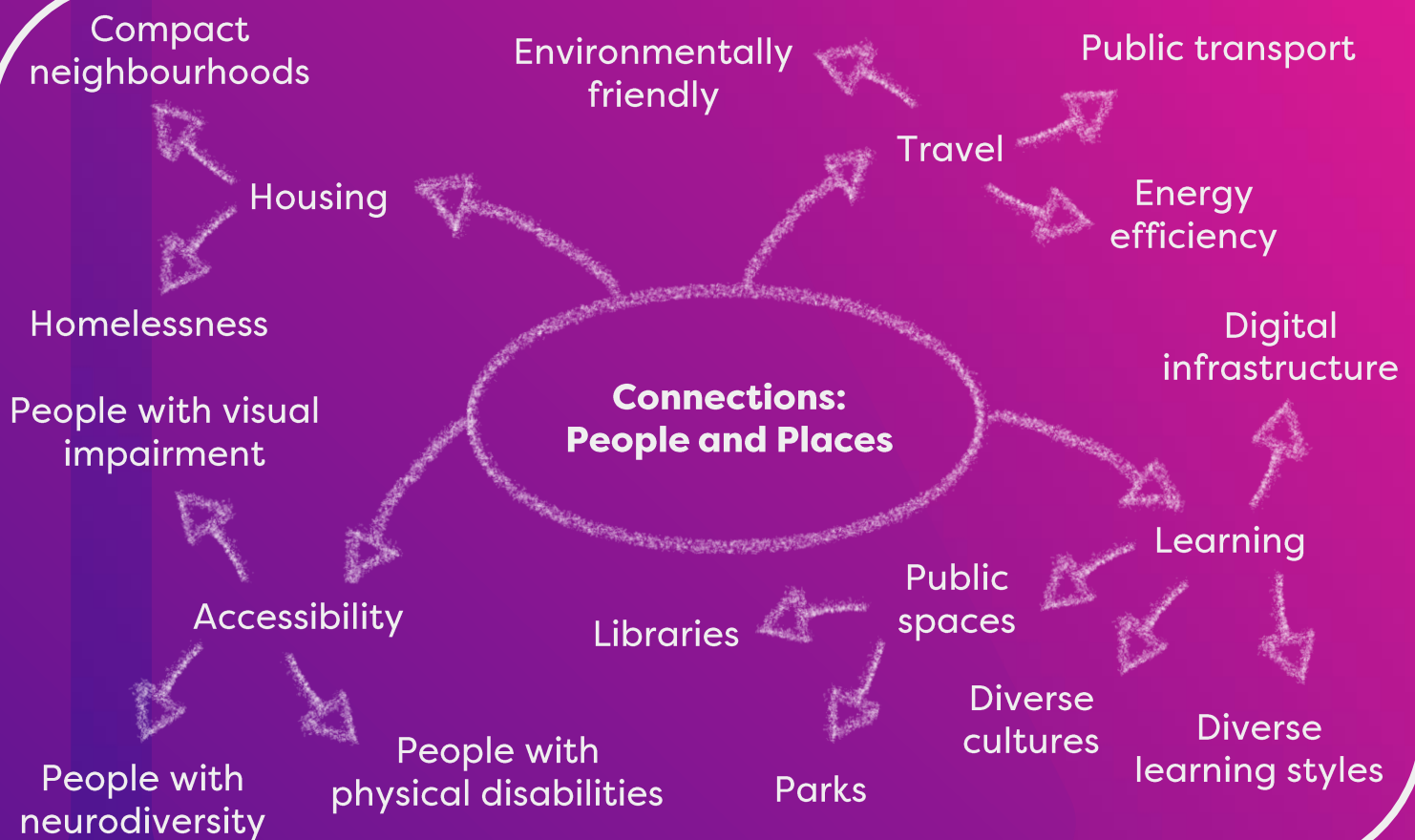


Connections: People and Places

Theme 1



Connections help society work well by linking people and places, making it easier for everyone to learn, work, travel and socialise. When different people are treated fairly and given equal opportunities, diversity can grow, creating a more inclusive world. Good design builds purposeful connections, which help people thrive and build stronger communities.



Example Engineering Design Brief

Public parks are traditionally designed for recreation and physical activity, but they also present an opportunity to support informal learning. Parks could help children develop cognitive, social, physical and creative skills by combining play with learning experiences. Many existing parks lack educational intent, exclude children with different physical or sensory needs or don't take advantage of digital technologies.

Design, develop and test a system or product for a public park that provides safe, inclusive and engaging learning experiences for children aged 4-12 years while remaining durable, low-maintenance and accessible to diverse communities. This could be a physical or digital solution.

