

# THE FUTURE OF THE EUROPEAN BUILT ENVIRONMENT

What will the European built environment look like in 2050? It is shaped by the effects of climate change, resource scarcity, changes in population, urbanisation, and focus on health and wellbeing. Buildings integrate a vast amount of technology that connect buildings to information management and sharing platforms. Buildings have evolved into temporary storage of circular materials and products and have become data hubs that support optimal resource efficiency and wellbeing.



## CLIMATE RESILIENT

Buildings are entirely climate resilient, green, energy neutral buildings that are designed to withstand floods and heat stress, and that are part of climate resilient zones and urban areas.



## FLEXIBLE BUILDINGS

Buildings will facilitate flexibility. They are adapted for changes in use on the short-term, while being constructed for the long-term. Smaller and flexible units will provide living spaces for the growing urban population.



## COGNITIVE BUILDINGS

Buildings will be able to autonomously manage its internal climate (light, temperature, air) and efficiently adjust e.g. energy use by themselves. Cognitive buildings are connected to smart grids and are part of the net.



## BUILDINGS FOCUS ON PERFORMANCE

The sustainability, performance, energy performance, and other performance are central drivers for comfortable living and working, and also determine the value of a building.



## ENABLING WORKING AND LIVING IN A 24-HOUR ECONOMY

In our 24-hour global economy buildings will provide continued working and living space. Libraries, sports, shops and other amenities are combined in buildings that provide 24-hour connectivity.



## CIRCULAR BUILDINGS

Buildings are circular built with reused materials and/or recycled materials, are modular and decomposable. They have become a temporary storage of materials and products.



