

Supplementary Planning Document

Draft Campus Framework Masterplan



UNIVERSITY OF WARWICK

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Introduction

University of Warwick location

The University of Warwick main campus is situated on the edge of Coventry, partly within the city boundary and partly within Warwick District and the county of Warwickshire.

The University works closely with the three local authorities and engages with local communities to ensure its operations, including new development on campus, are managed to avoid or minimise potential impacts on neighbouring areas and that they contribute positively to the local economy and the environment.

This Supplementary Planning Document (SPD) has been prepared by Coventry City Council and Warwick District Council in conjunction with the University of Warwick and Warwickshire County Council to give effect to their local plan policies which guide how the campus should develop. It is a Framework Masterplan setting out a series of capital projects likely to be delivered by 2033 within the context of a longer-term vision to 2050.

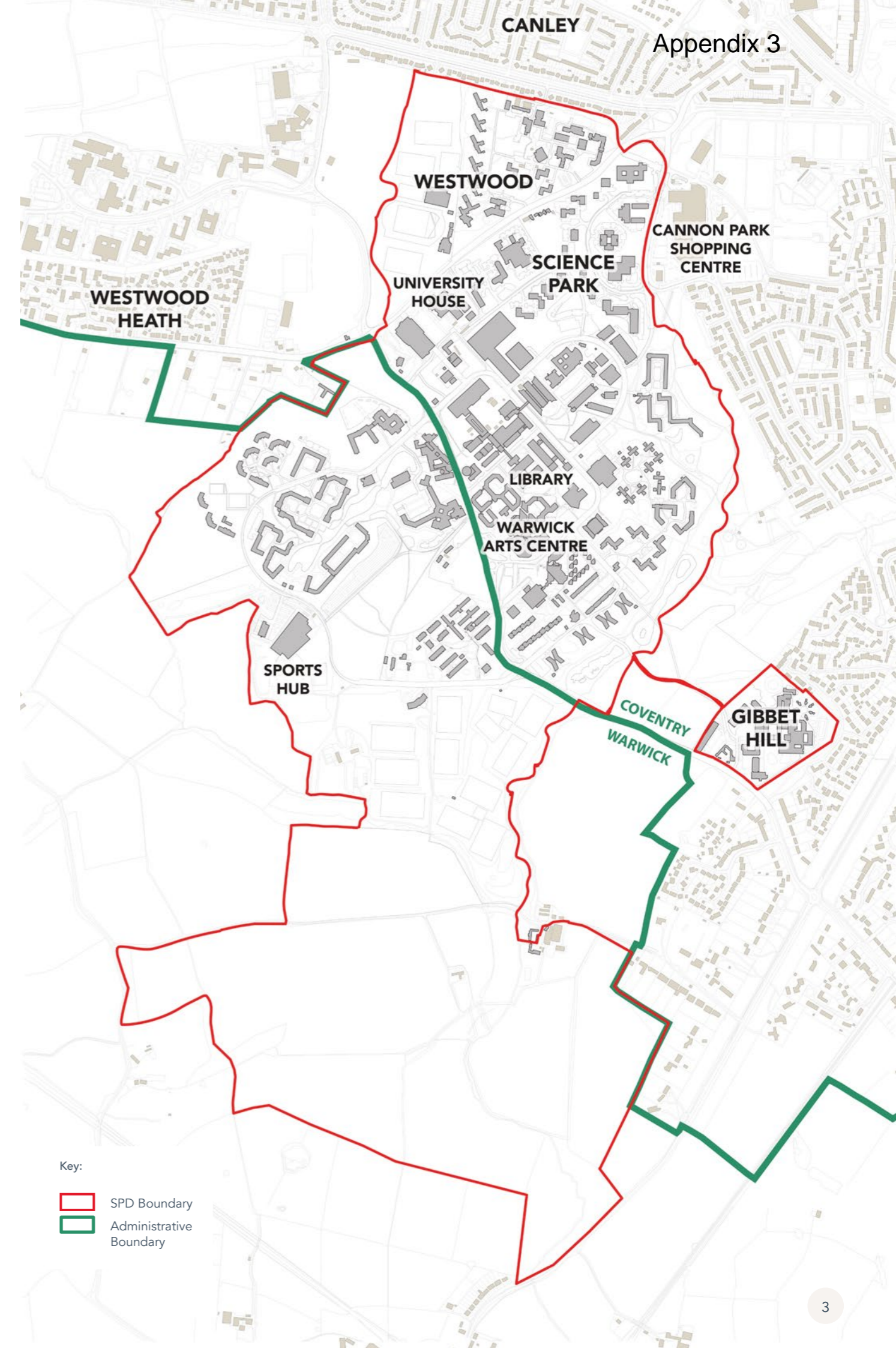
It incorporates several campus-wide strategies including a new Transport and Movement Strategy, which provides an agreed methodology for assessing the impact of new development. A legal mechanism will be agreed between relevant parties to commit to potential mitigations that can be drawn down should the 'monitor and manage' approach require them as projects come forward.

The SPD covers the University's landholdings on the edge of Coventry, including the main campus and its sports fields to the south as far as the line of HS2. This includes the University of Warwick Science Park, which is operated by a separate management company. Not all of this land is active University campus.

The SPD covers a ten-year period to 2033 and reflects the local plan policies in the adopted Coventry Local Plan 2011-2031 and the Warwick District Local Plan 2011-2029. When these plans are reviewed, the SPD may need to be reviewed in the context of any new or updated Local Plans.

A public consultation on the draft SPD was launched by both local authorities between Friday 24 May 2024 and Friday 5 July 2024.

All feedback has been reviewed and where appropriate, amendments to the SPD have been made.



Key:

- ▭ SPD Boundary
- ▭ Administrative Boundary

Planning Context

From 1965 to now

The University of Warwick was founded in 1965 and has had approved masterplans throughout its history, most recently the 2009 Masterplan Outline Planning Permission and the 2018 Capital Plan Hybrid Permission, which have guided recent developments on campus such as the Lord Bhattacharyya Building, Oculus, the Slate, the Sports Hub, Cryfield Village, the IBRB at Gibbet Hill, the Warwick Arts Centre extension, the new Faculty of Arts Building, along with two new multi-storey car parks at Lynchgate and Kirby Corner.

These permissions were accompanied by a Section 106 Agreement which ensured appropriate mitigation of traffic impacts, support for public transport and management of car parking on campus.

The next phase of development is now underway, with plans for a new Social Sciences Quarter including new buildings for the Business School and Economics, and a multi-phase refresh of science, technology, engineering and mathematics (STEM) facilities around a new Science and Engineering Precinct in the heart of campus. There is also greater focus on energy efficiency as the University moves towards Net Zero and a less car-dependent movement strategy is being implemented. Recent events have accelerated changes to the way the staff and student body use the campus, with more flexible working and blended learning. These changes are reflected in the University's current thinking about how it develops the campus.



PHOTO 01: Lord Bhattacharyya Building



PHOTO 02: Oculus



PHOTO 03: The Slate



PHOTO 04: The Sports Hub



PHOTO 05: Cryfield Village



PHOTO 06: The IBRB at Gibbet Hill

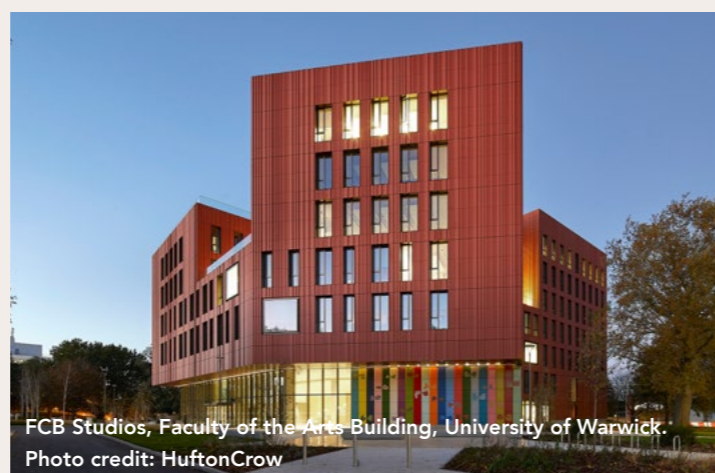


PHOTO 07: The new Faculty of Arts Building



PHOTO 08: New multi-storey car park at Lynchgate



PHOTO 09: Warwick Arts Centre extension

Planning Policy

The campus sits across two local authority areas – Coventry and Warwick District, with the main academic part of campus in Coventry and the more residential and recreational areas within Warwickshire.

All of the built part of campus was removed from the Green Belt in 2017 but the sports fields and countryside to the south remains in Green Belt.

The adopted local plans for the campus are:

- The Coventry Local Plan 2011-31, adopted in 2017¹
- The Warwick District Local Plan 2011-2029, adopted in 2017²

Coventry Local Plan

The planning policy context for the north eastern extent of the campus is established in the Coventry Local Plan, adopted in December 2017.

The key policy within the Coventry Local Plan of relevance to this SPD is **JE1 Overall Economy and Employment Strategy**. This policy confirms that the council will work in partnership with the City's universities to promote and support innovation. The policy objective being to maximise the economic development and community benefits associated with the continued growth of the universities.

This masterplan has therefore, in part, been produced in the context of Policy JE1 of the Coventry Local Plan.

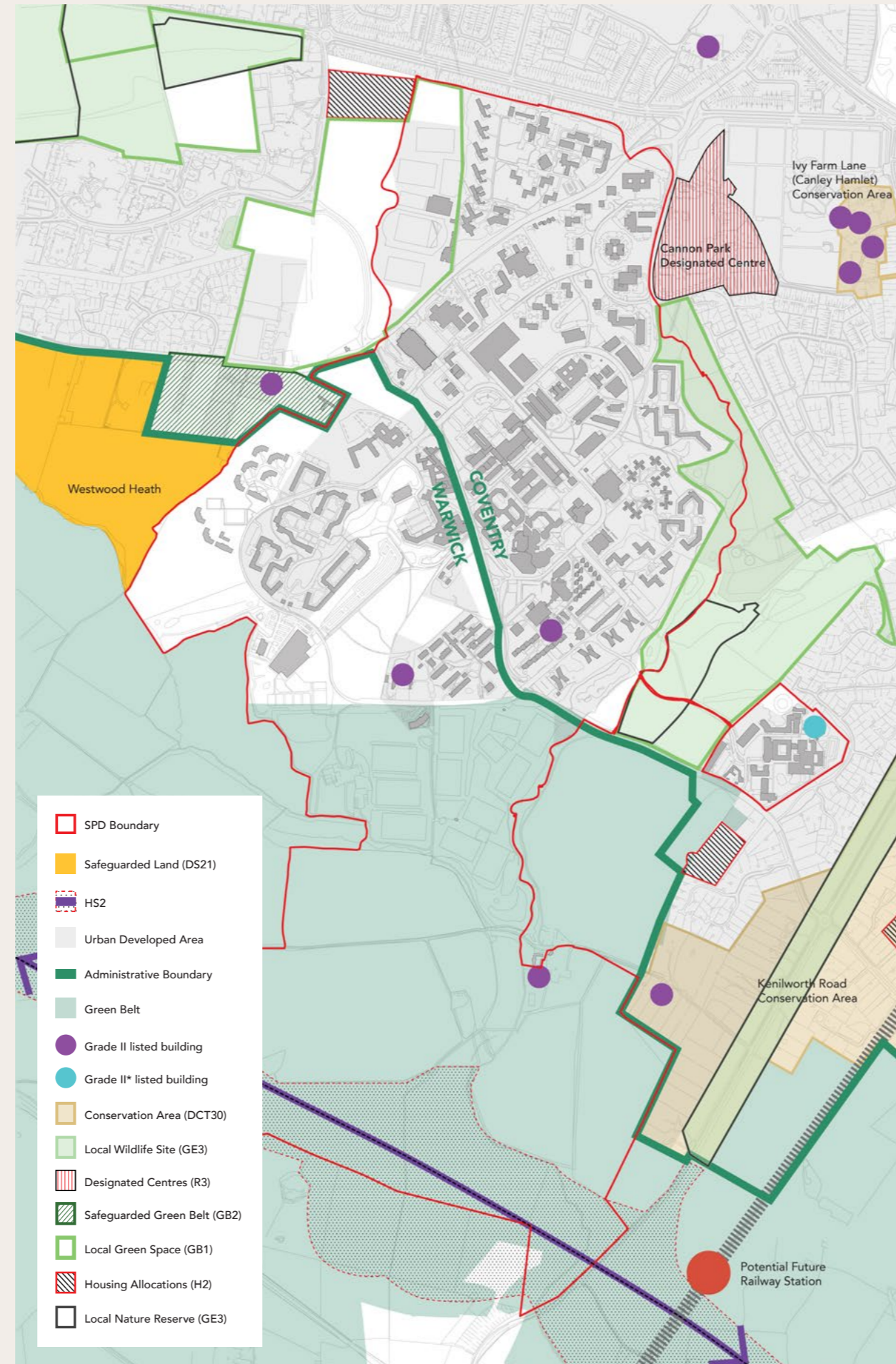
Other relevant policies within the Coventry Local Plan include:

- **DS3 Sustainable Development Policy** which confirms the Council will take a positive approach to development that reflects the presumption of sustainable development contained within the NPPF.
- **CO1 New or Improved social community and leisure premises** states in part 3 that proposals that are in accordance with the approved masterplan will normally be approved subject to high quality design proposals.

¹ Coventry Local Plan 2011-2031: <https://www.coventry.gov.uk/planning-policy/coventry-local-plan-2011-2031>

² Warwick District Local Plan 2011-2029: https://www.warwickdc.gov.uk/info/20410/local_plan

PLAN 02: PLANNING POLICY



Warwick District Local Plan

The planning policy context for the south western extent of the campus is established in the Warwick District Local Plan, adopted September 2017.

The main policy within the Warwick District Local Plan of relevance to this SPD is **Policy MS1 University of Warwick**. The policy states that development at the University will be permitted in line with an approved Masterplan or Development Brief as agreed with the relevant LPAs. The masterplan should set out how proposals will contribute to the University delivering a world-class education campus including the range of uses associated with that. Furthermore, the policy sets out the objectives which any Masterplan should incorporate. These include:

- Identifying the physical and economic context for development;
- Identifying the development principles that will underpin future development proposals;
- Identifying the location of developments, and demonstrating the mitigation of any potential adverse impacts; and
- Identifying how the proposals support the vitality of the local and/or sub-regional economy.

Other relevant policies within the Warwick District Local Plan include:

- **DS5 Presumption in Favour of Sustainable Development** which states the Council will take a positive approach towards development proposals that reflect the presumption in favour of sustainable development as set out in the NPPF.

Warwick District Council declared a climate emergency in 2019 and has since produced a Net-zero Carbon DPD which has been through Examination in Public. Following the Main Modifications consultation in July 2023, the DPD was adopted on 15th May 2024. The objectives of the DPD are to minimise carbon emissions from new buildings and to support national and local carbon reduction targets. Alongside the DPD sits the Net Zero Carbon SPD which sets out further advice and guidance to applicants and relevant stakeholders on how to comply with the DPD policies. The SPD was also adopted by the Council as of 15th May 2024.

The campus is not covered by any Neighbourhood Plans, however the Burton Green Neighbourhood Plan (made March 2022) abuts the campus on the west.³

Other relevant planning policies and SPDs are incorporated throughout the several strategies forming this SPD.

³ https://www.warwickdc.gov.uk/downloads/file/7254/burton_green_ndp_made_version_march_2022

Emerging policy

South Warwickshire Local Plan

In January 2021, Warwick District Council commenced a review of its Local Plan in collaboration with Stratford-on-Avon District Council for the South Warwickshire area. The Plan will set out the long-term spatial strategy on issues such as housing, employment, infrastructure and climate change for both districts up to 2050. Both councils recently undertook an Issues and Options Consultation as well as a Call for Sites from January to March 2023 and previous to this a Scoping and Call for Sites consultation in May-June 2021. The South Warwickshire Local Plan is anticipated to be adopted in 2027, therefore it holds limited to no weight in the development of this SPD as there are no draft policies to assess against. As part of the review, Warwick District Council is working with the City and County Councils as well as the University of Warwick on a masterplanning study of the North of Kenilworth South of Coventry area.

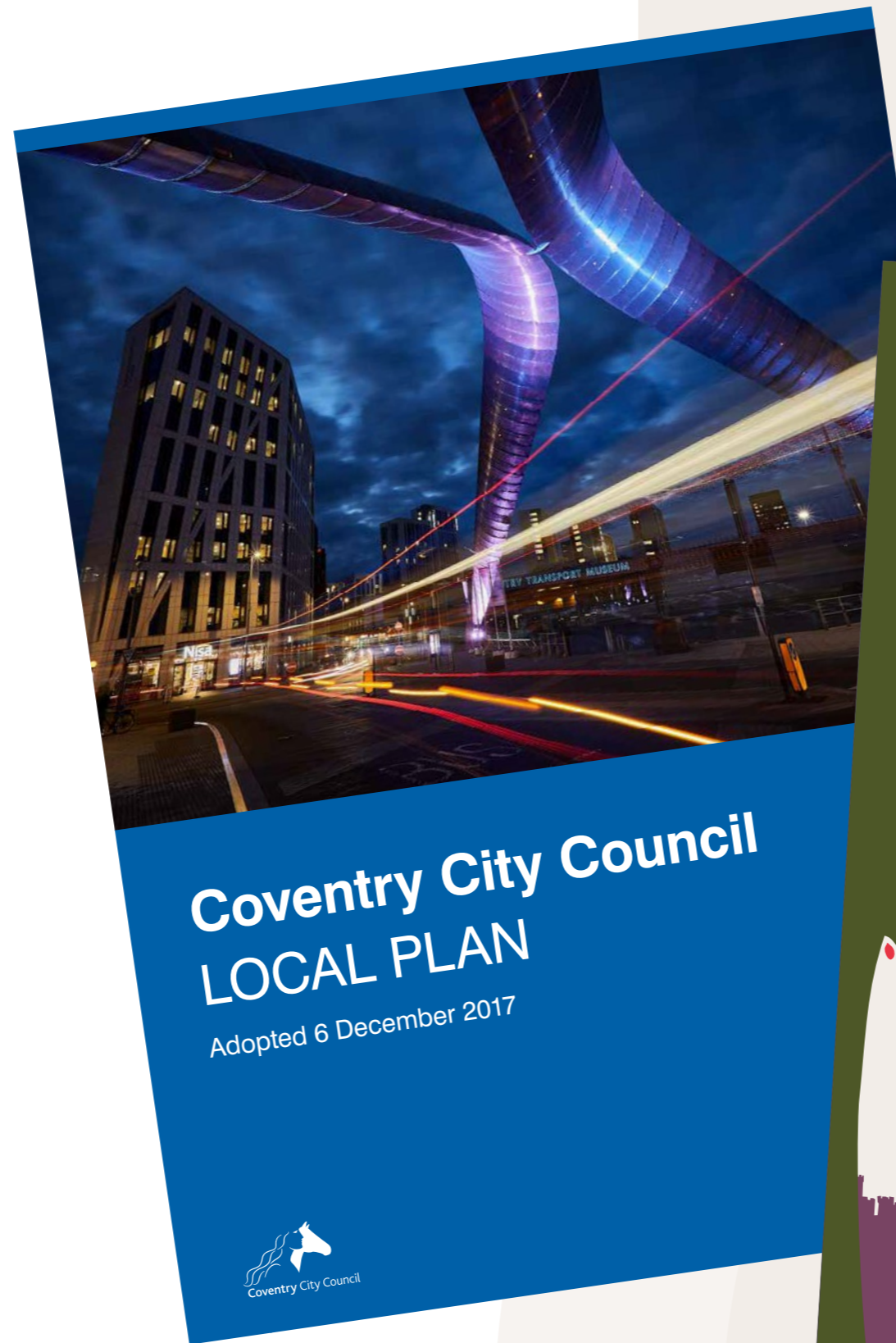
Coventry Local Plan Review

Coventry City Council is currently in the process of producing an updated Local Plan and recently undertook an Issues and Options Consultation between July and September 2023. As there are no draft policies to assess against, and the Council anticipates adopting the updated plan in late 2025/early 2026, the Local Plan Review holds limited to no weight in the development of this SPD.

When this SPD is reviewed, this will be done in the context of any updated Local Plans for both Coventry and Warwick Districts.

Warwickshire County Council

Warwickshire County Council (WCC) act as the Highways and Lead Local Flood Authority for Warwickshire and are statutory consultees on all planning applications within Warwick District. Officers representing Warwickshire County Council have been involved in the preparation of this SPD.



The Campus

A UK top 10 institution

The University of Warwick is a world leading and UK top 10 institution with over 25,000 students and 5,500 members of staff, generating an economic impact of in excess of £1bn¹ with significant benefits for the West Midlands region and its economy. It occupies a main campus set in nearly 300 hectares on the edge of Coventry and the Warwickshire countryside.

The campus plays a significant role in south-west Coventry, with the renowned Arts Centre and recently completed Sports and Wellness Hub providing community benefits. The campus is accessible to local people and there are routes which cross the area including the Sustrans cycle route to Kenilworth providing connections to the countryside.

In previous masterplans the campus has been divided into a series of 'character areas' including Central Campus East and West (either side of Gibbet Hill Road), Westwood (north of Kirby Corner Road) and Gibbet Hill (close to Kenilworth Road). The University has refreshed its internal masterplan during 2023, based on their emerging Vision for the campus by 2050. The internal masterplan takes a slightly different approach which the SPD reflects:

1. **Core Campus:** The masterplan seeks to concentrate new academic development within the core of the campus (defined in DP1 on page 12). Over time, the aim is to change the character of the public realm in this area so it is less dominated by cars and more pedestrian-focused.
 - This includes Gibbet Hill which is home to Warwick's Medical School and Life Sciences faculty and sits slightly apart from main campus separated by Tocil Woods.
2. **Periphery:** around the core campus, to the south and east, are areas of primarily student residential housing which are different in character, less dense and set in most part within a mature landscape setting.
 - To the north is the Westwood campus which comprises a mix of academic, conference, sports and residential accommodation that is likely to see change in the medium to long term; and the Science Park, which is wholly owned by the University and is operated by a separate management company.
3. **Green Fringe:** The area to the south of the campus sits within designated Green Belt and is characterised by sports pitches and agricultural land, part of which is affected by the construction of HS2.

Beyond the campus, the surrounding neighbourhoods include residential suburbs on the edge of Coventry - Cannon Park, including the shopping centre which also serves the University community, Canley and Westwood Heath, the area around Moreall Meadows and Kenilworth Road, and Burton Green, which is predominately in Warwick District. To the south, beyond the HS2 route, is the town of Kenilworth.

PLAN 03: EXISTING CAMPUS



¹ <https://warwick.ac.uk/about/regional/ourimpact/>

The University's Vision

Strategic principles

The University has five strategic priorities as an institution:

- Innovation
- Inclusion
- Regional Leadership
- Internationalisation
- Sustainability

See: <https://warwick.ac.uk/about/strategy>

Strategic Principles

Translating these into a set of strategic principles for the development of the campus, the University's long-term ambitions are:

SP1:

To transform regional connectivity to campus.

SP2:

To create a flexible framework for innovation and other development opportunities within the campus and beyond.

SP3:

To form a vibrant learning, working, and living community.

