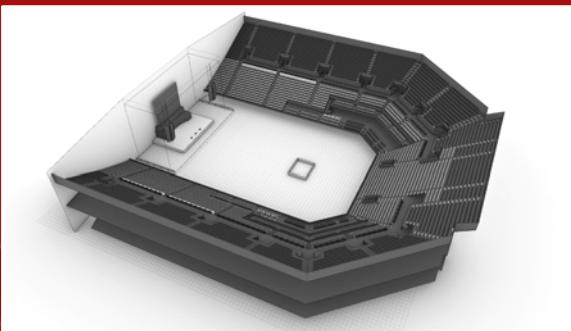
- 1 Large/Flexible event floor
- 2 Single-fixed tier
- 3 Low-level integrated premium
- 4 Focused retract seating



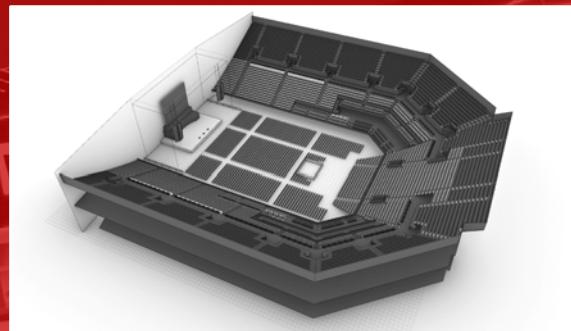
Bowl flexibility

Hyblygrwydd bowlio

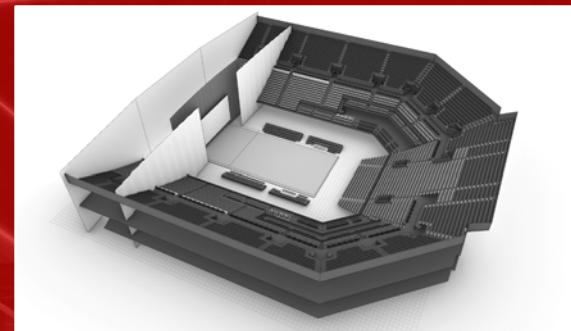
Standing shows



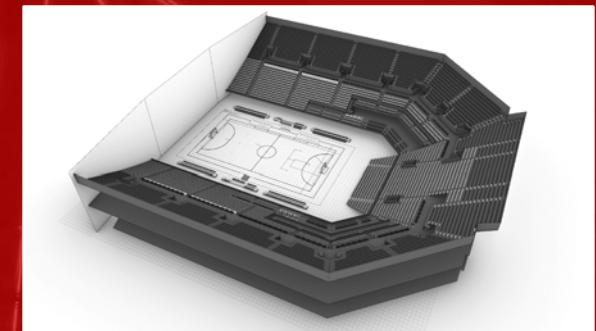
Seated shows



Family shows



Sports events



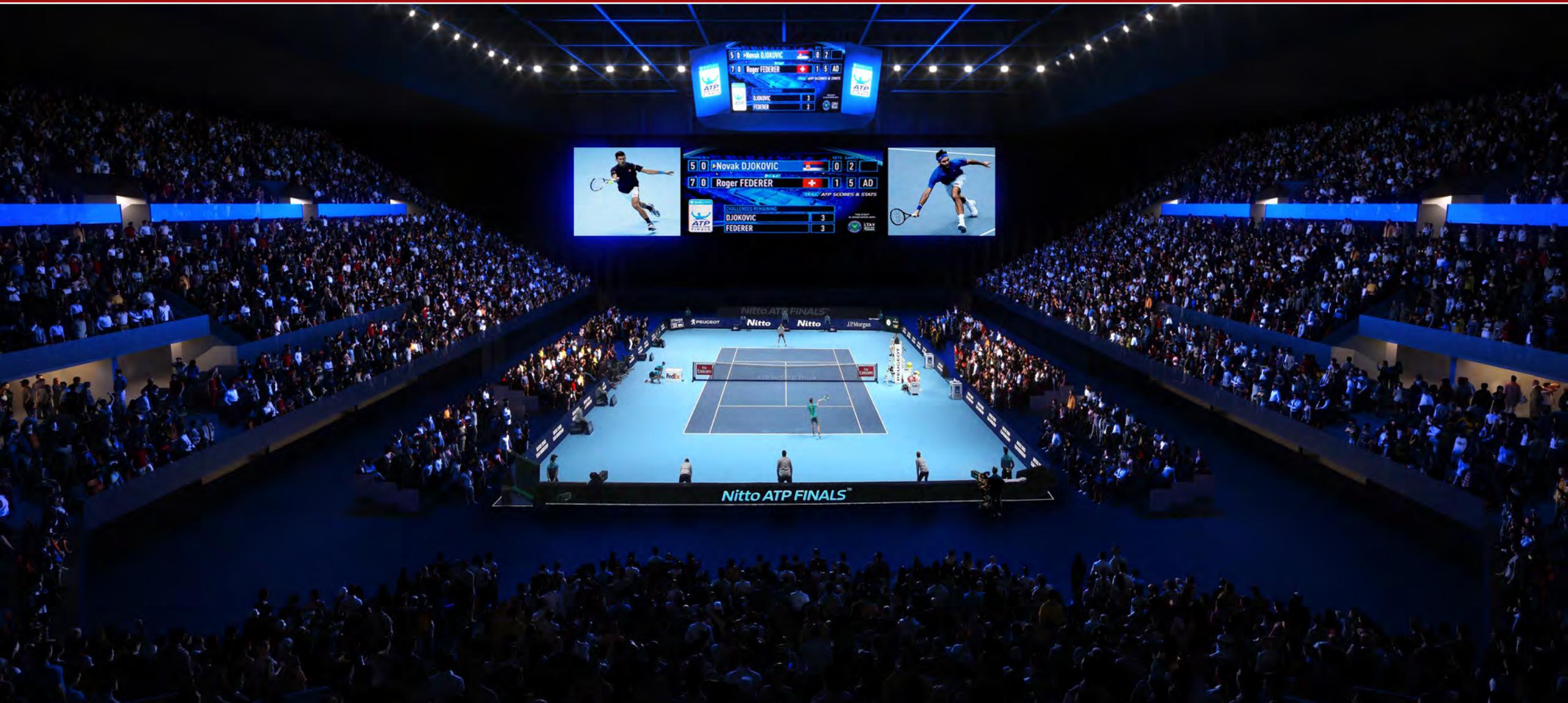
Bowl atmosphere -
standing

Awyrgylch bowllo -
sefyll



Bowl atmosphere -
sport

Awyrgylch bowlio -
chwaraeon



Uniquely Cardiff

Unigryw Caerdydd



A Good neighbour

Cymydog da



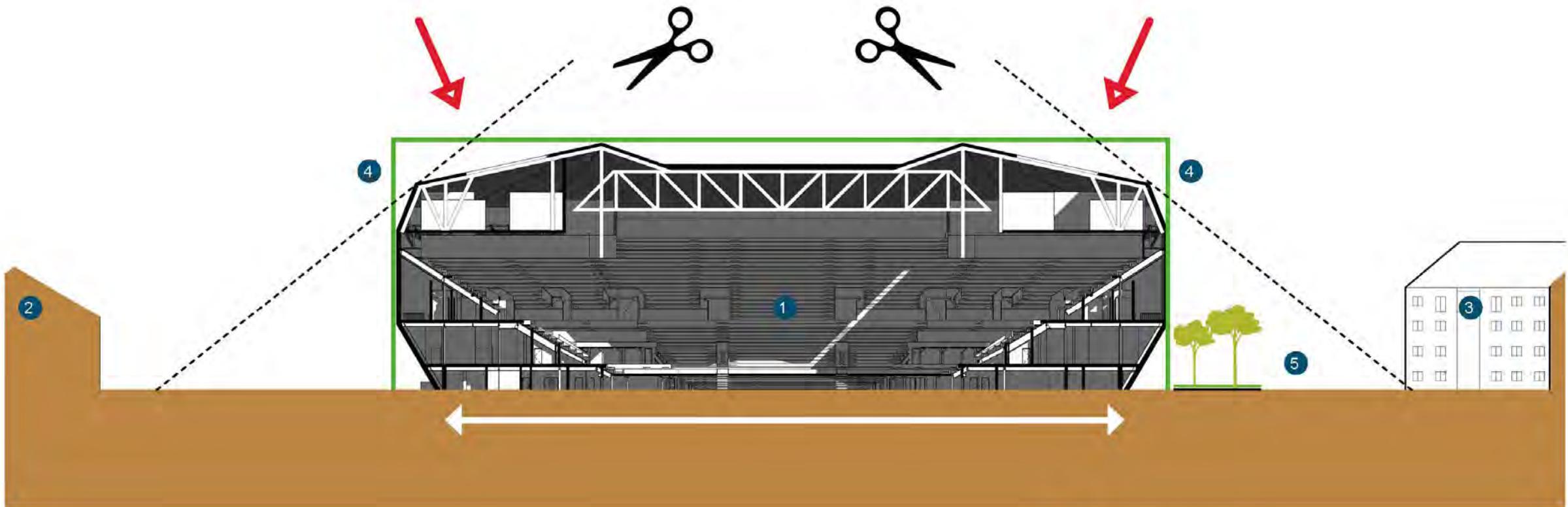
A Good neighbour

Cymydog da



Minimising the impact - form

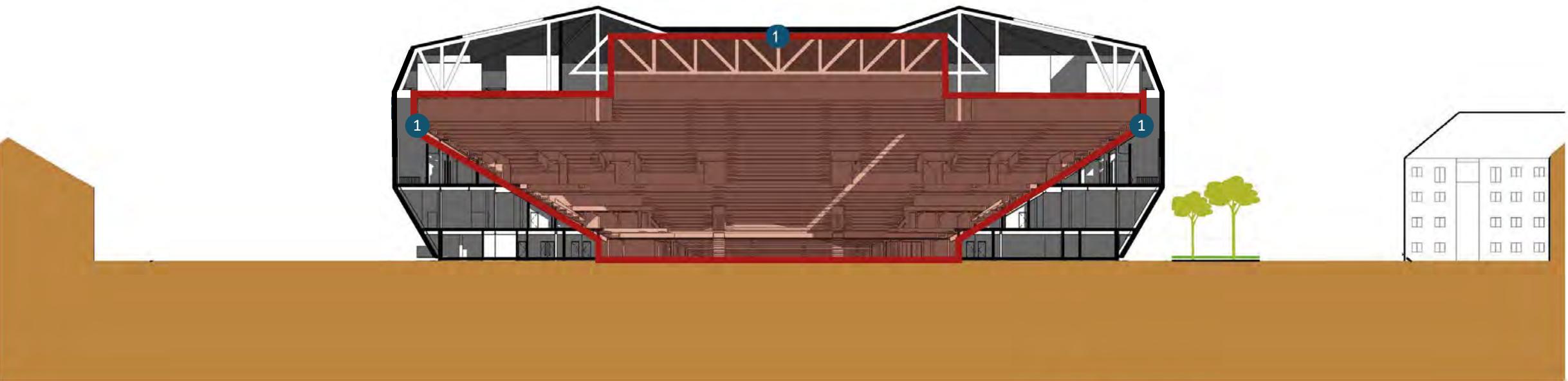
Lleihau'r effaith - ffurf



- ① Arena short section
- ② County Hall
- ③ Lloyd George Avenue residences
- ④ Reduced impact form
- ⑤ Greening of Shooner Way

