Creating healthier places and spaces for our present and future generations

Inclusive infrastructure prioritises walking and cycling, and improves road safety

Building design promotes health and well-being

Low levels of air pollution

Accessible and well-maintained green infrastructure, open green spaces and blue spaces

Community, health and social care services provided from local facilities

Inclusive infrastructure prioritises walking and cycling, and improves road safety

Local food growing and food retail environment enhances access to healthy food choices
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1. About this Resource

This resource has been created to support Public Services Boards, public bodies, cross sector organisations and individuals take forward actions that address and enhance the health and well-being opportunities afforded by the natural and built environment. It has been developed in response to the *Well-being of Future Generations (Wales) Act 2015* (1), with input from Natural Resources Wales demonstrating commitment to working together on delivering the Act.

The resource provides background information, summarises some of the relevant evidence, proposes actions for implementation at strategic and operational level and signposts to further useful resources. Specifically, the resource focuses on six priority areas of the built and natural environment that can positively impact on health and well-being. These are:

- the walking and cycling infrastructure
- open green /blue spaces and green infrastructure
- the food growing and retail environment
- community, health and social care services provided from local facilities
- low levels of air pollution
- building design.
2. Strategic Context

The Welsh policy and legislative agenda, including the *Well-being of Future Generations (Wales) Act 2015*, *the Environment (Wales) Act 2016*, *the Public Health (Wales) Act 2017*, *the Active Travel (Wales) Act 2013* and the revision of *Environmental Impact Assessment Regulations (2017)*, are supportive of the built and natural environment promoting health and well-being. For example,


- The *Natural Resources Policy (NRP)* under the *Environment (Wales) Act 2016* states that Wales’ natural resources provide opportunities to:
  - Support successful, sustainable communities;
  - Promote green growth and innovation to create sustainable jobs;
  - Support a more resource efficient economy; and,
  - Maintain healthy, active and connected communities.

- The *Public Health (Wales) Act 2017* proposes that health impact assessments be undertaken by public bodies in specific circumstances, some of which may be in relation to planning and environment decisions. Health impact assessment is a useful tool in judging the potential effects, and the distribution of those effects, on the health of a population of a policy, programme or project.

In addition, Welsh Government’s *Prosperity for all – the national strategy*, *Planning Policy Wales* and the *Wales Spatial Plan People, Places, Futures* set out national land use planning policies and highlight the commitment to embedding sustainable development into the planning system. Local Development Plans, that detail local authority land use priorities, are expected to address sustainable development and focus on economic, environmental and social concerns, together with health and well-being considerations.

It is also expected that the proposed all Wales national obesity prevention strategy, the National Development Framework and the Clean Air Zone Framework will support actions to enhance the impact of the environment on well-being.
3. The impact of the built and natural environment on well-being

Evidence demonstrates that the built and natural environment (buildings, places, streets, routes, land, watercourses, natural habitats) and the activities undertaken in these (living, working, learning, playing, shopping, travelling, moving) can support physical and mental well-being. The presence of specific characteristics such as having access to green open spaces\(^7\), to healthy food\(^7\), to opportunities for being active\(^7\), to clean air\(^7\), to well-designed buildings that promote well-being\(^8\), and to supportive services delivered from local facilities\(^8\) have been shown to help people thrive. Conversely, where these characteristics are missing or limited, for example lack of open green spaces, there is likely to be a negative impact on population health and well-being and it is those living in the most disadvantaged areas that experience a disproportionately high level of adverse impacts.\(^9\)

Various models have been proposed to illustrate and explain the links between the environment and well-being:

- The Health Map\(^{10}\) (Figure 1) sets out the interactions and influences affecting health and well-being and illustrates the close association between the built and natural environment within which people live, lifestyle choices adopted, availability of accessible services, sense of community, social relationships, good jobs, and the creation of sustainable and healthy, thriving communities. The interaction between and within the layers of the Health Map helps understanding of the issues and highlights areas for action.
Figure 1  The Health Map

Source: Barton H, Grant M. A health map for the local human habitat. Perspectives in Public Health 2006; 126: 252-253.
Learning from the Well-being Assessments (11) across Wales informed the development of a model that demonstrates an integrated picture of well-being from the individual to the strategic (Figure 2). The model highlights opportunities for addressing population health and illustrates that the built and natural environment has a role to play in many areas that influence well-being.