SP4:

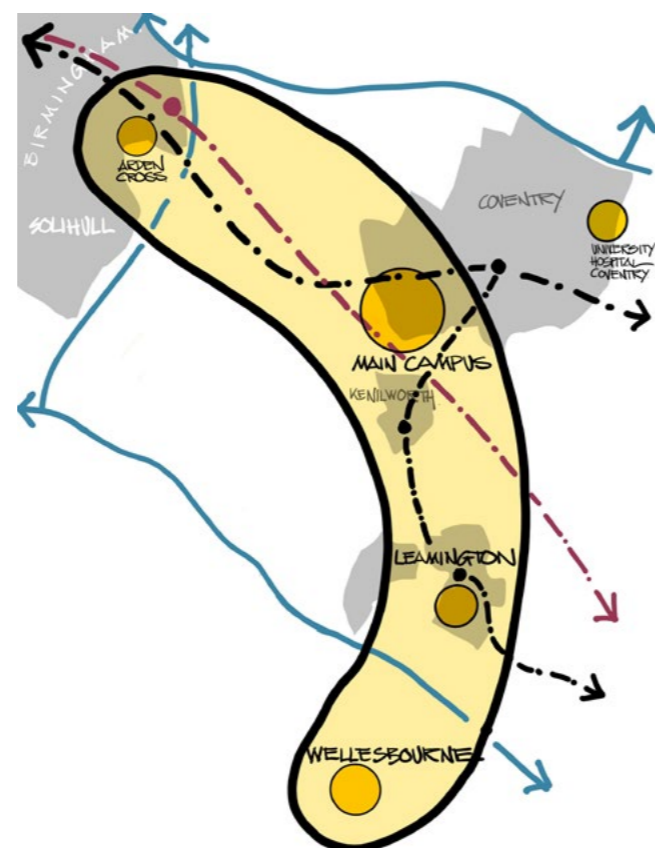
To create an accessible, inclusive, safe, secure and people focused environment.

SP5:

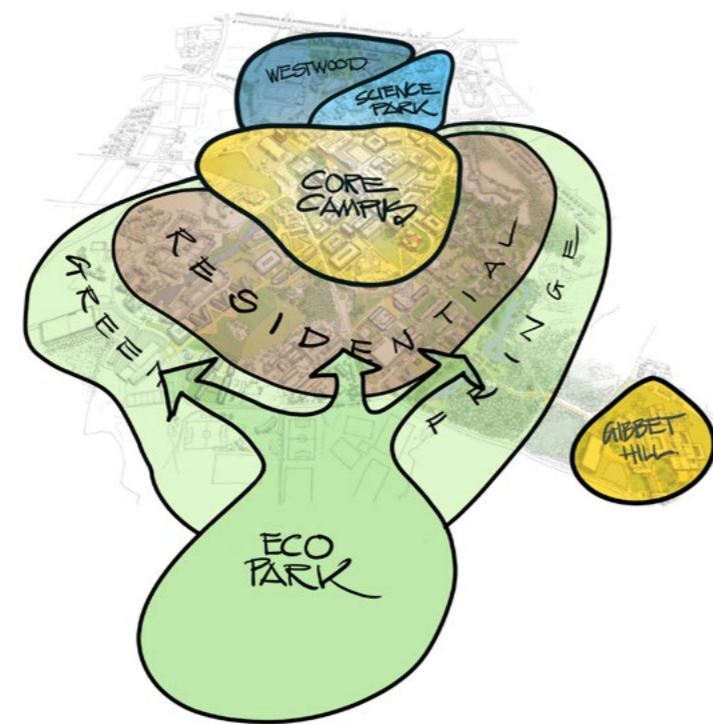
To shape a distinctive University of Warwick identity that has a 'cosmopolitan in the countryside' feel.

SP6:

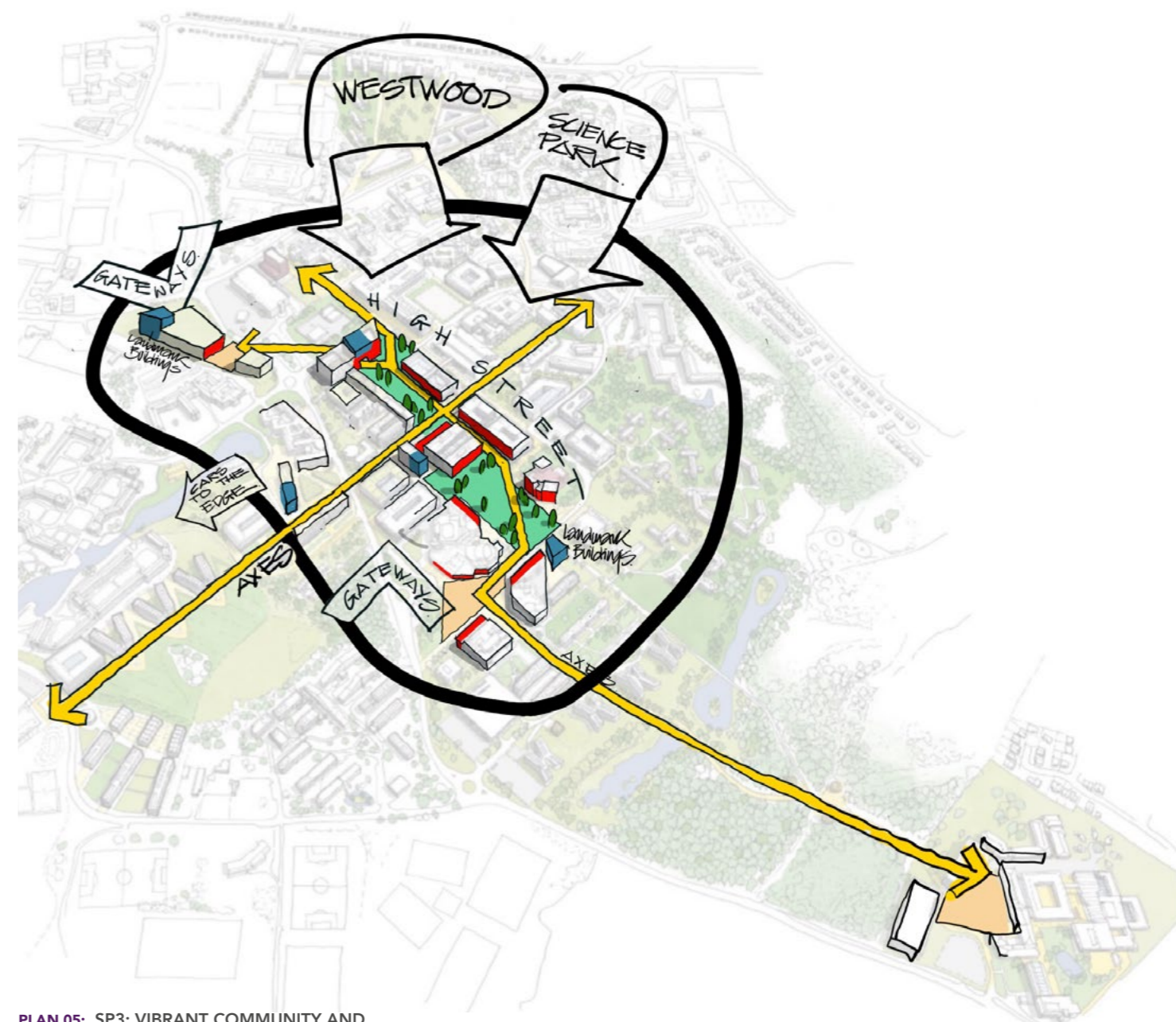
To deliver a SMART¹, sustainable and low energy campus.



PLAN 04: SP1: REGIONAL CONNECTIVITY AND SP2: INNOVATION AND OTHER DEVELOPMENT OPPORTUNITIES



PLAN 06: SP5: COSMOPOLITAN IN THE COUNTRYSIDE AND SP6: SMART AND SUSTAINABLE CAMPUS



PLAN 05: SP3: VIBRANT COMMUNITY AND SP4: ACCESSIBILITY AND INCLUSIVITY

¹ The University aims to create a digitally connected campus for more efficient operations and a better user experience by integrating technology and data at the heart of campus design.

The University's main campus on the south-west edge of Coventry is the focus for its activities in the region, which also extend to the Stratford-upon-Avon Innovation Campus at Wellesbourne in Stratford, University Hospital Coventry, and potentially a new healthcare presence at Arden Cross in Solihull. To support continued innovation and effective working across its locations, the University will work with partners to secure improved regional connectivity including new transport investment in the long term, seeking to enhance local accessibility and mitigate any impacts on surrounding communities.

The University's vision for the main campus is to be 'cosmopolitan in the countryside'. This refers to the academic life of the University, and both the scale and quality of design of new buildings within the context of the natural greenspaces and wider countryside setting of the campus. These are important contributors to the character of campus and, through concentrating new development in the core with new landmark buildings, the creation of new vistas and public spaces, it will foster a more distinctive sense of place and better legibility for those visiting campus.

Development in the short to medium term (to 2033) will in the main be within the core campus, creating the first of two new University Greens and developing a 'high street' supported by two strong axes linking to the periphery of campus and surrounding communities to the west and north. This is to be part of an extensive pedestrian and cycle network, the aim being to bring the activity of the University out into the open rather than hidden within buildings, with more active ground floor uses and active public spaces.

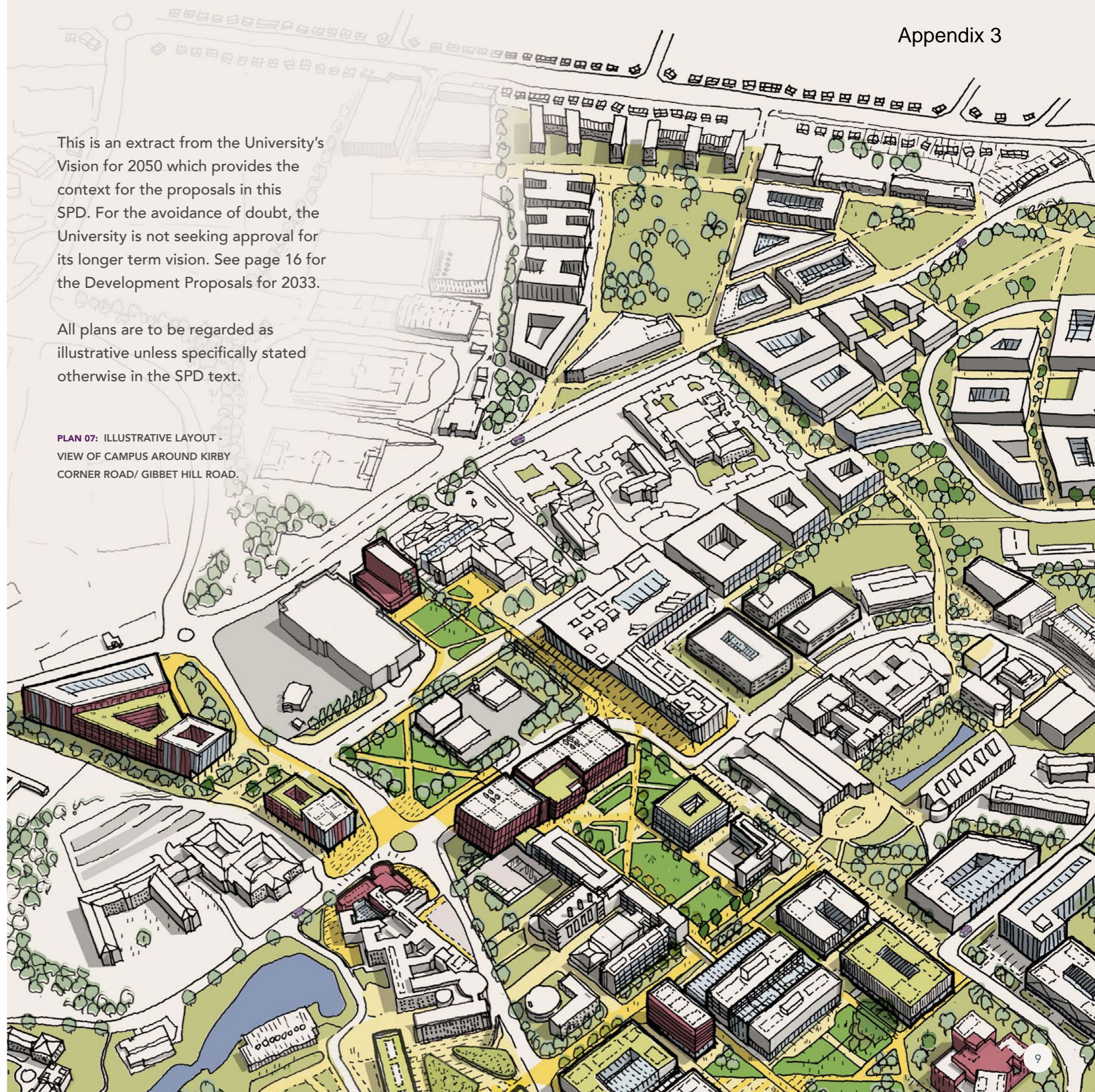
The University is already implementing a new transport and movement strategy which has seen some car parking removed from the centre of campus and provided around the edge – at Kirby Corner and Lynchgate. This process will continue with further changes to parking when opportunities arise (within the existing maximum cap) and the provision of mobility hubs around campus to further support active travel.

The overarching ambition is to achieve Net Zero carbon from direct emissions and energy by 2030 and through indirect emissions by 2050. This is in line with national and local policies including the adopted Net Zero Carbon DPD and SPD. It will include radical change to energy efficiency and on-site generation, designing in sustainability to new buildings and retrofits, delivering biodiversity net gain on campus, and developing our climate change resilience.

This is an extract from the University's Vision for 2050 which provides the context for the proposals in this SPD. For the avoidance of doubt, the University is not seeking approval for its longer term vision. See page 16 for the Development Proposals for 2033.

All plans are to be regarded as illustrative unless specifically stated otherwise in the SPD text.

**PLAN 07: ILLUSTRATIVE LAYOUT -
VIEW OF CAMPUS AROUND KIRBY
CORNER ROAD/ GIBBET HILL ROAD.**



Design Principles

Guiding future development

To deliver on these strategic principles, the University has developed six key Design Principles to guide future development on campus. These are:

DP1:

Campus Core and Periphery

DP2:

Axes and Hubs

DP3:

Pedestrian-Focussed

DP4:

Active Public Spaces

DP5:

Landmark Design

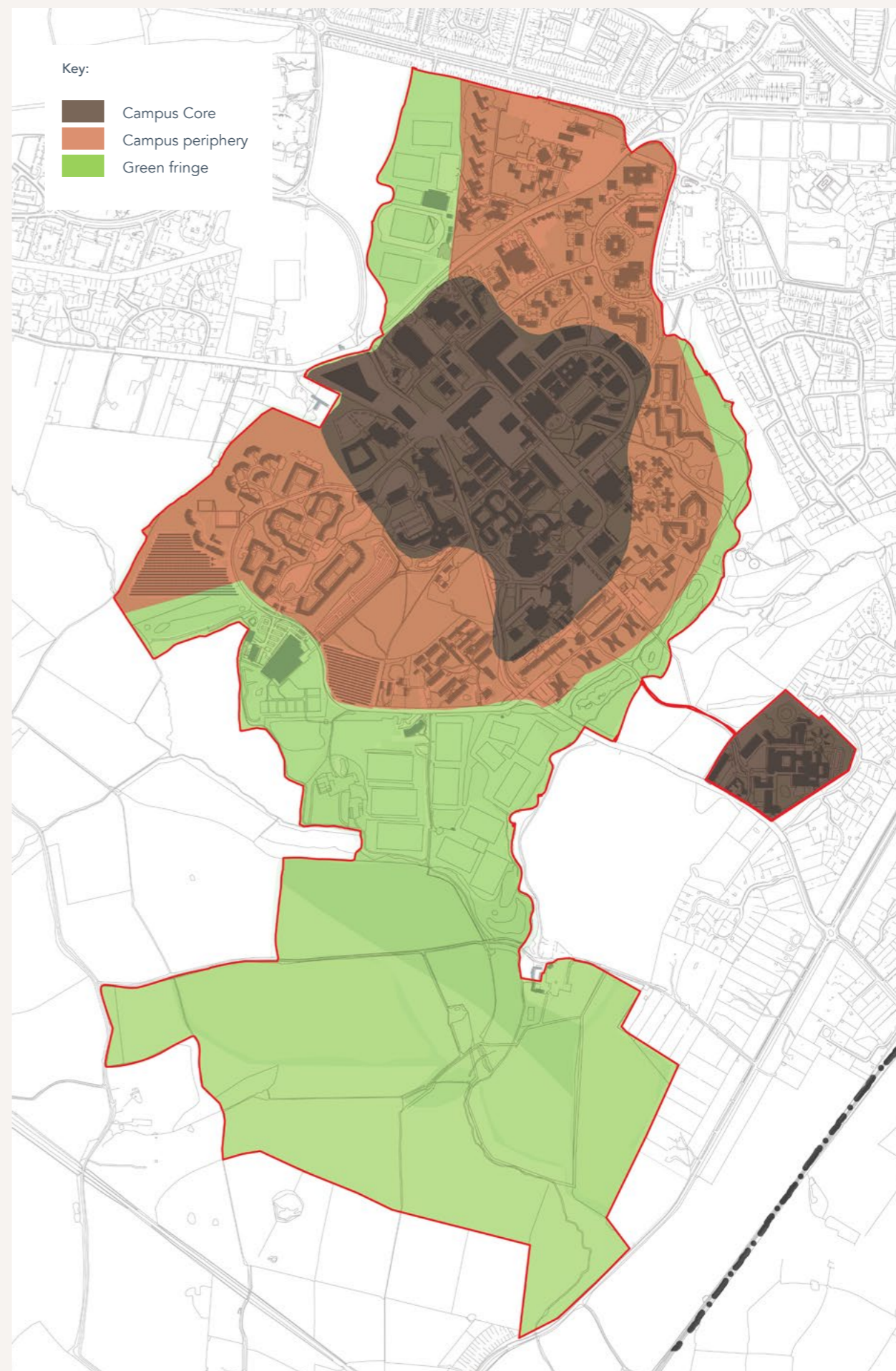
DP6:

Integrating Nature

DP1: Campus Core and Periphery

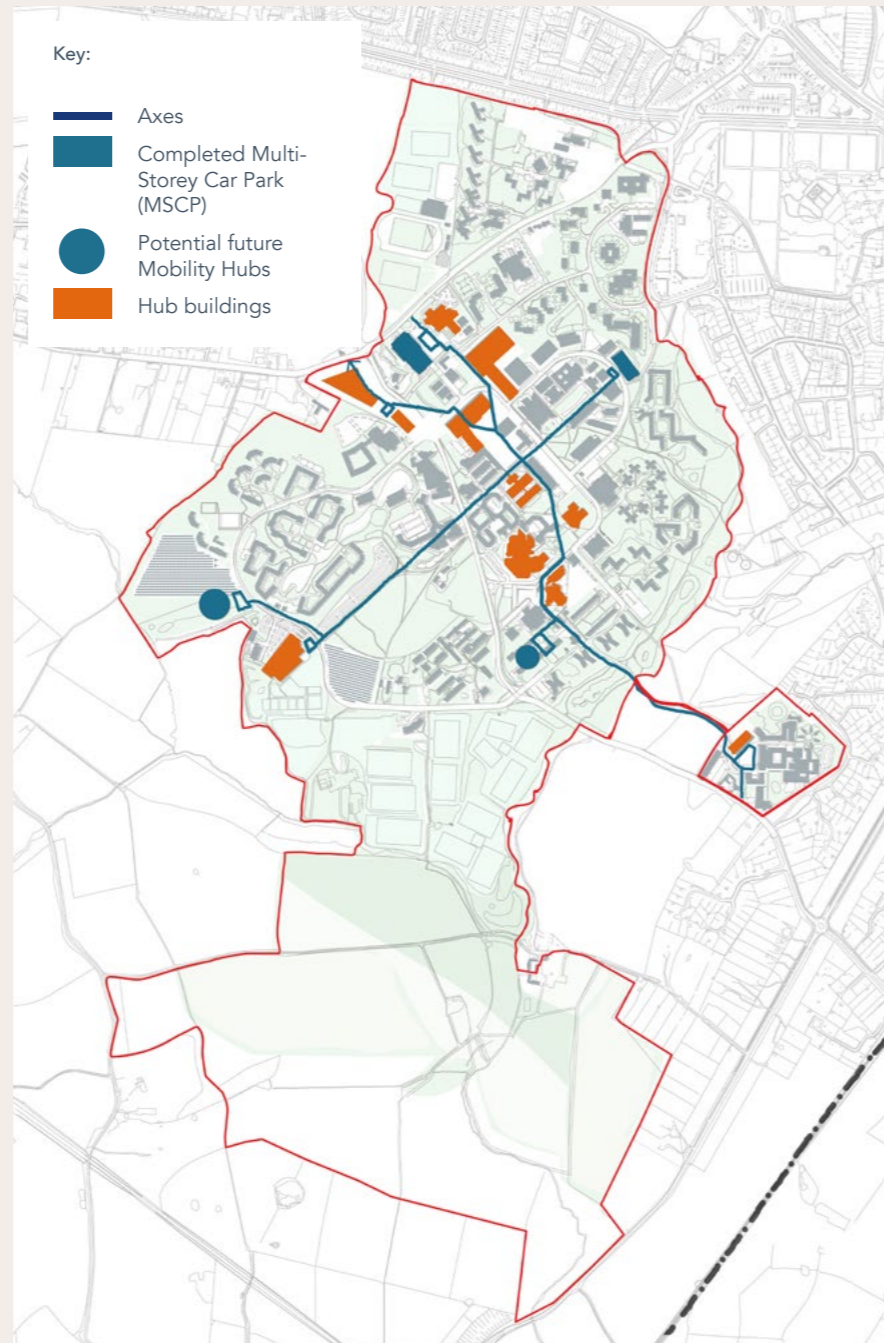
- A. Primarily academic uses will be concentrated within the core campus as defined on Plan 08, including Gibbet Hill.
- B. Higher density development and taller buildings will be permitted in the Core Campus, subject to the application of other design principles (and relevant local policies) to ensure high quality.
- C. The Campus Periphery will generally not be appropriate for higher density development, particularly in close proximity to sensitive greenspace or neighbouring residential areas.

PLAN 08: CAMPUS CORE AND PERIPHERY



DP2: Axes and Hubs

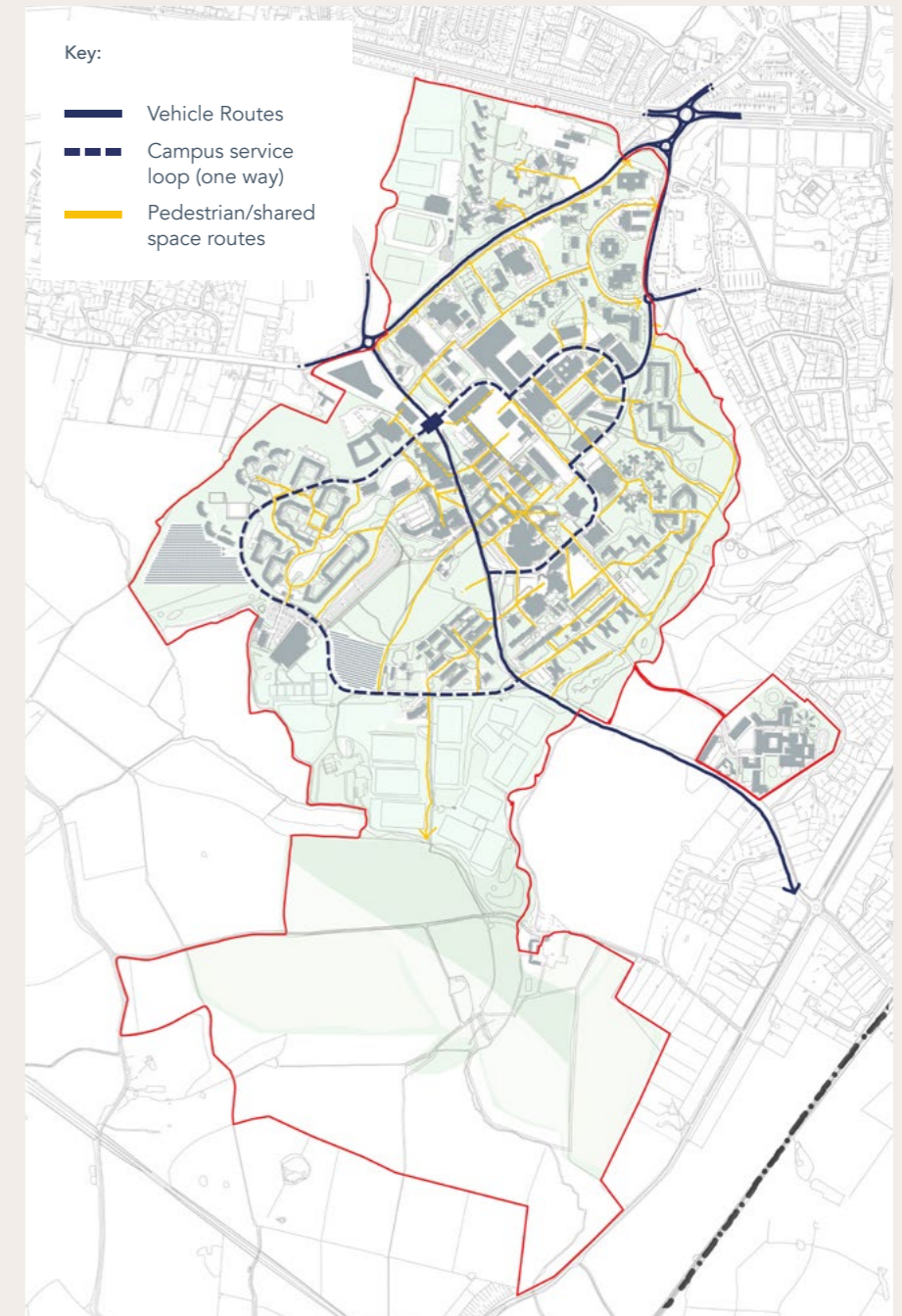
- A. The focus of activity and movement around campus will be on two primary axes – one from University House to Gibbet Hill and the other from Academic Square to the Sports Hub.
- B. These will connect a series of buildings, active public spaces and future mobility hubs (refer to page 22). where key University activities are based, and which provide access to a variety of travel options.
- C. Car parking will be progressively removed from the core campus and, if replaced, this will be around the periphery (refer to Plan 15 on Transport and Movement).