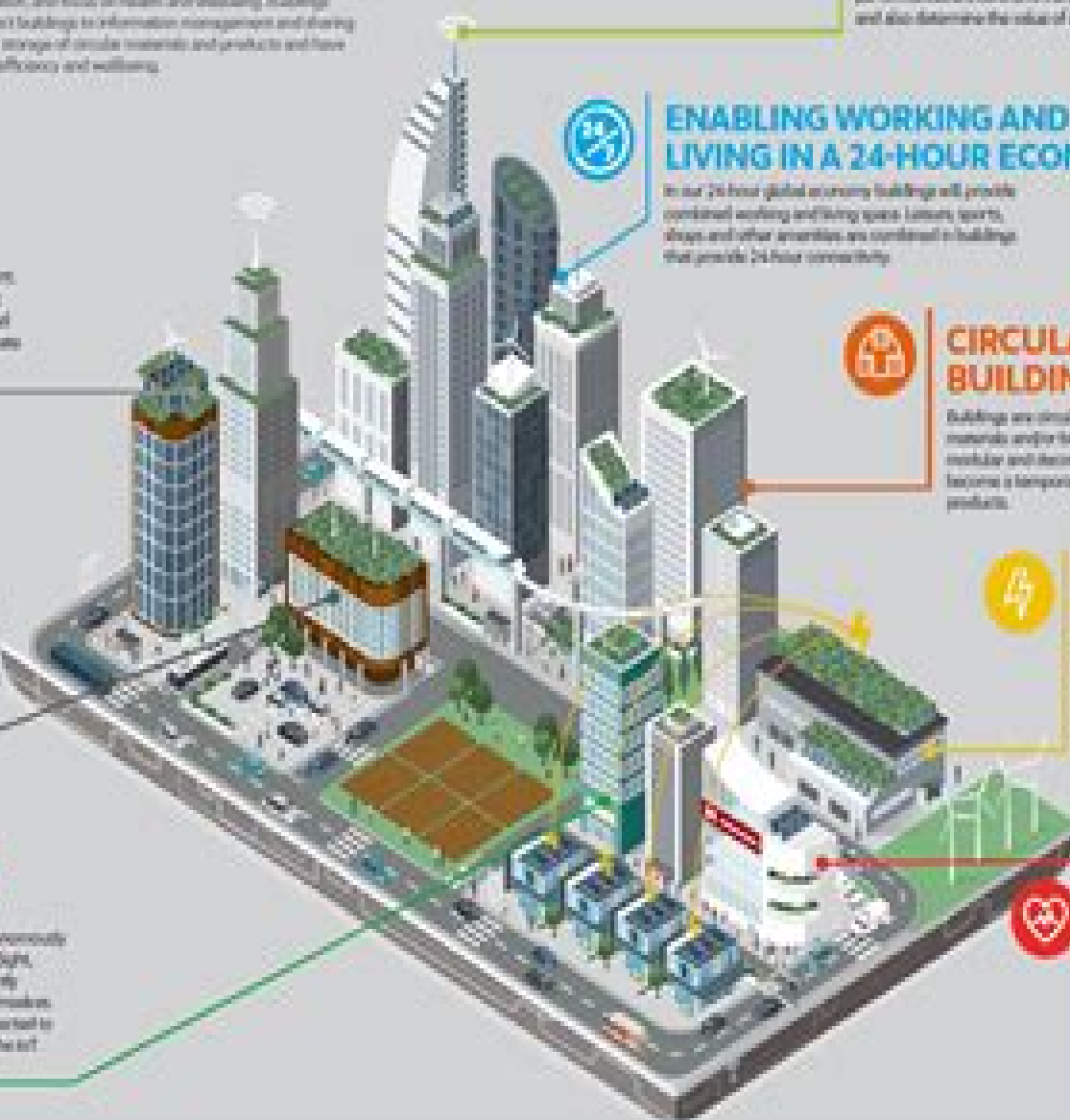
## ENERGY POSITIVE

Buildings create energy through photovoltaic solutions and are highly energy efficient and independent of fossil fuels. Buildings are connected to a smart grid to share and store electricity and heat.



## SUPPORT A HEALTHY LIFESTYLE

Buildings provide a healthy environment: healthy noise management, optimal temperature management, clean air and daylight. The design fully supports the wellbeing of its users.



# Smart And Sustainable Built Environments

**Runming Yao**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

## **Smart And Sustainable Built Environments:**

**Smart and Sustainable Built Environments** Jay Yang, Peter S. Brandon, Anthony C. Sidwell, 2008-04-15 This book brings together a group of international specialists to explore the current state of the art and future potential for encouraging developing and implementing smart and sustainable built environment strategies It covers a broad spectrum of issues ranging from technological advancement through the assessment of past experiences to communication and education requirements and future strategies provides a snapshot of current methods and technologies for developing smart and sustainable built environment strategies over 30 fully refereed chapters from international experts addresses the particular requirements and problems of different areas and climatic regions *Smart and Sustainable Built Environments*, 2007 Sustainable development is rapidly becoming a global phenomenon the remit of which encompasses a wide range of professions and societal interest groups This collection of papers from the CIBT ask Group 55 smart and sustainable built environments presents key findings to date on a wide range of current research and practice in this emerging field in order to promote awareness understanding and synergy The first five papers in this e book focus directly on sustainability while the final three papers identify cross cutting themes as associated with tools processes and culture **Smart and Sustainable Cities and Buildings** Rob Roggema, Anouk Roggema, 2020-05-11 This book brings together the papers presented at the Smart and Sustainable Built Environments Conference 2018 SASBE This latest research falls into two tracks smart and sustainable design and planning cities and the technicalities of smart and sustainable buildings The growth of smart cities is evident but not always linked to sustainability This book gives an overview of the latest academic developments in increasing the smartness and sustainability of our cities and buildings Aspects such as inclusivity smart cities place and space the resilient city urbanity and urban ecology are prominently featured in the design and planning part of the book while energy educational buildings comfort building design construction and performance form the sub themes of the technical part of the book This book will appeal to urban designers architects urban planners smart city designers and sustainable building experts [Proceedings of the International Conference on Sustainable Development and Smart Built Environments](#) Ali GhaffarianHoseini, Amirhosein G. haffarianHoseini, Farzad Rahimian, Mahesh Babu Purushothaman, 2025-04-12 This book presents peer reviewed articles from the International Conference of Sustainable Development and Smart Built Environments SDSBE2024 held from 6-8 Nov at Auckland New Zealand It encapsulates cutting edge research in Sustainable Development and Smart Built Environments featuring global scholars Encompassing diverse themes the book explores sustainable urban development governance and policy emphasizing urban greening and climate resilience It delves into innovative approaches for sustainable transport intelligent infrastructure and community well being The integration of Data Science AI and IoT for optimizing built environments is a focal point alongside advancements in digital twins and OpenBIM Social aspects including equity and indigenous perspectives are explored along with health considerations in urban settings The proceedings serve as