Figure 2 Explaining well-being: from the individual to the strategic

Source: Future Generations Commissioner for Wales. Well-being in Wales: Planning today for a better tomorrow. Learning from well-being assessments 2017
4. What we know and what works

Six priority areas of the built and natural environment that promote health and well-being are considered in this resource. Numerous links and associations between the priority areas are possible creating enhancing and synergistic effects. For each area, an evidence summary is provided and a range of strategic and operational level actions identified that could improve health and well-being and support the delivery of the Well-being Goals. To be effective, many of the actions require embracing the five ways of working (Figure 3) promoted by the *Well-being of Future Generations (Wales) Act 2015.*

**Figure 3  The five ways of working**

![Long term, Prevention, Integration, Collaboration, Involvement]

Additionally, engagement with local communities and stakeholders is essential to ensure actions and improvements address local needs and reduce inequalities in health. Interventions are most effective when improvements to the physical environment are planned and designed with the local community and the intended users. Health impact assessment is a useful tool in supporting this engagement and involvement.\(^{(12)}\)
4.1 Inclusive infrastructure that prioritises walking and cycling\(^1\), and improves road safety

Being physically active benefits individual and population health and reduces the risks of obesity and chronic conditions; inactivity cost the NHS in Wales £35 million in 2015.\(^{(13)}\) Supporting walking and cycling has been identified as a ‘best buy’ to increase physical activity levels\(^{(7)}\) and it is estimated that living in an activity-friendly neighbourhood can provide between 32% and 59% of the 150 minutes of weekly physical activity that is recommended for adults to maintain good health.\(^{(8)}\)

Living in an activity-friendly neighbourhood can provide between 32% and 59% of the 150 minutes of weekly physical activity that is recommended for adults to maintain good health

Evidence suggests investment in infrastructure that provides inclusive, well-designed and connected trails leading to workplaces\(^{(14)}\), schools, recreational centres and social amenities, with pavements, safe crossings and attractive sights in areas\(^{(15,16)}\), can support walking and cycling and increase levels of physical activity among all age groups.\(^{(12)}\)\(^{(17)}\) Walkable neighbourhoods encourage active travel\(^{(8,14,18)}\), use of sustainable travel modes (bus, train and tram) and provide opportunities for social interaction, for participating in and enjoying the outdoor environment and to reducing car travel.\(^{(19)}\) Initiatives that improve conditions for walking and cycling through reducing speed limits to 20 mph, implementing traffic calming and designating streets as home zones where pedestrians take priority\(^{(17,18)}\), also contribute to improving road safety.\(^{(19)}\)

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\(^1\) Cycling includes the use of adapted cycles, such as trikes, tandems and handcycles
Inclusive infrastructure that prioritises walking and cycling, and improves road safety