PLAN 09: AXES AND HUBS

DP3: Pedestrian-Focussed

- A. To transform the campus with a more pedestrian-focussed public realm, the University will create a one-way circulatory route to minimise traffic within the core campus whilst maintaining access to service yards, for blue badge parking and emergency services.
- B. This will be supported by an extensive pedestrian and cycle network which will be expanded over time, supplemented by effective wayfinding additional detail on cycling measures is provided at page 20.
- C. Where opportunities arise as part of new development, and can safely accommodate all users, the pedestrian environment will be further enhanced through consideration of the use of shared surfaces, downgrading of road space, environmental improvements including sensitively designed and located street furniture and potential closures (refer to Plan 16).



PLAN 10: PEDESTRIAN FOCUSED

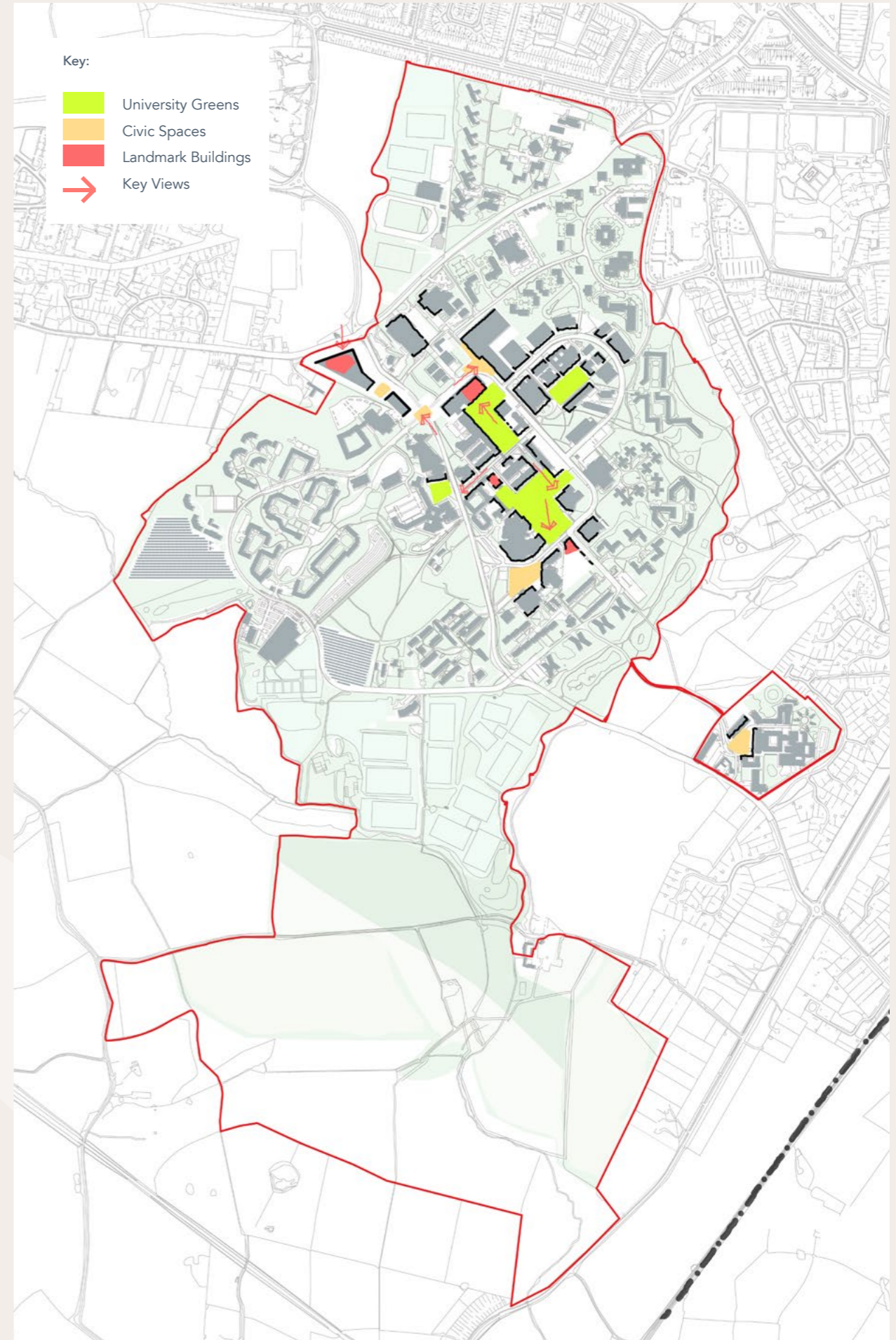
DP4: Active Public Spaces

- A. To support a more pedestrian-focussed campus around the primary axes and hubs, the University will create more active public spaces for users of campus to enjoy a greater sense of community, including formal squares and greenspaces.
- B. New developments will incorporate and/or support active public spaces including, where suitable, active frontages within buildings for small scale ancillary retail, study areas, informal meeting space or other community uses.
- C. As part of the Science and Engineering Precinct development, a new University Green will be created between University Road and Library Road at the junction of the two primary axes.

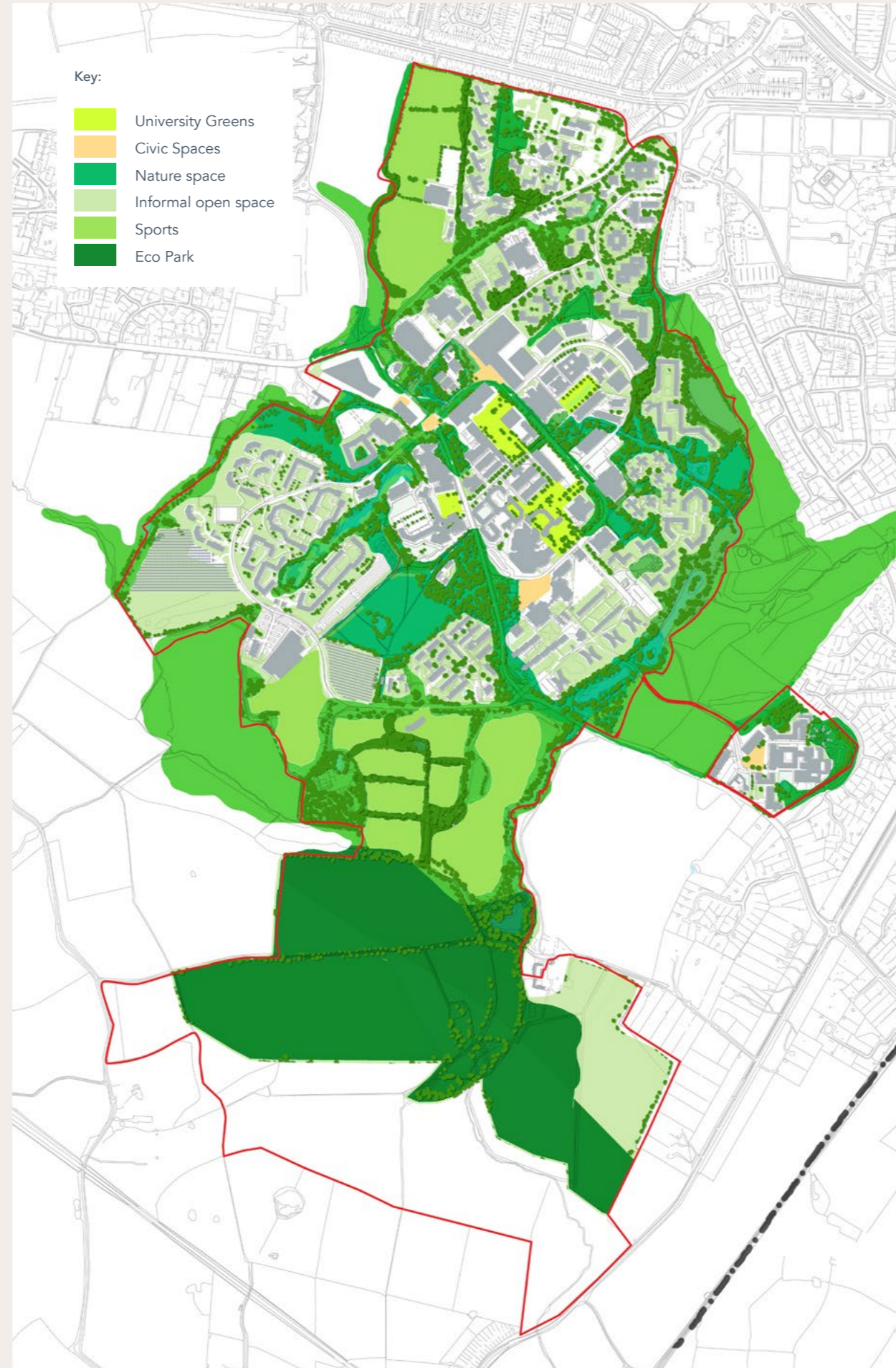
DP5: Landmark Design

- A. The design of new and refurbished buildings will reflect the character and modern vernacular of the University campus, differentiating scale and design between the Core and Periphery
- B. Buildings in locations indicated on Plan 11 will be designed to provide landmarks and visual markers at the end of views within the campus to contribute to a sense of place and clear identity.
- C. Materials will be selected to provide the right balance between coherence and contrast so that buildings fit harmoniously with their surroundings, but also have emphasis and interest where necessary.

PLAN 11: ACTIVE PUBLIC SPACES



PLAN 12: INTEGRATING NATURE



DP6: Integrating Nature

- A. The formal and informal landscapes of the campus contribute to its character and should, wherever possible, be incorporated into and enhanced by new development.
- B. This will include a 'layered'¹ approach to green and blue infrastructure to ensure the integration of nature and the creation of connected habitats and ecological corridors such as green roofs, green walls and rain gardens.
- C. Outside of the core campus, this will take a more informal and naturalistic approach to enhance biodiversity (see section on Ecology and Biodiversity).
- D. Tree planting will be designed to add structure to the public realm and contribute to the identity and character of spaces and routes.
- E. Subject to the return of land from HS2 and decisions about future infrastructure, the University will create an 'Eco-Park' in the south of campus comprising ecological, recreational and potentially energy generating uses (proposals for any such uses to be addressed against relevant Green Belt policy at the time of submission).

¹ A 'layered' approach to landscape means a 3-dimensional combination of planting types and habitat features, such as an upper layer of roof gardens, green walls and trees, alongside a middle layer of hedgerows and shrubs, and a lower layer which may include a diverse mix of species and planting types, for example perennial planting, raingardens, meadow grassland and bulb planting within grass. The intent being to create species diversity and a more connected environment for wildlife.

Development Proposals to 2033

Areas of Change

This SPD covers the next ten years to 2033, reflecting the University's Capital Plan for future investment in new buildings and infrastructure. These arise from the longer term vision to 2050 set out earlier. There are five specific projects, two of which are already in the planning process. These are:

1. The Social Science Quarter including new Business School and repurposing of existing Social Sciences buildings
2. The Science and Engineering Precinct - redevelopment and refurbishment of STEM facilities in central campus and creation of a new University Green
3. New Energy Innovation Centre
4. Extension of Scarman House, Post Experience Centre, including additional bedspaces
5. Solar arrays – large-scale photovoltaic installations to generate renewable energy.

In addition, the University anticipates providing 1,200 net additional student bedspaces on or close to campus, either through direct development or in conjunction with private developers (what is known as Purpose Built Student Accommodation).

In conjunction with the highway authorities, the University has modelled the traffic generation from 31,000 sq.m. of new academic development over and above the recent approval of the social sciences quarter, which used up floorspace previously approved in 2018. This includes the above projects and makes an allowance for a further net 13,000 sq.m. of academic floorspace to allow for other projects to come forward over the period to 2033.

There are a further 11 potential projects which may come forward before 2033. The University has yet to make final decisions and therefore the SPD identifies these as areas of likely future development. They could be for academic, residential or other purposes related to the University. Should one or more of these projects come forward, they would be considered against the remaining capacity in floorspace terms and the Design Principles set out above.

The areas of likely future development are:

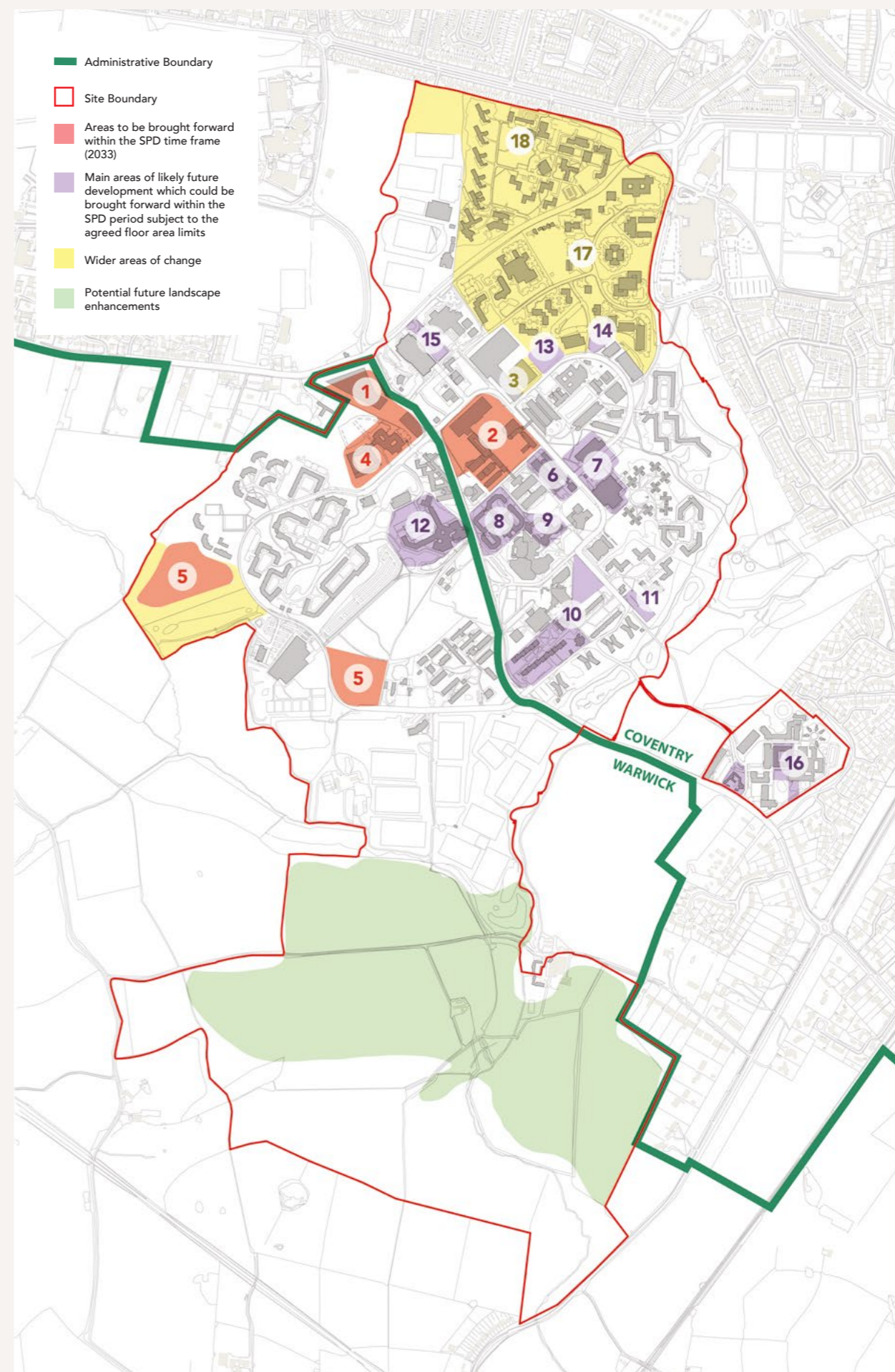
6. Humanities Building – part vacated since completion of the new Faculty of Arts
7. Sports Centre – in temporary use for examinations since completion of the new Sports Hub
8. Social Sciences block off Library Road – to be replaced by new Social Sciences Quarter
9. Senate House – may become surplus to requirements as administrative needs change
10. Whitefields and Rootes residences potential for redevelopment
11. Health Centre – dependent upon replacement elsewhere on campus
12. Radcliffe House – potential for redevelopment of MBA Training Centre
13. Land to rear of Lord Bhattacharya Building
14. Site adjoining Degree Apprenticeship Centre
15. Surface car park between Kirby Corner car park and University House
16. Gibbet Hill – older buildings in central block, retaining the farmhouse

There are two further areas of wider change which sit outside of the SPD proposals.

17. University of Warwick Science Park – consideration may be given to selective redevelopment at higher density which will need to be considered on its merits.
18. Westwood campus – over the medium to long term, there will be further change at Westwood campus and consideration will be given to a comprehensive masterplan for potentially mixed use development which again would need to be considered on its merits.

In the south-west corner of campus, land will be retained to accommodate a new route from the potential transport corridor and which would create a new gateway into campus.

PLAN 13: AREAS OF POTENTIAL CHANGE



Ecopark

To the south of campus, within the area designated as Green Belt, the University will continue to explore the creation of an Eco-Park dependent on the return of land from HS2 Ltd and any other infrastructure requirements. The Ecopark concept foresees landscape enhancement to create an accessible resource for the University and local communities including ecological assets, open recreational areas and renewable energy generation, consistent with Green Belt policy whilst remaining compliant with local and national planning policy.

Sports

The provision of open space and facilities for outdoor sport and recreation helps underpin people’s quality of life and a sense of belonging within a community. The University’s ongoing desire is for the campus to have modern, equitable, well-maintained and accessible open spaces, sports, leisure, and recreational facilities, to enable the University to enrich lives through active living and enable students to fulfil their potential through sport. This will be particularly important in circumstances where new campus developments or services are creating demand for additional or enhanced facilities.

The University currently has a mix of sports facilities on campus ranging from older buildings and amenities through to sector leading sports facilities.

The University attracts a growing population of dual-career and performance sports student athletes, which means there is a need to consider the quality and longevity of the campus’s specialist sports facilities. In addition, the University aspires to create a campus where physical activity is the norm and consider that there is opportunity to create accessible routes through and around campus which are safe for cycling, running and walking all year round.

Residential Accommodation

The University of Warwick currently provides accommodation for c7500 students on campus (as of February 2024). The University’s aspiration is to continue to investigate the increase of its stock of student accommodation and renew existing accommodation, with a view to ensuring that at least the current ratio of on/ immediately adjacent to campus accommodation to students is maintained.

The number of students attending the University is expected to grow by the year 2033. The University’s aspiration is to increase the number of student bed spaces serving the University by c1200 by 2033, either within or immediately adjoining the campus.

There are a number of locations within the SPD boundary where student residences could be considered, creating accommodation which is of high-quality set within the University campus. However, the exact amount and locations are not yet determined. Any proposals for new student accommodation would be guided by the design principles and other criteria as set out in this SPD and in the adopted Local Plans.

Students attending the University also live in a variety of other accommodation, including purpose-built student housing (PBSA) provided by private developers. Should the private sector deliver student bedspaces adjacent to the campus, in line with Local Plan policies, the University will likely reflect this in its ambitions for its own provision on the campus itself.

The provision of student accommodation either within or immediately adjacent to the campus supports students to walk and cycle to and within the campus, consistent with the University’s mobility strategy, which is explained further in the Transport and Movement section of this SPD.

All first-year students are able to live on campus if they desire. Beyond the first year, students typically move off-site, except those in accessible units who can stay throughout their studies.

From data compiled in February 2023, the spread of term-time student residences in Coventry and Warwick District is roughly as follows:

- On Campus 7,500
- PBSAs on the collar of campus 2,300
- Coventry (excluding PBSAs on the collar of campus) 10,000
- Kenilworth 400
- Leamington Spa 4,300
- Warwick 200

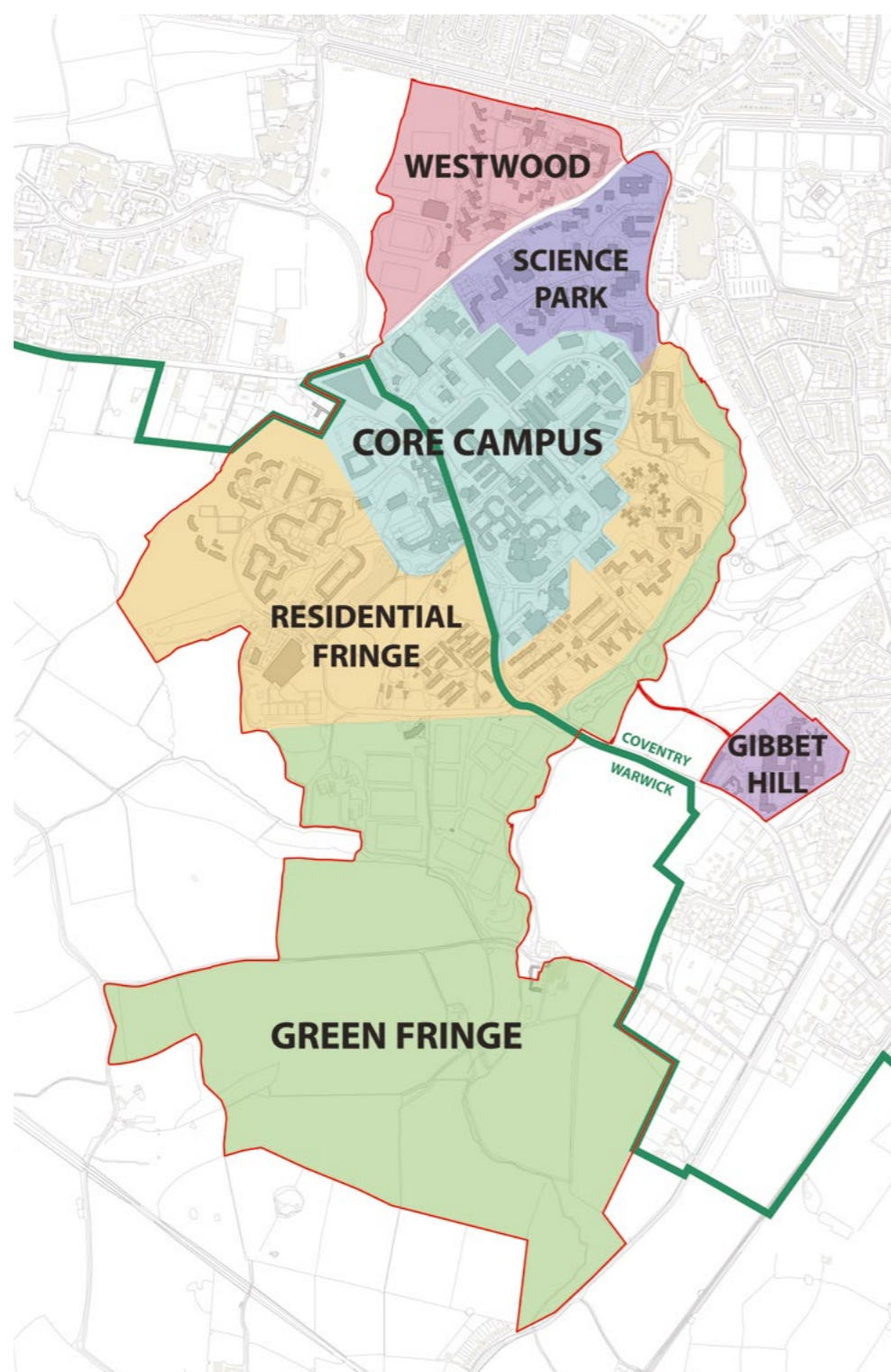
These figures are approximate, reflecting a snapshot of enrolment data.