Minimising the impact - acoustic

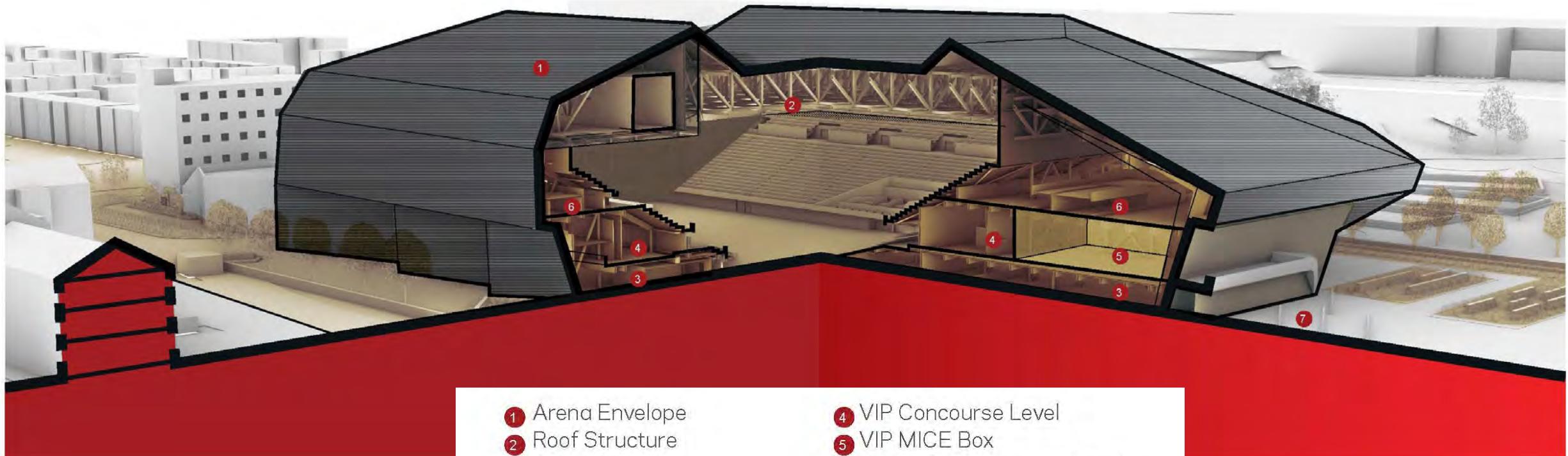
Lleihau'r effaith - acwstig



1 Acoustic line

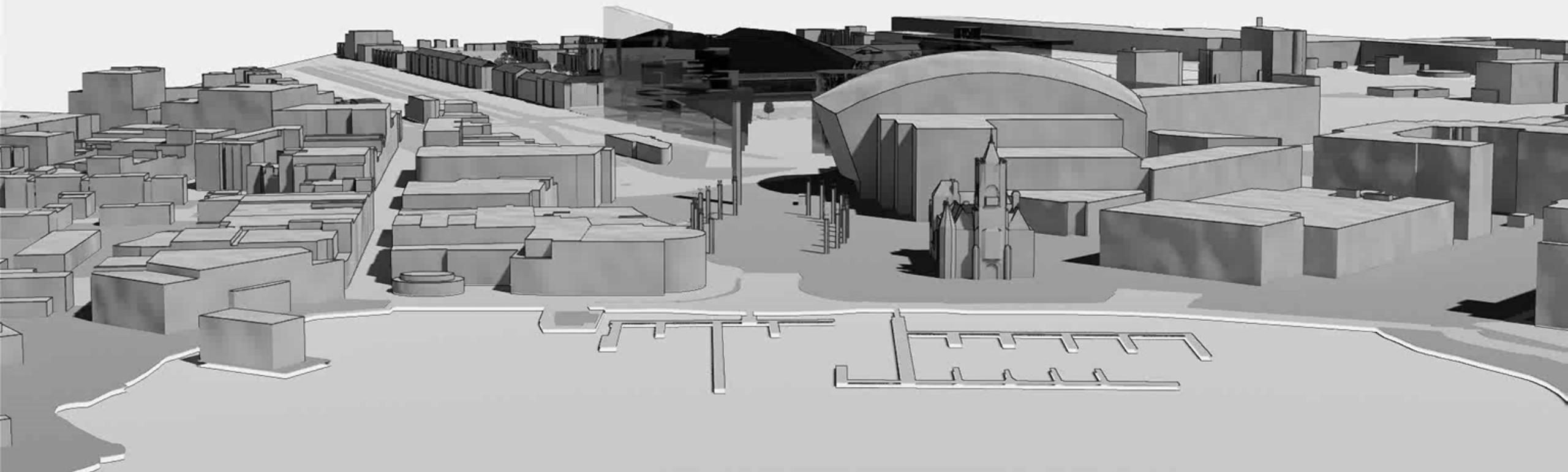
Form and Function

Lleihau'r effaith - acwstig



Connecting with the wider
masterplan

Cysylltu â'r uwchgynllun
ehangach



Sustainability – Breeam Excellent

Cynaliadwyedd – Breeam Ardderchog



NET ZERO OPERATIONAL ENERGY OUTCOMES

- LED lights
- PV arrays
- Heat pumps



NET ZERO EMBODIED CARBON OUTCOMES



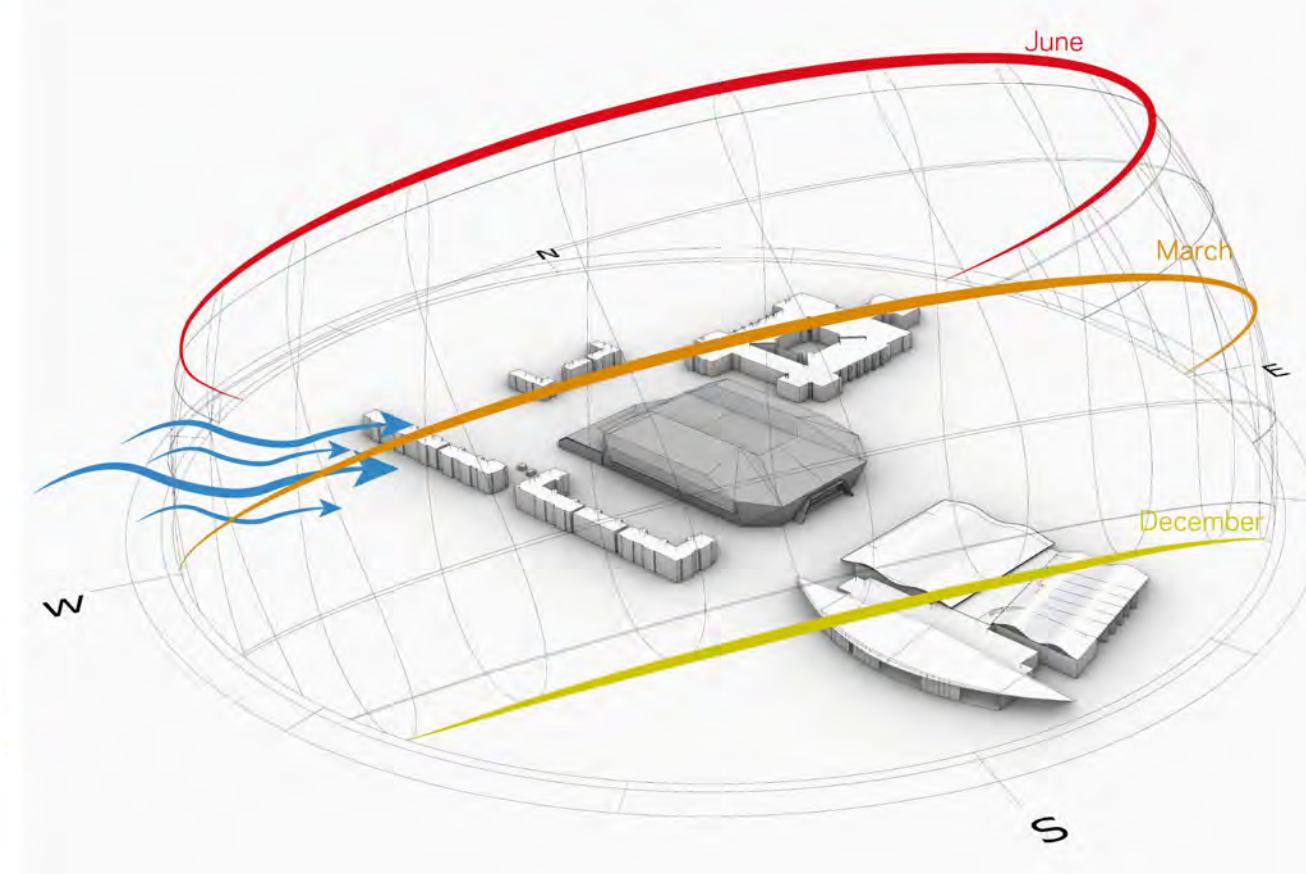
WATER CYCLE OUTCOMES

- Water use efficiency



SUSTAINABLE CONNECTIVITY AND TRANSPORT OUTCOMES

- Public transport routes
- Walking and cycle routes



LAND USE AND BIODIVERSITY OUTCOMES

- Public transport routes
- Walking and cycle routes



GOOD HEALTH AND WELLBEING OUTCOMES

- Outdoor spaces
- Good air quality
- Natural daylight



COMMUNITIES AND SOCIAL VALUE

- Places for Social Interaction
- High quality pedestrian public realm
- Secure places with overlooking views



