

ARCHITECTURE OF LONGEVITY

Longer lives in increasingly constrained environments.

How can architecture, cities and territories sustain longer, healthier lives in the face of demographic transition, climate change and growing pressure on the resources essential to life?

Here, longevity goes beyond people's age. It is the capacity of people, relationships, buildings, neighbourhoods, cities and ecosystems to remain healthy, adaptable and capable of sustaining life over time.

FOUR SCALES · ONE SHARED QUESTION

01

PEOPLE & RELATIONSHIPS

intergenerational longevity

autonomy · health · belonging · mobility · care · intergenerational connections

02

BUILDINGS

material longevity + carbon

preservation · service life · emissions per m² built · lower-energy materials · construction emissions calculator

03

NEIGHBOURHOODS & CITIES

urban longevity

science · culture · health · leisure · nature · wellbeing · proximity · human-centred cities

04

ENVIRONMENTAL SYSTEMS

ecological longevity

climate · water · food · energy · biodiversity · air quality · circularity · regeneration

TECHNOLOGY AS AN INSTRUMENT, NOT AN END IN ITSELF

Urban data · AI · digital twins — observing, modelling and testing demographic, climate and environmental scenarios to inform life-centred decisions.

RESEARCH TRAJECTORY

Architect and urban planner, PhD in Architecture and Urbanism, professor, researcher and consultant from Brazil. For more than 25 years, Andrea Borges has worked at the intersection of architecture, sustainability, environmental planning and urban transformation. Her research trajectory connects construction emissions and environmental impacts, preservation and materials, and Human Cities x Smart Cities.

How can we sustain longer lives in increasingly constrained environments?

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