Recent enrolment and bus usage data shows a notable decrease in students living in Leamington Spa compared to previous years and an increase in Coventry city centre and in PBSAs on the collar of campus. This reflects the availability of PBSA and students’ evolving accommodation preferences.

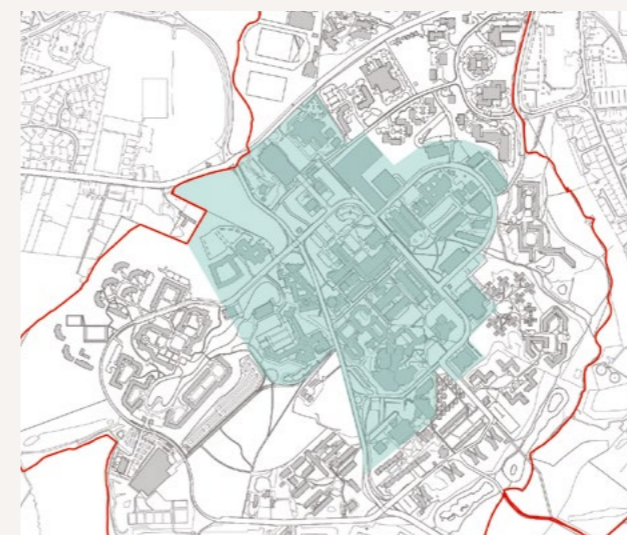
Character Areas

Strategic and design principles

To assist in applying the strategic and design principles across campus, this SPD describes the character of six areas shown on Plan 14 and provides guidance on the future development of each should other proposals come forward within the period to 2033. These reflect the long term vision for the campus to ensure consistency of approach.



PLAN 14: CHARACTER AREAS



Campus Core

As set out in DP1, the majority of academic and teaching buildings are located in the campus core identified on plan 11. There have been some significant developments within this area over recent years including the Faculty of Arts Building which was shortlisted for the Stirling Prize in 2023. Over the period to 2033, two major new building clusters will be completed – the Science Precinct and Social Sciences Quarter – alongside the formation of a new University Green. This is part of a strategy to increase the density of the campus core whilst not compromising the quality of public spaces.

The aim is for the campus core to become more pedestrian friendly with one of the primary axes diverted through the heart of campus to create a pedestrian 'High Street' with active ground floors overlooking lively public spaces (see DP2 and DP4). In addition, vehicle traffic will be minimised through the campus core with improved opportunities for active travel and more shared-space environments (see DP3).

The mix of uses in the campus core will include primarily academic and teaching space, with student facilities and some student residential accommodation, more food and drink facilities, places for public engagement, innovation and what are called 'collision' and dwell spaces to help to maintain a sense of vibrancy at different times of the day. There is scope for higher-density and taller buildings within the campus core with locations for a number of landmark buildings to assist in legibility (see DP5).



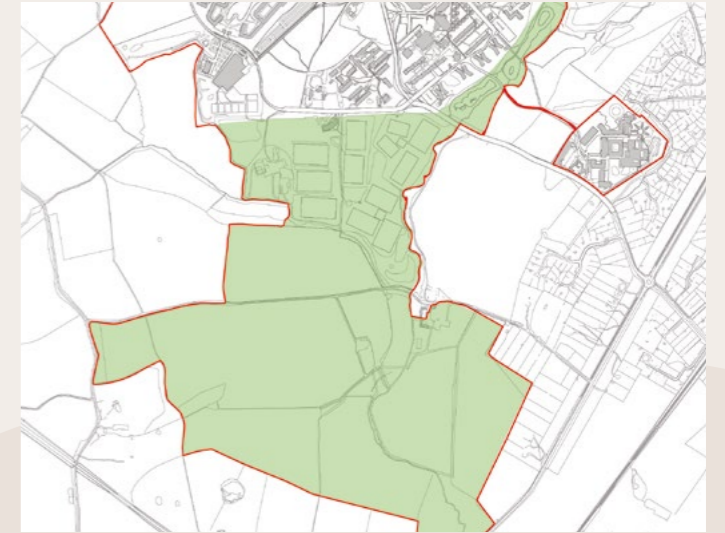
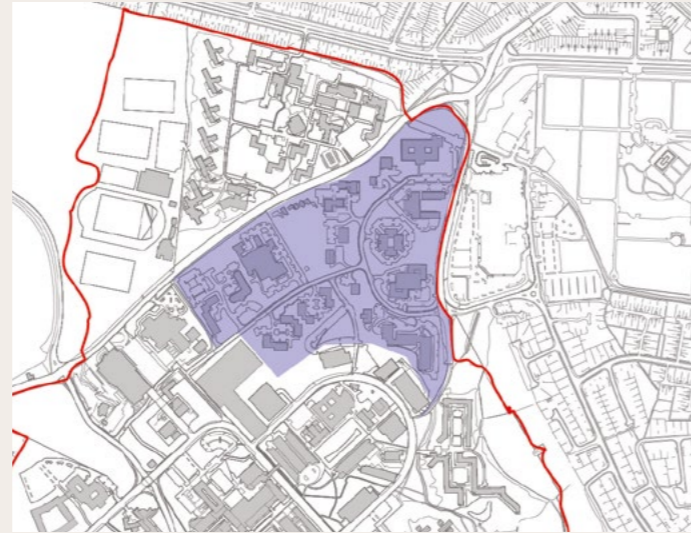
Residential Fringe

The residential fringe describes the south and east of the built-up area of campus which has a very different character. They are lower density, more domestic in scale and set within a mature landscape, in most cases bordering greenspace. Any new development will respect and enhance this character.

Development will be landscape-led, with buildings sitting within a preserved and enhanced mature landscape. However, a contemporary approach to architecture will be encouraged. The character and scale of any new buildings can vary between locations close to the campus core and the edges of campus. For example, the recent Cryfield development is sensitively designed across a range of heights to suit the landscape setting and respect mature trees.

The existing landscape character across this area will be maintained and existing trees protected. New and existing landscape will be managed to increase biodiversity (see DP6) and any new development will incorporate natural drainage features to achieve a greenfield runoff rate.

New residential accommodation will be designed to minimise car access and will include no new parking other than blue badge. Access will be via the one-way circulatory route around the campus (see DP3) to allow servicing, access to blue badge parking and emergency services. This may be accompanied by Very Light Transport (VLT) to service residents and pedestrian and cycle routes will be enhanced where possible.



Gibbet Hill

Gibbet Hill is part of the campus core because it houses Warwick's Medical School, Biomedical and Life Sciences Buildings although it sits slightly apart from main campus, separated by Tocil Wood. It includes the recently completed Interdisciplinary Biomedical Research Building.

The vision for Gibbet Hill is to enhance the connection to main campus and consolidate the existing building stock, with better connectivity between buildings and public realm, the opportunity to provide new amenity space for students and potential opportunities to incorporate SUDs into the hard landscaping. A gateway feature such as a sculpture or a green entrance could mark the access from the road.

Any development at Gibbet Hill will be in the spirit of the contemporary architecture on campus whilst sensitively responding to heritage assets, namely the Grade II* Listed Houses for Visiting Mathematicians, and the pre-existing Gibbet Hill Farmhouse. Any new buildings will be more modest in scale than the rest of the Campus Core and will respect surrounding residential neighbourhoods.

Science Park

The Science Park is owned by the University and operated by a separate company. It is situated on the northern edge of campus adjoining Cannon Park District Centre. It is characterised by low density buildings in landscaped grounds providing accommodation for research and development businesses. It is one of the earliest Science Parks in the country.

There is scope for modernisation and intensification at the Science Park in future which may include development on surface level car parks and some redevelopment. It will continue to be focussed on business and research activities related to the University, not primarily academic or residential use.

Given the difference in uses, car parking at the Science Park is treated separately from the rest of campus and would be subject to separate traffic assessment.

Westwood

The Westwood Campus was formerly the Coventry College of Education on a site across Kirby Corner Road, adjoining the residential suburb of Canley. It has had a mix of academic, conference, residential and sports uses, including the University Tennis Centre and running track.

As some of these uses are rationalised, the University is considering options for the future of the built-up part of Westwood and some redevelopment may come forward within the period to 2033. Uses are likely to include student accommodation, general housing and business/research uses linked to the Science Park but there are no firm plans.

Any development at Westwood will be more domestic in scale than the campus core, particularly around the edges of the site, to respond appropriately to neighbouring residential areas. Development will respect the landscape features and setting of the site.

Green Fringe

The green fringe includes all those parts of the University's landholdings where no significant built development is anticipated, including the Tocil Wood Nature Reserve which wraps around the eastern side of main campus. The bulk of this area lies south of Leighfield Road, which sits within the Green Belt as defined in the Warwick District Local Plan and is characterised by sports pitches to the north of Cryfield Grange Road and agricultural land to the south. A significant strip of land is impacted by HS2.

The University has an ambition to create an Eco Park in this area, providing recreational opportunities for the campus and local communities by increasing accessibility for walking and cycling, improving biodiversity (see DP6) and potentially generating renewable energy to support the Net Zero Carbon strategy. Existing trees and habitats will be retained and enhanced.

Any proposals within the Green Fringe should be set a minimum distance of 8m from the top bank of any watercourse.

Supporting Strategies

One of the main reasons for producing an SPD is to ensure that future developments come forward within the scope of campus wide strategies on:

- Transport and Movement
- Sustainability and Energy
- Ecology and Biodiversity
- Flood Risk and Drainage
- Heritage and Archaeology

Transport and Movement

Key relevant planning policy:

The NPPF notes that Transport issues should be considered from the earliest stage of plan making and development proposals so that

- the potential impacts of development on transport networks can be addressed;
- opportunities from existing or proposed transport infrastructure, and changing transport technology and usage, are realised – for example in relation to the scale, location or density of development that can be accommodated;
- opportunities to promote walking, cycling and public transport use are identified and pursued;
- the environmental impacts of traffic and transport infrastructure can be identified, assessed and taken into account – including appropriate opportunities for avoiding and mitigating any adverse effects, and for net environmental gains; and
- patterns of movement, streets, parking and other transport considerations are integral to the design of schemes, and contribute to making high quality places.

Coventry Local Plan

AC1- Accessible Transport Network

states that development proposals which generate additional trips on the transport network should promote a choice of transport modes, consider the accessibility needs of all residents and visitors, support the delivery of new and improved high quality public transport, and actively support the integration of future intelligent mobility infrastructure.

AC2- Road Network

aims to mitigate and manage any traffic growth generated by proposed development. The primary focus of the policy is on demand management measures including promoting sustainable modes of transport, and secondly on the delivery of appropriate highway capacity interventions.

AC3- Demand Management

sets out the Council's expectations for assessments, reports and parking standards for the validation of proposed development applications.

AC4- Walking and Cycling

states that development proposals should incorporate safe and convenient access to walking and cycling routes.

AC5- Bus and Rapid Transit

sets out the expectation for major development proposals to incorporate safe and convenient access to the existing bus network.

The **Air Quality SPD** adopted by Coventry City Council in 2019, provides guidance for development proposals and is relevant to Transport. The SPD states that consideration must be given to the air quality impacts associated with proposed development and that mitigation should be incorporated from an early design stage.

Warwick District Local Plan

TR1- Access and Choice

states that the Council will only permit development where it provides safe, suitable and attractive access routes for pedestrians, cyclists, public transport users, emergency vehicles, delivery vehicles, refuse vehicles and other users of motor vehicles.

TR2- Traffic Generation

sets out development Council's expectation that all large-scale development that will result in significant traffic movements will be supported by a Transport Assessment and Travel Plan where relevant.

TR3- Parking

aims to control and manage the expectations of parking provision of proposed developments.

TR4- Safeguarding for Transport Infrastructure

sets out land within the District safeguarded from development. These include the land required for High Speed Rail 2 and areas of search for park and ride.

The **Air Quality and Planning SPD** adopted by Warwick District Council in 2019 is broadly similar to the Coventry Air Quality SPD and provides guidance on local air quality, and the level of proposed mitigation required to make any scheme acceptable.

The **Warwick District Council Parking Standards** sets out the expected amount of vehicle and cycle parking to be provided for all types of development, and guidance and design principles for its integration into development proposals.

Other Considerations

West Midlands Local Transport Plan 5

The University endorses TfWM's Local Transport Plan (LTP) 5 which sets out policies to promote safe, integrated, efficient and economic transport to, from and within the region. The statutory policy has a vision "for creating safe, reliable and affordable connections for everyone that are healthy, sustainable and efficient to create great places where generations will thrive". This is to be achieved through implementing a range of plans and strategies with the overarching aims to reduce single occupancy car usage and promote public transport and active travel.

Coventry Area Strategy

As set out in TfWM's LTP Core Strategy, an Area Strategy for Coventry is being developed in partnership between TfWM and CCC to apply and tailor principles and policies from the LTP to the local area. The University will work with TfWM and CCC to identify transport interventions for neighbourhoods around the campus and along key transport corridors to support the transport and movement objectives of this SPD.



Transport and Movement Strategy

The University’s goal is to reduce indirect carbon emissions generated through all forms of transport and mobility to achieve net zero by 2050. To achieve this, the University will continue to work closely with its communities as it introduces, tests and champions greener, cleaner forms of transport.

The University identified transport and mobility as a key strategic workstream in 2018 and have been taking positive steps since then to tackle the way its community collectively chooses to travel and move goods. A close collaboration with local and regional authorities has seen the campus as a testbed for new and emerging transport technologies. For example, the Future Transport Zone partnership between the University and TfWM brought showcase project to campus such as e-scooters, car clubs, demand-responsive services which has brought about significant progress in transport innovation.

The overarching aim has been, and will continue to be, to reduce the single occupancy private vehicle usage whilst providing viable non-car alternatives for campus users to consider. This is embedded within the University’s Travel Plan which was subject to a comprehensive review and refresh in 2024, supported by extensive surveys and to be monitored biennially against ambitious targets.

When originally conceived, one of the major benefits of the campus’ semi-rural location was its accessibility by car, away from the congestion and transport issues of many cities. But nearly 60 years on, the growth of the University and of car ownership has resulted in peak hour congestion on local roads, which not only impacts on campus users who travel by car but also those traveling by bus; resulting in travel delays and capacity constraints.

Over the last five years the University has taken extensive steps to reduce car dependency and promote sustainable travel options for campus users. These targeted sustainable transport interventions have been further complimented and supported by the notable changes to travel behaviours since Covid-19.

In response to Covid-19 lockdowns the University successfully implemented blended learning (for students) and remote working (for staff). This, alongside the implementation of sustainable transport measures, new mobility trials, an updated parking policy and increased parking charges, has resulted in the following as evidenced by the 2022 and 2023 travel survey and other monitoring data collected by the University:

- Significantly fewer staff and students travelling to campus on a regular basis
- Greater proportion of staff and students travelling to/from campus outside of the peak periods
- More staff and students travelling by non-car modes when visiting the campus

There are significant long-term (post 2033) regional and sub-regional transport investments which will actively influence movement surrounding the campus on both macro and micro scales including:

HS2 and UK Central Developments

The proposed High Speed 2 (HS2) rail route will run to the south-west of the campus, providing connections between Birmingham International and London. As a result of this investment, the West Coast Main Line (WCML) will be upgraded and is expected to provide benefits to the campus through enhanced services at Tile Hill and Canley stations. HS2 is expected to be operational between 2029 and 2033 and the WCML upgrade will be undertaken in parallel. A new HS2 station along with Birmingham International Airport, National Exhibition Centre, Birmingham Business Park, and Jaguar Land Rover are the core components of UK Central. UK Central is being promoted by Solihull MBC and WMCA as a major development opportunity with the potential to deliver 4,000 homes and 77,500 new jobs.

University of Warwick Station¹

Kenilworth station, located between Coventry and Leamington Spa, was opened in May 2018 and provides improved connectivity to Coventry city centre for local residents. The Coventry Local Plan includes an aspiration to provide a second (University of Warwick) station north of Kenilworth and closer to the University near the King’s Hill development site. Delivery of the station would be subject to a number of engineering and financial challenges being overcome, including providing significant rail capacity upgrades between Coventry and Kenilworth.

¹ WCC’s Warwickshire Rail Strategy (2019): https://ask.warwickshire.gov.uk/communities/draft-warwickshire-rail-strategy-2019-2034/supporting_documents/WRIS%20DRAFT%20for%20consultation%20201934%20FINAL.pdf

WMRE Rail Investment Strategy (2022): <https://wmre.org.uk/our-strategies/west-midlands-rail-investment-strategy/>

Very Light Rail (VLR)

Very Light Rail (VLR) is a research and development project delivering an affordable light rail system in Coventry. CCC has developed an outline business case for a preferred north-east route linking the city to Walsgrave Hospital. This has enabled CCC to secure funding to support a demonstration track in Dudley to facilitate the necessary legislative sign off on use of the new technology and progress the project through to implementation and operation.

A46 Link Road

Warwickshire County Council developed a proposal for an A46 Link Road as part of a multimodal transport corridor that passed to the south of campus but was unable to demonstrate a viable case. Nonetheless, despite changes in travel behaviour, there are still critical local road congestion issues and insufficient provision for alternative modes of transport (active and public transport infrastructure) in the wider area. Consequently, there may still be a need for this to be addressed in the future both to support the University’s continued success and, subject to the Local Plan Review, other development in the surrounding area. In line with our plan to be net zero on scope 3 emissions (p24), the travel hierarchy (Appendix 1, Section 4), and delivery of our eco park (page 15), our preference would be that active and public transport infrastructure would be strongly prioritised. However, this will be a matter for the Local Plan Reviews to consider and determine and the University’s plans would respond accordingly.

The transport movement and connectivity strategy of this SPD is in accordance with the following themes:

- Reduce single occupancy vehicle trips to and from campus
- Maintain accessibility through and around campus for all users especially sustainable, non-car modes
- Support more efficient, legible and comfortable movement on campus
- Engage and incentivise behavioural change to support mobility transformation
- Offer choice and variety to all users in order to replace dependency on the private car
- Support the development of innovative and integrated future mobility solutions
- Develop sustainable transport to enhance the environmental sustainability of the campus

These major themes will continue to incorporate two key areas in order to achieve measurable and tangible modal shift:

- *“Here and Now”* – what the University can, within its control, proactively initiate to help make key evolution in the mobility and connectivity infrastructure across all transport modes in and around campus
- The *“Strategic Regional Infrastructure”* investments – working closely with transport authorities to help and support the strategic value of the Transport Corridor to the University and the region, VLR connecting Coventry to the campus area and future mobility corridors such as the cycleway connecting Leamington to Kenilworth.

Pedestrian and Cycle Strategy

Traffic congestion, vehicle speeds, parked vehicles, and vehicle-centric spaces currently create hostile and severed streets for people walking, cycling, scooting and wheeling. This undermines the campus experience through unsafe, poor quality, disconnected and non-inclusive spaces.

The approach of this SPD is to aim to reduce non-essential vehicle use on roads within the heart of the campus and the relocation of car parks to the periphery over time will free up

more space for pedestrians and cyclists. The campus will offer a much better environment with more cohesive, permeable, legible, direct, safe and accessible pedestrian and cycle routes across the campus that are guided by distinctive and inclusive wayfinding and placemaking principles.

New and enhanced pedestrian and cycle routes will be designed in accordance with local guidance and the Government’s National Design Guide, ‘Local Transport Note 1/20 – Cycle Infrastructure Design’ (LTN 1/20) and ‘Active Design Guidance’, taking into consideration the needs of all users. Opportunities to downgrade Gibbet Hill Road and reduce vehicle dominance will be a priority should alternative access solutions emerge as part of the Local Plan Review.

Interactive online maps and apps will work alongside printed signage across the campus to help with accessibility. Arrival will be better announced at campus entrances with strong gateway buildings, landscaping and artwork.

Enhanced pedestrian routes and green spaces will encourage more people to walk around campus and engage with their surroundings, leading to casual encounters and interactions, and better occupation and animation of space. Nature will be embedded into the heart of the campus and noise pollution will decrease with less vehicular activity, creating a calmer, healthier environment to improve wellbeing.

The University will continue to regularly monitor utilisation of the more than 3,500 cycle parking space across the campus to ensure sufficient provision is located where it is in highest demand.

To accommodate the expected uplift in active travel up to 2033 and beyond, adequate secure, appropriately designed cycle parking and supporting facilities (e.g., showers, lockers, changing rooms, drying rooms) will be provided as part of new developments at least in accordance with adopted local policy.

As part of delivering the SPD, the University is developing a wayfinding strategy that will enhance both on campus movements and connections to key destinations such as transport hubs and nearby urban centres. This will be achieved with intelligent positioning of buildings, creation of “landmark” developments and markers, and immersive technology. Consideration of lighting provision and CCTV form part of this programme to improve both legibility and personal safety through campus.

The University will explore, alongside Warwickshire County Council and Warwick District Council, how an equivalent scheme to the West Midlands Cycle Hire scheme might be delivered in Kenilworth and Leamington to offer the benefits of such a scheme to staff and students living in these areas.

The University will expand and adapt its softer measures to support cycling such as mechanisms to resell and maintain cycles, safety and proficiency training. It will evolve its Cycle to Work scheme to help eligible staff purchase e-bikes and mobility assisted cycles.

Promoting Wider Pedestrian and Cycle Connections

The University in recent years has contributed toward cycleway improvement schemes at both Lynchgate Road and Kirby Corner Road as well the implementation of traffic calming measures at Cannon Hill to improve road safety. The University will continue to work with CCC, WCC, TfWM and their partners such as Sustrans, to deliver new and improved active travel connections to Coventry city centre, Kenilworth, Leamington, Canley and Tile Hill stations.

To support this the University has completed a ‘Cycling Improvement Study’ and ‘Pedestrian Improvement Study’ as required by Section 106 Obligations attached to the planning permission for the Social Sciences Quarter. As well as including comprehensive reviews of the walking and cycling networks within the campus, the Cycling Study will focus on gaps and missing links between the campus and student/staff residential locations, public transport interchanges and existing/proposed cycleways. Of particular focus is the consideration of improving connections to Kenilworth Road and Kings Hill to support active travel movement linking to areas of identified growth and key cycle corridors. The Pedestrian Study has adopted a tighter geographical focus on infrastructure gaps on, and in the immediate vicinity of, campus (e.g., missing footways/dropped kerbs/tactile paving, poor lighting).



