

# 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. Cafeterias, 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

**Mike Jess**



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