PLANNING FOR CLIMATE CHANGE AND RAPID URBANISATION

CONTINUING PROFESSIONAL DEVELOPMENT, LECTURE SERIES FOR PROFESSIONALS

Thank you for joining!
This lecture will begin shortly at 12PM BST



Lecture Series

Overview of the seven lectures forming part of this series:

- Introduction to the UN 2030 Sustainable Development Goals, Mina Hasman, SOM
 Provides an overview of the UN 2030 SDGs together with other related international agreements, and describes the importance of the Goals for Built Environment Professionals.
- 2. Planning for Rapid Urbanisation, Ben Bolgar, The Prince's Foundation
 Outlines a framework for use in secondary cities which are experiencing rapid growth but which may have little or no access to professional planning expertise.
- 3. Planned City Extensions, Alfredo Caraballo, Allies and Morrison
 Provides a reminder of key master-planning and urban design principles such as: site analysis, micro-climate design, density, mixed use, walkability etc.
- **4. Resilient Infrastructure**, Ian Carradice, Arup Explains the context, relevance and drivers to develop resilient infrastructure by adopting an integrated design approach and considering planetary solutions to address climate related challenges..
- Climate Responsive Design, Peter Clegg, Isabel Sandeman and Rachel Sayers from FCB Studios, and Rafiq Azzam, Shatotto Part one is focused on 'A Manifesto for delivering Climate Responsive Design', and Part Two, entitled 'Collaborating for Sustainable Development', provides a case study of how the principles of Climate responsive design have be used on a project in Bangladesh to create an inspiring and comfortable educational environment for the Aga Khan Academies Unit.
- **6. Heritage-led Regeneration**, Geoff Rich, Feilden Clegg Bradley Studios

 Describes the value of heritage led regeneration in terms of the reuse of existing buildings, and the potential to generate social and economic development.
- 7. Sustainable Outcomes Guide, Gary Clark, HOK London Studio
 Provides a practical explanation of the outcomes that need to be delivered if we are to achieve development which is sustainable. Includes meaningful, measurable targets and associated metrics.

UN 2030 SUSTAINABLE DEVELOPMENT GOALS

FROM PRINCIPLES TO PRACTICE

JULY 2020



UN 2030 SDGs

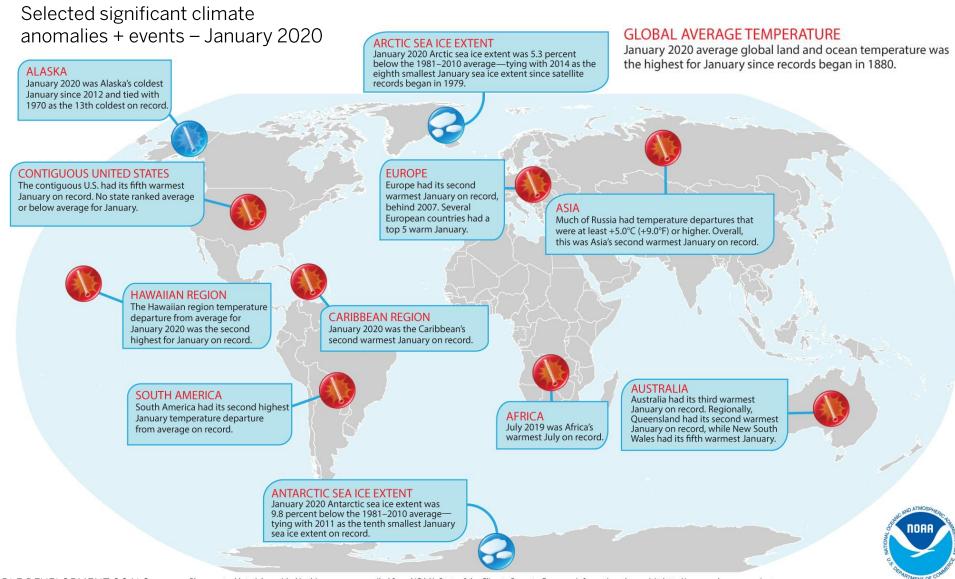
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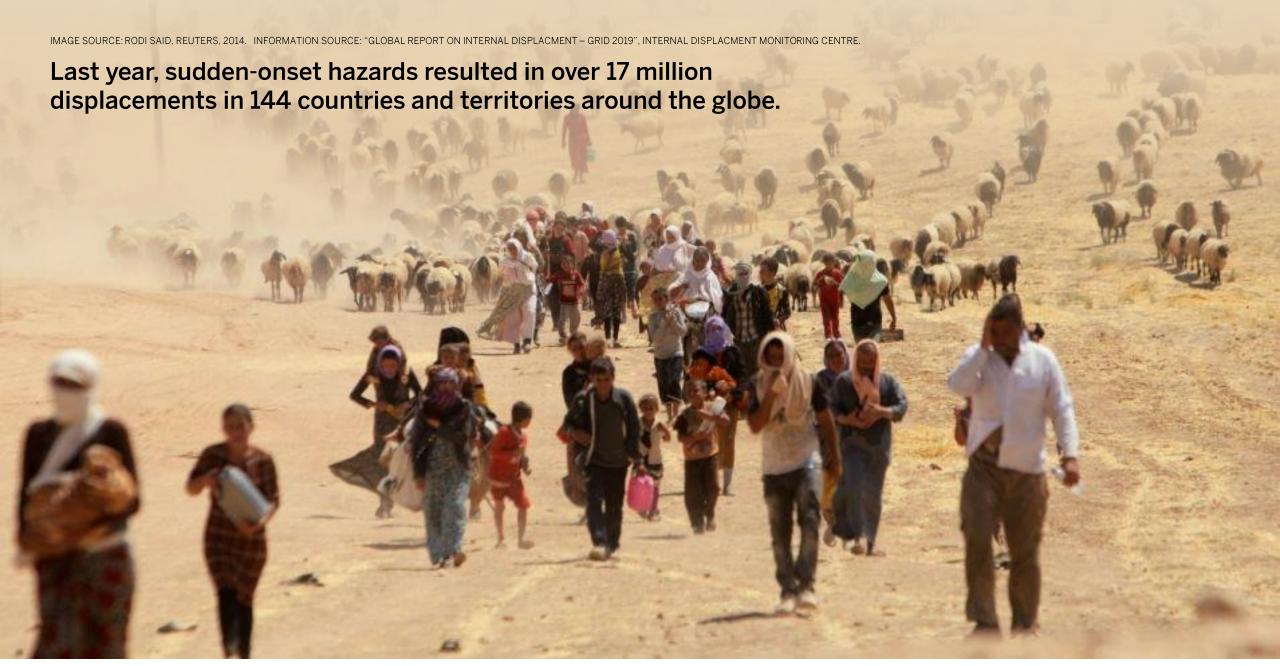
- 1. to inform on the global climate change context as it relates to built environment and people
- 2. to give insights on the international commitments that aim to address climate change
- 3. to provide a detailed understanding of the UN 2030 Sustainable Development Goals