Public Transport and Shared Mobility

Public transport and shared mobility will be crucial mechanisms in driving modal shift and creating a more sustainable, pleasant campus. Removing non-essential vehicle trips from the heart of the campus will enable priority access along University-owned roads to the benefit of those using sustainable modes such as electric buses, scooting and cycling. Re-allocation of road space, where appropriate to better support bus access will make bus journeys more reliable and attractive to users, whilst continued collaboration with TfWM to support sustainable journeys through incentives, discounts and advice will help drive travel behaviour change further.

The University supports the ongoing replacement of diesel buses with electric buses across the region. Furthermore, it will continue to work with local bus operators and authorities to help make public transport more desirable to those accessing the campus from key connections such as Coventry rail station. This will be based on the following themes:

- dynamically adapting capacity to accommodate changing demand
- aligning bus and rail timetables to provide efficient onward travel
- making public transport travel cost effective for staff and students
- creating University-based bus services that connect staff and students better, also supporting the wider community
- evolving the University service to create a service that is on-demand and complement fixed services
- create a simple, low-cost and seamless environment for all users with one mode of payment for these services

Demand Responsive Transit (DRT) combines the cost effectiveness of bus travel with the convenience of personal mobility services such as private hire and taxis. The University will continue to support TfWM's West Midlands Bus On Demand service and consider how similar services might enable last-mile transport across the campus and connect with local areas in the future.

Such services will:

- Complements fixed network services to reach areas where other options are limited
- Complements fixed network services in terms of seamless connectivity when using multiple modes to travel
- Support the campus's mobility hubs by connecting these to the heart of the campus where private vehicle access will be restricted
- Support special events when demand for transport services increases to help support existing provision

The University will continue to support the delivery of a VLR route between Coventry city centre to the University, which could also connect with existing and proposed mobility hubs and peripheral parking. The University will work closely with CCC to promote a dedicated VLR link to the main campus and will continue to collaborate with TFWM on new innovative transport solutions for the region.

A shift in modal share towards shared mobility will require a wholesale review of the University Interchange to establish whether it can accommodate the anticipated increase in public transport demand. Working with local authorities, and within the design parameters set out in this SPD, the University Interchange will become an expanded gateway to the campus and visually highlight the area as the most convenient method to get to the centre of the University.

The University currently has four car club vehicles (two electric, two hybrid), operated and maintained by Enterprise Car Club, which are available free of charge for business travel only. The University will explore how this scheme could be expanded to reduce business and other private car travel and ownership by staff and students.

Car Parking Strategy

Through previous masterplans, planning applications and associated Section 106 Agreements, a 'cap' on the number of parking spaces to be provided on campus has been agreed, assessed and mitigated.

Pre-Covid, parking utilisation was typically above 90% during term-time weekdays. However, parking surveys show that utilisation since the lifting of pandemic restrictions and the University's implementation of blending learning/remote working has consistently been around 40%. During the busiest term-time weekday periods there are over 3,000 parking spaces vacant across the campus.

The University has implemented significant changes to the parking tariffs by moving to daily charging to reduce vehicle traffic on campus to enable measures to encourage active travel.

Furthermore, all car parks have become "cashless" and automatic number plate recognition (ANPR) has been introduced to all car parks to create a systems-based permitting/charging structure.

The SPD proposes no change to the parking cap, and over time the University will continue to move car parking towards the periphery of the campus, whilst ensuring essential accessible parking supports existing buildings and new developments. The University will endorse the principles of 'Park Mark' which sets out guidance to achieve safe, legible parking environments. <https://parkmark.co.uk/>

The University regularly monitors utilisation of its electric vehicle charging infrastructure and, in light of high utilisation, is currently expanding provision across existing car parks. New car parks will ensure adequate provision of electric vehicle charging.

Delivery, Servicing and Waste Strategy

Servicing and deliveries are a large generator of vehicle movements on campus. They also contribute to the large number of vehicles parked across the campus, particularly within the core while specialist University or independent tradespeople undertake their work.

The STEM application proposes to consolidate delivery and servicing activity primarily in a new servicing area accessed from Gibbet Hill Road, with activity relocated from existing piecemeal servicing areas across the STEM site.

The University will continue to apply principles of remodelling, reducing, rerouting and retiming of delivery and servicing activity across the campus. This will serve to reduce road danger, noise and emissions from such activity.

The University's aspiration is to deliver this strategy through implementation of a hub and spoke servicing network with a new consolidation centre on the campus periphery which would allow for a large proportion of campus deliveries to be processed the 'last mile' being completed by smaller electric vehicles or cargo bikes to reduce the number of large motor vehicle movements in the heart of the campus. There will be exceptions to this approach for, for example, time sensitive or servicing of critical or highly sensitive scientific instruments and manufacturing equipment.

PLAN 15: TRANSPORT ROUTES AND CONNECTIONS

Mobility Hubs

The University has a number of mobility hubs around the campus providing access to shared, publicly accessible transport such as e-scooters and e-bikes, alongside cycle parking and other sustainable transport provision. In the future, these hubs will act as designated stops for campus micro transit to provide for longer trips and connections to local destinations.

Mobility hubs will continue to provide interchange and integration between existing and emerging modes across the campus, alongside real-time travel information and, for examples, parcel lockers.

Beyond 2033, as campus car parking is moved towards the periphery of the campus, the new car parks will act as mobility hubs to provide convenient access for onward travel around the campus. A series of smaller mobility hubs will be dispersed around campus and no more than five minutes' walk from any building.

Approach to traffic modelling

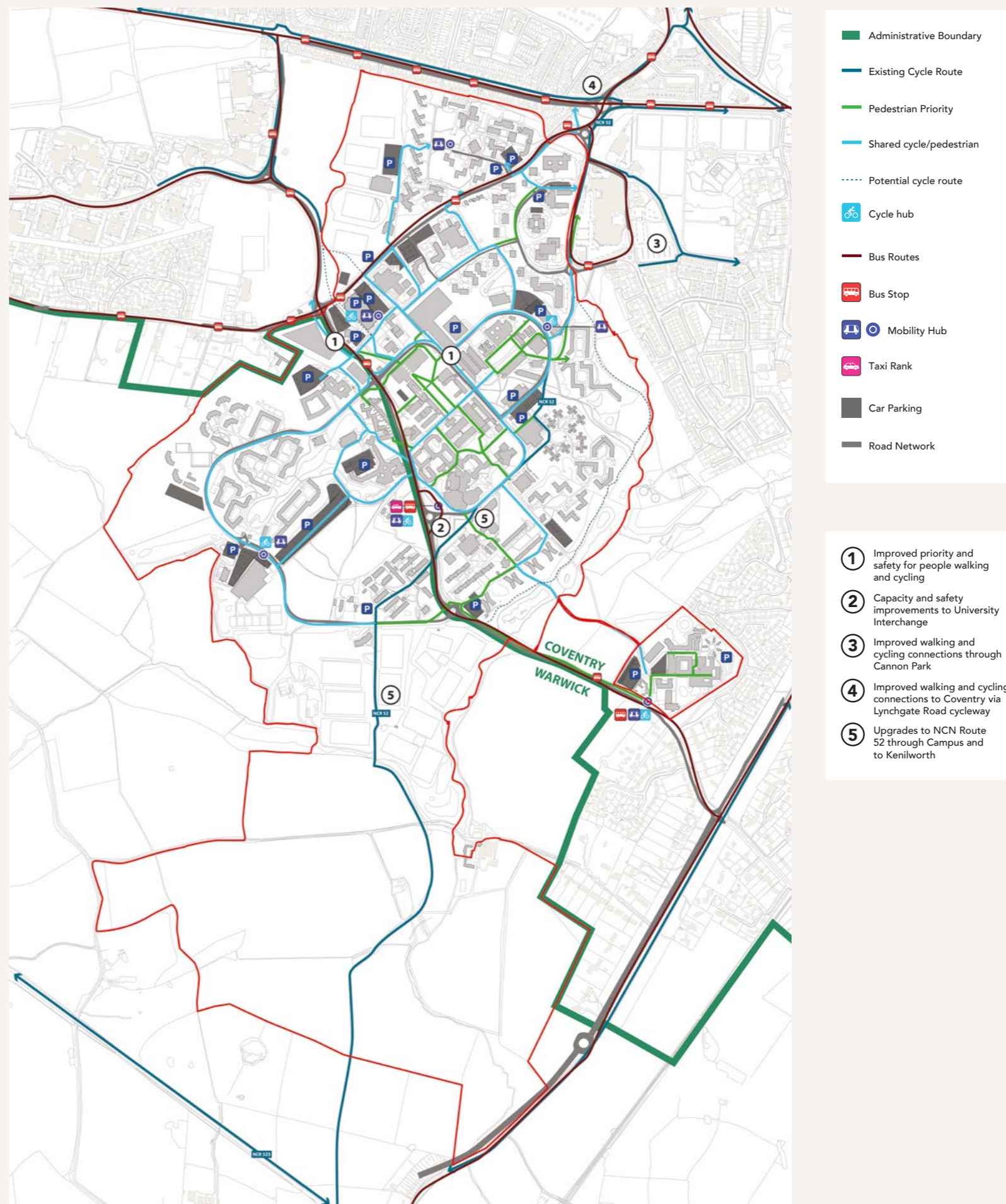
The approach to trip generation and traffic modelling, which has been completed using WCC's Kenilworth and Stoneleigh Wide Area (KSWA) model, has been subject to extensive scoping discussions with the transport authorities.

The detailed methodology and modelling results are summarised on the following page. The full modelling assessment report is available to review as supporting information on the consultation website.

Trip Generation and Traffic Modelling

The proposed development comprising the SPD is summarised in Table 1. These include the:

- Outline permission for Warwick Social Sciences (WSS) for up to 32,000 sqm GIA Use Class F1(a). As agreed with the local authorities, this utilised 19,457 sqm residual floorspace from the Capital Plan Hybrid (CPH) permission (ref: OUT/2018/2115 alongside a commitment by the University in the associated section 106 Agreement, to vacate 12,600 sqm within an Existing Social Sciences Building elsewhere on Main Campus.
- The hybrid application for the Science and Engineering Precinct (STEM) (ref: PL/2023/0002402/OUTM pending determination) for up to a net additional 17,946 sqm GIA Use Class F1(a)



To provide additional robustness and flexibility above the expected maximum floorspace, the SPD trip generation and modelling is based on an additional 31,000 sqm GIA Use Class F1(a) floorspace, 7,196 sqm above the actual expected additional floorspace of 23,804 sqm.

Table 1: SPD additional floorspace (sqm) calculation

Proposed Works	Use Class F1(a) GIA sqm
Demolition / Vacant	38,093
New Build / Refurbish	81,354
Net Additional SPD	+43,261
CPH Residual	-19,457
Actual Additional SPD	23,804

Trip generation for the academic floorspace is based on a first principles approach considering maximum building occupancies for the proposed new and refurbished buildings including WSS and the Science and Engineering Precinct. These buildings will comprise a blend of general teaching, specialist teaching, research labs and workplaces. Bespoke trip rates for undergraduates, postgraduates and staff have been derived and mode shares are based on the University's 2023 travel survey. The methodology has been agreed in principle by CCC, WCC and NH as part of detailed stakeholder engagement.

Alongside academic floorspace, the SPD proposes up to 1,200 student bedspaces – a 16% increase from the existing 7,487 bedspaces. Additional bedspaces enable students to walk or cycle across the campus rather than make external trips from outside the campus on the local transport networks, which provides significant benefits to capacity and congestion.

In order to consider a robust worst-case scenario, as part of the traffic modelling additional bedspaces (which will reduce external trips due to internalisation) will not be incorporated. Several scenarios have been modelled and assessed. The worst-case scenario assesses the SPD's additional trips in a 2037 future year with associated committed development and background traffic growth. The local highway network has areas of congestion and delay prior to inclusion of the SPD, with modest increases in traffic having disproportionate impacts. However, the SPD would not materially alter queuing or delay across the local or strategic road networks. The full 'SPD Trip Generation and Modelling Assessment' report is available to review as supporting information on the consultation website.

The quantum of development provides an upper limit of 31,000 sqm GIA for academic floorspace against which future applications can be considered. Where applications fall within the floorspace limit, there should be no need for additional traffic impact assessment. Furthermore, consideration should be given to the quantum of additional bedspaces that have been constructed to offset any additional floorspace above 31,000 sqm GIA.

The Monitor and Manage approach² and legal mechanism will provide the basis for identifying any mitigation measures considered necessary to address the specific impacts of any proposal being considered by the local planning and highway authorities. Where development comes forward outside of these floorspace limits or for uses not assessed through the SPD (for instance, proposals on the Science Park), a separate Transport Assessment should be scoped and submitted with any planning application following the principles set out in the Monitor and Manage approach.

The conclusions of the traffic modelling demonstrate that additional University vehicle trips are less than two vehicles per minute during the busiest peak hours, which is not a material change. The modelled highway network in WCC's KSWA model is highly sensitive and there are high growth assumptions up to 2037 without the SPD. Consequently, with the addition of a small number of University vehicle trips as a result of the SPD, there is some additional queuing and longer journey times in some locations. Given the limited impacts of the SPD, it is agreed with CCC, WCC and NH that no highway mitigation is required and the SPD would not have an unacceptable safety impact or severe residual cumulative impact on the local highway network or strategic road network.

² A Monitor and Manage approach builds on a change in attitude to the issue of travel and movement. It seeks to stop using past traffic trends to determine the future need for infrastructure, as this maintains the status quo by perpetuating dependence on cars. This enables more positive transport planning and helps implement a hierarchy of users by considering walking, cycling and public transport upfront and supporting net zero ambitions. A fundamental part of this approach is the need to monitor travel behaviour over time and manage the implementation of targeted transport interventions to support sustainable travel.

Monitor and Manage Approach

Over recent years, planning permissions on the University campus have been subject to Section 106 Legal Agreements which have obligated the University to either undertake physical works or make considerable financial contributions relative to transport works. These are summarised below:

- Travel survey of staff and students on a biennial basis for a five-year period with mode share targets for staff and students
- Regular traffic surveys to monitor whether vehicle trips to/from the University during peak periods exceed 16% growth from a 2018 baseline, with a £300,000 remedial payment required to be paid if this is exceeded – surveys in 2022 showed that morning peak period (07:00-10:00) trips reduced by 17% and evening peak period (16:00-19:00) trips reduced by 2%
- Traffic Regulation Order Contribution: £50,000 utilised by CCC for the traffic calming scheme on Cannon Hill Road
- Cycleway Contribution: £100,000 for Lynchgate Road and £50,000 for Kirby Corner Road, with the former paid and implemented by CCC
- Traffic Calming Contribution: £100,000 was paid to CCC in July 2021 for the traffic calming scheme at Cannon Hill Road which was implemented in 2023
- Highways Contribution: £650,000 was paid to WDC in July 2021 towards the Stoneleigh Road/A46 junction improvement
- Shuttle Bus: Bus service 14, subsidised by the University for two years from September 2020, was implemented in partnership with National Express Buses and now operates as a commercially viable service without subsidy from the University.

A 'Monitor and Manage Transport Sub Board' has been set up comprising representatives from the University, CCC, WCC, WDC, TfWM and NH. This group will monitor, review, co-ordinate and implement the monitor and manage set of principles in relation to all future University development activities, the SPD and associated S106 obligations. The sub board also discusses and manages transport issues and takes opportunities to foster collaboration and sharing of information to improve transport and travel within the local vicinity and encourage positive sustainable transport shifts.

A legal mechanism to support this SPD with 'Monitor and Manage' elements which set out a framework of agreed mitigations in response to changes in travel behavior will be progressed, binding members of the Monitor and Manage Board.

This will allow individual planning applications to come forward within the parameters set by the SPD, without the need for these to be subject to standalone traffic modelling and detailed assessments.

The proposed content of the legal mechanism is provided at Appendix 1

Sustainability and Energy Strategy

Key relevant planning policy:

The NPPF notes that the planning system should support the transition to a low carbon future in tackling climate change and it should help to shape places in ways that contribute to radical reductions in greenhouse gas emissions, minimise vulnerability and improve resilience; encourage the reuse of existing resources, including the conversion of existing buildings; and support renewable and low carbon energy and associated infrastructure.

Coventry Local plan

EM1 Planning for Climate Change Adaption

states that the Council will require all development to be designed to be resilient to, and adapt to the future impact of climate change. Adaptation measures include mitigation against rising temperatures, maximising water efficiency, and minimising risk to flooding.

EM3 Renewable Energy Generation

supports development proposals for renewable and low carbon energy generation technologies, and their incorporation within development proposals.

The **Energy SPD** aims to support the implementation of Policy EM2 Building Standards which states that development should be designed and constructed to the relevant building standards and meet the carbon reduction targets.

Warwick District Local Plan:

CC1 Planning for Climate Change Adaption

states development proposals will need to be designed to be resilient and adaptive to the future impacts of climate change.

CC2 Planning for Renewable Energy and Low Carbon Generation

states that new low carbon and renewable energy technologies will be supported in principle subject to set criteria including being designed to minimise the impact on adjacent land uses and local residential amenity.

CC3 Building Standards and other Sustainability Requirements

states that all non-residential development over 1000 sq.m are required to achieve a minimum BREEAM standard 'very good' unless it can be demonstrated that it is financially unviable.

Warwick District Council declared a climate emergency in 2019 and has since adopted (May 2024) a **Net-zero Carbon DPD**. The Council concluded the Main Modifications consultation in July 2023. The objectives of the DPD are to minimise carbon emissions from new buildings and to support national and local carbon reduction targets. The DPD aims to achieve net zero operational regulated carbon emissions by sequentially implementing an energy hierarchy. This hierarchy seeks to firstly reduce energy demand (by improving the building fabric); then incorporating or utilising zero or low carbon energy sources; and as a last resort, where there are residual operational carbon emissions, there will be carbon offsetting requirements.

Alongside the DPD sits the Net Zero Carbon SPD which sets out further advice and guidance to applicants and relevant stakeholders on how to comply with the DPD policies. The SPD has recently been subject to a statutory consultation in October - November 2023.

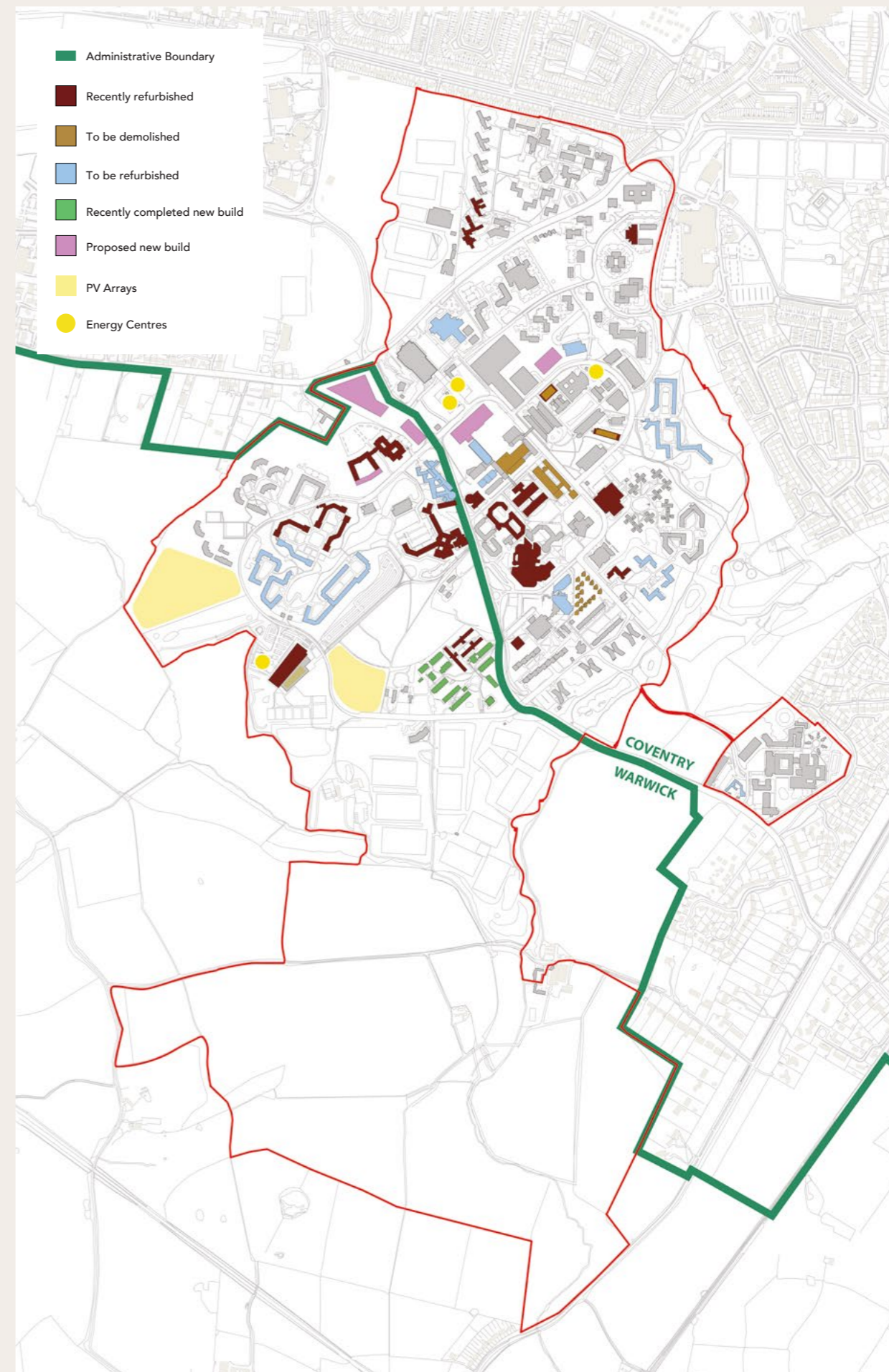
Overarching University ambition – Net Zero targets

The UN Sustainable Development Goals (UN SDGs) are fundamental to the University's vision to build a better world while addressing the urgent challenges posed by the Climate Emergency. Therefore, the University is committed to reframing the thinking behind decision making, strategic goals and organisation to set a clear pathway to a more sustainable future. The University's current approach **"the Way to Sustainable"** reflects the collective journey of continuous improvement and the important elements of curiosity, learning, engagement, collaborative planning, and action needed to achieve the most effective outcomes.

The University seeks to ensure that every member of the Warwick community, partners, and networks work together to find ways to be more sustainable through achieving the right balance between providing clear leadership, enabling cooperation, and listening to others. The University seeks to inspire and be inspired, take a practical approach to problem-solving, be prepared to be always listen and learn, be willing to tackle the wicked problems together, and to continuously evolve by doing so.

As part of the University's Climate Emergency Declaration, a commitment has been made to reach net zero carbon from direct emissions, and the energy purchased, by 2030 (Scope 1 and 2 emissions). To achieve this, carbon efficiency needs to be increased drastically in order to change to a reduction pathway. The University commits to achieving net zero for all direct and indirect emissions (Scope 1, 2 and 3) by 2050, and the success of this will mean acting differently now.

PLAN 16: SUSTAINABILITY PARAMETER PLANS





Reuse/refurbishment

In line with the University’s goals on net zero carbon, the University has a hierarchy of decision making and will look to prioritise the re use and refurbishment of existing buildings first, with buildings only being considered for demolition if they are in poor condition or not viable for reuse and demolition or if partial demolition opens up further strategic opportunities.

The University has developed a set of standards which apply to all new construction projects on the Campus, reflecting the University’s ‘low energy, low maintenance’ strategy. This is known as ‘The Warwick Standard’. The Warwick Standard provides clear leadership and sets the benchmark for how development is constructed at the University, setting out mandatory design standards which align with the masterplan for the campus. This ensures that all projects are developed and built with uniformly high standards of design which align to the University’s strategic goals.

Approach to achieving Net Zero Carbon Emissions

The University is embedding sustainability into all operations to ensure that they can operate resiliently at net zero, or beyond, by 2050 from direct and indirect emissions. In doing so, the University seeks to inspire its community, increasing collaboration with stakeholders and supply chain partners to inform and improve operations.