a comprehensive resource reflecting the multifaceted advancements driving sustainable and smart urban futures

*Proceedings of the International Conference on Smart and Sustainable Built Environment (SASBE 2024)* Ali GhaffarianHoseini, Amirhosein Ghaffarianhoseini, Farzad Rahimian, Mahesh Babu Purushothaman, 2025-04-19 This book presents peer reviewed articles from the International Conference of Sustainable Development and Smart Built Environments SDSBE2024 held from 6-8 Nov at Auckland New Zealand. It encapsulates cutting edge research in Sustainable Development and Smart Built Environments featuring global scholars. Encompassing diverse themes, the book explores sustainable urban development, governance, and policy, emphasizing urban greening and climate resilience. It delves into innovative approaches for sustainable transport, intelligent infrastructure, and community well-being. The integration of Data Science, AI, and IoT for optimizing built environments is a focal point, alongside advancements in digital twins and OpenBIM. Social aspects, including equity and indigenous perspectives, are explored along with health considerations in urban settings. The proceedings serve as a comprehensive resource reflecting the multifaceted advancements driving sustainable and smart urban futures.

**Sustainable Built Environment and Urban Growth Management** Wann-Ming Wey, 2020-02-21 Nowadays the sustainable built environment planning in most cities has come to a turning point as the growth in traffic and population has become a serious concern and put tremendous pressure on both the environment and people in these cities. It is therefore important to find new ways or lifestyles such as compact city, transit oriented development, TOD formulations that are more flexible, inclusive, and sustainable. Furthermore, for the sustainable built environment and urban growth management, not only should the growth management principles which include smart growth, sustainable growth, and inclusive growth be taken into account, but innovative smart planning strategies such as mixed use design, green transport, and new urbanism are also utilized in planning sustainable built environments in order to prevent the urban sprawl development that has occurred.

*Sustainable Built Environment for People and Society*, 2025-07-30 The pursuit of sustainable built environments has become a strategic global priority in addressing the complex interplay of social, economic, environmental, and human development challenges outlined in the United Nations Sustainable Development Goals (SDGs). Accelerating urbanization, climate risks, and widening inequality are placing unprecedented strain on cities and communities, demanding a fundamental shift in how we design, deliver, and manage the built environment. Sustainable built environments are central to achieving key Sustainable Development Goals (SDGs), particularly SDG 11 (Sustainable Cities and Communities), SDG 3 (Good Health and Wellbeing), SDG 7 (Affordable and Clean Energy), and SDG 13 (Climate Action). Built infrastructure must minimize environmental impact, maximize energy efficiency, and enhance the quality of life while placing people at the center, ensuring inclusivity, resilience, and adaptability to future needs. A leading example of this approach is the Zero Energy Mass Custom Home (ZEMCH) initiative. ZEMCH promotes the delivery of affordable, high-performance housing that meets both individual and community needs. By combining mass customization with energy-efficient design and renewable energy technologies, ZEMCH

homes aim to achieve net zero energy consumption reduce their carbon footprint and enhance occupant wellbeing Equity and accessibility must also be embedded in the built environment ensuring that all individuals regardless of income age or ability can access safe functional and dignified spaces Ultimately sustainable development is not only about constructing greener buildings but also about shaping environments that foster social cohesion environmental stewardship and long term wellbeing Achieving this requires cross sector collaboration meaningful community engagement and the integration of sustainability principles throughout the entire lifecycle of the built environment transforming it into a catalyst for positive change for both people and society