SUSTAINABLE LIFE CYCLE COST

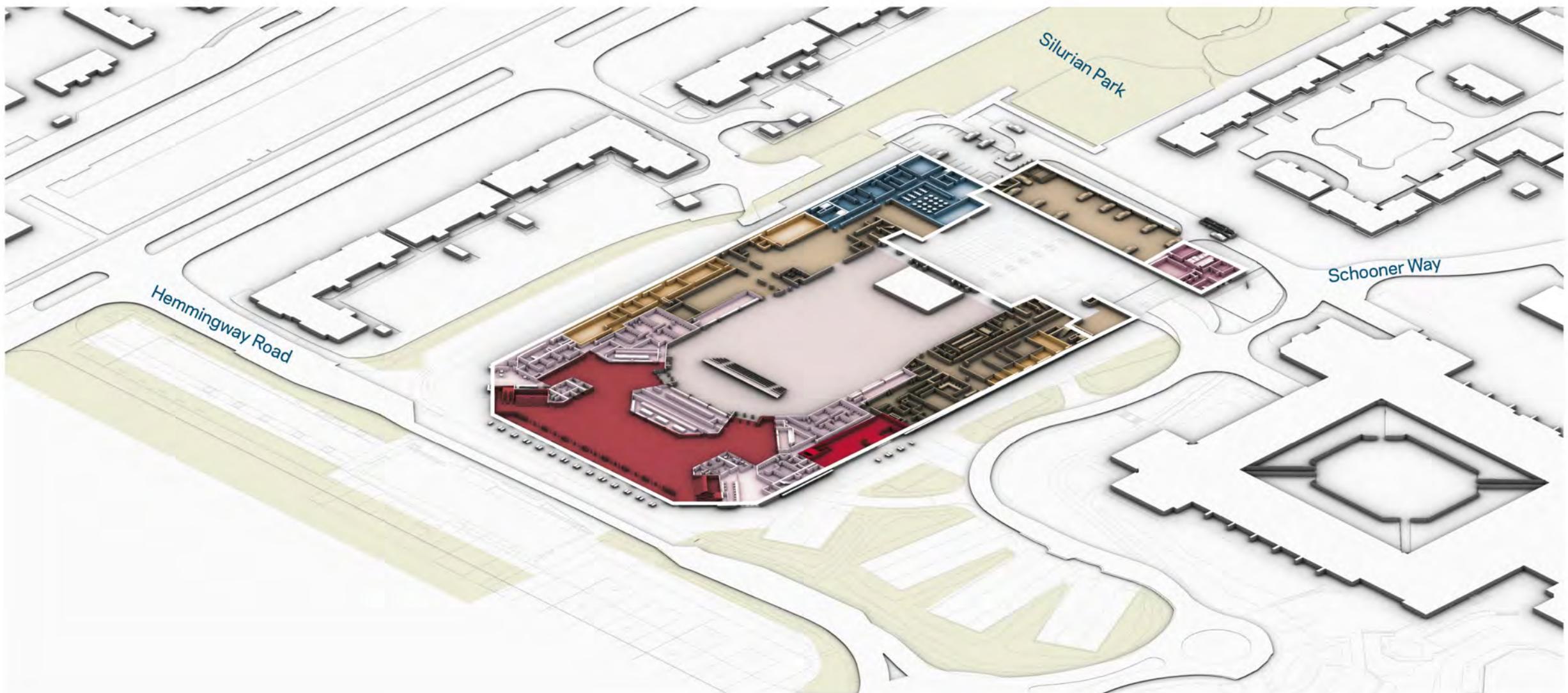
Evening plaza view

Golwg plaza gyda'r nos



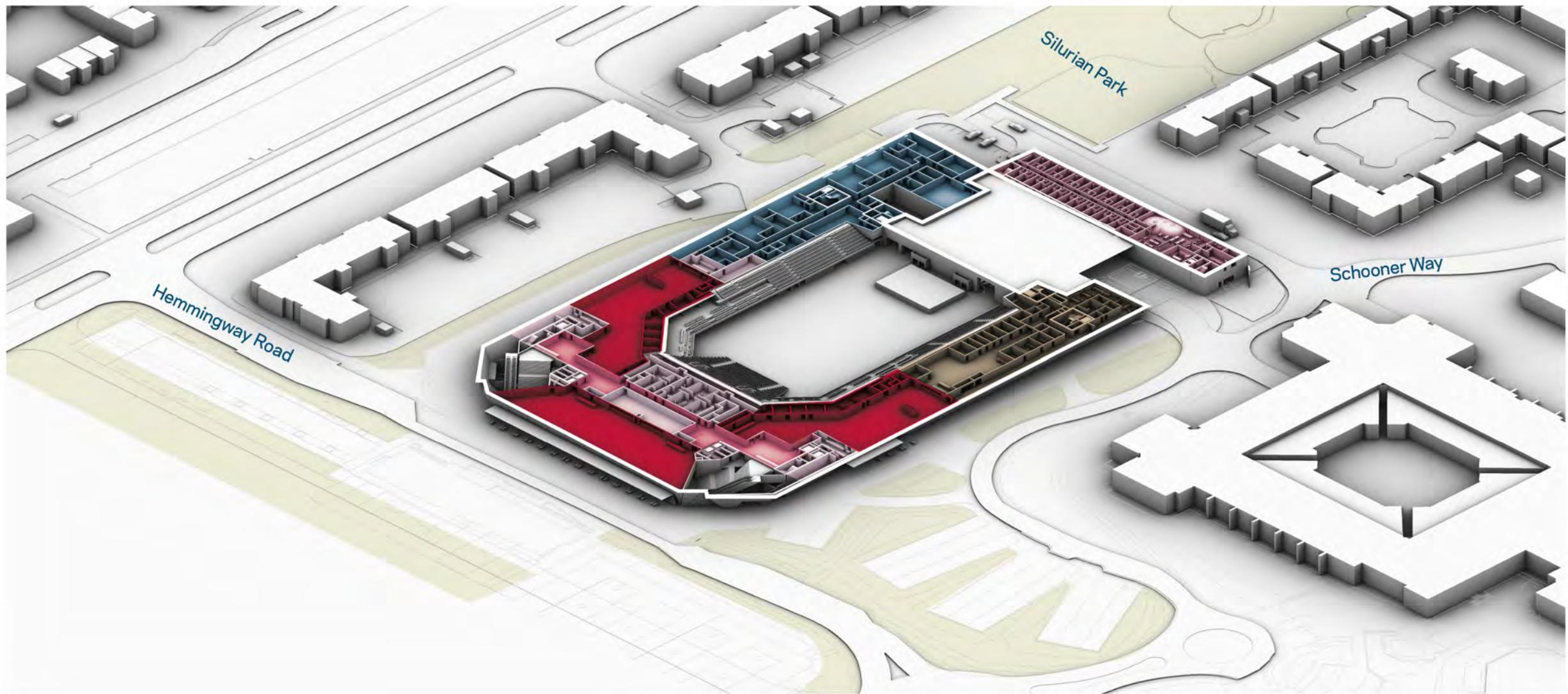
Level 0 – Entry/Event Floor

Lefel 0 – Llawr
Mynediad/Digwyddiad

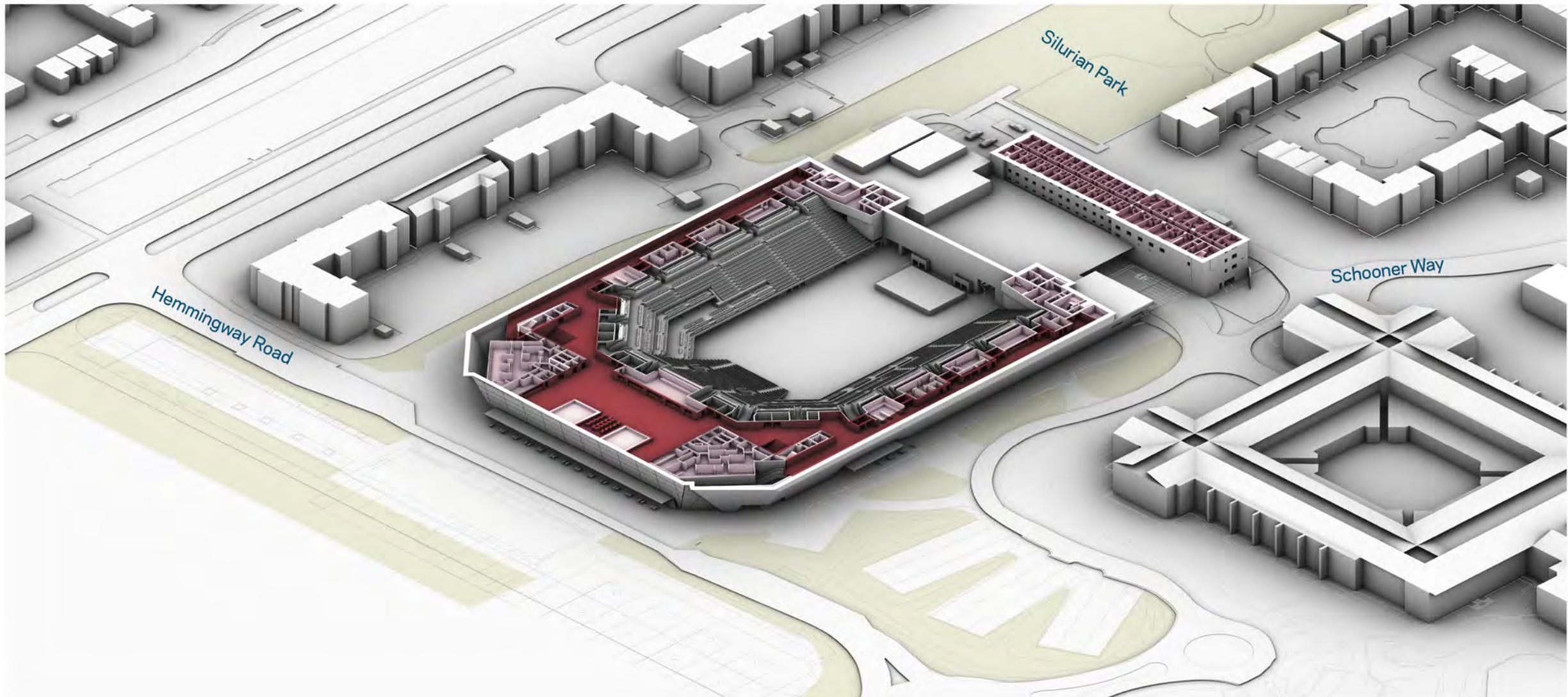


Level 1 – Premium

Lefel 1 – Premiwm

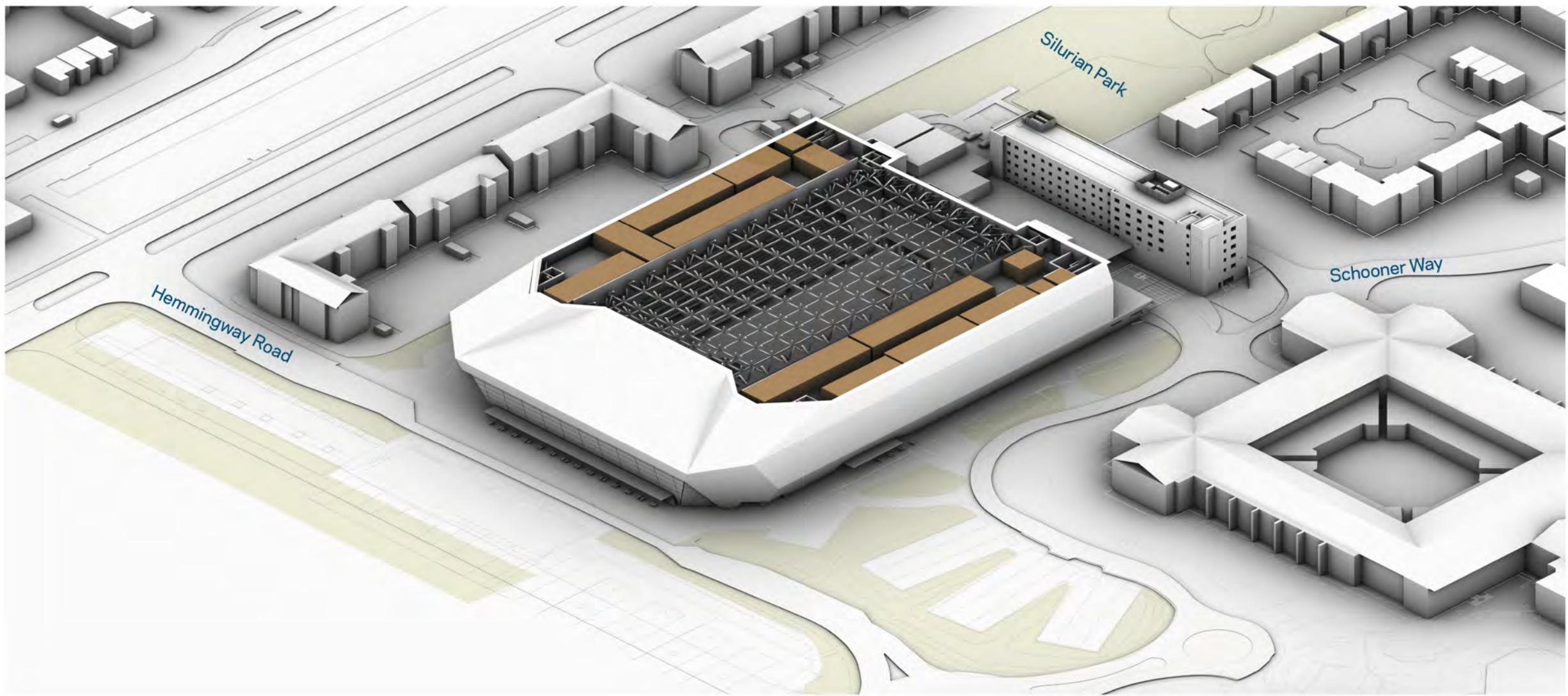


Level 2 – Main Concourse Lefel 2 – Prif Gonsynn



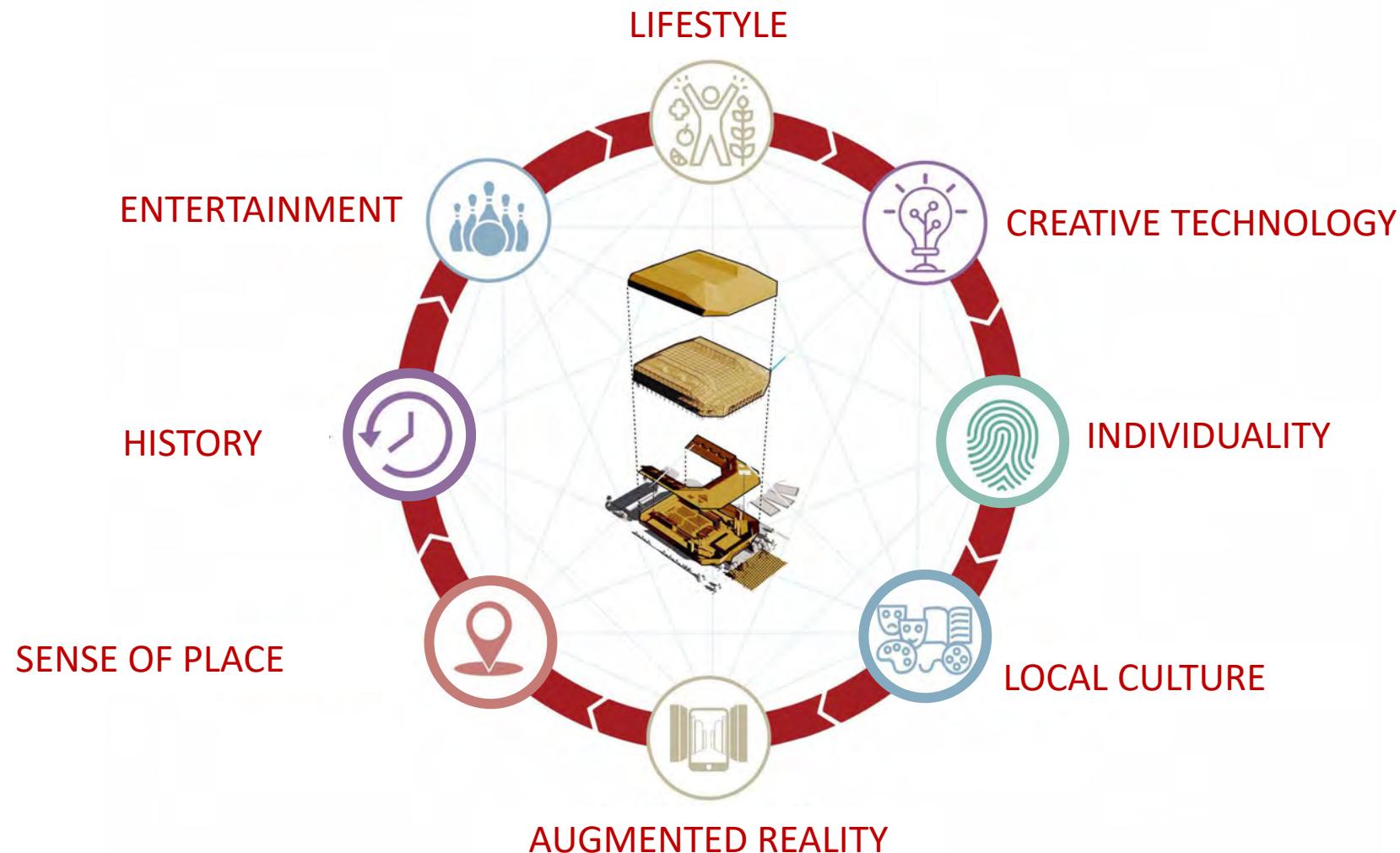
Level 4 – MEP Deck

Lefel 4 – Dec ASE



Unique to Cardiff

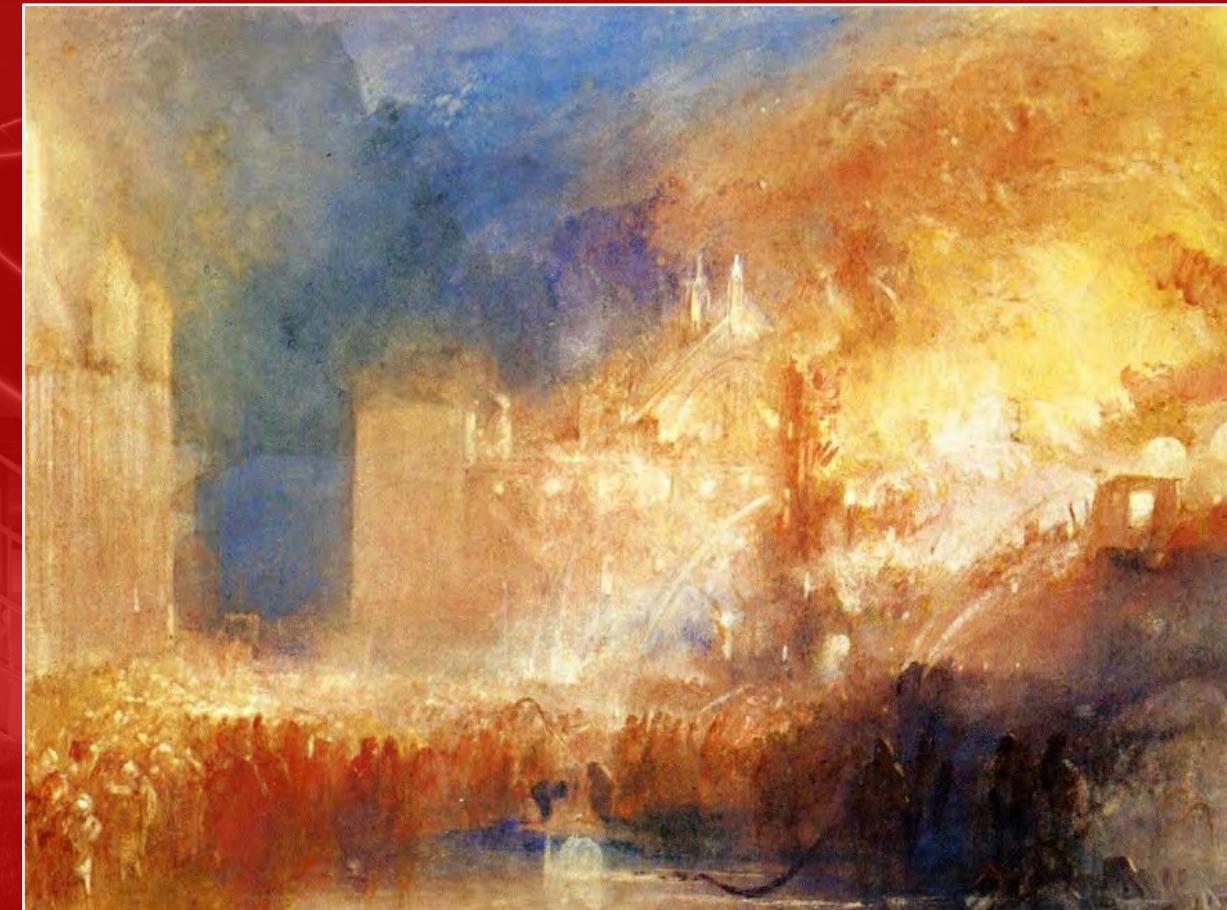
Unigryw i Gaerdydd



Historic Dockland

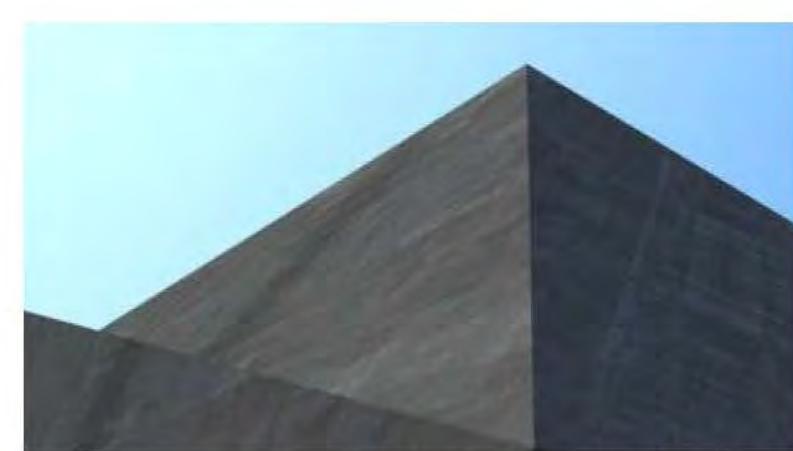


Arena and Hotel



Look and Feel

Edrych a Theimlo



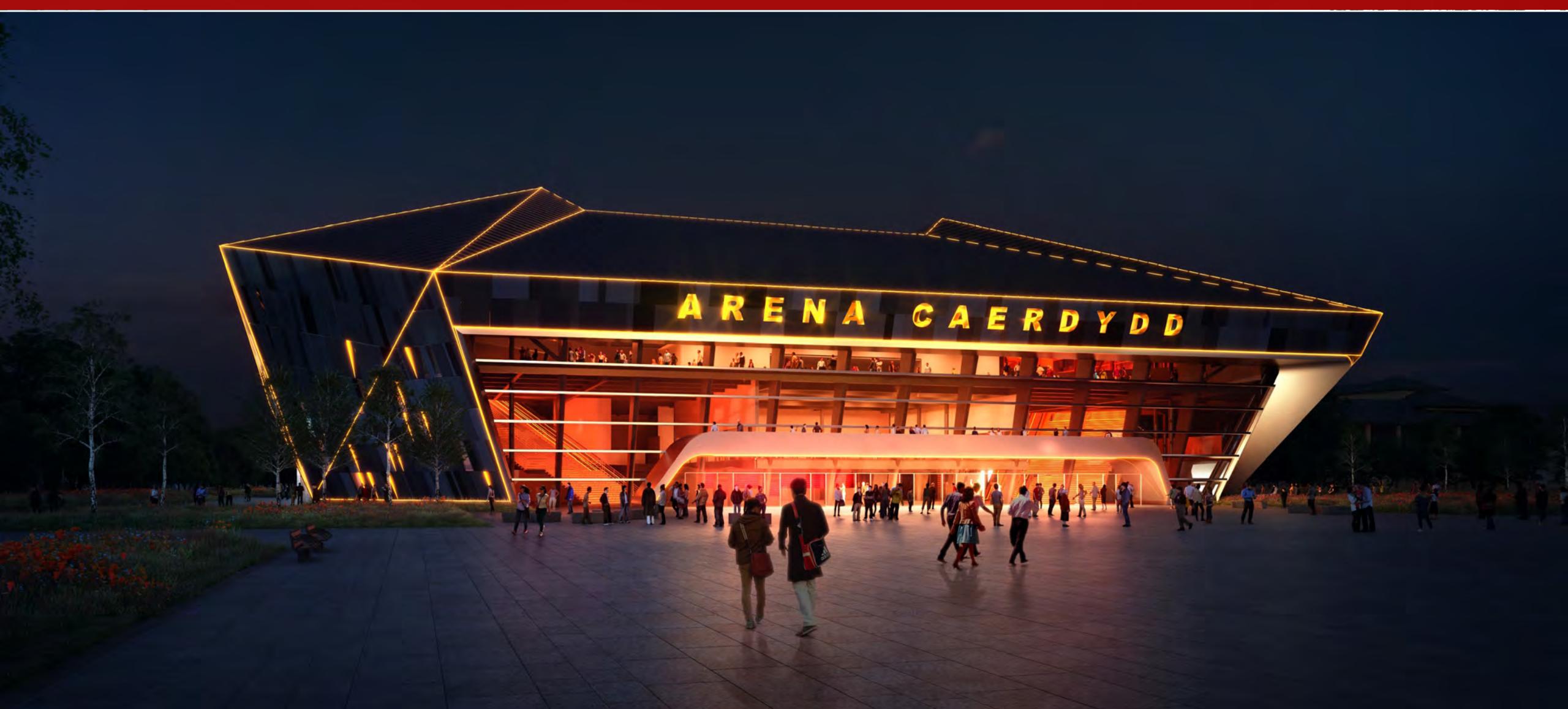
Daytime Plaza View

Gweld Plaza yn ystod y dydd



Evening Plaza View

Gweld Plaza Gyda'r Nos



Arrival View

Golwg Cyrraedd



Thank You

Diolch

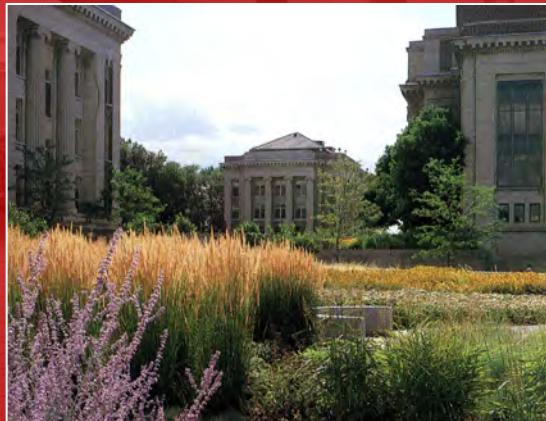