<table>
<thead>
<tr>
<th>Who Profession / organisation</th>
<th>What could and should be done</th>
<th>Potential impact of action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Service Boards</td>
<td>Ensure Local Development Plans, Supplementary Planning Guidance and development plans (housing, retail, commercial and public sector) provide infrastructure that prioritises walking and cycling</td>
<td>Increase in physical activity rates</td>
</tr>
<tr>
<td>Urban and rural planners</td>
<td>Implement the <em>Active Travel (Wales)</em> Act 2013 at national and local level</td>
<td>Increase in community cohesion leading to stronger sense of identity and improved mental well-being</td>
</tr>
<tr>
<td>Urban and rural transport planners</td>
<td>Ensure transport plans and strategies include the development and delivery of active travel infrastructure and fully integrated transport systems</td>
<td>Reduction in chronic conditions and respiratory illnesses</td>
</tr>
<tr>
<td>Developers</td>
<td>Provide interconnected high-quality infrastructure networks that facilitate access to inclusive, well-designed facilities and employment opportunities by walking and cycling</td>
<td>Reduction in levels of low mood and anxiety</td>
</tr>
<tr>
<td>Health strategy and service planners</td>
<td>Prioritise the retention, development and maintenance of the green infrastructure within route design and development</td>
<td>Reduction in fatalities caused by road traffic accidents</td>
</tr>
<tr>
<td>Public health</td>
<td>Prioritise the pedestrian over motorised transport by, for example, implementing 20mph zones, making use of a variety of methods to reduce and control traffic speed (signage, road materials, design, layout, shared surfaces)</td>
<td>Improved air quality</td>
</tr>
<tr>
<td>Local authorities</td>
<td>Provide cycle ways and cycle paths that are safely separated from motorised traffic</td>
<td>Reduction in carbon emissions</td>
</tr>
<tr>
<td>Health Boards / Trusts</td>
<td>Provide integrated public transport systems</td>
<td></td>
</tr>
<tr>
<td>Natural Resources Wales</td>
<td>Ensure the infrastructure supports people with limited mobility and the use of adapted cycles</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reduce traffic emissions and traffic speed using road layout, clean air zones and no engine idling zones, for example</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Engage with individuals, groups and communities in the design and delivery of interventions that encourage access to and use of the available infrastructure. Dual approaches of improving infrastructure and engaging communities are most effective in changing behaviour. Health impact assessment is a useful tool in supporting engagement and involvement</td>
<td></td>
</tr>
</tbody>
</table>

Action within this priority area also contributes to:
- Accessible and well-maintained green infrastructure, open green spaces and blue spaces
- Low levels of air pollution

Well-being Goals addressed

- A prosperous Wales
- A resilient Wales
- A healthier Wales
- A more equal Wales
- A Wales of cohesive communities
- A Wales of vibrant culture and thriving Welsh language
- A globally responsible Wales
4.2 Accessible and well-maintained green infrastructure, open green spaces and blue spaces

Parks, open spaces, playing fields, woodlands, wetlands, road verges, allotments and private gardens are examples of green infrastructure while sustainable drainage systems, swales, wetlands, rivers and canals and their banks, and other water courses are often referred to as blue infrastructure. Access to, and engagement with, this natural environment is associated with positive health outcomes, including improved physical and mental health, and reduced risk of cardiovascular disease and other chronic conditions. (20) Access to recreational infrastructure, such as parks and playgrounds, has been found to be associated with reduced risk of obesity among adolescents and increased physical activity levels. Similarly, park improvements can increase visits/use and physical activity levels of children and older people. Living near green spaces, such as parks and other open spaces can improve health, regardless of social class. (14)

Access to, and engagement with, this natural environment is associated with positive health outcomes, including improved physical and mental health, and reduced risk of cardiovascular disease and other chronic conditions.

Improving access to green infrastructure and spaces also contributes to reducing exposure to environmental hazards and air pollution, improving air quality, reducing the impact of climate change, protecting against flooding and erosion, and increasing social participation among older adults. (8, 14, 21)
## Accessible and well-maintained green infrastructure, open green spaces and blue spaces

<table>
<thead>
<tr>
<th>Who</th>
<th>What could and should be done</th>
<th>Potential impact of action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Service Boards</td>
<td>Ensure Local Development Plans, Supplementary Planning Guidance and development plans (housing, retail, commercial and public sector) provide green infrastructure and open green/blue spaces</td>
<td>Increase in physical activity rates</td>
</tr>
<tr>
<td>Urban and rural planners</td>
<td>Provide (retain, retrofit, and design in) green infrastructure elements within new and regenerated developments of housing, transport routes and healthcare and education establishments</td>
<td>Increase in community cohesion leading to stronger sense of identity and improved mental well-being</td>
</tr>
<tr>
<td>Urban and rural transport planners</td>
<td>Provide high-quality natural green open spaces of different sizes that are easy to access from dwellings – for example, no-one should live more than 400 metres from their nearest area of natural green space</td>
<td>Reduction in chronic conditions and respiratory illnesses</td>
</tr>
<tr>
<td>Developers</td>
<td>Ensure Open Space Strategies and Transport Plans provide and facilitate access to, green infrastructure</td>
<td>Reduction in levels of low mood and anxiety</td>
</tr>
<tr>
<td>Health strategy and service planners</td>
<td>Implement the Active Travel (Wales) Act 2013, including green infrastructure in design and route planning guidance</td>
<td>Improved air quality</td>
</tr>
<tr>
<td>Public health</td>
<td>Provide opportunities for active and informal play within residential areas, within natural play spaces where possible</td>
<td>Reduced 'urban heat island' effects</td>
</tr>
<tr>
<td>Local authorities</td>
<td>Follow planning guidance that sets out the standards for outdoor playing space</td>
<td>Reduced flood risk</td>
</tr>
<tr>
<td>Health Boards / Trusts</td>
<td>Provide play spaces that are easy and safe to access by walking and cycling, and well over-looked to ensure safety</td>
<td>Increase in biodiversity</td>
</tr>
<tr>
<td>Natural Resources Wales</td>
<td>Engage individuals, groups and communities in designing and delivering interventions that encourage access to and sustainable use of the available spaces through the life course. Dual approaches of improving infrastructure and engaging communities are most effective in changing behaviour. Health impact assessment is a useful tool in supporting engagement and involvement.</td>
<td></td>
</tr>
<tr>
<td>Third sector</td>
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</tbody>
</table>