... Where climate anomalies and extreme events are experienced more frequently.







In the next 35 years, over 230 billion m² of buildings will be constructed and/or renovated in cities worldwide.

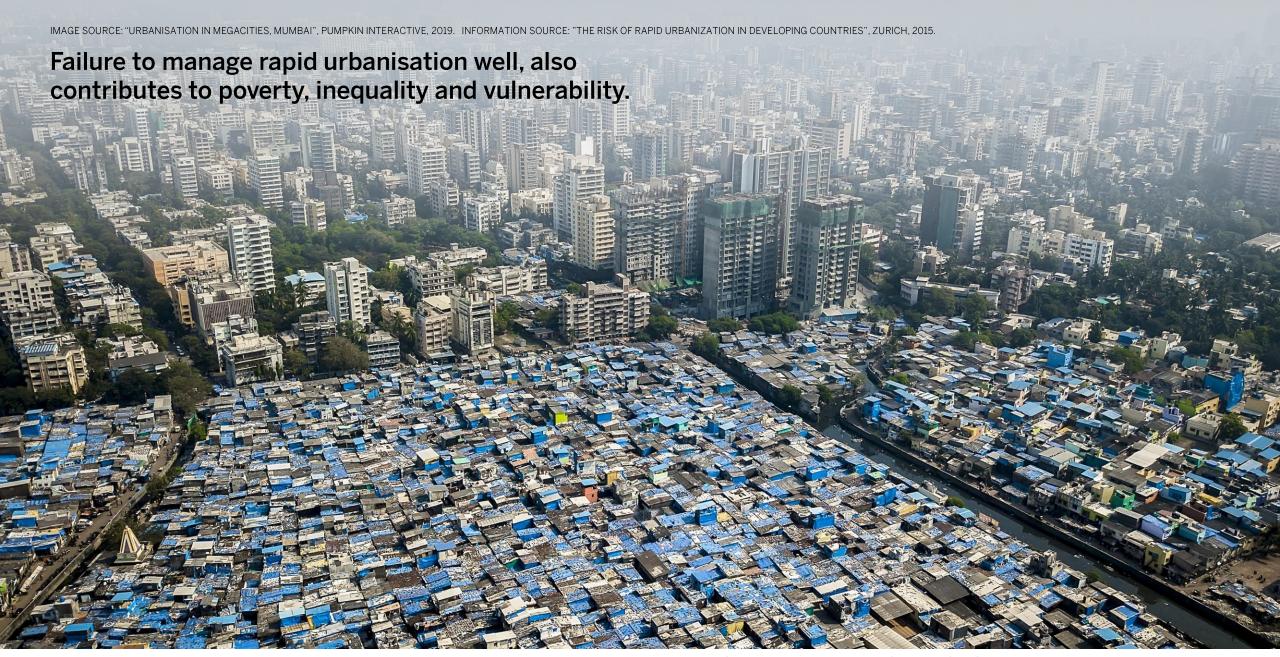


This is an area equal to the entire current, global building stock.



Buildings generate nearly 40% of annual, global Greenhouse Gas emissions.





Climate change is expected to cause approximately 250,000 additional deaths/year.













https://www.un.org/en/

https://www.worldgbc.org/

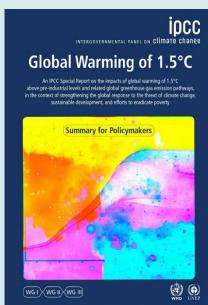
https://globalabc.org/



https://www.unece.org/runcwelc ome/publications/regional-uncoordination/2016/2030sustainable-development-agendajoint-positioning/docs.html



https://unfccc.int/process-andmeetings/the-parisagreement/the-paris-agreement

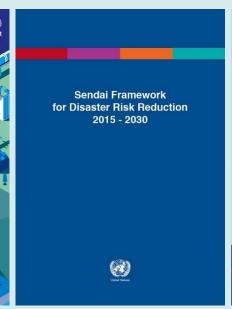


https://www.ipcc.ch/site/assets/ uploads/sites/2/2019/06/SR15_ Full_Report_High_Res.pdf