Cardiff Arena Landscape Design

- Spaces around the Arena building are the first part of the wider Atlantic Wharf masterplan
- Key features of the Arena landscape
 - Space for safe and enjoyable gathering of people in large numbers
 - Large plaza and large trees planting appropriate to the scale of the Arena
 - Responding to constraints & opportunities

Dylunio Tirwedd o Arena Caerdydd

- Mannau o amgylch adeilad Arena yw rhan gyntaf uwchgynllun ehangach Glanfa'r Iwerydd
- Nodweddion allweddol tirwedd yr Arena
 - Lle i gasglu pobl yn ddiogel ac yn bleserus mewn niferoedd mawr
 - Plannu plaza mawr a choed mawr sy'n briodol i raddfa'r Arena
 - Ymateb i gyfyngiadau a chyfleoedd



Cardiff Arena Landscape Design

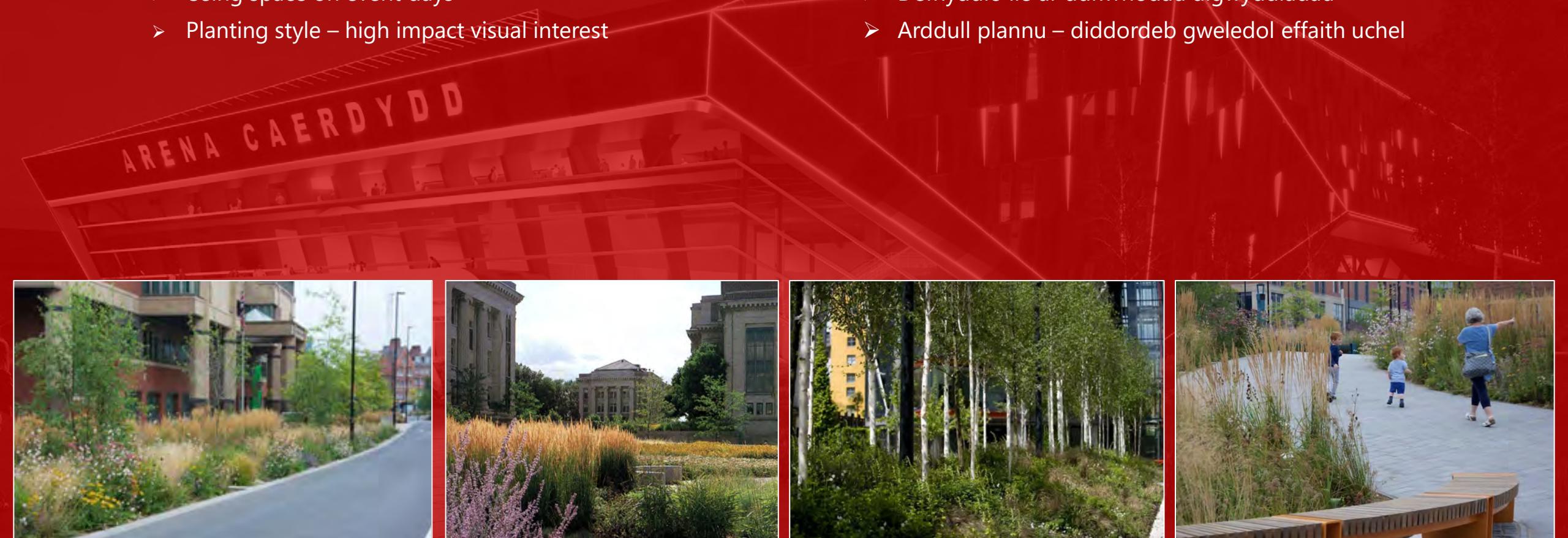
- Key features of the Arena landscape

- Rain gardens - part of sustainable water management system
- Buffer planting to increase green infrastructure
- Using space on event days
- Planting style – high impact visual interest

Dylunio Tirwedd o Arena Caerdydd

- Nodweddion allweddol tirwedd yr Arena

- Gerddi glaw - rhan o system rheoli dŵr gynaliadwy
- Clustogi plannu i gynyddu seilwaith gwyrdd
- Defnyddio lle ar ddiwrnodau digwyddiadau
- Arddull plannu – diddordeb gweledol effaith uchel



Constraints

- Below ground services (west)
- Dock Feeder 'canal' (east)
- Maintenance access to building (regular and infrequent)
- Need to manage flows of people

Cyfyngiadau

- Gwasanaethau o dan y ddaear (gorllewin)
- 'Camlas' fwydo'r Doc (dwyrain)
- Mynediad cynnal a chadw i'r adeilad (rheolaidd ac anaml)
- Angen rheoli llif symudiadau pobl



Opportunities

- Sustainable water management
- Biodiverse planting
- Creating a positive experience
- Be a good neighbour

Cyfleoedd

- Rheoli dŵr yn gynaliadwy
- Plannu bioamrywiol
- Creu profiad cadarnhaol
- Byddwch yn gymydog da.