As such, number of Sustainable Operations have been identified in respect of Transport and Mobility, Energy, Campus construction, maintenance, and repair, ecology and Biodiversity Net Gain, reducing waste and water.



Transport and Mobility

Goal:

Reduce indirect carbon emissions generated through all forms of transport and mobility to achieve net zero by 2050. If we are going to achieve this, we need to work closely with our communities as we introduce, test, learn and champion greener, cleaner forms of transport.

Actions:

- continue to use our campus as a real-time living lab that enables us to better understand and address the needs of commuters
- accelerate plans to transform the campus transport infrastructure by improving our services, offering more greener, cleaner transport options, whilst continuing to provide better connectivity across our region
- change our policies to emphasise the need to use cleaner, greener forms of travel when travelling on University business
- continue to lead on the conception and development of future transport infrastructure (including provision of EV charging facilities where appropriate), so that we are well placed to enable and accommodate the predicted growth of the University, and our region, whilst also achieving our sustainability target.

Energy

Goal:

Our overall goal is to get to net zero carbon from the energy we use by 2030

Actions:

- transition away from fossil fuel gas supplies for on campus operations by 2030
- continue to source green electricity from the National Grid which we have done since 2020
- reduce our reliance on the grid, by selfgenerating renewable energy on campus where viable
- lead the way in creating low carbon energy networks on campus, utilising the existing energy infrastructure combined with viable emerging technologies to create an exemplar future energy network
- improve the utilisation of space across campus, where appropriate and realistically possible, through the adoption of technology and hybrid styles of working developed during the pandemic
- actively seek partnerships with organisations to assist in this transition.



Campus Construction, Maintenance and Repair

Goal:

We have aspired to high levels of building quality and performance since 2015, targeting BREEAM ‘Excellent’ and EPC A standards, well exceeding regulatory building standards. Our mission is to ensure that our new construction projects across our campuses are net zero carbon developments, and to build and refurbish our stock in an environmentally responsible manner, considering the whole life cycle carbon emissions from our real estate.

Actions:

- continue to ensure that all of our new construction projects are net zero carbon developments; we have already implemented a policy to assess the embodied carbon of our new buildings, enabling informed investment decisions to be made
- aspire to Passivhaus standard where possible and appropriate
- evaluate our options to provide new space and facilities on a whole life carbon basis, including opportunities to repurpose existing building where appropriate
- refurbish and improve our pre-2015 real estate, where we need to maintain rather than rebuild, via viable thermal improvements, green energy generation and intelligent operational controls
- improve building controls and space management systems to heat and cool spaces that we use in an efficient way
- implement sector-leading environmental building performance standards for new builds and refurbishments.

Ecology and Biodiversity Net Gain

Goal:

Our goal is to enhance campus biodiversity, targeting the mandatory requirement for 10% net gain compared with pre-development.

Actions:

- allocate a large proportion of our land holding (over 120 acres) on the main campus to re-wilding and parkland for amenity, education and, to assist our transition to renewable energy
- safeguard and enhance existing ecological assets
- encourage people (staff, students, and our local community) to engage with the natural environment through education and research.

Reducing Waste

Goal:

To reduce the total volume of waste produced by Warwick and, if that’s not possible, reuse and recycle.

Actions:

- reduce waste being produced in the first place. We will support initiatives that stop waste being created - for example the Warwick Cup scheme, the second-hand bike shop pop-up and the arrivals pop-up shops
- reuse waste that is produced. For example, we will continue to donate a significant amount of ‘clean waste’ left at the end of the academic year to charity, working with both the compliance and community engagement teams
- recycle as much waste as possible. We are already conducting an infrastructure review (containers, accessibility, collection), and a communications review to encourage more recycling behaviours. We will also improve our processes to segregate new waste streams (cardboard, cables, duvets and bedlinen, and coffee grounds), and we will build on our existing food waste collection activities
- recover waste. We will secure access to a waste to energy plant to dispose of our waste, so that we continue to ensure we send 0% to landfill. We will divert waste from landfill using dedicated material recycling facilities for large items that are not accepted at incinerator resulting in zero waste to landfill.

Water

Goal:

Reduce total campus water consumption, in the interest of reducing carbon associated with water treatment but also to ensure that we preserve this valuable resource.

Actions:

- undertake continual monitoring and targeting to support our water usage plans
- assess a suitable and alternative targeting mechanism based on possible future campus populations
- continue to evaluate the effectiveness of our drainage systems through our ISO14001 Environmental Standard
- undertake comprehensive flood risk assessments to ensure our future buildings are not at risk of flooding and do not exacerbate flood risks elsewhere, and explore and implements opportunities to reduce flood risk where possible.

Ecology and Biodiversity Strategy

Key relevant planning policy:

The NPPF describes how planning policies and decisions should contribute to and enhance the natural and local environment including by protecting and enhancing valued landscapes and sites of biodiversity value and minimising impacts on and providing net gains for biodiversity.

Coventry Local Plan

GE1 Green Infrastructure

states that existing GI will be protected and used as a way of adapting to climate change. New development would be expected to make provision of GI and maintain the quality and quantity of existing GI.

GE3 Biodiversity, Geological, Landscape and Archaeological Conservation

aims to protect and enhance SSSIs, LNRs, ancient woodlands and local wildlife and geological sites. This includes the expectation that development proposals will lead to a net BNG, protect or enhance biodiversity assets and secure long term management, avoid negative impacts on existing biodiversity and preserve species that are legally protected.

GE4 Tree Protection

states that development proposals will be positively considered where there is no unacceptable loss of or damage to existing trees or woodlands. The policy also expects removed trees to be replaced with new trees, and for retained trees to be sympathetically incorporated into the overall design. Furthermore, trees that are subject to 'protection' will not be removed without justification.

EM1 Planning for Climate Change Adaption

states that all development will be required to be designed to be resilient to climate change through adaptation measures. For ecology these include optimising the use of multi-functional GI and where appropriate BI.

The **Biodiversity Net Gain SPD** provides additional guidance on the objectives of Policy GE3, which include facilitating a net BNG, protection and enhancement of biodiversity assets and their long term management, and preserving species which are legally protected, in decline or rare within Coventry.

The **Trees and Developer Guidance SPD** establishes the Council's expected standards for development proposals with regards to existing trees. This includes retaining and incorporating high quality existing trees within proposed development schemes which will be adhered where possible and appropriate across the SPD area.

Warwick District Local Plan

CC1 Planning for Climate Change Adaption

states that all development is required to be designed to be resilient to, and adapt to the future impacts of climate change. This will include optimising the use of multi-functional GI for urban cooling.

NE1 Green Infrastructure

aims to protect, enhance and restore the district's GI assets on a sub-regional to a local and neighbourhood scale.

NE2 Protecting designated biodiversity and geodiversity assets

confirms that the Council will protect designated areas and species of national and local importance for biodiversity and geodiversity. The policy goes on to states that all proposals likely to impact these sites/ species will be subject to an ecological assessment.

NE3 Biodiversity

sets out the Council's expectation that development proposals will protect, enhance and/or restore habitat biodiversity.

Ecology and Biodiversity Strategy

The Ecology and Biodiversity Strategy is based upon the following objectives:

- Safeguard existing ecological sites
- Enhance campus biodiversity
- Sustain and enhance the Great Crested Newt (GCN) population
- Encourage site users to engage with the natural environment

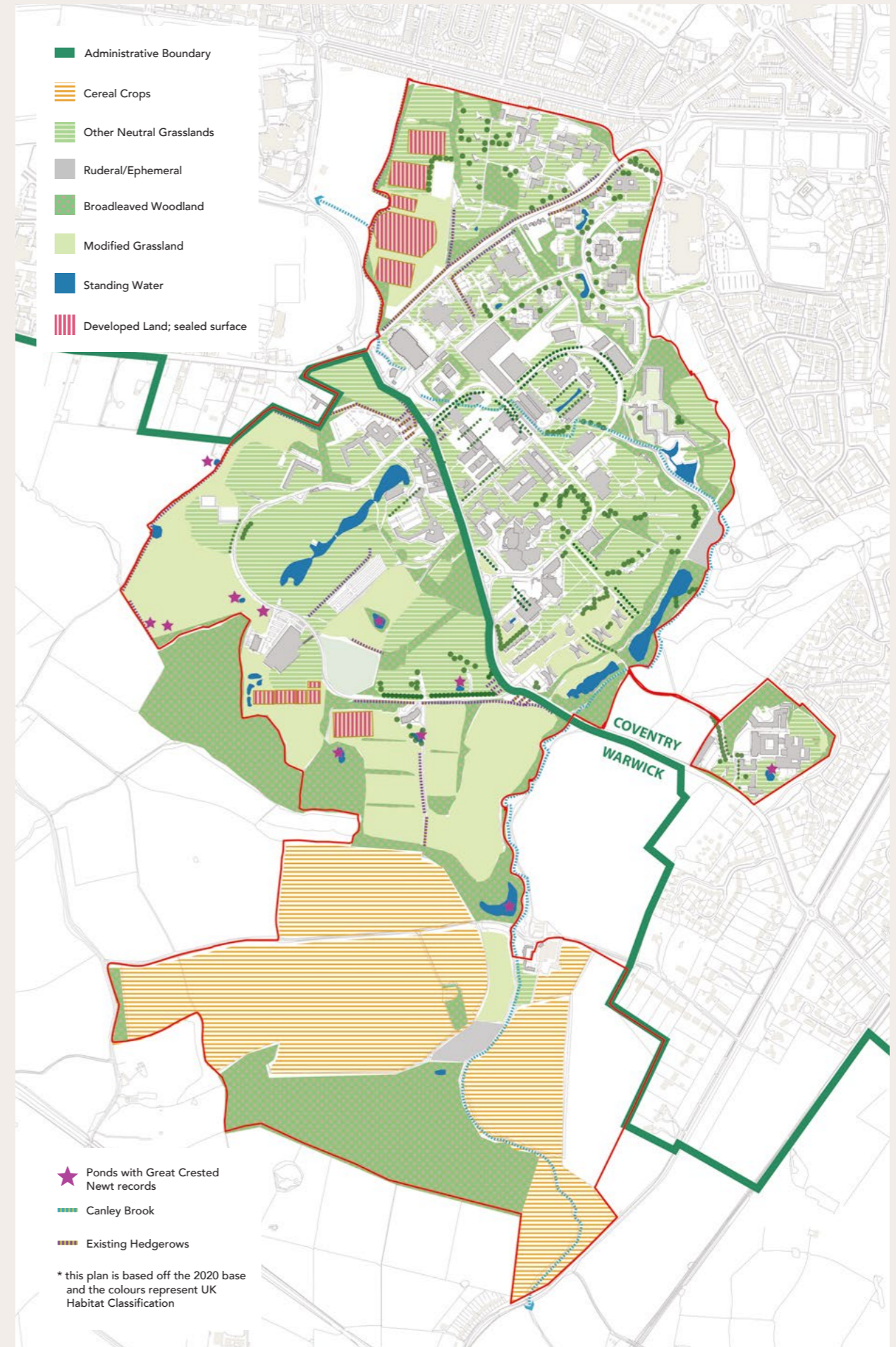
It is based upon an understanding of the Baseline ecological conditions within the SPD boundary. These are identified on Plan 17.

The University is committed to conserving and improving the habitats and species which form the campus's natural assets, and to developing campus biodiversity holistically and not as isolated resources. The SPD boundary contains a wealth of habitats including woodland, mature trees, hedgerows, lakes, ponds, brooks, meadows and open farmland. The University acknowledges the multiple benefits of the environment for health, well-being, food production, climate change mitigation and carbon sequestration.

Other relevant documents and strategies to be considered in relation to biodiversity on campus are: WDC Biodiversity Action Programme www.warwickdc.gov.uk/biodiversity

Warwickshire, Coventry and Solihull Local Biodiversity Action Plan www.warwickshirewildlifetrust.org.uk/LBAP Warwickshire, Coventry & Solihull Local Biodiversity Action Plan (LBAP) | Warwickshire Wildlife Trust

PLAN 17: BASELINE ECOLOGY PLAN



The University is committed to maximising the ecological value of its estate.

Its commitment to enhancing biodiversity is demonstrated by the numerous habitat creation and management projects that have taken place in recent years including:

- Restoring a large pond through desilting, revetment creation and marginal planting
- Taking part in No Mow May with areas left unmown throughout the summer months
- Wildflower area creation within residences as well as recently laid wildflower turf
- Hedgerow planting to create wildlife corridors; and
- Planting of 900 whips from the Queen’s Green Canopy initiative.

Biodiversity enhancements which have taken place on campus between 2020 and 2023 are shown on Plan 19. This plan also identifies locations where enhancements have been undertaken as part of planning permission approvals.

In addition to these projects, we have also started a programme of species monitoring and mapping data on GIS. For example, as part of the Hedgehog Friendly Campus initiative, for which we have achieved the silver award and are working towards gold, we have undertaken hedgehog surveys for the past two years and the surveys have been initiated this year with support from local groups and staff for small mammals, moths, pond health, and birds.

Principle of ‘banking’

The approach to habitat creation and enhancement has the potential to create an opportunity for biodiversity gains to be accounted and used to compensate for unavoidable residual impacts of a particular project. Prior to any habitat creation and / or enhancement work outside a built project boundary, a detailed ecological assessment will be undertaken to determine the necessary baseline information and a site-specific ecological management plan produced so that the creation and/ or enhancement can be calculated and used to off-set onsite biodiversity losses. A baseline biodiversity assessment will be undertaken to establish the Biodiversity Net Gain measurement following the proposed interventions.

Great Crested Newts

Great Crested Newts are protected under European and UK Law, a species of principal importance in England and a Warwickshire, Coventry and Solihull Local Biodiversity Action Plan species. A desktop study undertaken by the University show records of 9 ponds within the SPD boundary in which Great Crested Newt have been identified. These are shown on Plan 18.

The ponds which between them support a regionally significant great crested newt population, are all situated along a horizontal belt as shown on Plan 18 surrounded by grassland, hedgerow and woodland habitats which provide cover, food and dispersal routes for the species.

To safeguard the University’s GCN population, future development on campus should be focussed away from known GCN ponds and valuable GCN habitat. If impact on GCN habitat is unavoidable, appropriate mitigation measures to be agreed with the relevant Local Authority will be provided.

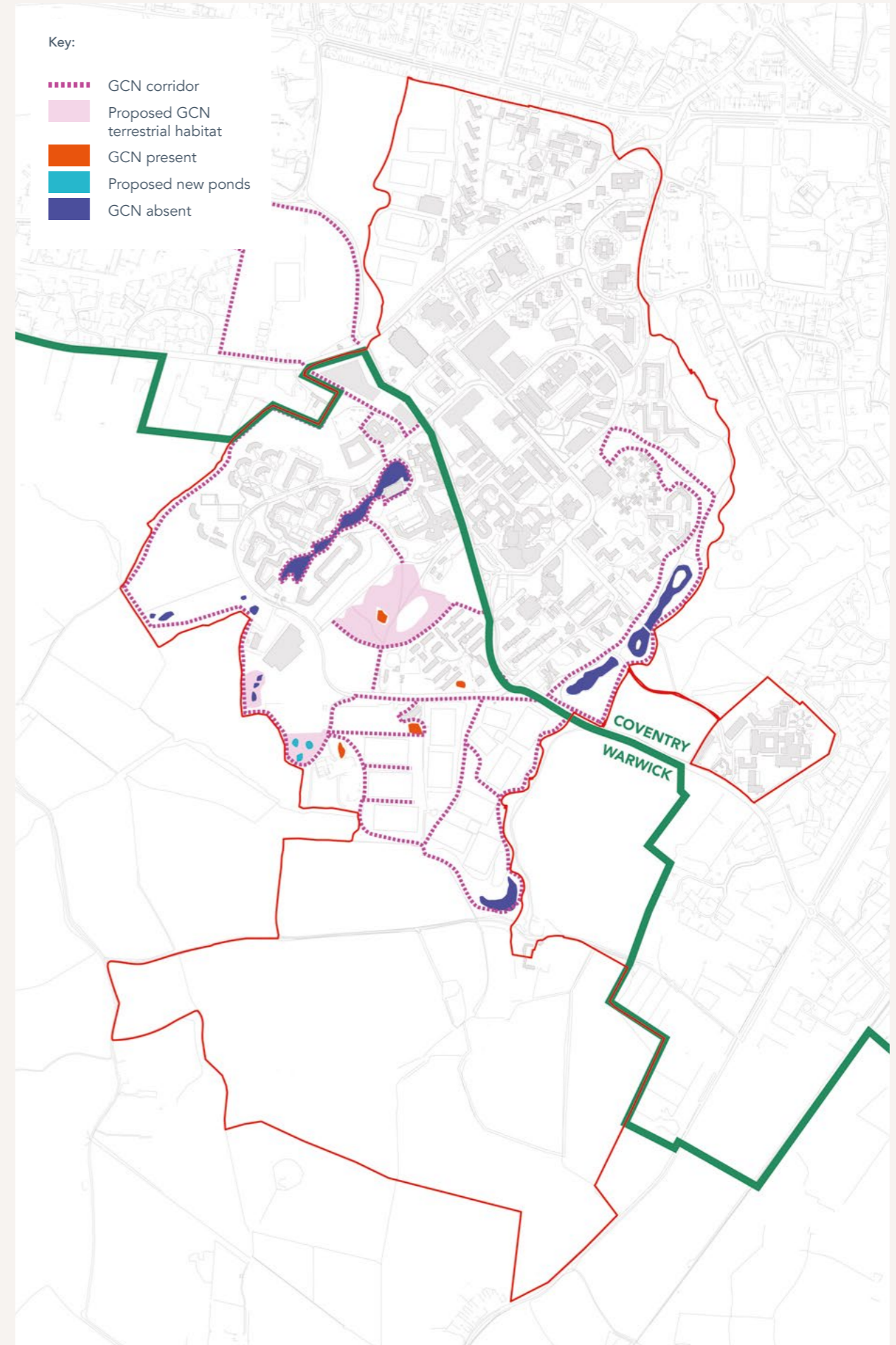
The campus provides opportunities for the GCN habitat to be enhanced. In line with the enhancement strategy, the University will continue to monitor GCN’s across the campus to measure the success of the GCN site conservation and enhancement measures and to inform future development.

Biodiversity Net Gain – principle of campus wide approach

It is noted that Biodiversity Net gain is mandatory under Schedule 7A of the Town and Country Planning Act 1990 (as inserted by Schedule 14 of the Environment Act 2021).

The University’s Way to Sustainable Strategy commits to achieving a 10% biodiversity net gain on campus with an overarching aim that the delivery of projects will result in biodiversity being in a better state than before. We will work to ensure a minimum of 10% is achieved for all projects regardless of their size. When identifying and implementing projects to enhance the campus for biodiversity we will be informed by the Local Nature Recovery Strategy and in its absence, the Warwickshire, Coventry and Solihull Local Biodiversity Action Plan (BAP). The University will work with partners to develop the campus to support priority habitats and species where possible, and in turn to support nature’s recovery.

PLAN 18: BIODIVERSITY - GREAT CRESTED NEWTS PLAN





The University will prioritise the following habitats from the Local Biodiversity Action Plan

- [@ Built Environment \(revision in progress 2021\)](#)
- [@ Field Margins \(updated November 2021\)](#)
- [@ Hedgerows \(updated November 2021\)](#)
- [@ Lakes and Reservoirs \(updated 2021\)](#)
- [@ Ponds \(revised March 2022\)](#)
- [@ Reed beds \(updated March 2022\)](#)
- [@ Rivers and Streams \(updated February 2018\)](#)
- [@ Roadside Verges \(updated August 2021\)](#)
- [@ Traditional Orchards \(updated November 2021\)](#)
- [@ Woodland \(updated November 2021\)](#)

The University will prioritise the following species from the Local Biodiversity Action Plan

- [@ Barn owl \(updated April 2022\)](#)
- [@ Bats \(revised March 2022\)](#)
- [@ Farmland Birds \(updated August 2021\)](#)
- [@ Great Crested Newt \(revised March 2022\)](#)
- [@ Hedgehog \(updated 2021\)](#)
- [@ Rare Bumblebees \(updated December 2021\)](#)
- [@ Song Thrush \(updated 2021\)](#)
- [@ Scarce Arable Plants \(updated December 2021\)](#)
- [@ Water Vole \(updated December 2021\)](#)



Approach to delivery of Biodiversity Net Gain

The University is in a unique position in that they have extensive landholdings making up the wider campus as included within the SPD boundary. It is therefore appropriate that a hierarchy approach is created in this SPD to manage the appropriate delivery of Biodiversity Net Gain.

The approach is set out below:

1. Utilisation of enhancements already banked subject to satisfactory justification that such enhancement have not been double counted
2. Provision of mitigation to achieve 10% net gain within the application site
3. If (1) and (2) are not possible, or can only be partly achieved, provision of mitigation to achieve 10% net gain within the administrative area in which the application is located
4. If (1), (2) and (3) are not possible, provision of mitigation to achieve 10% net gain elsewhere within the SPD boundary
5. If no suitable land is available within the SPD boundary, provision of mitigation will be made on other University landholdings.
6. Off site mitigation by way of financial contributions to BNG initiatives locally within the administrative areas of Coventry City Council or Warwick District Council (to be agreed by both local authorities).

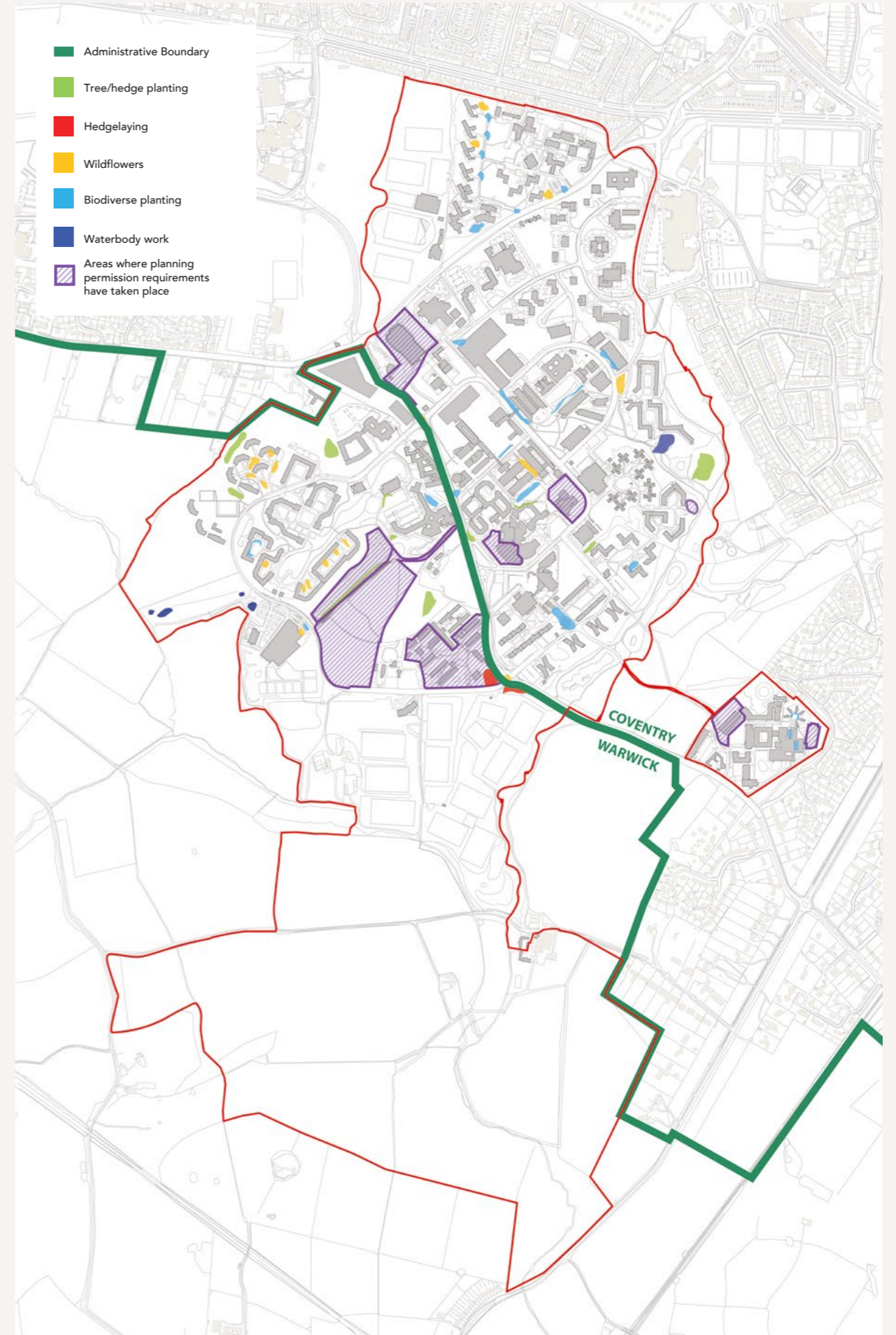
Future Campus Ecology and Biodiversity Enhancements

Introduction

Future enhancements for ecology and biodiversity will be addressed through the creation of an ‘ecopark’ to the south of the campus; proposed habitat creation and wildlife enriched interventions within existing areas of the campus; and proposed biodiverse planting alongside new developments. The ecology and biodiversity enhancements should be chosen to support species noted within the Warwickshire, Coventry & Solihull Local Biodiversity Action Plan (LBAP), including farmland birds, hedgehog, great crested newt, bats, small mammals, amphibians and invertebrates. Specific ecological interventions will be guided the LBAP, and the Local Nature Recovery Strategies once they are published.