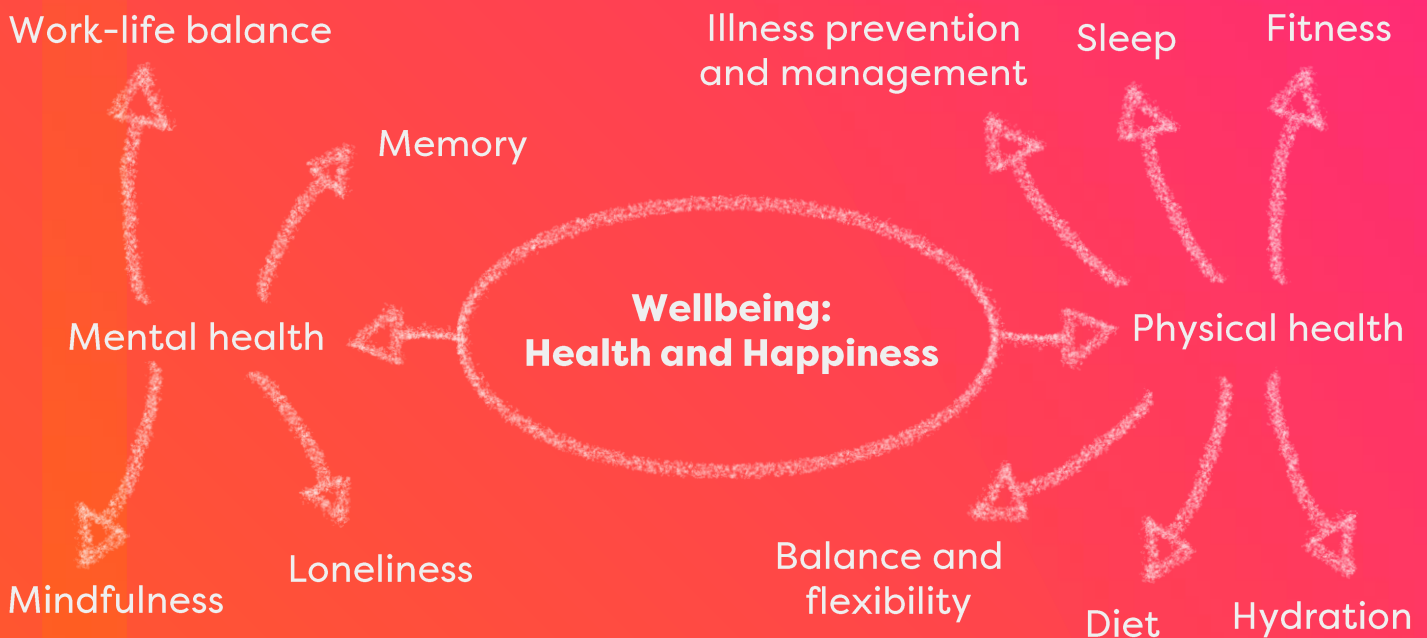


Wellbeing: Health and Happiness

Theme 2



Wellbeing focuses on helping people live healthy, happy and balanced lives. It includes physical health, such as staying active and eating well, as well as mental health, which involves managing emotions and coping with stress. Good design can encourage positive habits, social interaction and a sense of belonging, helping individuals and communities grow stronger together.



Example Engineering Design Brief

Balance and flexibility are essential components of both physical and mental wellbeing. They support safe movement, injury prevention, posture, coordination and independence across all ages. Poor balance and flexibility can contribute to falls, reduced mobility and lower confidence in physical activity. Many existing solutions are not personalised to the user's ability or lack accessibility and inclusive design.

Design, develop and test a user-friendly and adaptable system or product that helps a range of users to improve balance and flexibility, providing meaningful feedback about correct technique and safe movement. This could be a physical or digital solution.



Sustainability: Climate and Conservation

Theme 3



Sustainability focuses on protecting the planet while meeting the needs of people today and in the future. It involves caring for the climate and conserving natural resources such as water, energy and materials. Good design can help save energy and choose materials that are renewable, recycled or longer lasting, reducing environmental impact and protecting ecosystems.



Example Engineering Design Brief

Food waste is a major sustainability challenge. In many households, significant amounts of food are discarded due to poor storage, over-purchasing and forgotten expiry dates. This contributes to unnecessary carbon emissions, wasted water and energy and financial loss for households. Current domestic solutions often rely heavily on user memory, do not provide timely reminders and fail to link environmental impact to daily decisions.

Design, develop and test an economical and easy-to-use system or product that reduces avoidable food waste while integrating seamlessly into everyday food storage and preparation routines. This could be a physical or digital solution.