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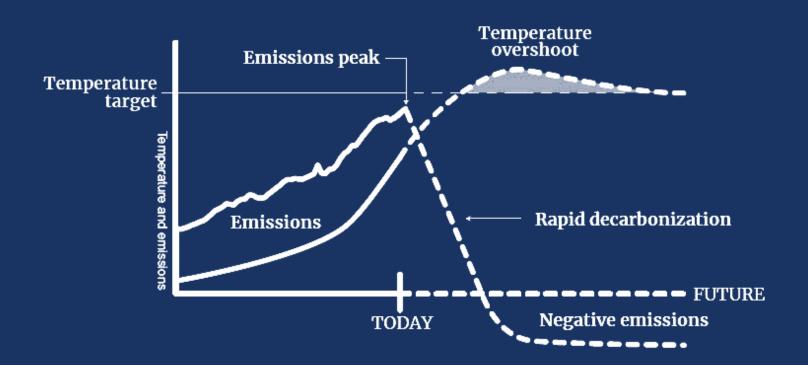


The Paris Agreement – established in 2015 at the 21st Session of the Conference of Parties (COP21) – brings all nations together to combat climate change – by accelerating and intensifying actions and investments needed for a sustainable, low carbon future.

COP21/CMP11

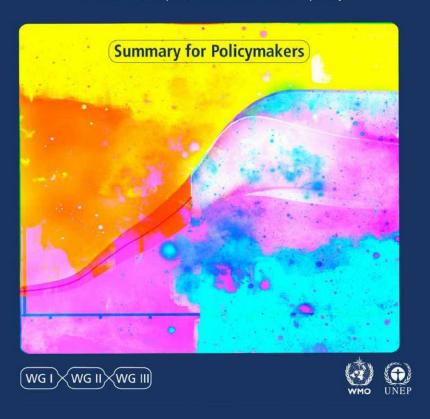


IPCC's Special Report on *Global Warming of 1.5*°C highlights the need for "deep emissions 'reductions", and "rapid, far-reaching and unprecedented changes in all aspects of society" to limit global warming to 1.5°C.



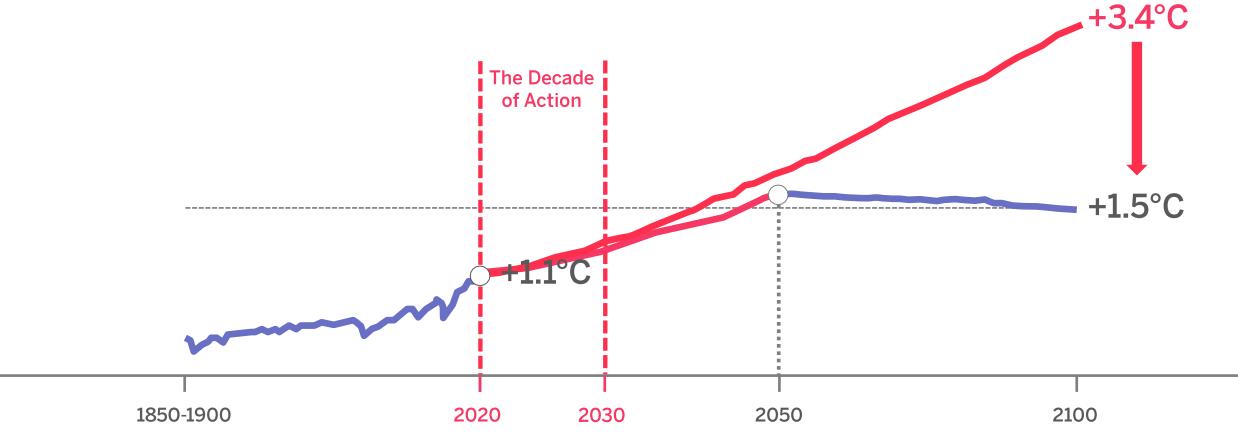
Global Warming of 1.5°C

An IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty



"...1.5°C would require rapid and far-reaching transitions... at an unprecedented rate".

(UN Special Report, Global Warming of 1.5°C, October 2018)



UNEP's *Emissions Gap Report* presents the latest data on the expected gap in 2030 for the 1.5°C and 2°C temperature targets of the Paris Agreement.

The latest report of 2019 looked at the potential of the energy transition and efficiency in the use of materials.

