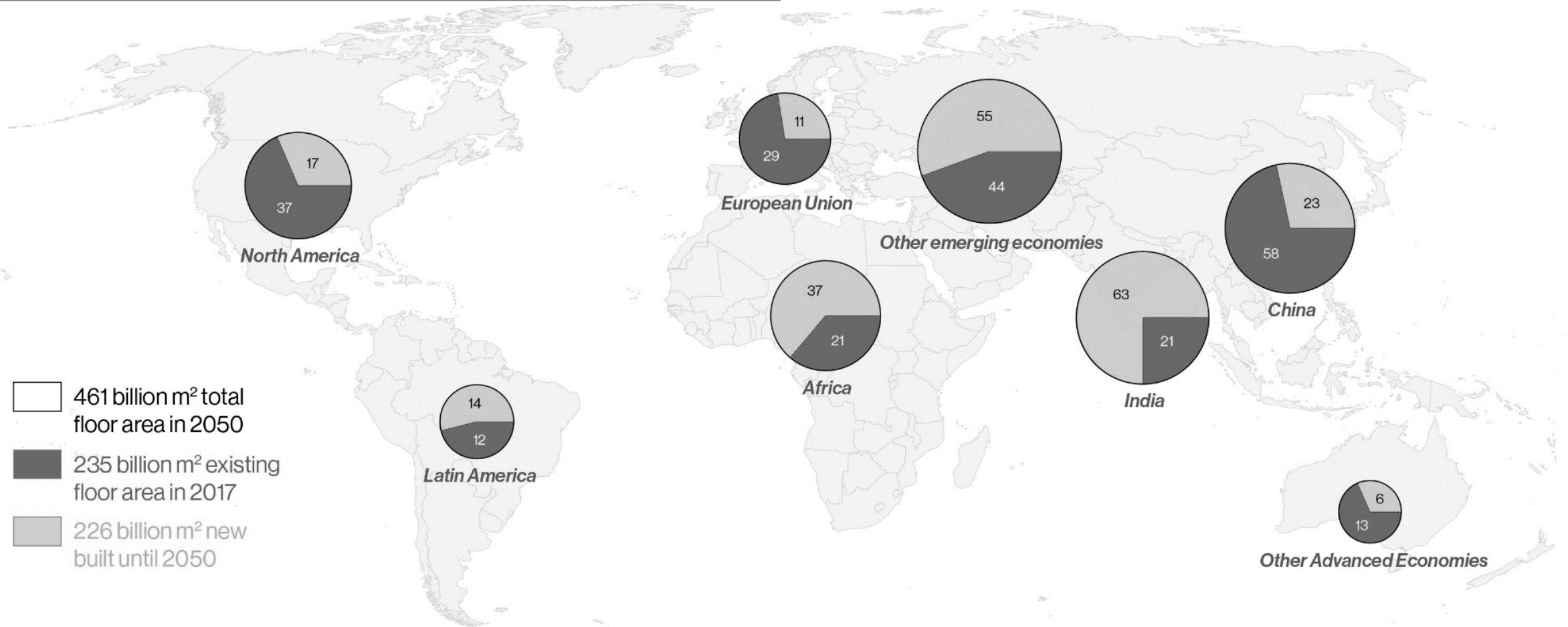


CLIMATE – CARBON - CULTURE

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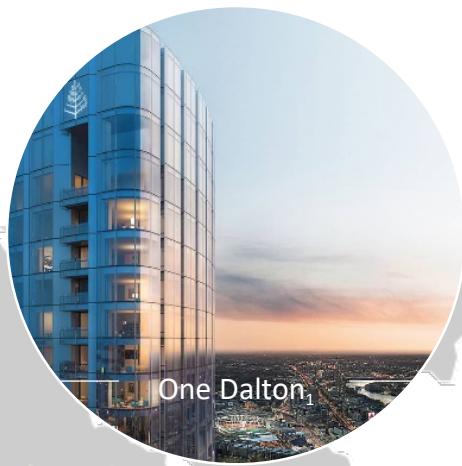
PhD Candidate, MIT Architecture
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June 21, 2021



The building stock, and related **GHG emissions**, will double until 2050 and **68%** of world population will leave in cities.

Reinhart C., Weber R. MIT Grand Climate Challenge. 2020

United Nations, Department of Economic and Social Affairs, Population Division(2018).
World Urbanization Prospects: The 2018 Revision.



One Dalton₁



CBE₂



Ahuja Towers₃

B Boston

M Mumbai

A Addis Ababa

With the **advancement of technologies** in the building industry, what was scarcely imaginable few decades ago in terms of climate and **comfort regulation** has now become a reality. This has led to an **increase in energy and material consumption**.

CLIMATE IS BEING IGNORED IN BUILDING DESIGN AND CONSTRUCTION

¹Boston, One Dalton to be the tallest new tower in the city, fourseasons.com

²Addis Ababa, Commercial Bank of Ethiopia HQ to be east Africa's tallest building, nazret.com

³Mumbai, Ahuja Towers, architecturescope.com



*“Futuristic city . . . Technologically advanced, and nothing from the past”
Akon City in Senegal*



LOW TECH
/PASSIVE



HIGH TECH
/ACTIVE

CREATIVE INNOVATION DOESN'T HAVE TO BE HIGH TECH



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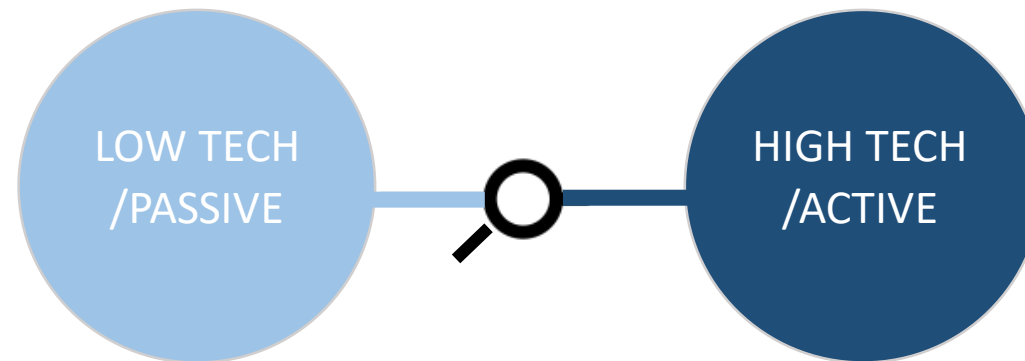
HOW DO CITIES CONTRIBUTE TO **CLIMATE EMERGENCY?**



EMPOWERING ARCHITECTURE

EVOLVING DESIGN ATTITUDE

USE PASSIVE AS MUCH AS POSSIBLE



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