The key habitats and biodiverse features which will be considered for future enhancements comprise of the following:

PLAN 19: ECOLOGY AND BIODIVERSITY ENHANCEMENTS



Broadleaf Woodland:

Native woodland tree saplings of local provenance will be planted in groups to strengthen existing woodland belts and copses, in order to strengthen ecological corridors and provide refuge for wildlife. Proposed new pockets and linear plantations of woodland tree species will be located in quieter areas and boundaries of the site where they can establish as mature trees, and connect with existing woodland features, strengthening existing habitat present within and adjacent to the campus. Native understory planting should be introduced beneath larger copses of new tree planting. Saplings will be spaced a approximately 2.5m, and species will include both canopy and understory varieties.

Proposed individual trees:

Individual specimen trees, groups of trees and linear street tree planting will enhance the public realm and amenity areas of the campus. Species will include flowering and fruiting varieties to provide a food source for wildlife, and a diversity of species to enhance visual amenity.

Hedgerows:

New hedges will provide a habitat for a variety of species as the dense branches and foliage provide cover and refuge, and berries will provide a food supply for a variety of wildlife. The hedgerows create sheltered movement corridors for wildlife across the site and into the wider landscape. New hedgerow planting will comprise a variety of woody species with herb-rich hedge margins to maximise the variety of wildlife they will support, such as hedgehogs. The new hedgerows will be positioned to provide new migratory routes and strengthen those that already exist, both along the boundary and within the campus.

Wildflower meadow (semi-improved grassland / neutral grassland):

New native wildflower meadows will be created within the site to benefit invertebrates, small mammals and birds. Areas of existing enriched grassland which support low floral diversity will be managed to remediate the enrichment through annual mowing and supplementary seeding to accelerate the creation of a diverse flora akin to a more neutral sward. Floral meadows containing a combination of native and non-native nectar-rich flowers will be used to enhance the central campus amenity spaces and green space margins. Fields margins will be managed to enhance their biodiversity value, sown with native species to provide seed for wild birds or with wildflowers or agricultural legumes to provide pollen and nectar resources for invertebrates. The current species poor roadside verges will be managed to provide a more diverse flora. The management will involve annual cutting with supplementary wildflower seeding and plug planting. 'No-mow' grass verges will increase species diversity. Care will be taken to avoid invasive species and those which are susceptible to diseases such as Phytophthora, Acute Oak decline, and bleeding canker. Plants will be UK grown where possible, and will be sourced from nurseries that are part of the 'Plant Healthy' scheme.

Water course / water bodies:

In order to improve the diversity of water bodies / wildlife ponds, the marginal habitats will be enhanced with a mix of plant species which will provide cover and sources of nectar. The marginal habitat and species diversity will be enhanced using seeding supplemented with plug planting or through the installation of pre-planted coir mats to provide instant vegetation to the margins. Further naturalisation of the Canley brook would create more permeability for species which depend on linear water features. Planting to reinforce the existing bankside vegetation and create more structure and diversity would also provide benefits for other small mammals, birds and invertebrates within the site.

Biodiverse swales and rain gardens:

New developments are to prioritise the use of surface water attenuation / surface water attenuation (SuDS), to create vegetated swales and rain gardens. Planted swales will promote infiltration and reduce run off rates and volumes. A variety of plant species, both native and non-native, will be introduced for visual interest and to provide a valuable wildlife habitat.

Biodiverse Planting:

New biodiverse planting within residential areas central campus will support wildlife, boost biodiversity and create seasonal longevity. Plant selection will prioritise a rich source of nectar for beneficial insects, birds and small mammals, including species with spring blossom and berries. British native species will be supported by nectar-rich ornamental species, to extend the flowering season and create a planting matrix which will be easily manageable, with seed heads retained during winter. Spring flowering bulbs will enhance areas of amenity grass. Within residential areas of the site will include the introduction of bio-diverse edibles / herb beds.

Building biodiversity into Architecture:

The provision of green roofs and walls, biodiverse landscapes and nesting / roosting boxes will provide refuge and foraging habitats for a range of species, whilst creating stepping stones for wildlife to migrate across the site. Architectural green infrastructure including green and blue roofs, green walls, bird and bat boxes in building infrastructure will furthermore enhance the built environment. These features will be considered retrofitted to existing buildings where appropriate, and for new builds.

Artificial Refugia:

Strategic positioning of bird and bat boxes and hibernaculans within existing trees, semi-improved grassland, woodland, field and water margins, will increase the diversity of fauna within the site. Types of hibernacular could include, but not limited to, insect 'hotels', hedgehog homes, artificial bat roosts and bird boxes.

Flood Risk and Drainage Strategy

Key relevant planning policy:

The NPPF states that inappropriate development in areas at risk of flooding should be avoided by directing development away from areas at highest risk (whether existing or future). Major developments should incorporate sustainable drainage systems unless there is clear evidence that this would be inappropriate.

Coventry Local Plan

EM1 Planning for climate change adaption

states that all development will be required to be designed to be resilient to climate change through adaptation measures. For flood risk and drainage, this means optimising the use of multi-functional GI for local flood risk management, minimising vulnerability to flood risk by location of development in low flood risk areas and including mitigation measures.

EM4 Flood Risk Management

states that all development proposals will be assessed in respect of the level of flood risk from all sources. Development will need to provide a minimum standard to flood defence and resilience and not increase flood risk on site or elsewhere to reduce overall flood risk.

EM5 Sustainable Drainage Systems

aims to ensure all development apply SuDS to ensure surface water runoff is managed as close to its source as possible.

Warwick District Local Plan

CC1 Planning for Climate Change Adaption

states that all development is required to be designed to be resilient to, and adapt to the future impacts of climate change. This will include optimising the use of multi-functional GI for local flood risk management and minimising the vulnerability to flood risk by locating development in areas of low flood risk.

FW1 Reducing Flood Risk

aims to ensure development is located in areas of low flood risk, and ensuring all new development is resilient to surface water, fluvial and pluvial flooding.

FW2 Sustainable Drainage

states that all major developments must incorporate SuDS that provide biodiversity, water quality and amenity benefits. The policy also states that all new development sites will discharge at QBAR greenfield run-off rate, including an allowance for climate change.

Baseline conditions / drainage model

The majority of the SPD boundary is identified as falling within Flood Zone 1 of the Environment Agency's Flood Risk Map for Planning. This is recognised as the area with the lowest risk of flooding. Part of the southern area, at Tocil Wood, lies within Flood Zone 3 – the Canley Brook floodplain. Notably the existing flood risk map for planning only includes large catchments as such water courses are not modelled and separate modelling is being undertaken by the University.

The campus benefits from its rural location with a relatively large amount of green space and differing ecological habitats. A large number of the ecological features on site are also provided as part of the water management strategy.

Sustainable Drainage Systems (SuDS) are the main flood mitigation strategy in use within the campus. There are many existing SuDS features on site including ponds, swales and filter trenches. These features can be re-used and improved to accommodate additional surface water runoff, with additional SuDS features added to the campus.

Water and Surface Water Network

The surface water network can be split into two main sub-catchments:

- Westwood Brook Sub-Catchment
- Whitefield Coppice Sub-Catchment

Both sub-catchments ultimately drain to the south of the University and into the Canley Brook. The Canley Brook flows between the Central Campus and Gibbet Hill Campus in a south westerly direction before discharging further downstream into the Finham Brook. Canley Brook is a designated main river by the Environment Agency. There is also a smaller sub-catchment located on Gibbet Hill.

Westwood Brook Sub-Catchment

The Westwood Brook flows from the north to the southeast through the sub-catchment either through a series of culverts or via open channel flow.

The majority of the University's built environment is in this sub-catchment, therefore there are a number of outfalls that discharge directly into the Westwood Brook. Further north at the Westwood Campus, surface water is discharged via the Severn Trent public network into a tributary of Westwood

Brook. More recent buildings have individual attenuation structures to control the volume and rates of discharge.

The existing surface water network draining into the Lakeside and Heronbank ponds flow across to the Westwood Brook sub-catchment and discharges into the Westwood Brook via a surface water pumping station located in front of the Engineering Block on University Road.

There are ponds located adjacent to Tocil Wood. It is noted that these are aesthetic and not considered to be used for surface water attenuation as they are located within the Canley Brook floodplain.

Whitefield Coppice Sub-Catchment

This sub-catchment is mostly drained by a small watercourse to the east of Whitefield Coppice, which as previously noted drains into the Canley Brook.

The Lakeside and Heronbank ponds are only partly used for the attenuation of surface water runoff from some of the Lakeside residences. The remainder of the Lakeside residences and Heronbank are attenuated in four below ground detention tanks, with two of these being pumped into the ponds. As previously noted, all flows from the ponds eventually drain to the surface water pumping station in the Westwood Brook sub-catchment before discharging into the Westwood Brook.

There is a small natural pond behind the Heronbank buildings on the Hill Top site. It is not used for attenuating surface water runoff. The location of the pond suggests there is a potential flood risk for the Heronbank buildings during extreme storm events resulting from surface water shedding from the elevated Hill Top site.

Flood Risk

A study of the EA's online flood map, 'Risk of Flooding from Surface Water', suggests that the majority of the SPD boundary lies in a very low risk area with some medium and high-risk areas across the campus.

The majority of the University's built environment is located in the Westwood Brook sub-catchment and therefore it is important to understand the potential flood risk from the Westwood Brook. A detailed hydraulic analysis was undertaken in 2007 and updated in 2013 so that the 1 in 100-year floodplain for the Westwood Brook could be determined. The results of the analysis confirmed that no buildings were impacted by Westwood Brook up to the 1 in 100 year plus 20% climate change event.

The Westwood Brook Hydraulic model has been updated to reflect modern modelling standards and current climatic conditions to inform the flood extents within the campus in line with Environment Agency and Lead Local Flood Authority requirements.

The Westwood Brook Hydraulic model has been updated to reflect modern modelling standards and current climatic conditions to inform the flood extents within the campus in line with Environment Agency and Lead Local Flood Authority requirements. The new hydraulic model includes local enhancements of watercourse connectivity within the campus and updated hydraulic rainfall estimates to generate a revised set of flood risk outlines. The updated model demonstrates that surface water flooding has reduced compared to national mapping due to the representation of culvert connectivity through the campus.

Any future development within the campus should refer to the updated hydraulic model report as the baseline for the assessment of surface water flooding across the campus.

There are no concerns about floodplain encroachment for the Whitefield Coppice sub-catchment, as the sub-catchment is topographically elevated above any such constraint.

The discharge of surface water from a new development will take into consideration the drainage hierarchy with infiltration being the preferred option and discharge to a combined sewer being the least favourable.

SUDS should be incorporated into the design of new development to manage and control runoff unless there are practical reasons for not doing so. Consideration should be given to the use of source control features as part of a treatment train to improve water quality prior to disposal off-site. A Flood route exceedance plan should also be provided to show how flooding could be managed in the event of a blockage or a storm that exceeds the design event of the infrastructure.

Sequential/Exception test

New developments should be located in areas at low risk of surface water and fluvial flooding. In areas where this cannot be achieved, suitable evidence will need to be provided to demonstrate that there are no other alternative sites within the University of Warwick campus that are suitable for the development. Any residential development to be located in a high-risk flood area will also need to pass an Exceptions Test. If required, both a Sequential Test and Exceptions Test will need to be submitted at the planning stage to support the FRA.

Sustainable Drainage Systems (SuDs)

Future development within the SPD campus will prioritise the use of SuDs. The overarching aim is to reduce run off rates and where possible deal with surface water as close to its source and incorporate biodiversity into schemes. The landscape context of the SuDs will be taken into account as well as the engineering requirements.

Where infiltration SuDS are to be used for surface run-off from roads, car parking and public or amenity areas, they should:

- be suitably designed
- meet Governments non-statutory technical standards for sustainable drainage systems – these standards should be used in conjunction with the National Planning Policy Framework and Planning Practice Guidance

- use a SuDS management treatment train –use drainage components in series to achieve a robust surface water management system that does not pose an unacceptable risk of pollution to groundwater

The design of infiltration SuDS schemes and of their treatment stages needs to be appropriate to the sensitivity of the location and subject to a relevant risk assessment, considering the types of pollutants likely to be discharged, design volumes and the dilution and attenuation properties of the aquifer.

When considering the use of SuDs, development within the SPD boundary will use the following list of potential options in order of priority, depending on the appropriateness of each feature for the specific development.

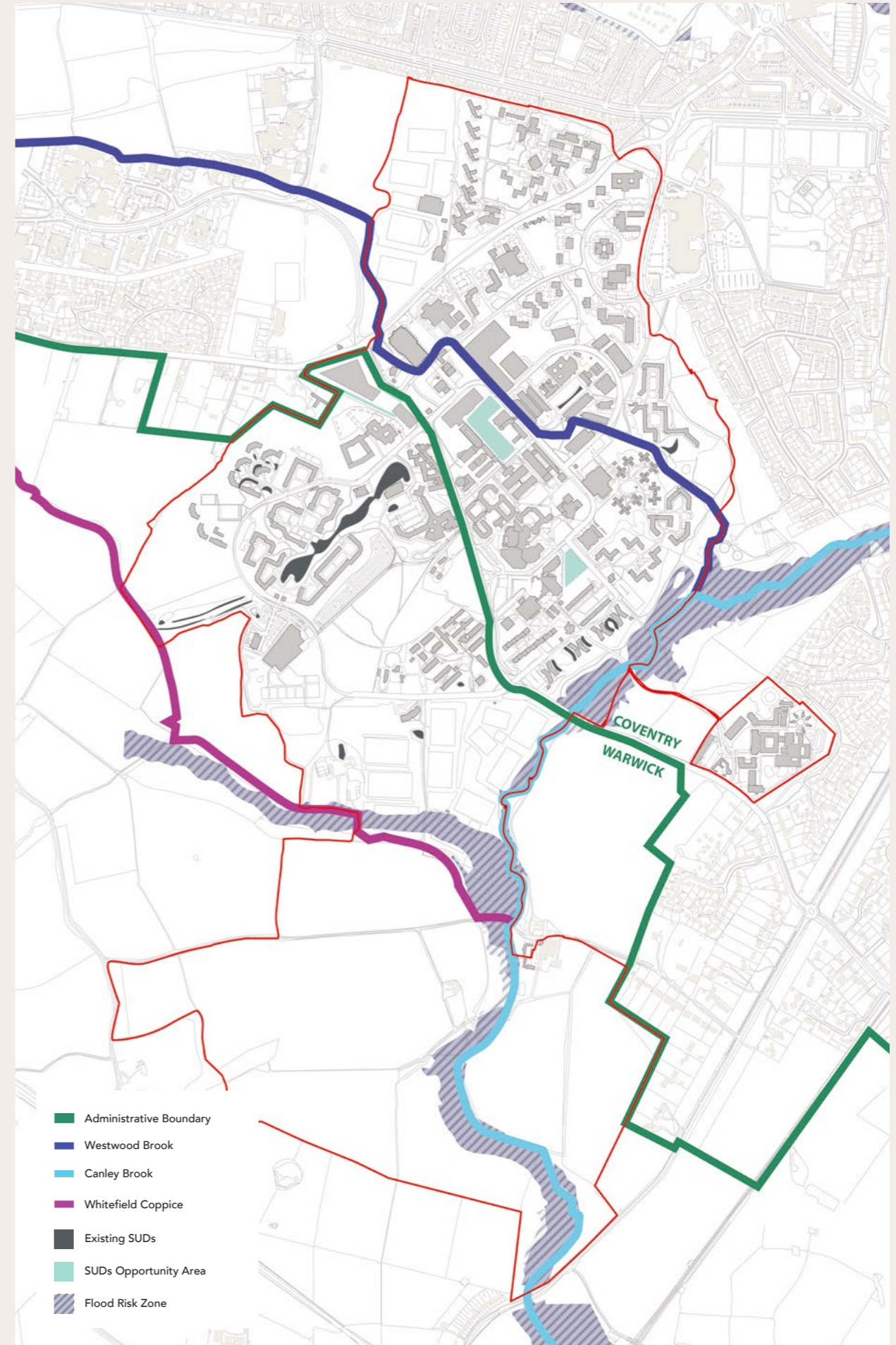
Suds Method	Description	Potential Locations
Green & Blue Roof	Vegetated or hardstanding roof designed to store water, which can be used for irrigation, cooling water or non-potable use within the building.	Proposed flat roofs could be designed with this feature if structural capacity, extra loadings and waterproofing are taken into consideration within the design.
Rainwater Harvesting	Rainwater from roofs and hard surfaces can be stored and reused.	Rainwater storage tanks can be located either underground, indoors on roofs or adjacent to buildings, depending on site size and access requirements.
Permeable Paving	Surfaces can be either porous or permeable. Rainwater infiltrates through the surface and into underlying layers where it is temporarily stored before either infiltrating into the ground or discharge through the drainage system.	Permeable paving can be located within proposed hard landscaping areas, especially in public realm areas.
Swales	Shallow, broad and vegetated channels designed to store and/or convey runoff and remove pollutants. Check dams and berms can also be installed along the flow path to promote settling and infiltration.	Swales may be utilised within the narrow, landscaped areas of the proposed plan to slow down and convey rainwater runoff.
Filter Drains/strips	Shallow excavations filled with gravel to create temporary storage of runoff used to filter and convey rainwater.	Due to its linear feature, filter drains are well suited to manage runoff from roads, car parks and other impermeable areas in verges or within landscaped areas in public realm areas.
Infiltration Basin	Vegetated depressions designed to store runoff on the surface and infiltrate it gradually into the ground.	Can be incorporated into large open areas of soft landscaping.
Rain Garden	Relatively small depressions in the ground that act as infiltration points for roof water and other 'clean' surface water runoff (low contamination levels).	Can be implemented in private curtilage for managing runoff from single properties, in small shared public spaces, on car park islands, roundabouts, footpaths, traffic calming and pedestrian zones.
Detention Basin	Surface storage basins are normally dry and provide flow control through attenuation of stormwater runoff.	Can be incorporated into large open areas of soft landscaping.
Retention Pond	Retention ponds provide stormwater attenuation and treatment.	Can be incorporated into large open areas of soft landscaping.
Geocellular Storage Systems	Geocellular systems can be used to control and manage surface water runoff.	The modular systems mean that they can be tailored to suit specification requirements of any site.

Management and Maintenance

The University monitors and manages its current drainage system, working to the aim of ensuring it is robust, resilient and sustainable. In addition to several existing SuDs intervention across the campus, through the development of the Eco Park project there are emerging ideas exploring the opportunity to utilise land parcels to both support wetland habitat creation and natural

management of water. Also, the University has an experienced grounds and gardens maintenance team for whom the monitoring, management and maintenance of our existing SuDs features is a key task that they undertake, as these features are an active part of the University landscape. The team are supplemented by specialist external contract support, where required.

PLAN 20: DRAINAGE PLAN



Heritage and Archaeology Strategy

Key National and Local legislation and Policy

The Planning (Listed Buildings and Conservation Areas) Act 1990 sets out the following duties for the decision maker in determining applications for listed building consent and planning permission affecting statutory listed buildings and/or their setting:

“S.66 (1) In considering whether to grant planning permission for development which affects a listed building or its setting, the local planning authority or, as the case may be, the Secretary of State shall have special regard to the desirability of preserving the building or its setting or any features of special architectural or historic interest which it possesses.”

The NPPF requires that planning should “conserve heritage assets in a manner appropriate to their significance, so that they can be enjoyed for their contribution to the quality of life of this and future generations.” with Chapter 16 outlining guidance regarding conserving and enhancing the historic environment.

Local Plan Policy

Warwick District Local Plan

Policy HE1: Designated Heritage Assets and their setting

Development will not be permitted if it would lead to substantial harm to or total loss of the significance of a designated heritage asset, unless it is demonstrated that the substantial harm or loss is necessary to achieve substantial public benefits that outweigh that harm or loss, or it is demonstrated that all of the following apply:

- a) The nature of the heritage asset prevents all reasonable uses of the site; and
- b) No viable use of the heritage asset itself can be found that will enable its conservation; and
- c) Conservation by grant funding or charitable or public ownership is not possible; and
- d) The harm or loss is outweighed by the benefit of bringing the site back into use.

Where development would lead to less than substantial harm to the significance of a designated heritage asset, this harm will be weighed against the public benefits of the proposal, including securing its optimum viable use.

- Experience of the asset;
- An asset’s associative relationships with other heritage assets. It is identified that views which contribute more to understanding the significance of a heritage asset include the following:
 - Those where the composition within the view was a fundamental aspect of the design or function of the heritage asset
 - Those where town- or village-scape reveals views with unplanned or unintended beauty
 - Those with historic or cultural associations.

Coventry Local Plan

Policy HE2: Conservation and Heritage Assets

1. In order to help sustain the historic character, sense of place, environmental quality and local distinctiveness of Coventry, development proposals will be supported where they conserve and, where appropriate, enhance those aspects of the historic environment which are recognised as being of special historic, archaeological, architectural, artistic, landscape or townscape significance. These Heritage Assets include:

- a. Listed Buildings and Locally Listed buildings;
- b. Conservation Areas;
- c. Scheduled Ancient Monuments and Archaeological sites;
- d. Registered Parks and Gardens; and
- e. Other places, spaces, structures and features which may not be formally designated but are recognised as significant elements of Coventry’s heritage and are positively identified on the Coventry Historic Environment Record.

2. Proposals likely to affect the significance of a heritage asset or its setting should demonstrate an understanding of such significance using currently available evidence.

3. Development proposals involving heritage assets in general and listed buildings in particular, should acknowledge the significance of the existing building and the area by means of their siting, massing, form, scale, materials and detail.

4. The sympathetic and creative re-use of heritage assets will be encouraged, especially for heritage that is considered to be at risk, so long as it is not damaging to the significance of the heritage asset. The embodied energy present in historic buildings contributes to sustainability.

5. The Council will use its statutory powers to secure the preservation of buildings and other heritage assets that are deemed to be at risk by the national and local heritage at risk registers.

6. Demolition or destruction of heritage assets will be resisted; proposals to demolish a heritage asset will therefore need substantial justification. The greater the damage to the significance of the asset, the greater the justification required and the public benefit needed to outweigh such damage.