5x increase

in collective current commitments







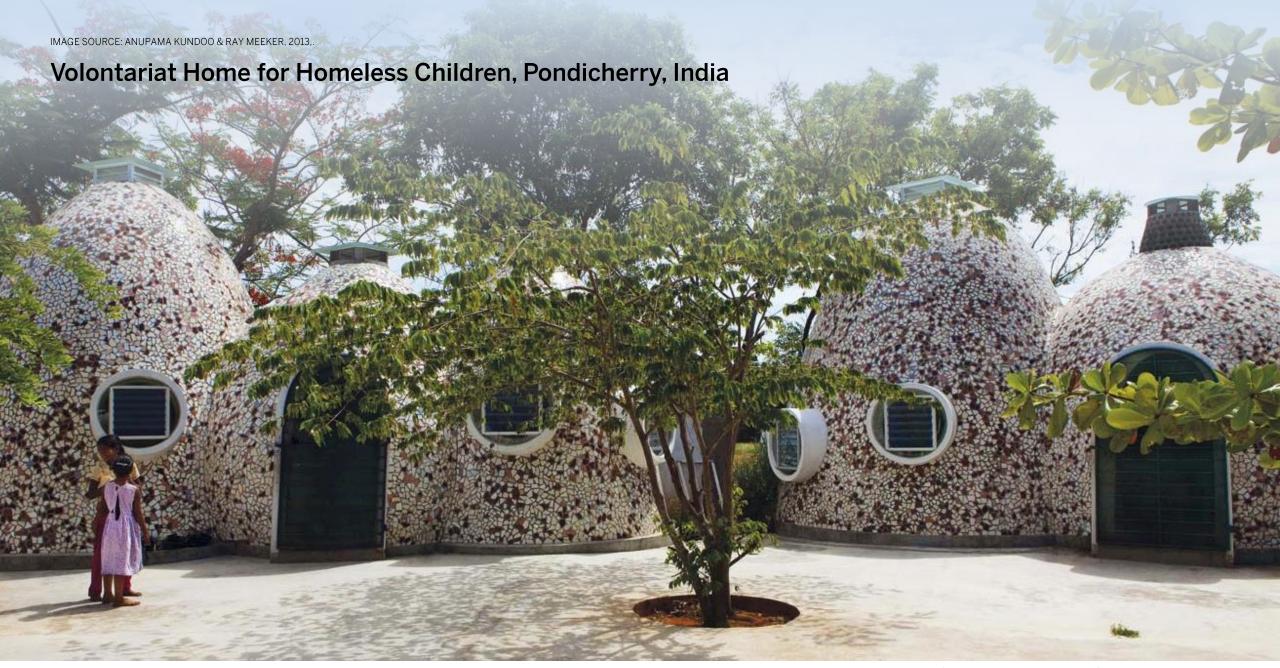


The 17 UN Sustainable Development Goals (SDGs) are an urgent call for action by all countries in a global partnership.

The SDGs are universal. The SDGs are about integration. The SDGs are about transformation. 13 MORELCINA