Ein gweledigaeth ar gyfer Dinas Carbon Niwtral erbyn 2030

Our vision for a Carbon Neutral City by 2030

Raingardens

- Extensive use around building
- Slows down runoff
- Attractive appearance
- Used extensively on west and east of building

Garddiau glaw

- Defnydd helaeth o amgylch yr adeilad
- Arafu dŵr ffo
- Ymddangosiad deniadol
- Fe'i defnyddir yn helaeth ar orllewin a dwyrain yr adeilad

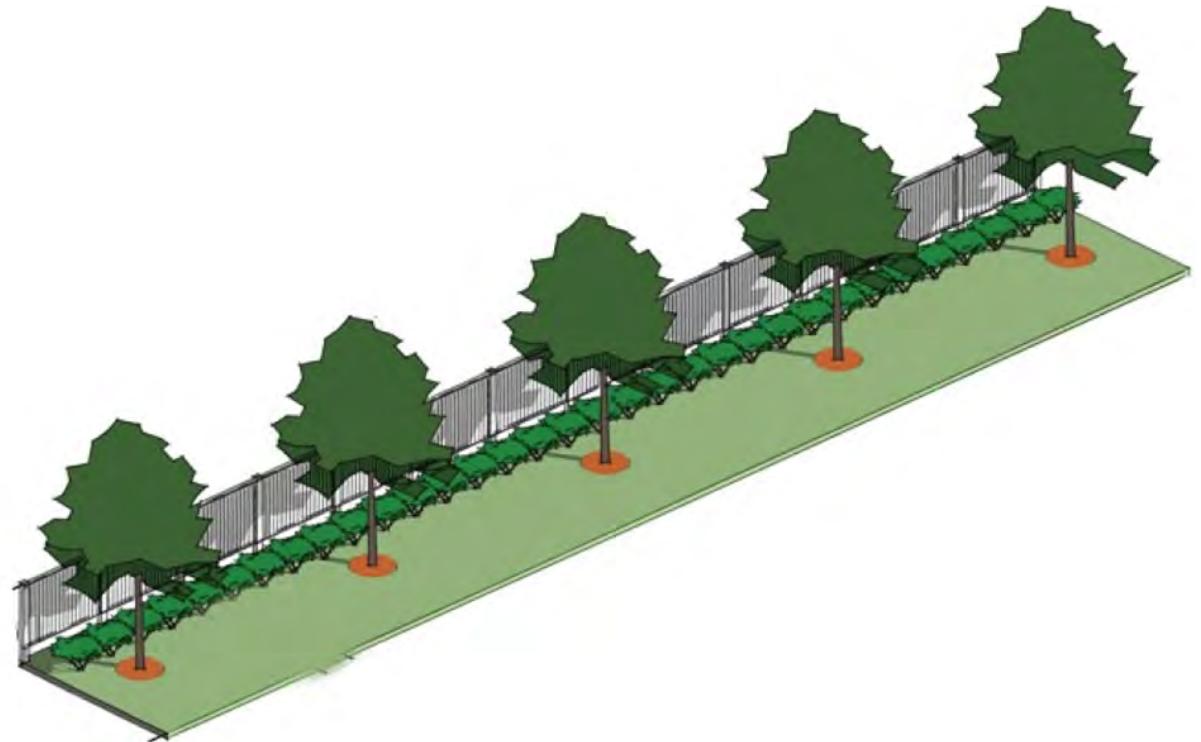


Buffer planting

- Visual buffer between homes and building
- Security feature
- Moved building to make these larger

Plannu Clustogaidd

- Clustog gweledol rhwng cartrefi a'r adeilad
- Nodwedd ddiogelwch
- Symud yr adeilad i wneud y rhain yn fwy



Buffer planting

- Visual buffer between homes and building
- Security feature
- Moved building to make these larger



Plannu Clustogaidd

- Clustog gweledol rhwng cartrefi a'r adeilad
- Nodwedd ddiogelwch
- Symud yr adeilad i wneud y rhain yn fwy



Use of space on event days

- Pedestrians from Lloyd George Avenue and along East of building
- Large space to manage short peak volumes of people
- A plaza that can be used for other things on non-event days
- Integrated sustainable drainage and planting
- Part of the wider 'Atlantic Square'

Defnyddio o ofod ar ddiwrnodau digwyddiadau

- Cerddwyr o Rodfa Lloyd George ac ar hyd dwyrain yr adeilad
- Lle mawr i reoli niferoedd brig o bobl am gyfnodau byr
- Plaza y gellir ei ddefnyddio ar gyfer pethau eraill ar ddiwrnodau nad ydynt yn ddiwrnod digwyddiad
- Draenio a phlannu cynaliadwy integredig
- Rhan o'r 'Sgwâr yr Iwerydd' ehangach

Planting style

- Large trees, wherever possible
- Varied planting
- Secure
- Multifunctional: drainage, attractive, biodiverse

Arddull plannu

- Coed mawr, lle bynnag y bo modd
- Plannu amrywiol
- Diogel
- Amlswyddogaethol: draenio, deniadol, bioamrywiol



Transport

We will be using Welsh Government and Cardiff Council's adopted policy guidance to inform the transport solutions :

1. We will continue to make best use of existing transport infrastructure by maintaining and managing it well.
2. We will also adapt it to a changing climate and upgrade it to support modal shift.
3. Where we need new infrastructure, we will use the Sustainable Transport Hierarchy.

Trafnidiaeth

Byddwn yn defnyddio canllawiau polisi mabwysiedig Llywodraeth Cymru a Chyngor Caerdydd i lywio'r datrysiau trafnidiaeth:

1. Byddwn yn parhau i wneud y defnydd gorau o'r seilwaith trafnidiaeth presennol trwy ei gynnal a'i reoli'n dda.
2. Byddwn hefyd yn ei addasu i hinsawdd newidiol ac yn ei uwchraddio i gefnogi newid moddol.
3. Lle mae angen seilwaith newydd arnom, byddwn yn defnyddio'r Hierarchaeth Drafnidiaeth Gynaliadwy