Action within this priority area also contributes to:-

- Inclusive infrastructure that prioritises walking and cycling, and improves road safety
- Low levels of air pollution

Well-being Goals addressed

- **A prosperous Wales**
- **A resilient Wales**
- **A healthier Wales**
- **A more equal Wales**
- **A Wales of cohesive communities**
- **A Wales of vibrant culture and thriving Welsh language**
- **A globally responsible Wales**
4.3 Local food growing and retail environment that enhances access to healthy food choices

Access to a food environment that promotes healthy food choices is known to improve health, support the maintenance of a healthy weight and reduce the risks of developing long term chronic conditions. It is an essential part of a multi-component approach to reducing levels of overweight and obesity that also considers, for example, individual behaviour change, food preparation and food served in schools, workplaces and NHS settings.

Access to a food environment that promotes healthy food choices is known to improve health, support the maintenance of a healthy weight and reduce the risks of developing long term chronic conditions.

Access to food growing spaces within communities such as gardens, allocated food growing spaces near community buildings, and allotments impacts positively on attitudes towards healthier foods, physical activity levels, social connectivity and fruit and vegetable consumption. Availability of local healthy, affordable food is associated with improved attitudes towards healthy eating and healthier food purchasing behaviour and improved dietary behaviours (such as increased fruit and vegetable consumption). Conversely, increased access to unhealthier food retail outlets is associated with increased weight status and unhealthy eating behaviours among children in low income areas.
## Local food growing and retail environment that enhances access to healthy food choices

<table>
<thead>
<tr>
<th>Who Profession / organisation</th>
<th>What could and should be done</th>
<th>Potential impact of action</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Strategic level actions</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Public Service Boards</td>
<td>Ensure Local Development Plans, Supplementary Planning Guidance and development plans (housing, retail, commercial and public sector) include food growing spaces and improve choice within the food retail environment</td>
<td>Increase in consumption of fruit and vegetables</td>
</tr>
<tr>
<td>Urban and rural planners</td>
<td>Ensure design of schools and workplaces provide food growing spaces</td>
<td>Increase in physical activity rates</td>
</tr>
<tr>
<td>Developers</td>
<td>Ensure Open Space strategies and policies, for example, establish and maintain community gardens and allotments in parks</td>
<td>Reduction in levels of low mood and anxiety</td>
</tr>
<tr>
<td>Public health</td>
<td></td>
<td>Reduction in levels of overweight and obesity</td>
</tr>
<tr>
<td>Local authorities</td>
<td></td>
<td>Reduction in chronic conditions</td>
</tr>
<tr>
<td>Health Boards / Trusts</td>
<td></td>
<td>Increased biodiversity</td>
</tr>
<tr>
<td>Schools – designers and teachers</td>
<td></td>
<td>Reduced ‘food miles’ leading to improved air quality</td>
</tr>
</tbody>
</table>

**Support access to, and improved choice within, the local food retail environment by,** for example,
- ensuring shops/markets that sell a diverse offer of food choices are easy to get to by walking, cycling or public transport
- understanding the density of hot-food takeaways across communities and local authority areas and influencing policy, if appropriate, to restrict their proximity to schools and other facilities for children, young people and families