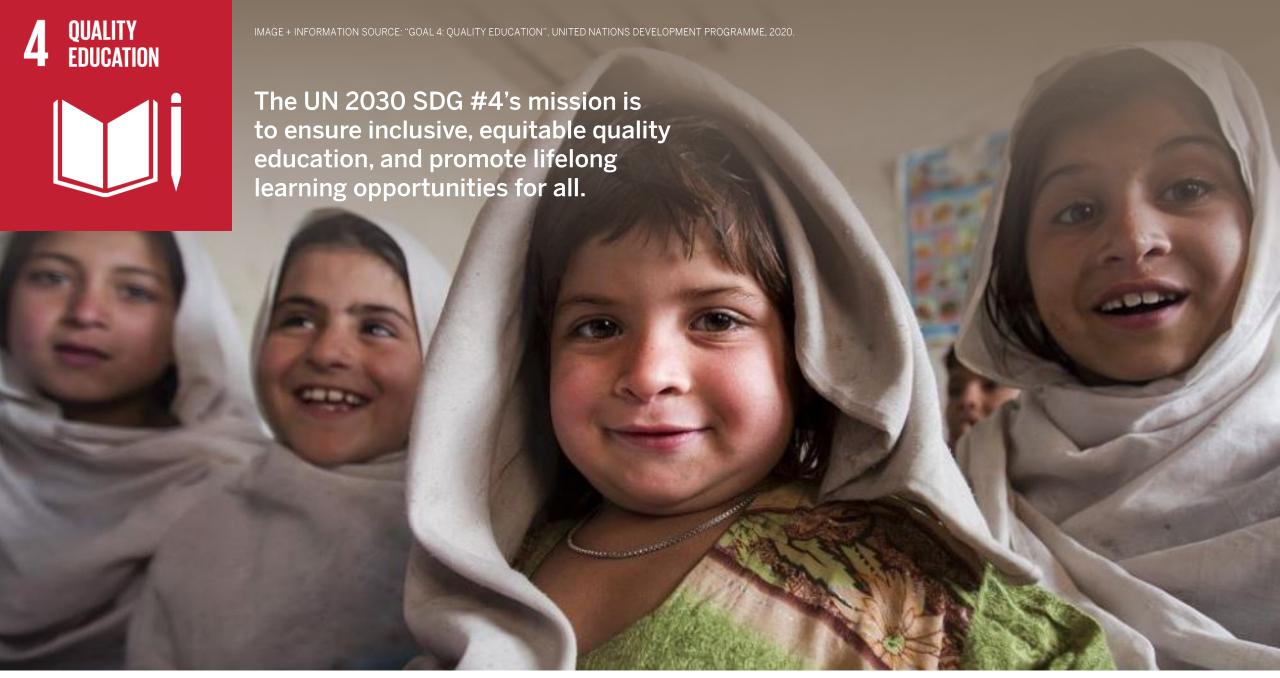












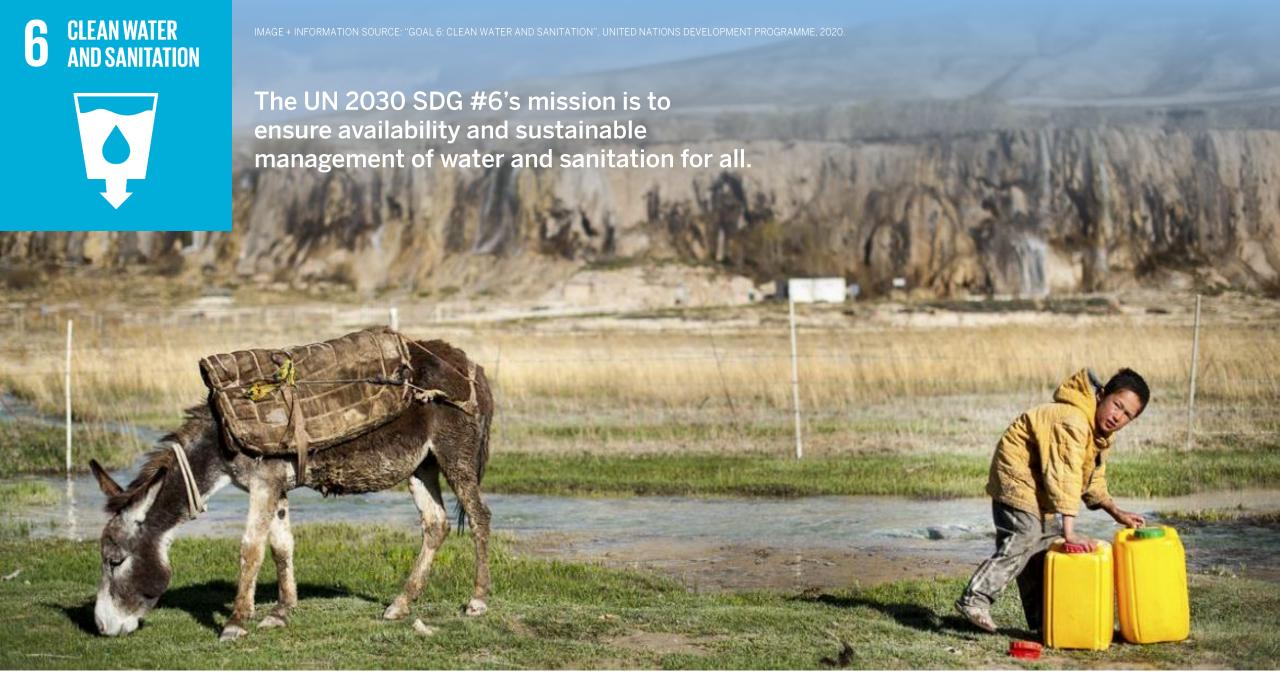
































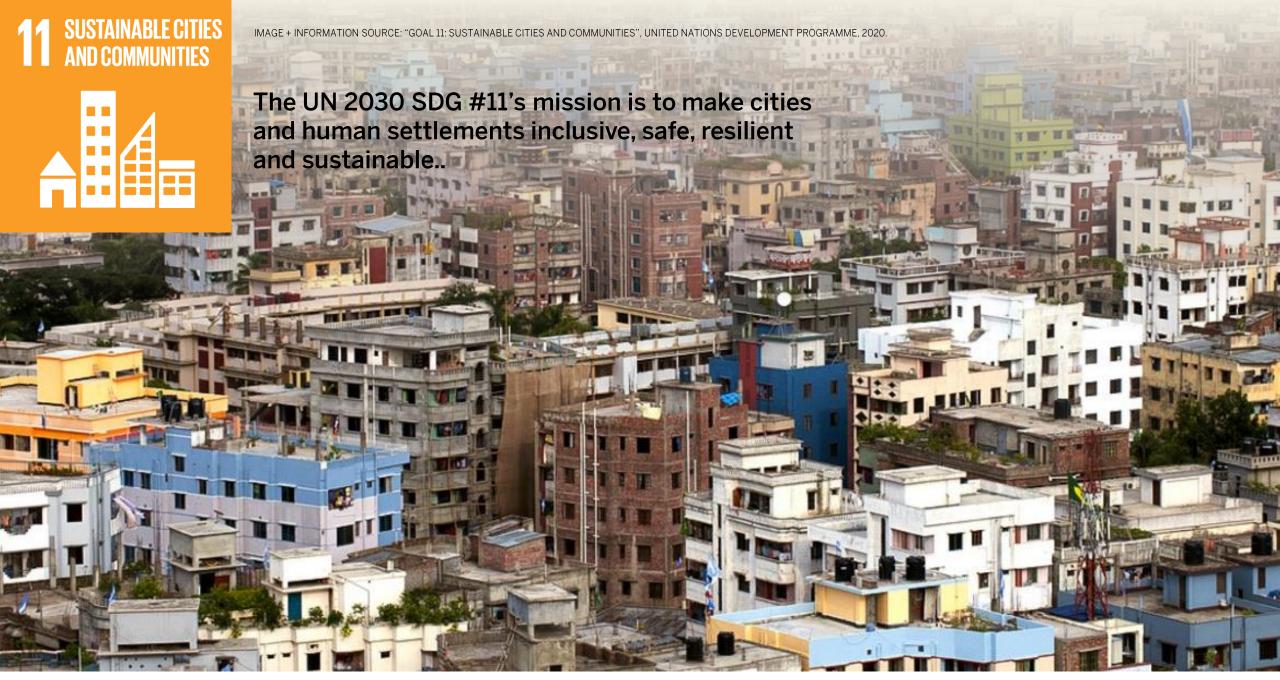
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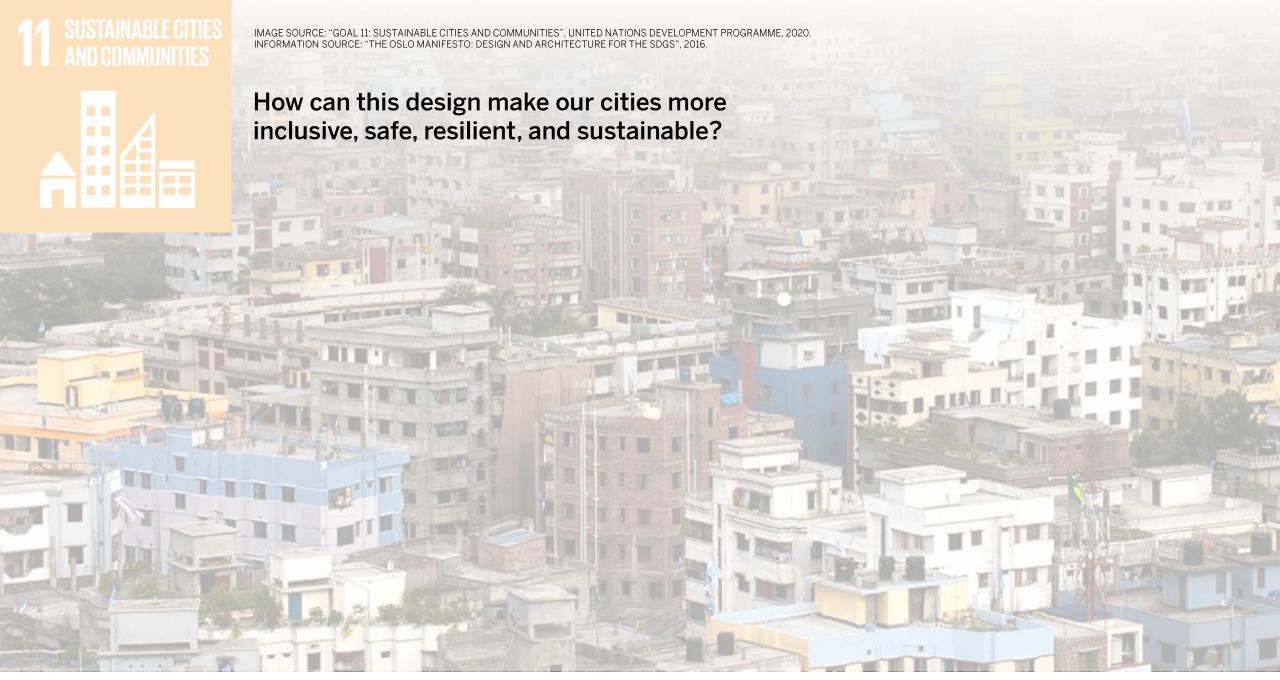




