7. All proposals should aim to sustain and reinforce the special character and conserve the following distinctive historic elements of Coventry:

- a. The surviving buildings, defences and street plan of the medieval city centre and its suburbs;
- b. The surviving pre-industrial settlements and landscape features which have been subsumed by the expansion of the city such as Walsgrave, Canley, Binley, Brownhill Green, Coundon Green, Little Heath (Spring Road), Stivichall Croft and Lower Eastern Green (at Dial House Lane);
- c. The wider Arden rural environment on the fringe of the city comprising field-systems, ancient woodlands and commons which developed over centuries; interspersed with a mix of settlements, farmsteads and smallholdings;
- d. Buildings associated with the city’s industrial heritage; ribbon weaving, watch making, cycle making, motor car manufacturing, brick making, coal mining, synthetic textiles, munitions, aeronautical engineering, canals and railways;
- e. The Victorian and Edwardian suburbs such as Earlsdon and Stoke;
- f. Designed landscapes, including historic parks and gardens (both registered and locally listed), historic cemeteries, churchyards and public parks;
- g. The significant elements of Coventry’s ground-breaking post-war reconstruction including its plan, built form, public art works and public spaces; and
- h. Archaeological remains of all periods from the earliest Prehistoric human habitation to the modern industrial period.

8. Where material change to a heritage asset has been agreed, recording and interpretation should be undertaken to document and understand the asset’s archaeological, architectural or historic significance. The scope of the recording should be proportionate to the asset’s significance and the impact of the development on the asset. The information and understanding gained should be made publicly available, as a minimum through the Coventry Historic Environment Record.

Baseline heritage conditions

There are a number of built heritage assets within or immediately adjacent to the SPD boundary. These are identified on the Heritage Asset Plan and are summarised below:



Houses For Visiting Mathematicians



3B Series 1 Sculpture

Within the SPD boundary

- Houses For Visiting Mathematicians. Grade II*. North East of the Warwick Medical School, Gibbet Hill. (1)
- 3B Series 1 Sculpture. Grade II. Located within the courtyard of the Rootes Residential Building (4)
- Cryfield Farmhouse, Gibbet Hill Road. Grade II. (3)

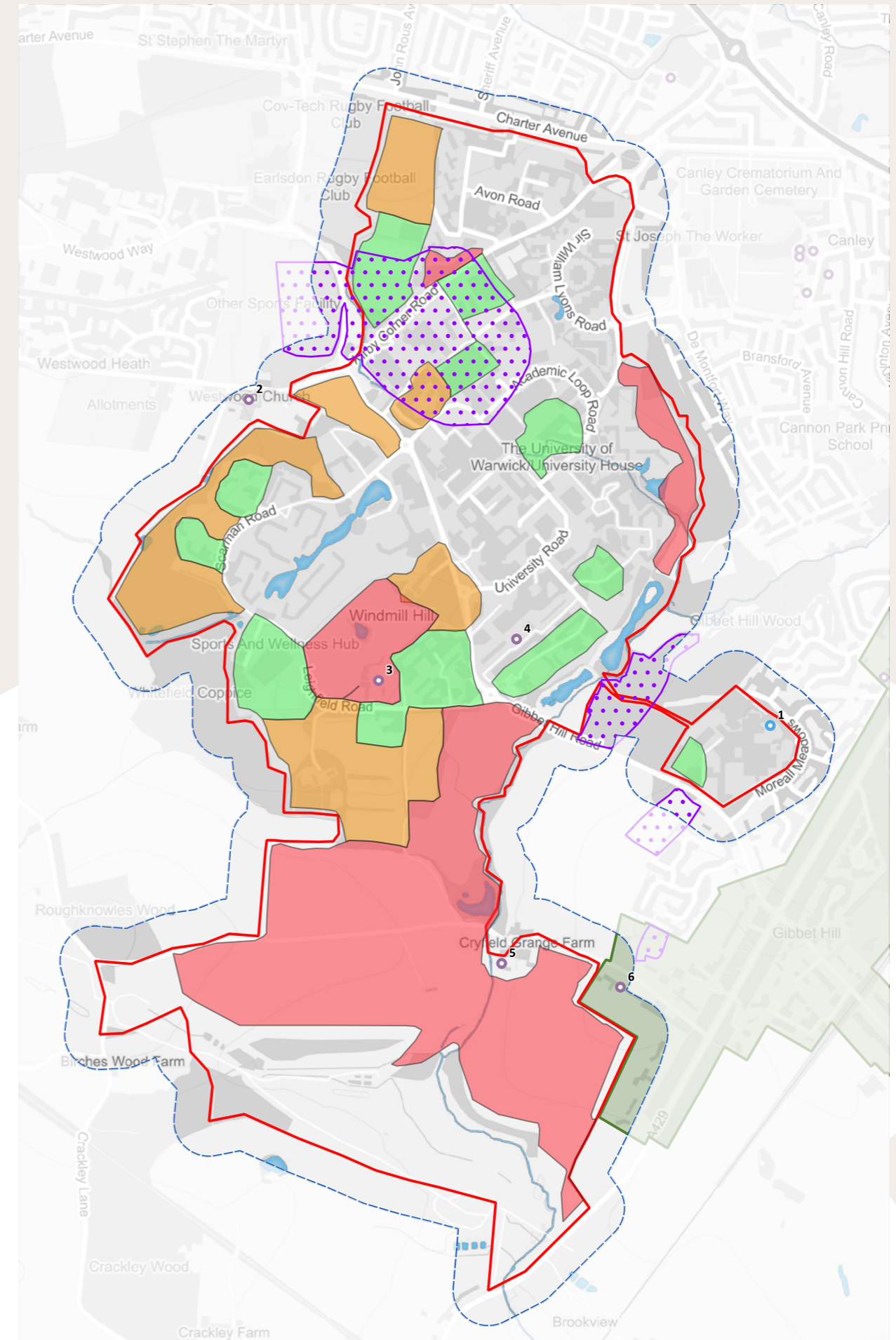
Adjacent to the SPD boundary

- Cryfield Grange Farmhouse, Cryfield Grange Road. Grade II (5)
- Church of St John the Baptist, Westwood Heath Road. Grade II (2)
- South Winds, Cryfield Grange Road. Grade II (6)
- Kenilworth Road Conservation Area

The information about heritage assets and the desk based assessments have been used in the considerations which have led to the development proposals and design guidelines set out in this SPD. In accordance with heritage best practice, additional heritage surveys relative to specific planning applications may be required to inform future decision making.

Where development is proposed which may impact on the significance of Heritage Assets, including any contribution made by their setting, proposals should seek to preserve the significance of the heritage asset, in line with adopted national and local policy and guidance.

PLAN 21: HERITAGE ASSETS PLAN



Archaeology

The Campus has been subject to a considerable amount of archaeological fieldwork connected with planning applications and construction activity over recent years. To inform this SPD, a comprehensive Archaeological Desk Based Assessment has been undertaken. Information from this Assessment is included on the Heritage Asset Plan (Plan 21)

The DBA has identified a number of archaeological 'events' and non designated assets across the site. These attest to a wide range of evidence of human activity and settlement of the land within the site from the prehistoric period onwards. There is also a legacy of previous archaeological investigations which have been prompted by previous development and work undertaken by Dr Stephen Hill, former University Archaeologist.

The Archaeological DBA has established that the archaeological potential of the campus varies by period and location. The Heritage Asset Plan identifies areas within the SPD boundary with high, medium and low archaeological potential. This information has been used to inform the development principles as set out in this SPD and will be used to guide future development within the SPD boundary.

National planning policies and planning guidance contained within the National Planning Policy Framework (DLUHC 2023) and its accompanying Planning Practice Guide (MCHLG 2016, updated November 2023, historic environment section published 2014, updated July 2019), as well as relevant local planning policies, require a mitigation response that is designed to take cognisance of the possible impacts upon heritage assets by a Proposed Development and avoid, minimise or offset any such impacts as appropriate

Future development will be required to assess the potential for construction works to directly or indirectly impact on below ground remains. The extent of assessment and appropriate level of field investigation will depend upon the level of potential of the site under consideration with engagement with the Local Planning Authority Archaeological advisers informing the assessment strategy. The level of mitigation proposed will be informed by the results of the investigations and in consultation with the relevant advisers.



Faculty of Arts building - photo credit Hufton + Crow

Delivery and Implementation

This SPD covers the period to 2033 which reflects the University's ten year Capital Plan. This is informed by a longer term vision to 2050 although this is not for approval as it extends well into the next plan period. However, this sets the direction of travel for the University in seeking to consolidate the campus within its existing boundaries, reinvigorate and transform the core of campus into a more pedestrian friendly and vibrant place, whilst celebrating and enhancing the wonderful landscape setting of the University on the edge of the Warwickshire countryside.

The SPD provides guidance on the location and design principles to be applied to a series of development proposals in the period to 2033, including known projects like the Social Sciences Quarter and Science and Engineering Precinct, as well as other areas of likely future development.

The Strategic Principles (SP1-6) and Design Principles (DP1-6) will be applied to each development which comes forward for planning approval in either Coventry City or Warwick District areas.

The quantum of development assessed in traffic generation terms provides an upper limit for academic floorspace against which future applications can be considered. Where it falls within these floorspace limits, there should be no need for additional traffic impact assessment. The Monitor and Manage approach and associated legal mechanism will provide the basis for identifying any mitigation measures considered necessary to address the specific impacts of any proposal being considered by the local planning and highway authorities. Where development comes forward outside of these floorspace limits or for uses not assessed through the SPD (for instance, proposals on the Science Park), a separate Transport Assessment should be scoped and submitted with any planning application following the principles set out in the Monitor and Manage approach. This does not preclude other non-transport obligations being sought from future development where consistent with the guidance in this SPD.

Each development brought forward in accordance with this SPD should also deliver a proportionate level of provision or mitigation in respect of the relevant supporting strategies.

The University is unable to commit to specific phasing, other than its current intentions to bring forward the first phases of the Social Science Quarter and Science Precinct over the next five years. Given that all anticipated development is effectively infill and/or intensification of uses within the existing built campus, it is not considered that any phasing or triggers are necessary other than those in respect of transport mitigations as set out at Appendix 1.



FCB Studios_Faculty of the Arts Building_University of Warwick_ photo credit HuftonCrow

Appendix 1

Transport Obligations

University of Warwick Transport Obligations – Committed, Proposed and SPD Framework

Section 1

Committed Social Sciences Quarter Transport S106 Obligations

Committed transport S106 obligations related to the Social Sciences Quarter planning permission ref. W23/0195 that forms part of the University's SPD 2033 and was granted permission in August 2024.

Committed Obligation	Details	Implementation
Gibbet Hill Road	Sum of £50,000 towards the extension of the low-speed zone on Gibbet Hill Road through Kirby Corner to the junction of Mitchell Avenue with Westwood Way	Contribution to be paid prior to first occupation of the Development
Cannon Park Road	Sum of £25,000 to be applied towards speed reduction measures on Canon Park Road	Contribution to be paid prior to the commencement of the Development
Digital Demand Responsive Transport (DDRT)	Sum of £200,000 to be applied towards supporting Digital Demand Responsive Transport for two years and exploring extending the DRT zone to cover the student population	£100,000 prior to first occupation of the Development and £100,000 within one year of the date of first occupation of the Development
Bus Service Contribution: Leamington Spa	Sum of £50,000 to be applied towards the enhancement of the bus service passenger environment in Leamington Spa which shall include design fees for the provision of the Leamington Transport Hub where the bus service serving the University terminates in Leamington town centre	Contribution to be paid prior to the commencement of the Development
Walking Improvement Study	Area study defined by existing pedestrian movement patterns which will review and consider current pedestrian infrastructure at the University of Warwick main campus and its integration with the surrounding local highway network in order to identify potential pedestrian improvement opportunities	Prior to submission of a Reserved Matters Application Note: Study commenced by the University
Cycling Improvement Study	Area study defined by existing cycle movement patterns which will review and consider current cycle infrastructure at the University of Warwick main campus and its integration with the surrounding local highway network in order to identify potential cycle improvement opportunities	Prior to submission of a Reserved Matters Application Note: Study commenced by the University

Section 2

Science & Engineering Precinct (STEM) Transport S106 Obligations

Transport S106 obligations related to the Science & Engineering Precinct (STEM) planning permission ref. PL/2023/0002402/OUTM that was granted permission in July 2024 and that forms part of the University's SPD 2033.

Draft Obligation	Details	Implementation
Westwood Way Cycle Way Scheme	Sum of £171,000 towards the delivery of and works relating to the Westwood Way Cycleway Scheme	Contribution to be paid prior to the commencement of the Enabling Works.
Coventry-Kenilworth Cycleway study	Sum of £20,000 towards the study by CCC into a segregated cycleway from Coventry city centre to Kenilworth via the A429	Study commenced by CCC
Shared Mobility Network Study	Shared Mobility Network Study to include preliminary review of University of Warwick bus interchange layout	Study to be commenced by the University prior to commencement of the Enabling Works
Lord Bhattacharyya Way/ Academic Loop Road junction	Creation of a pedestrian and cycling priority raised table/crossing	To be commenced by the University prior to first occupation of the Development
Academic Loop Road	Extension of the segregated mobility lane from University Road along Academic Loop Road to its junction with Lord Bhattacharyya Way	To be commenced by the University prior to commencement of the Enabling Works
Milburn Hill Road	Introduction of traffic calming measures on Sir William Lyons Road through to Kirby Corner Road, via Milburn Hill Road	To be commenced by the University with permission from CCC prior to first occupation of the Development

Section 3

Non-Mitigation Sustainable Transport Contributions

The University is committed to working collaboratively with both CCC and WCC to make positive contributions to improving sustainable travel to/from and within the University.

Separate to any required mitigation associated with the Social Sciences Quarter, Science & Engineering Precinct (STEM) and the Monitor and Manage commitments, the University will provide the following financial support to enhance sustainable transport in the region.

Sustainable Transport Intervention	Details	Implementation
Annual Travel Survey	Staff and student travel surveys conducted on an annual basis by the University	To be completed by the University
Biennial Traffic Survey	Traffic surveys on surrounding local highway network every two years	To be completed by the University
Support pedestrian and cycle improvements at Gibbet Hill Road / Scarman Road / Lord Bhattacharyya Way Roundabout	Following opening of both Social Sciences Quarter and STEM, review operation of Gibbet Hill Road / Scarman Road / Lord Bhattacharyya Way Roundabout	Sum of up to £100,000 towards a design study and modelling to improved pedestrian and cycle infrastructure at the Gibbet Hill Road / Scarman Road / Lord Bhattacharyya Way Roundabout and a sum of up to £1,000,000 towards implementation
Support improvements to local cycle network (Coventry-Kenilworth Cycleway design and implementation)	To increase cycle use to/from the campus, by monitoring cycle mode share and postcode catchment data	Sum of up to £1,000,000 towards the implementation by CCC of a cycleway from Coventry city centre to Kenilworth
Support improvements to walking, cycling and shared mobility (public transport, digital demand responsive transit, taxi, etc.) in the vicinity of main campus and associated transport corridors/hubs	Support the implementation of improvements identified within the Walking Improvement Study, Cycling Improvement Study and Shared Mobility Network Study (the Studies)	Sum of up to £1,000,000 towards the implementation of walking, cycling and shared mobility improvements as defined by the University and the Studies
Support improved bus, coach and taxi access to the campus	Optimise bus interchange layout to improve capacity and access	Sum of up to £500,000 towards a design study, modelling and implementation of bus interchange enhancements at main campus
Reduce vehicle traffic on Gibbet Hill Road	Review and comment on business case updates for A46 Link Road	Sum of up to £10,000 to support business case review for A46 Link Road in the vicinity of the University as well as sharing of data
Promote delivery of Very Light Rail scheme to main campus	Support implementation of Very Light Rail preferred route and promote dedicated University route from Coventry city centre	Sum of up to £10,000 towards the business case and implementation by CCC of a Very Light Rail route from Coventry city centre to the University

Section 4

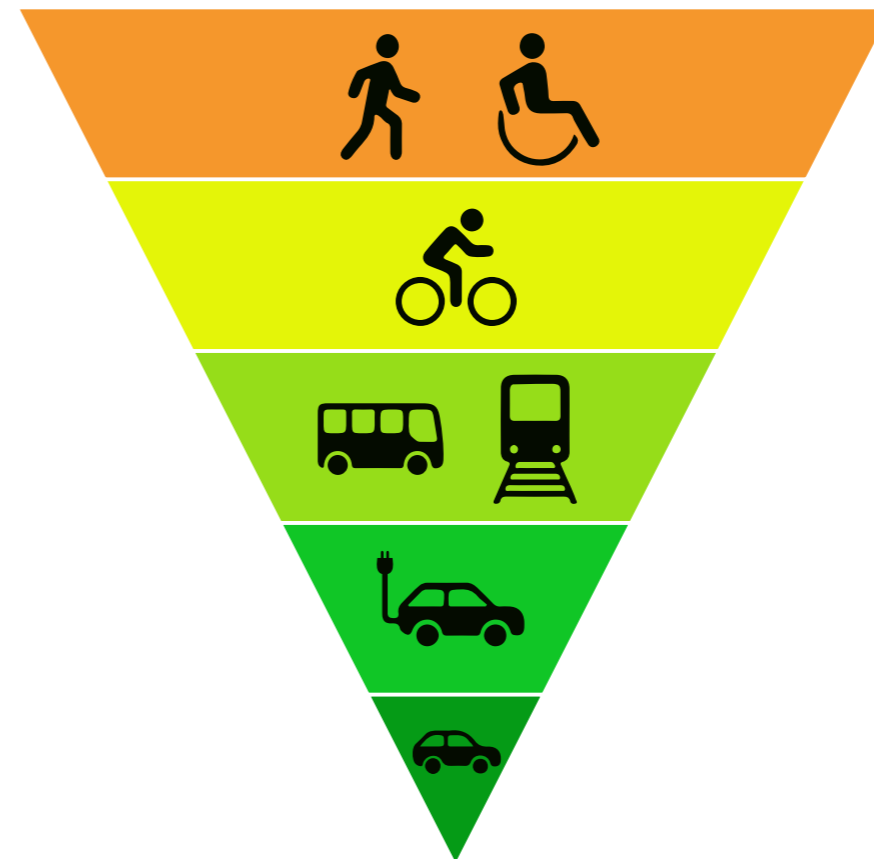
Monitor and Manage Approach and Governance

A series of transport-related monitor and manage obligations have been agreed with and will be reviewed by the Monitor and Manage Transport Sub Board ¹.

The University has committed a sum of up to £2,000,000 (index linked) to a Monitor and Manage Transport Fund for the duration of the SPD to 2033. This can be drawn down from should trigger points be met and mitigation required. This will be determined on a case-by-case basis and in agreement with all parties at the Monitor and Manage Transport Sub Board.

An option to utilise the Monitor and Manage Transport Fund to support improving sustainable transport opportunities as a proactive and flexible approach, separately from the trigger point obligations, will be at the discretion of the Monitor and Manage Transport Sub Board.

The Monitor and Manage Transport Fund should be prioritised based on the transport modal hierarchy with mitigation focused towards the most sustainable and lowest carbon travel modes.



As and when new proposals come forward as part of the SPD, the Monitor and Management Obligations can be used as the basis for determining appropriate S106 mitigation to support the planning process.

¹ The Monitor and Manage Transport Sub Board to include representatives from CCC, WDC, WCC, UoW, TfWM and NH, will monitor, review, co-ordinate and implement the agreed monitor and manage set of principles in relation to all future University development activities, the SPD and any associated s106 obligations. The Sub Board will be tied to a legally binding governance process to allocate appropriate funding agreed by all parties. The Sub Board will also discuss and manage transport issues and take opportunities to foster collaboration and sharing of information to improve transport and travel within the local vicinity of the university campus and encourage positive sustainable transport shifts.

Highways

Monitor and Manage Obligation	Monitoring and Trigger	Manage
Car parking utilisation monitoring	Monitor car park usage and occupancy for five years, from first occupation off Social Sciences Quarter or STEM, using ANPR data on a monthly basis If utilisation exceeds 90% occupancy at peak periods for three consecutive months, further mitigation is required	Use Monitor and Manage Transport Fund for mitigation to include package of measures: <ul style="list-style-type: none"> • Overspill parking monitoring in defined locations • Financial contribution towards review and consultation of amendments or introduction of parking controls on public highway • Implement further sustainable travel initiatives and incentives • Disincentivise car usage
Review University-related traffic to/from Campus at peak periods for duration of the SPD on a biennial basis to ensure 16% peak period uplift from 2018 baseline is not reached	Biennial traffic surveys (Oct/Nov) at fixed locations to monitor University-related traffic over time, to be supplemented with evidence base from annual travel survey and Vivacity sensors	If 16% peak period University-generated traffic growth is exceeded, use Monitor and Manage Transport Fund for mitigation to include sustainable transport measures

Active Travel – Walking

Monitor and Manage Obligation	Monitoring and Trigger	Manage
Support and promote increased walking by students and staff	Use results from the Walking Improvement Study to prioritise opportunities for improvements to the walking environment to, from and within the Campus	Use Monitor and Manage Transport Fund to implement walking-related improvements to be agreed by the Monitor and Manage Transport Sub Board
Review University-related traffic to/from Campus at peak periods for duration of the SPD on a biennial basis to ensure 16% peak period uplift from 2018 baseline is not reached	Biennial traffic surveys (Oct/Nov) at fixed locations to monitor University-related traffic over time, to be supplemented with evidence base from annual travel survey and Vivacity sensors	If walking mode share drops below target, use Monitor and Manage Transport Fund for mitigation to include optional package of measures to be considered as one-off interventions or through a series of consequential actions: <ul style="list-style-type: none"> • Implement further active travel initiatives and/or incentives • Consider further implementation of improvements as part of the Walking Improvement Study

Active Travel – Cycling

Monitor and Manage Obligation	Monitoring and Trigger	Manage
Support and promote increased cycling by students and staff	Use results from the Cycle Improvement Study to prioritise opportunities for improvements to the walking environment to, from and within the Campus Cycle training support for staff and students in partnership with local authority partners and engagement programmes	Use Monitor and Manage Transport Fund to implement cycling-related improvements to be agreed by the Monitor and Manage Transport Sub Board Use Monitor and Manage Transport Fund to implement a structured programme of cycle training for staff and students of all abilities – repeated annually
	Monitor cycle parking utilisation across the Campus	Use Monitor and Manage Transport Fund to provide more cycle parking at popular locations
Ensure cycle mode share for staff and students increases and does not fall below 8% for staff, 5% for undergraduates and 7% for postgraduates	Monitor cycle mode share through annual travel survey and Vivacity sensors	If cycle mode share drops below target, use Monitor and Manage Transport Fund for mitigation to include optional package of measures to be considered as one-off interventions or a series of consequential actions: <ul style="list-style-type: none"> • Implement further active travel initiatives and/or incentives • Provide more cycle parking and/or supporting facilities in response to feedback from annual travel survey • Consider further implementation of improvements recommended within the Cycling Improvement Study

Sustainable Travel – Bus Services

Monitor and Manage Obligation	Monitoring and Trigger	Manage
Review existing bus service patronage and occupancy levels and customer experience on services to/from the Campus based on where staff and student demand is highest. Consideration of off campus public transport infrastructure specifically where it is connected to the University	Work with local authority partners and operators to determine service gaps and support delivery of enhanced services and customer experience in areas of high demand	Use Monitor and Manage Transport Fund to support bus routes serving the University, with KPIs and monitoring of any funded improvements
Promote bus use and ensure bus mode share for staff and students does not fall below 10% for staff, 35% for undergraduates and 35% for postgraduates (subject to a consistent level of bus service availability, reliability and affordability)	Monitor bus mode share through annual travel survey	If bus mode share drops below target, use Monitor and Manage Transport Fund for mitigation to include optional package of measures to be considered as one-off interventions or a series of consequential actions: <ul style="list-style-type: none"> • Enhanced performance agreement from operators • Discounted ticketing for staff and students • Funding to support delivery of enhanced services



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