Cardiff's Transport White Paper:
Transport Vision to 2030

Changing how
we move around
a growing city



This document is available in Welsh /
Mae'r ddogfen hon ar gael yn Gymraeg



Walking and Cycling



Public Transport



Ultra-Low
Emissions Vehicles

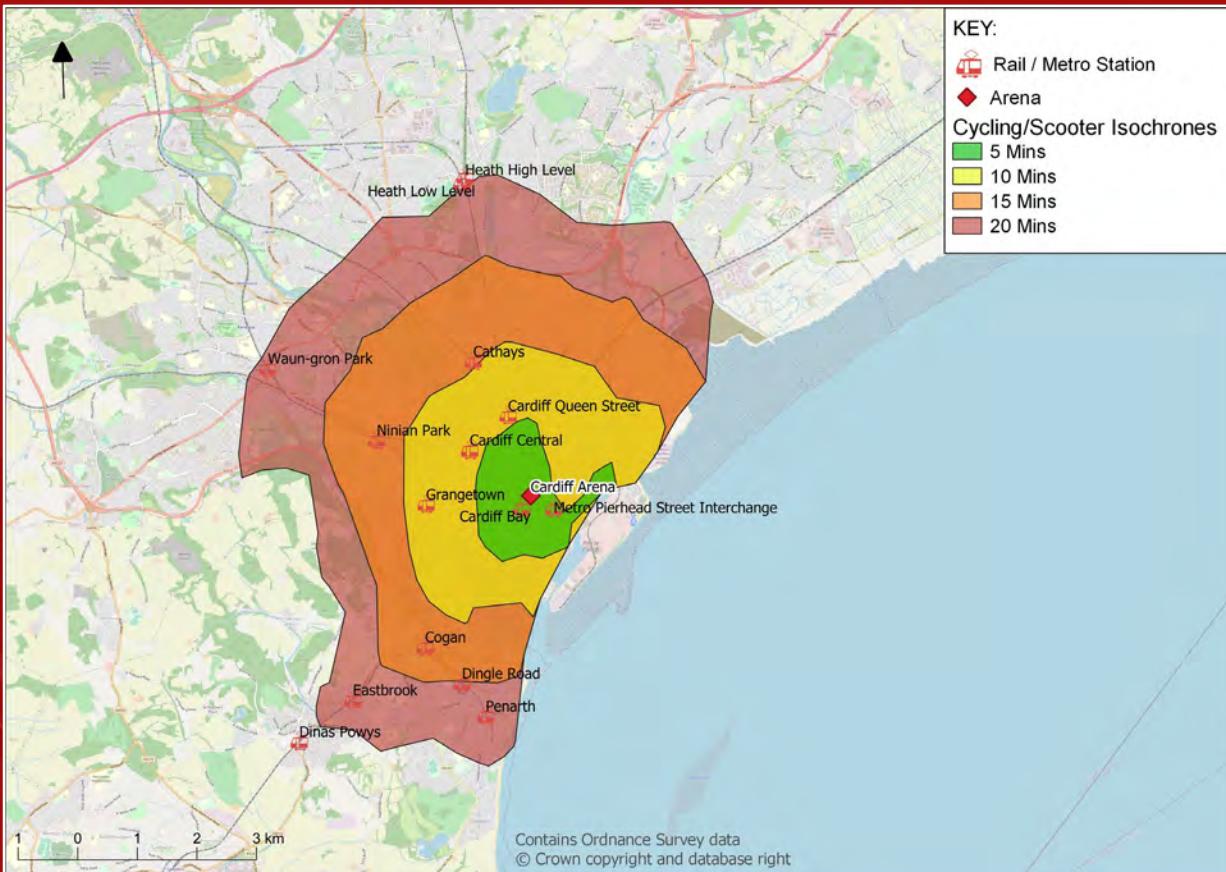


Other Private
Motor Vehicles



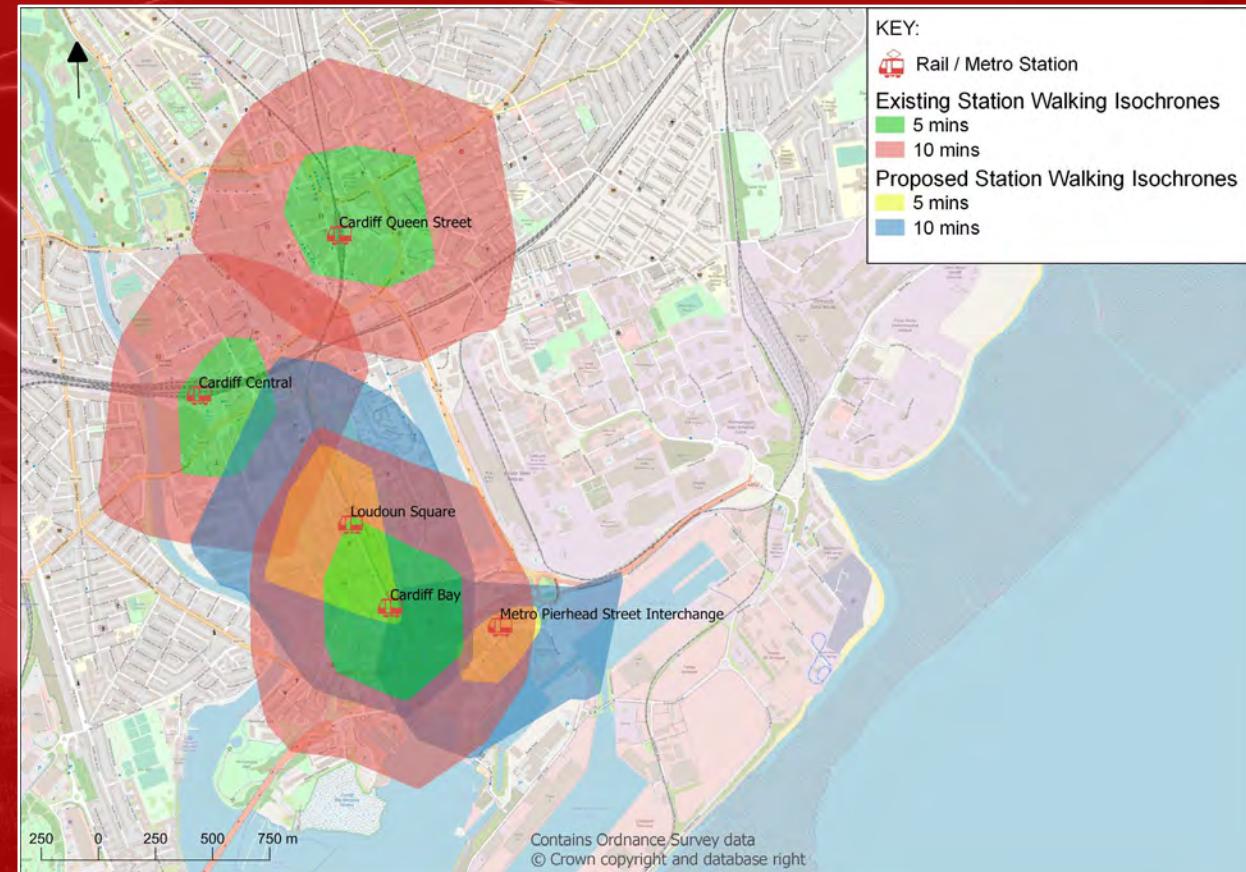
Current levels of Accessibility

Identifying accessibility of key destinations
for active modes and public transport



Lefelau hygyrchedd presennol

Nodi hygyrchedd cyrchfannau allweddol ar gyfer
moddau actif a thrafnidiaeth gyhoeddus



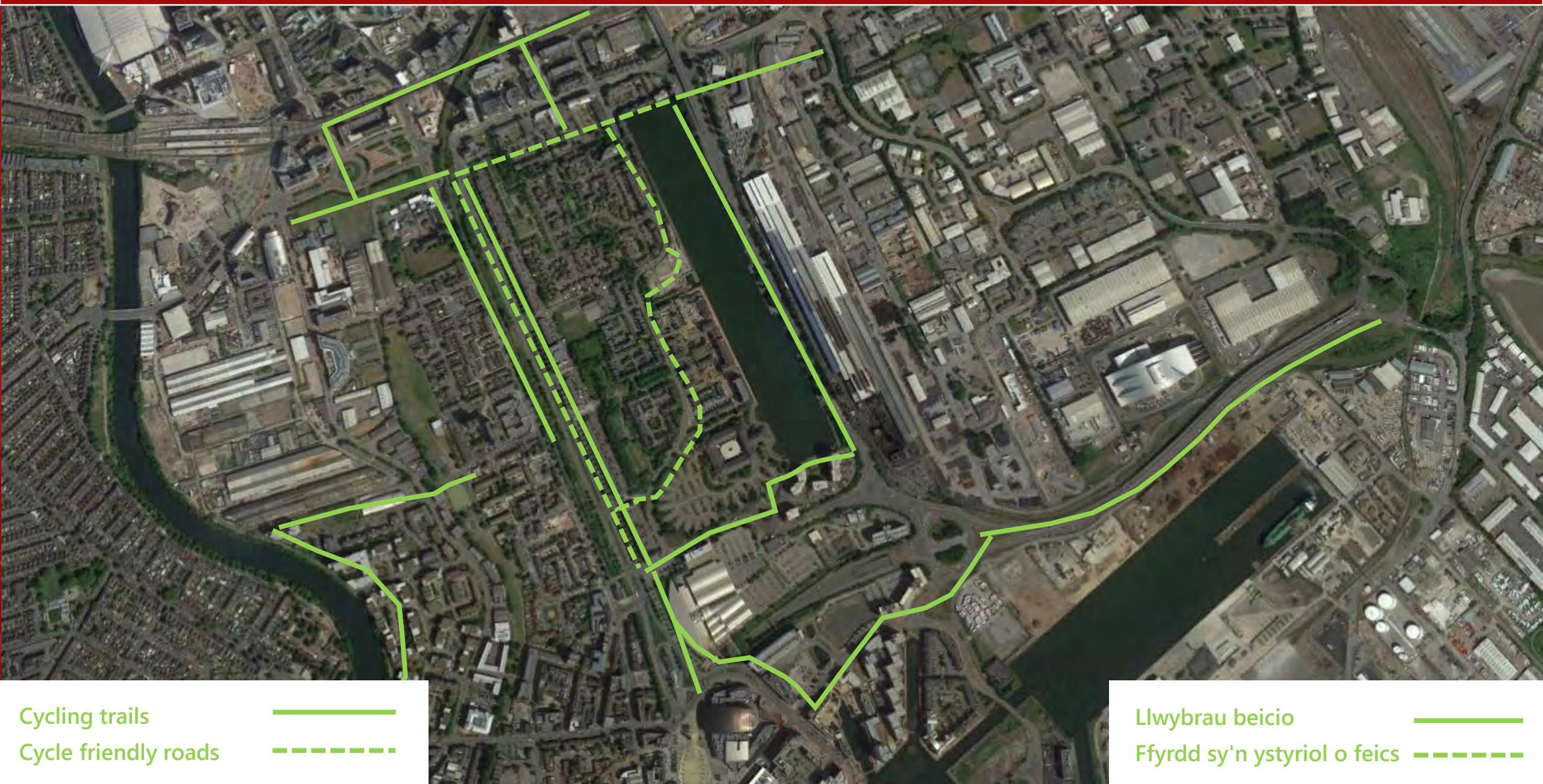
Key Routes – Highway Llwybrau Allweddol - Prifffordd



- Central Link
- Lloyd George Avenue
- Dumballs Road
- A4042
- Ocean Way
- Eastern Bay Link
- Tyndall Street
- Callaghan Square
- Hemmingway Road
- Schooner Way

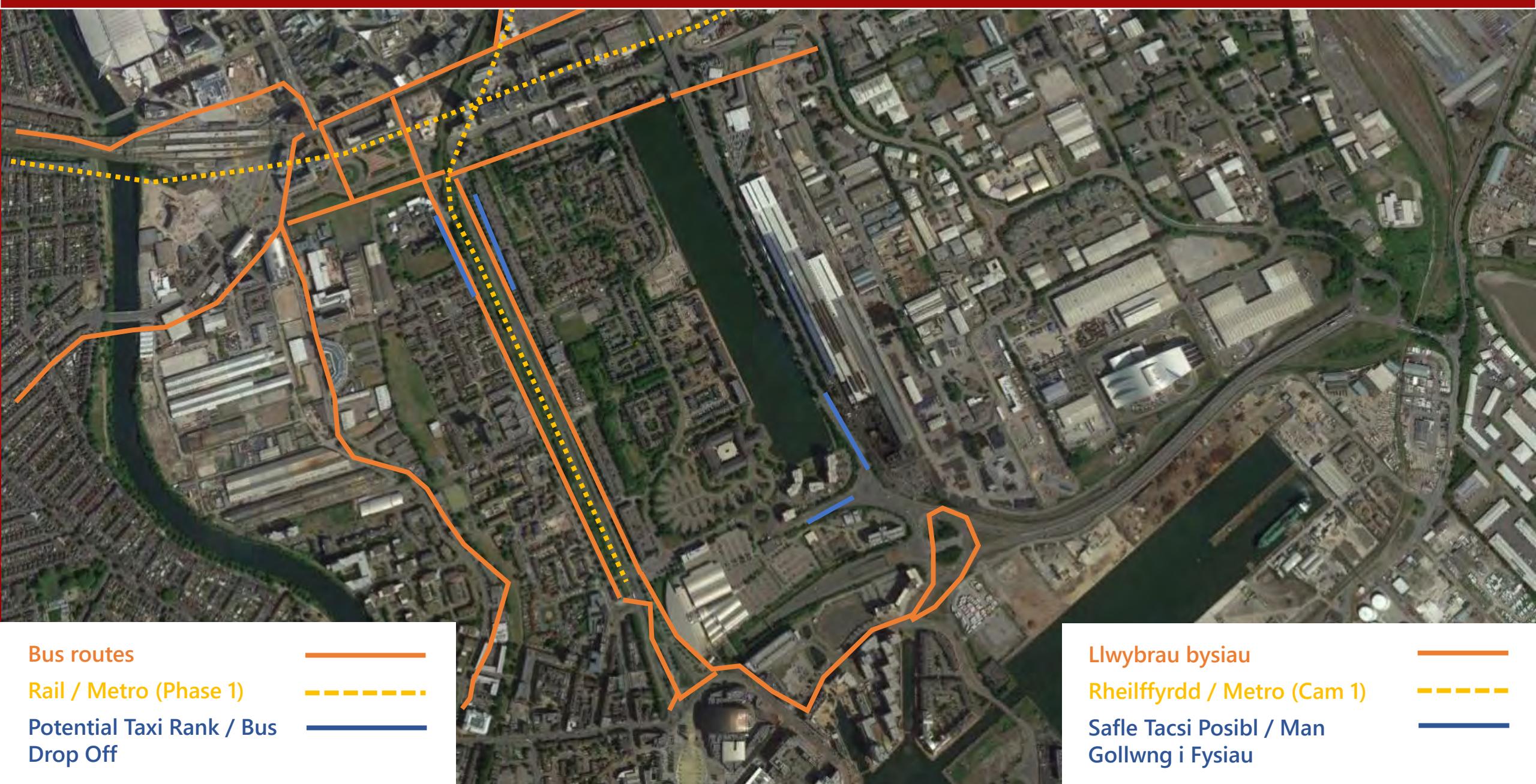
- Cyswllt Canolog
- Rhodfa Lloyd George
- Heol Dumballs
- A4042
- Ffordd y Cefnfor
- Ffordd Gyswllt Dwyrain y Bae
- Stryd Tyndall
- Sgwâr Callaghan
- Heol Hemmingway
- Ffordd y Sgwner