13 CLIMATE ACTION



The UN 2030 SDG #13's mission is to take urgent action to combat climate change and its impacts.



13 CLIMATE ACTION

IMAGE SOURCE: "GOAL 13: CLIMATE ACTION", UNITED NATIONS DEVELOPMENT PROGRAMME, 2020. INFORMATION SOURCE: "THE OSLO MANIFESTO: DESIGN AND ARCHITECTURE FOR THE SDGS", 2016.



How can this design be part of the urgent action that is needed to combat climate change and its impacts?









IMAGE SOURCE: "GOAL 14: LIFE BELOW WATER", UNITED NATIONS DEVELOPMENT PROGRAMME, 2020.
INFORMATION SOURCE: "THE OSLO MANIFESTO: DESIGN AND ARCHITECTURE FOR THE SDGS", 2016.

How can this design be part of caring for our oceans and seas?











The UN 2030 SDG #16's mission is to promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective, accountable and inclusive institutions at all levels.





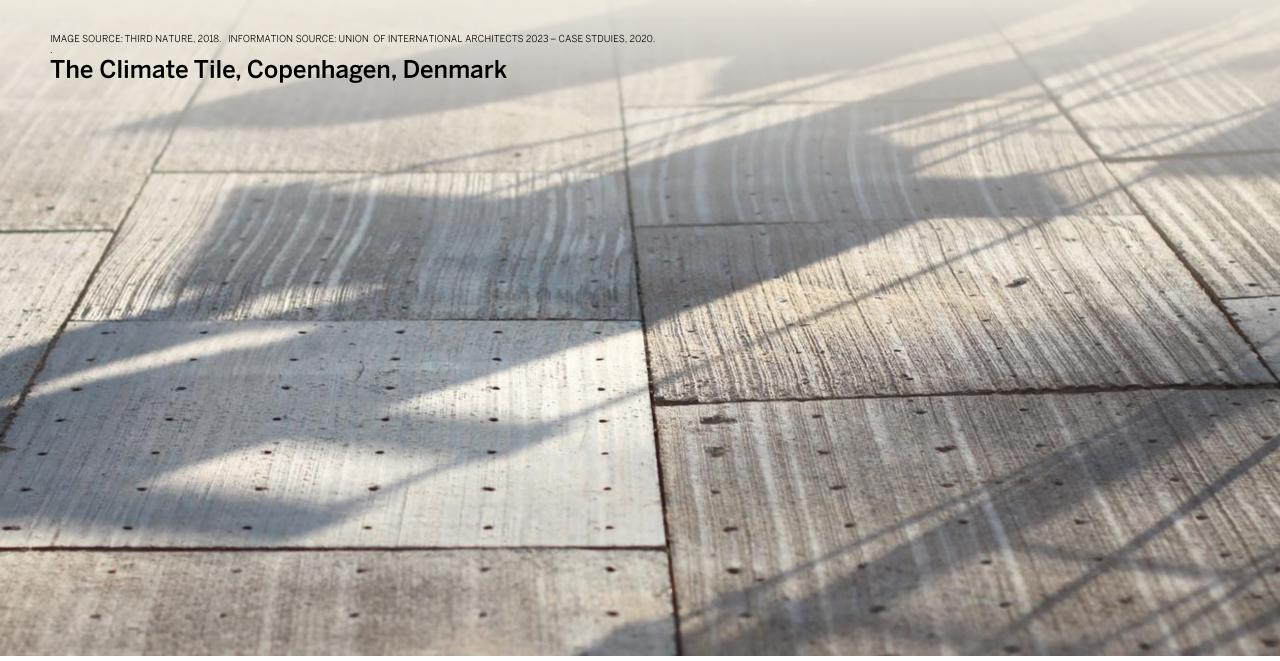
How can this design contribute to the development of peaceful, inclusive, and just societies?