**Ensure all statutory and public organisations provide**
- a healthy food offer for staff, visitors and customers or patients at leisure centres, workplaces, schools and hospitals
- food growing opportunities that deliver food for the establishment’s kitchens

**Establish food procurement policies that purchase supplies locally, reducing overall transport impact**

**Enhance existing opportunities for food-growing and prevent the loss of food-growing spaces in developments**

**Provide households with access to space to grow food – for example roof or communal gardens, or allotments**

**Ensure school playground design supports food growing opportunities**

**Engage individuals, groups and communities in designing and delivering interventions that encourage access to and use of the food retail and growing environment. Dual approaches of improving the environment and engaging communities are most effective in changing behaviour. Health impact assessment is a useful tool in supporting engagement and involvement**

**Action within this priority area also contributes to:**
- Inclusive infrastructure that prioritises walking and cycling, and improves road safety
- Low levels of air pollution

**Well-being Goals addressed**

- [ ] A prosperous Wales
- [ ] A resilient Wales
- [ ] A healthier Wales
- [ ] A more equal Wales
- [ ] A Wales of cohesive communities
- [ ] A Wales of vibrant culture and thriving Welsh language
- [ ] A globally responsible Wales
4.4 Community, health and social care services delivered from local facilities

Access to and availability of services provided in good quality local facilities promotes health and reduces inequalities in health, in addition to being crucial for economic, social, cultural and environmental sustainability. Health and social care services, libraries, shops, schools, and arts, leisure and community activities provided from well positioned and well-designed facilities can result in positive impacts on health and well-being. (16)

Access to and availability of services provided in good quality local facilities promotes health and reduces inequalities in health

Building and regenerating complete and compact neighbourhoods with local services at the centre also contributes to increasing physical activity levels, safer roads and enhanced social participation. (8)
## Community, health and social care services delivered from local facilities

<table>
<thead>
<tr>
<th>Who</th>
<th>What could and should be done</th>
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</tr>
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<tbody>
<tr>
<td>Public Service Boards</td>
<td>Ensure Local Development Plans, Supplementary Planning Guidance and development plans provide facilities for the delivery of local services</td>
<td>Increase in physical activity rates</td>
</tr>
<tr>
<td>Urban and rural planners</td>
<td>Influence strategies and plans of health boards/trusts and local authorities to include the delivery of services from local shared infrastructure</td>
<td></td>
</tr>
<tr>
<td>Health strategy and service planners</td>
<td>Provide health and social care services from local, shared use facilities</td>
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</tr>
<tr>
<td>Developers</td>
<td>Provide community facilities at an early stage within new developments to help people feel connected and to provide a local destination</td>
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</tr>
<tr>
<td>Public health</td>
<td>Provide community facilities that are easy to get to, conveniently located, well signposted, close to public transport and on walking and cycling networks</td>
<td></td>
</tr>
<tr>
<td>Local authorities</td>
<td>Ensure health and community services have travel plans that promote sustainable and active travel</td>
<td></td>
</tr>
<tr>
<td>Health Boards / Trusts</td>
<td>Ensure green infrastructure is considered in designs and plans</td>
<td></td>
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<tr>
<td>Third sector</td>
<td>Work with communities to influence design, location, access and delivery. Health impact assessment is a useful tool in supporting engagement and involvement.</td>
<td></td>
</tr>
</tbody>
</table>

Action within this priority area also contributes to :-

- Inclusive infrastructure that prioritises walking and cycling, and improves road safety
- Accessible and well-maintained green infrastructure, open green spaces and blue spaces
- Building design that promotes health and well-being

**Well-being Goals addressed**

- A prosperous Wales
- A resilient Wales
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- A Wales of vibrant culture and thriving Welsh language
- A globally responsible Wales
4.5 Low levels of air pollution

Exposure to air pollution (22) negatively impacts on health and well-being, increasing the burden of disease from stroke, heart disease, lung cancer, and both chronic and acute respiratory diseases and imposes a considerable cost to society. (7) Invariably there is a disproportionate impact on disadvantaged groups. (9, 19)