Key Routes – Cycling Llwybrau Allweddol - Beicio



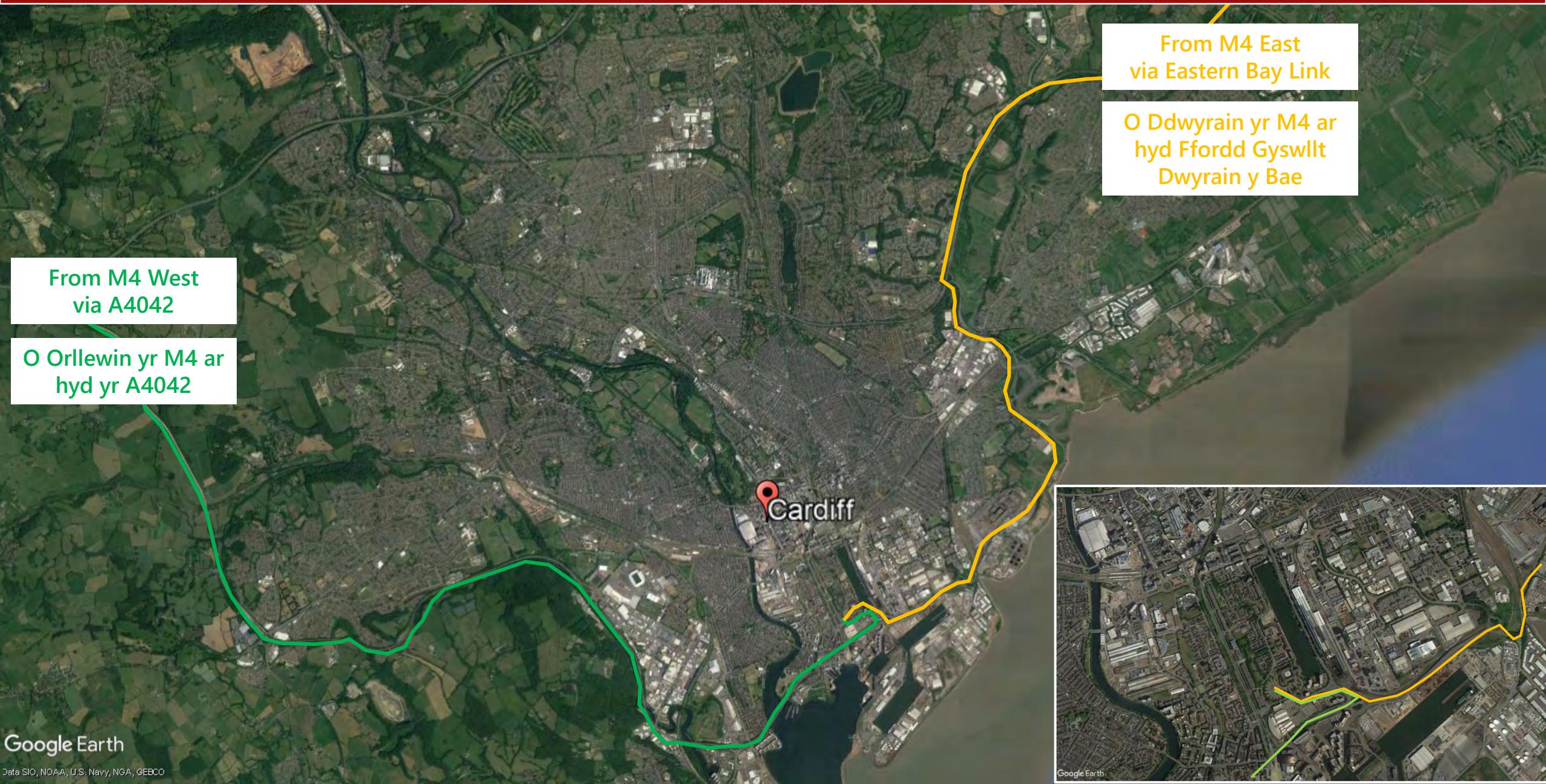
Key Routes – Public Transport

Llwybrau Allweddol - Trafnidiaeth Gyhoeddus



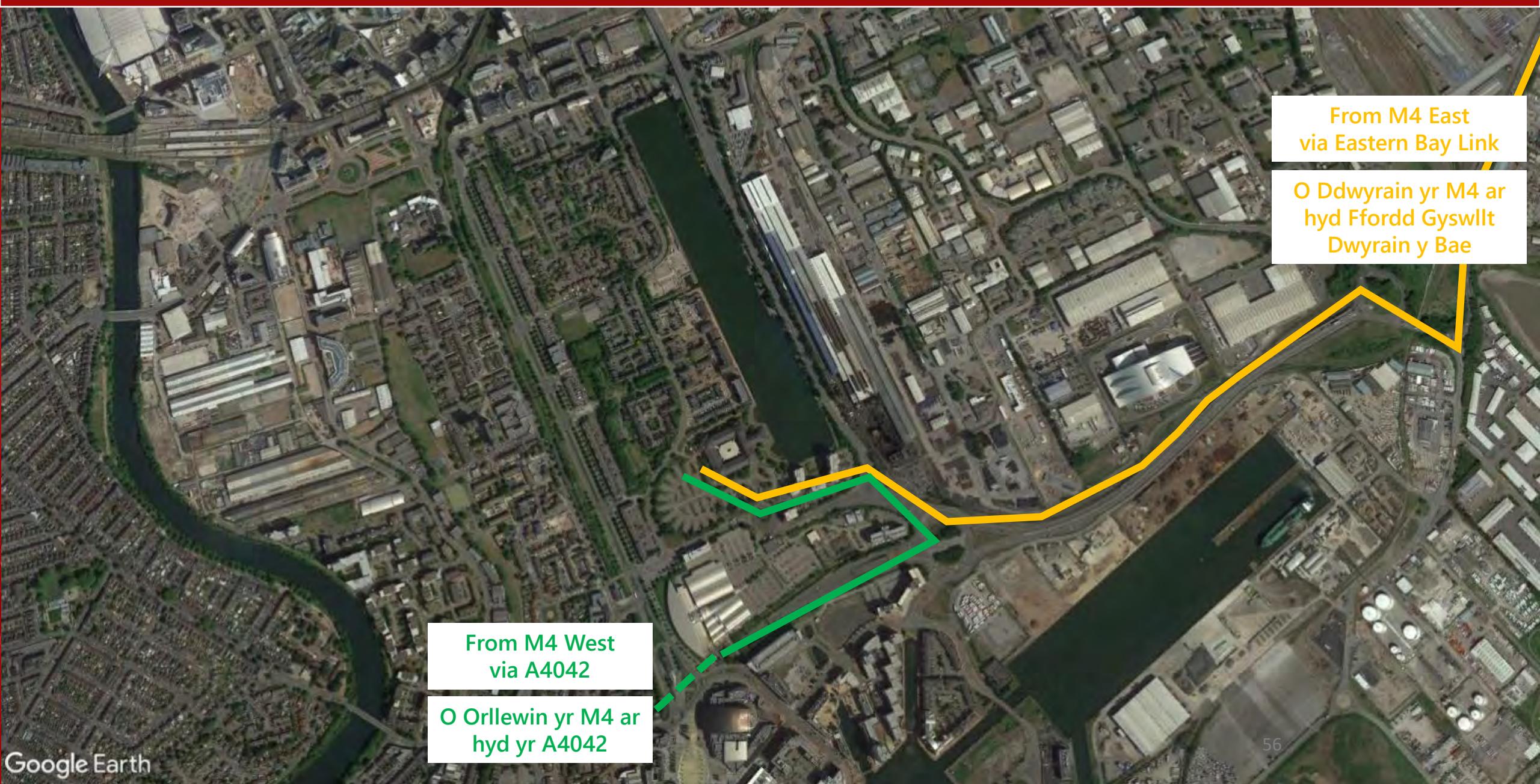
Arena HGV Access Routes

Llwybrau Mynediad Arena I HGV



Key Routes

Llwybrau Allweddol



Conclusion

- We are working closely with Welsh Government, Transport for Wales and Cardiff Council to deliver the key transport strategies and facilitate the delivery of key projects such as the Metro, cycle strategies and decarbonisation
- A modern multi-storey car park will be provided for the opening of the Arena. It will have wider parking bays, well lit with 30% EV charging with the design capacity to extend the EV charging capacity
- On site cycle provision will be provided for staff and visitors including additional Nextbikes
- Provision of new dedicated Active Travel corridors and wayfinding will be provided
- Enhanced Public Transport provision will be provided to serve the Atlantic Wharf Masterplan and surrounding areas

Casgliad

- Rydym yn gweithio'n agos gyda Llywodraeth Cymru, Trafnidiaeth Cymru a Chyngor Caerdydd i gyflawni'r strategaethau trafnidiaeth allweddol a hwyluso'r gwaith o gyflawni prosiectau allweddol fel y Metro, strategaethau beicio a datgarboneiddio
- Bydd maes parcio aml-lawr modern yn cael ei ddarparu ar gyfer agor yr Arena. Bydd ganddo fannau parcio, wedi'u goleuo'n dda gyda gwefru trydan ar gyfer 30% a'r gallu o'i ddyluniad i ymestyn y capaciti gwefru
- Darperir ar gyfer beics ar y safle i staff ac ymwelwyr gan gynnwys Nextbikes ychwanegol
- Darperir corridorau Teithio Llesol pwrpasol a dynodiad llwybrau newydd
- Darperir Trafnidiaeth Gyhoeddus well i wasanaethu Uwchgynllun Glanfa'r Iwerydd a'r ardaloedd cyfagos

Conclusion

- We have extensively modelled traffic flows using Transport for Wales transport model to understand the local and wider impacts and solutions
- There will be Travel Plans for the site for staff and visitors to promote active travel, public transport, car sharing and car clubs including routes to Atlantic Wharf which will be monitored on a regular basis with close liaison with key stakeholders
- There will be Event Management Plans in place to minimise impacts on local residents
- A construction Management Plan will be implemented to ensure delivery routes during construction minimise impacts on the local highway network and to promote sustainable travel by contractors
- Rydym wedi modelu llif traffig yn helaeth gan ddefnyddio model Trafnidiaeth Cymru i ddeall yr effeithiau lleol ac ehangach a'r datrysiau
- Bydd Cynlluniau Teithio ar gyfer y safle er mwyn i staff ac ymwelwyr hyrwyddo teithio llesol, trafnidiaeth gyhoeddus, rhannu ceir a chlybiau ceir gan gynnwys llwybrau i Lanfa'r Iwerydd a fydd yn cael eu monitro'n rheolaidd gyda chyswllt agos â rhanddeiliaid allweddol
- Bydd Cynlluniau Rheoli Digwyddiadau ar waith i leihau'r effeithiau ar drigolion lleol
- Bydd Cynllun Rheoli adeiladu yn cael ei weithredu i sicrhau bod llwybrau danfon yn ystod adeiladu yn lleihau'r effeithiau ar y rhwydwaith priffyrrd lleol ac i hyrwyddo teithio cynaliadwy gan gontactwyr