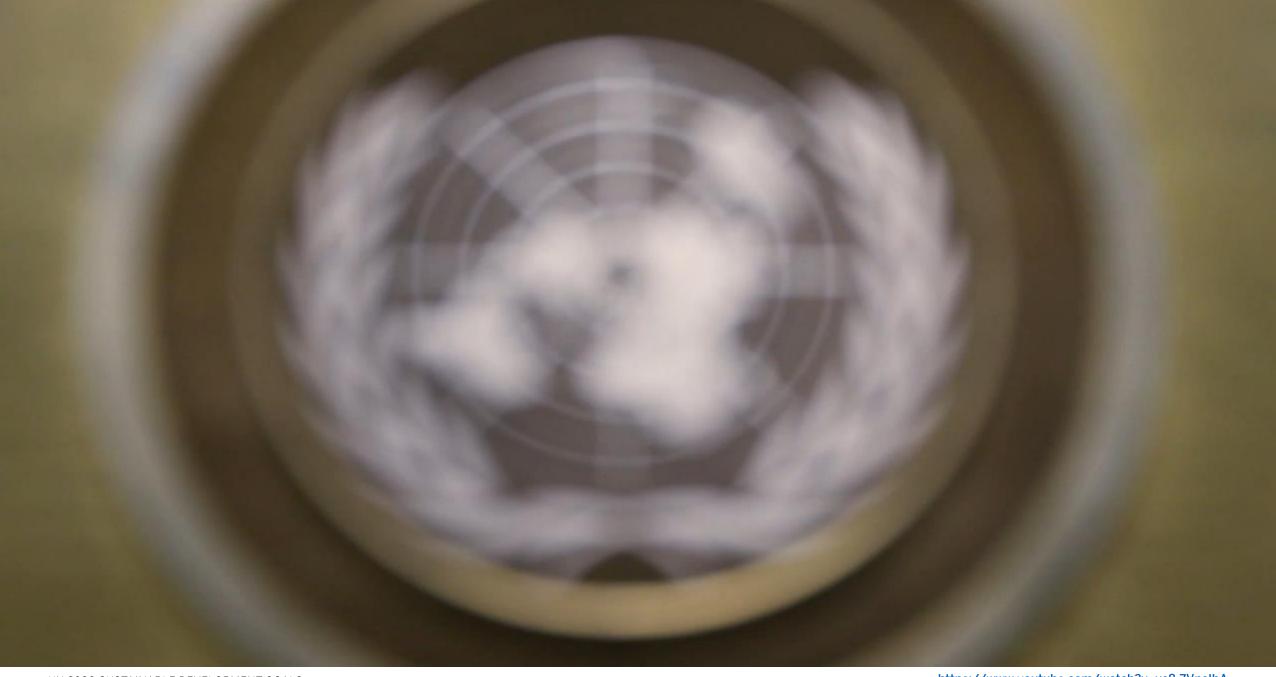








SDGs as a powerful tool to create change.







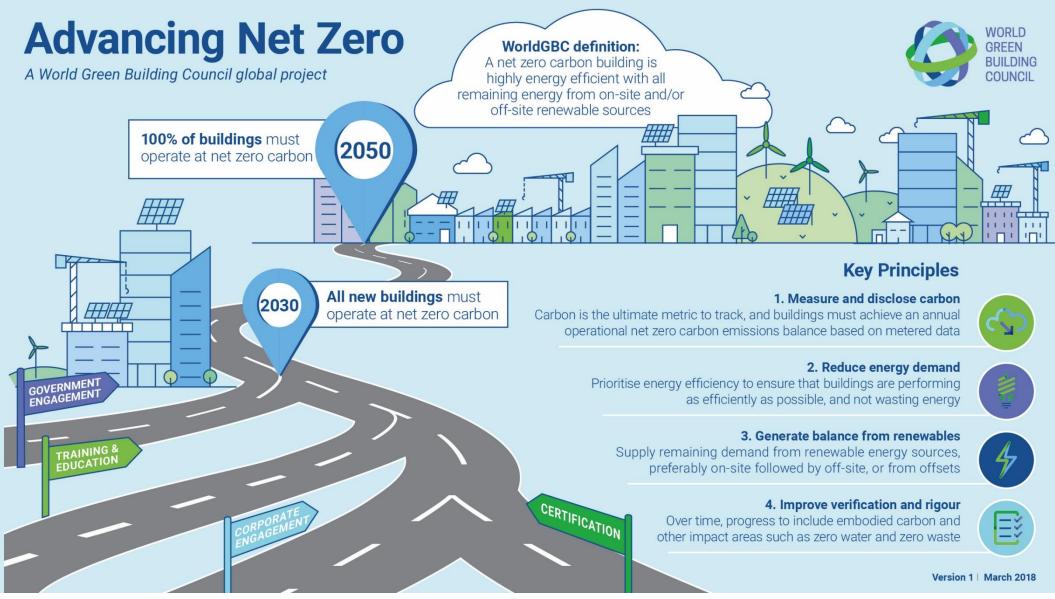




https://www.un.org/en/

https://www.worldgbc.org/

https://globalabc.org/



The Global Alliance for Buildings and Construction (GlobalABC) connects private sector and organisations to drive the transformation towards a zero-emissions, efficient, and resilient buildings and construction sector.