Recent evidence indicates that living in an area with clean air can lead to positive changes in people’s health behaviours and is associated with increased physical activity among older adults. (8) Air quality can be improved through establishing green infrastructure (open spaces, trees and hedgerows), promoting active travel and sustainable transport, providing a fully integrated transport system, developing well connected, active and social communities and through reducing traffic congestion and emissions. (19)

Urban tree planting also reduces particulate pollution and atmospheric carbon.
## Low levels of air pollution

<table>
<thead>
<tr>
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<th>What could and should be done</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Public Service Boards</td>
<td>Support the development and implementation of clean air strategies</td>
<td>Increase in physical activity rates</td>
</tr>
<tr>
<td>Urban and rural planners</td>
<td>Ensure Local Development Plans and Supplementary Planning Guidance provide and maintain infrastructure that supports active travel and low emission transport</td>
<td>Reduction in chronic conditions and respiratory illnesses</td>
</tr>
<tr>
<td>Health strategy and service planners</td>
<td>Implement the <em>Active Travel (Wales) Act 2013</em></td>
<td>Reduction in levels of low mood and anxiety</td>
</tr>
<tr>
<td>Developers</td>
<td>Ensure Open Space Strategies and Transport Plans provide and facilitate access to, green infrastructure</td>
<td>Reduction in fatalities caused by road traffic accidents</td>
</tr>
<tr>
<td>Public health</td>
<td>Ensure Transport Plans develop and deliver fully integrated transport systems</td>
<td>Improved air quality</td>
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<tr>
<td>Local authorities</td>
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<tr>
<td>Health Boards / Trusts</td>
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<tr>
<td>Natural Resources Wales</td>
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<tr>
<td>Third sector</td>
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</table>

**Strategic level actions**

- Support the development and implementation of clean air strategies
- Ensure Local Development Plans and Supplementary Planning Guidance provide and maintain infrastructure that supports active travel and low emission transport
- Implement the *Active Travel (Wales) Act 2013*
- Ensure Open Space Strategies and Transport Plans provide and facilitate access to, green infrastructure
- Ensure Transport Plans develop and deliver fully integrated transport systems

**Operational level actions**

- Provide the infrastructure for active and sustainable travel supported by a fully integrated transport system
- Develop well connected, active and social communities
- Introduce clean air zones
- Retain and establish new green infrastructure (open spaces, trees, hedgerows, etc)
- Introduce 20mph zones without physical measures
- Reduce traffic congestion and implement low emission zones
- Provide electric vehicle charging points in workplaces, commercial developments and residential areas
- Introduce bylaws to support ‘no idling’ areas where vulnerable groups congregate such as outside schools, hospitals and care homes
- Engage individuals, groups and communities in designing and delivering interventions that address air quality issues. Health impact assessment is a useful tool in supporting engagement and involvement.

**Action within this priority area also contributes to:**

- Inclusive infrastructure that prioritises walking and cycling, and improves road safety
- Accessible and well-maintained green infrastructure, open green spaces and blue spaces

**Well-being Goals addressed**

- A prosperous Wales
- A resilient Wales
- A healthier Wales
- A more equal Wales
- A Wales of cohesive communities
- A Wales of vibrant culture and thriving Welsh language
- A globally responsible Wales
4.6 Building design promotes health and well-being

Buildings in which we live and work can have a profound impact on health and well-being. Poor quality housing, including issues such as mould, lack of warmth and energy inefficiency, noise and lack of green space, is linked to physical and mental ill-health. Insulated, warm, naturally lit and well-ventilated homes and buildings can help improve general health and well-being, reduce respiratory conditions, improve mental health and reduce health inequalities. Provision of diverse forms and types of housing has been associated with increased physical activity, and the provision of mixed land use and affordable housing is strongly associated with improved safety perceptions in the neighbourhood, particularly among individuals from low-income groups. Homes that have adequate kitchen facilities, cycle storage and access to outdoor spaces also contribute to overall well-being.