*Sustainable Futures in the Built Environment to 2050* Tim Dixon, John Connaughton, Stuart Green, 2018-01-09 Brings together leading thinking on issues of new professional practice and on the future of a sustainable built environment This book focuses on both construction and development issues and examines how we can transition to a sustainable future by the year 2050 bringing together leading research and practice at building neighbourhood and city levels It deftly analyses how emerging socio economic technological and environmental trends will influence the built environment of the future The book covers a broad spectrum of interests across the scales of buildings communities and cities including how professional practice will need to adapt to these trends The broader context is provided by an analysis of emergent business models and the changing requirements for expert advice from clients *Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development* features chapters covering data and trends including historical data and UK and international case studies policies and practice related to the field current state of scientific understanding key challenges key technological advances including disruptive and systemic technological innovations change issues and critical uncertainties and future visions It provides A strong conceptual framework based on a Foresight approach Discussion of the key data and trends that underpin each chapter Coverage of both construction and property development Specially commissioned chapters by academics and practitioners A synthesis of the main findings in the book and key insights for the future to 2050 *Sustainable Futures in the Built Environment to 2050 A Foresight Approach to Construction and Development* is an important book for postgraduate students and researchers construction real estate and property development specialists engineers planners architects foresight and futures studies specialists and anyone involved in sustainable buildings

*Sustainable Built Environments* Vivian Loftness, 2020-09-23 This volume in the Encyclopedia of Sustainability Science and Technology Second Edition describes the breadth of science and engineering knowledge critical to advancing sustainable built environments from architecture and design mechanical engineering lighting and materials to water and energy public policy and economics Covering both building landscape and green infrastructure design and management detailed consideration is given to how the building sector the biggest player in the energy use equation can minimize energy demand while providing measurable gains for productivity health and the environment With a focus on the environmental context the reader will understand how sustainable design merges the

natural minimum resource conditioning solutions of the past daylight solar heat and natural ventilation with the innovative technologies including nature based solutions of the present The desired result is an integrated intelligent and as socially just as possible system that supports individual control with expert negotiation for resource consciousness     Smart Technologies and Design For Healthy Built Environments Ming Hu,2020-09-10 Smart Technologies and Design for Healthy Built Environment connects smart technology to a healthy built environmentthat builds upon the sustainable building movement It provides an overall summary of the state of the art technologies that are applied in the built environment The book covers a broad spectrum of smart technology categories ranging from dynamic operability energy efficiency self regulating and self learning systems and responsive systems The foreseeable challenges that are associated with smart technologies are discussed and outlined in the book Firstly this book provides a snapshot of state of the art smart technologies being applied in the built environment It covers a broad spectrum of smart technology categories ranging from dynamic operability energy efficiency self regulating and self learning systems to responsive systems Secondly this book provides in depth analysis of the four primary components of health biological physical physiological and psychological their effects on wellbeing and cognitive performance are introduced as well Thirdly it connects smart technologies to those health influencing factors by reviewing three completed smart building projects This book can also serve as a basis for education and discussion among professionals and students of diverse backgrounds who are interested in smart technologies smart building and healthy building Smart Technologies and Design for Healthy Built Environment serves as the basis for education and discussions among professionals and students who are interested in smart technologies smart building and healthy building as it bridges the gap between smart technologies and a healthy built environment The book also provides a foundation for anyone who is interested in the impact of smart technology on the health of built environment

## Decoding **Smart And Sustainable Built Environments**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Smart And Sustainable Built Environments**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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