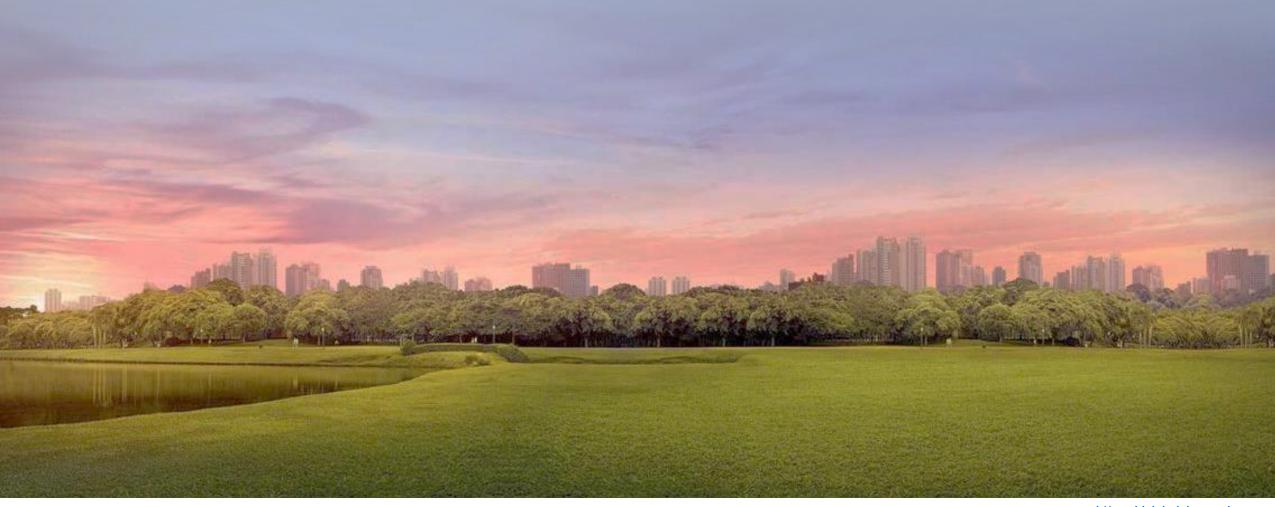
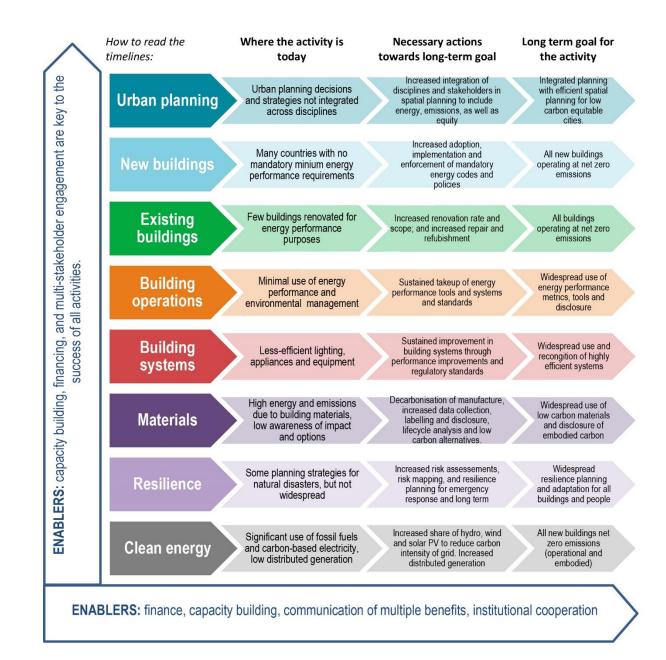




IMAGE + INFORMATION SOURCE: "GLOBAL ROADMAP FOR BUILDINGS AND CONSTRUCTION 2020-2050", GLOBAL ALLIANCE FOR BUILDINGS AND CONSTRUCTION, 2020.

"A Pathway to 2050" roadmap identifies that – with capacity building, multistakeholder engagement and financing – the transition towards zero-emissions is possible.



We must be bold enough to demand meaningful change, and inventive enough to make it a reality!



THANK YOU

SOM

Commonwealth Association of Architects

Engaging with the UN 2030 Sustainable Development Goals

We hope you found this lecture of interest and that you will be interested in the other lectures in this series:

- 1. Introduction to the UN 2030 Sustainable Development Goals
- 2. Planning for Rapid Urbanisation
- 3. Planned City Extensions
- 4. Resilient Infrastructure
- 5. Climate Responsive Design
- 6. Heritage-led Regeneration
- 7. Sustainable Outcomes Guide

The Commonwealth Association of Architects would like to extend its thanks to all the contributors for their support in the creation of this pilot programme. The CAA welcomes feedback together with suggestions for future topics and would be pleased to hear from subject matter experts from around the Commonwealth who may be interested in contributing future material.

For this or any other issue, please contact: admin@comarchitect.org

Thank you for joining!

@comarchitect
www.comarchitect.org
admin@comarchitect.org

www.commonwealthsustainablecities.org/cpd