For non-residential settings, well designed buildings can improve the well-being, productivity and satisfaction of people working in a building, while reducing operational costs, enhancing asset value, and increasing market demand for spaces. Design characteristics that are thought to enhance health and well-being include attractive, visible and signed stairwells; provision of cycle storage and changing facilities; appropriate use of colour; and minimised car parking space.

Outdoor environments around dwellings and workplaces that maximise use of the green infrastructure also contribute to well-being, for example, providing green walls/facades, food growing opportunities, wildlife gardens.
# Building design promotes health and well-being

<table>
<thead>
<tr>
<th>Who Profession / organisation</th>
<th>What could and should be done</th>
<th>Potential impact of action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Service Boards</td>
<td>Ensure Local Development Plans and Supplementary Planning Guidance provide guidance on building design that promotes health and well-being</td>
<td>Increase in physical activity rates</td>
</tr>
<tr>
<td>Urban and rural planners</td>
<td>Influence the design of homes, schools, workplaces, hospitals and health and social care facilities</td>
<td>Reduction in chronic conditions</td>
</tr>
<tr>
<td>Health strategy and service planners</td>
<td>Ensure Housing Strategies provide affordable, energy efficient homes and maximise green infrastructure opportunities</td>
<td>Reduction in levels of low mood and anxiety</td>
</tr>
<tr>
<td>Developers</td>
<td>Support the provision of affordable, energy efficient homes</td>
<td>Improved feelings of well-being</td>
</tr>
<tr>
<td>Public health</td>
<td>Ensure natural lighting and good ventilation is provided within homes and buildings</td>
<td>Improved air quality</td>
</tr>
<tr>
<td>Local authorities</td>
<td>Ensure the provision of safe, accessible housing for those with sensory or physical impairments and/or limited mobility and with consideration of dementia friendly environments</td>
<td>Reductions in carbon emissions</td>
</tr>
<tr>
<td>Health Boards / Trusts</td>
<td>Ensure new buildings are linked to the walking and cycling infrastructure</td>
<td></td>
</tr>
<tr>
<td>Natural Resources Wales</td>
<td>Provide cycle parking /storage</td>
<td></td>
</tr>
<tr>
<td>Third sector</td>
<td>Ensure the design of outdoor environments around dwellings and other buildings maximises green infrastructure opportunities</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ensure stairs are clearly signposted, attractive to use and positioned in buildings to encourage use</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Provide electric vehicle charging points in residential areas, workplaces and in commercial developments</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Promote the design of buildings and bridges that reduce the potential for slips or falls and that reduce suicide harm through restricting access to the means of suicide</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Engage communities and stakeholders in the design of local buildings and facilities. Health impact assessment is a useful tool in supporting engagement and involvement.</td>
<td></td>
</tr>
</tbody>
</table>

**Action within this priority area also contributes to :-**

- Accessible and well-maintained green infrastructure, open green spaces and blue spaces
- Low levels of air pollution

## Well-being Goals addressed

- A prosperous Wales
- A resilient Wales
- A healthier Wales
- A more equal Wales
- A Wales of cohesive communities
- A Wales of vibrant culture and thriving Welsh language
- A globally responsible Wales
5. What we can do together

Public Service Boards, urban and rural planners, urban and rural transport planners, health strategy and service planners, developers, public health, local authorities, health boards /trusts, Natural Resources Wales and the third sector all have the potential of influencing the built and natural environment across all or the majority of the priority areas, as Figure 4 highlights.

**Figure 4 Influencers of the priority areas**

<table>
<thead>
<tr>
<th>Walking and cycling infrastructure</th>
<th>Public Service Boards</th>
<th>Urban and rural planners</th>
<th>Urban and rural transport planners</th>
<th>Health strategy and service planners</th>
<th>Developers</th>
<th>Public health</th>
<th>Local authorities</th>
<th>Health Boards / Trusts</th>
<th>Natural Resources Wales</th>
<th>Third sector</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open green /blue spaces and green infrastructure</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Food growing and retail environment</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Community, health and social care services provided from local facilities</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Low levels of air pollution</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Building design</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Partnership working opportunities exist to influence strategies, for example local development plans and transport plans, and to take forward some crucial actions at operational level, for example the provision of green infrastructure and designing well connected communities.
6. Examples of improving well-being through influencing places and spaces

The following provides some examples and case studies that illustrate actions taken by organisations to influence the built and natural environment to improve health and well-being.

**Cardiff Local Development Plan to 2026 and the Planning for Health and Well-being Supplementary Planning Guidance (SPG)**

The SPG provides further guidance on the implementation of the Healthy Living (KP14) and Health (C6) policies within the adopted Cardiff Local Development Plan.

**Health impact assessments (HIA) undertaken of local development plans in Cardiff and the Vale of Glamorgan**

The reports summarise the HIA's of the plans, identifying mitigating and strengthening actions together with statements of how the HIA's have influenced the plans.

**Copenhagen Green Cycle Routes**

Copenhagen commenced its integrated transport plan in 1947 and sustainable development and quality of life are the two themes of Copenhagen’s vision for the future. The Copenhagen Green Cycle Routes are examples of retrofitting and integrating green active travel routes within an existing dense urban setting. The increased investment in public space since the 1970s has been linked directly to a 65% rise in the number of cyclists and a significant drop in both the quantity and speed of traffic.

**Freiburg**

Sustainability policy in Freiburg, Germany since 2009 has focused on transport policy (that avoids car use), community engagement, recycling and waste management, climate protection and open spaces and has resulted in increased walking and cycling, improved road safety and air quality, and increased use of open spaces.

**London**

The London Plan includes commitment to improving health and addressing health inequalities by ensuring co-ordinated investment in physical improvements, co-ordinated planning and action on the environment, climate change and public health and promoting a strong and diverse economy.
NHS England Healthy Towns initiative
NHS England is working with 10 housing developments across England to shape the health of communities. The programme, commenced in 2016, is uniting public health, NHS providers and commissioners, planning and housing developments to plan and build healthier places. It also aims to demonstrate how land can be used to return benefit to local communities and the wider system.

Parc Peulwys, Conwy
Parc Peulwys is a housing estate in North Wales transformed by housing improvements and the provision of green open spaces. A park like atmosphere has been created within a social housing environment, adopted and owned by the community. The estate won a Green Flag Award from Keep Wales Tidy in 2015.

Examples of green active travel routes case studies are available at the Central Scotland Green Network.

Further examples and case studies are available within the Town and Country Planning Association (TCPA) publication ‘Guide 8 Creating health-promoting environments’ page 29-31.

Examples of shared use facilities
- The Bromley By Bow Centre, in Tower Hamlets, combines health and well-being activities, primary care services and a community cafe, with well maintained buildings and open spaces.
- Houghton-le-Spring Primary Care Centre combines health and social care facilities and is linked to an existing sport and leisure facility.
7. Useful resources

• Town and Country Planning Association (TCPA) /Wales Health Impact Assessment Support Unit (WHIASU) report ‘Planning for better health and well-being in Wales. A briefing on integrating planning and public health for practitioners working in local planning authorities and health organisations in Wales’
• TCPA Practical Guides - Guide 8: Creating health promoting environments
• TCPA Guidance on healthy environments
• WHIASU ‘Health Impact Assessment. A practical guide’ (English, Cymraeg)
• WHO Health Economic Assessment Tool (HEAT) for Walking & Cycling

8. References


Public Health Wales
what we do

We exist to protect and improve health and wellbeing and reduce health inequalities for people in Wales. We work locally, nationally and internationally, with our partners and communities, in the following areas:

- **Health Improvement**: Providing information, advice and taking action, across sectors, to promote health, prevent disease and reduce health inequalities
- **Health Protection**: Providing information, advice and taking action to protect people from communicable disease and environmental hazards
- **Health Intelligence**: Providing public health data analysis, evidence finding and knowledge management
- **Microbiology**: Providing a network of microbiology services which support diagnosis and management of infectious diseases
- **Safeguarding**: Providing expertise and strategic advice to help safeguard children and vulnerable adults
- **Screening**: Providing screening programmes which assist the early detection, prevention and treatment of disease
- **Primary, community and integrated care**: Strengthening public health impact through policy, commissioning, planning and service delivery
- **NHS quality improvement and patient safety**: Providing the NHS with information, advice and support to improve patient outcomes