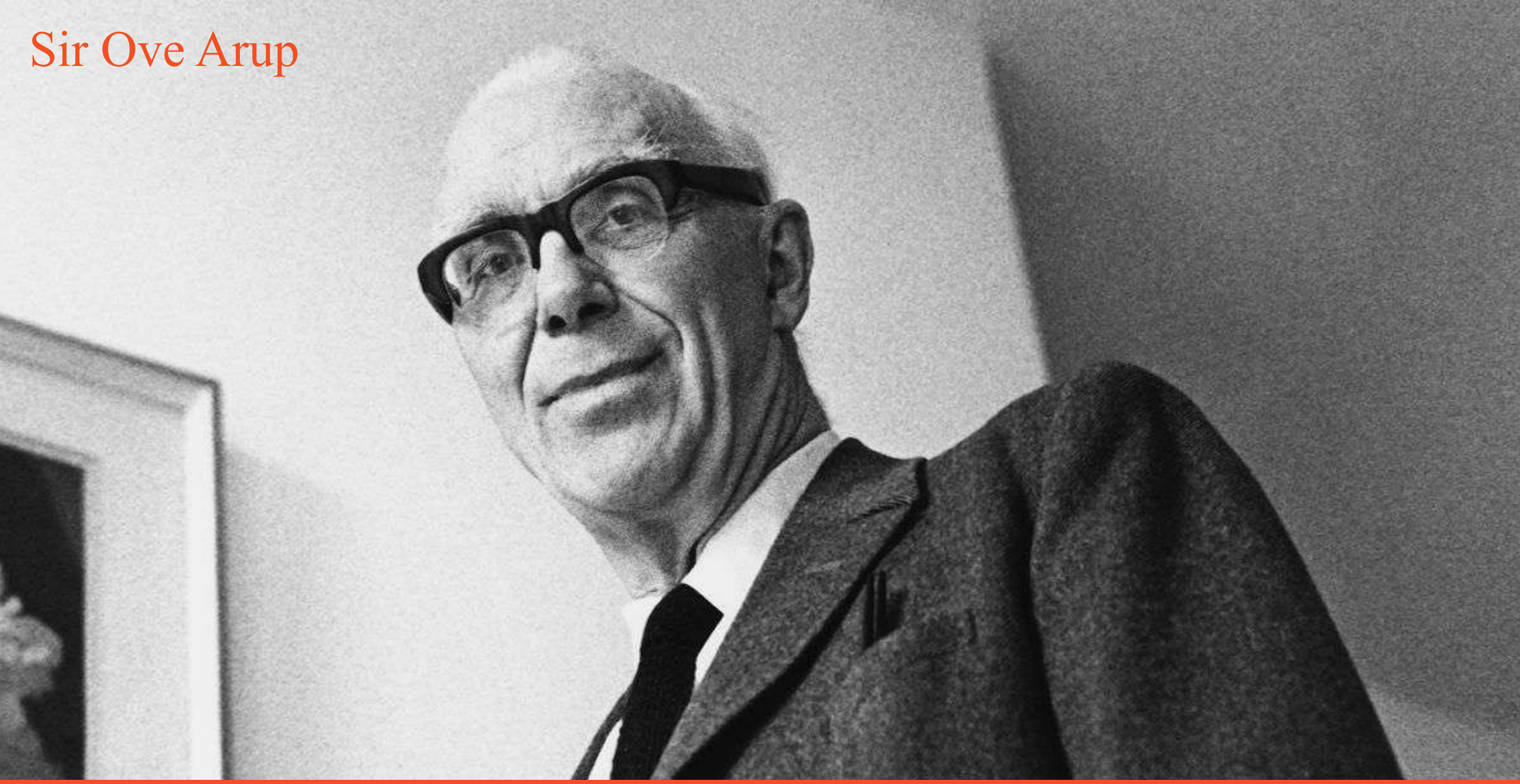
Cities
Alive
Rethinking Cities in Arid Environments
ARUP

Environmental Scientist to Urban Planner

Sir Ove Arup



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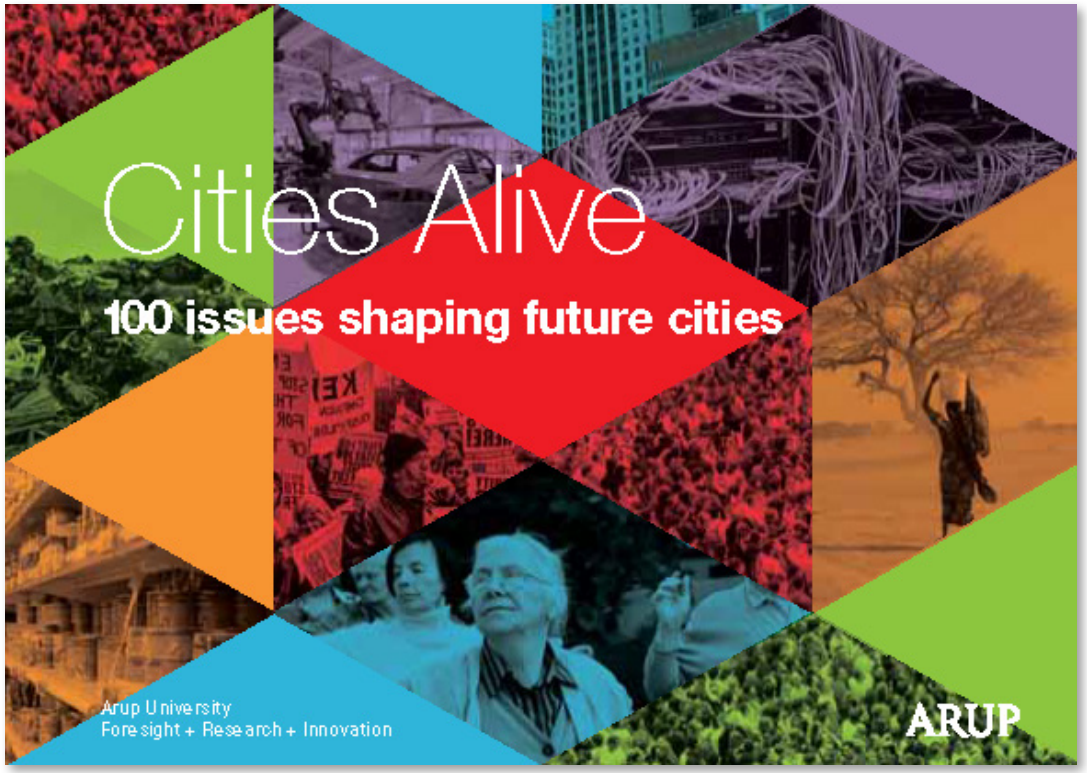
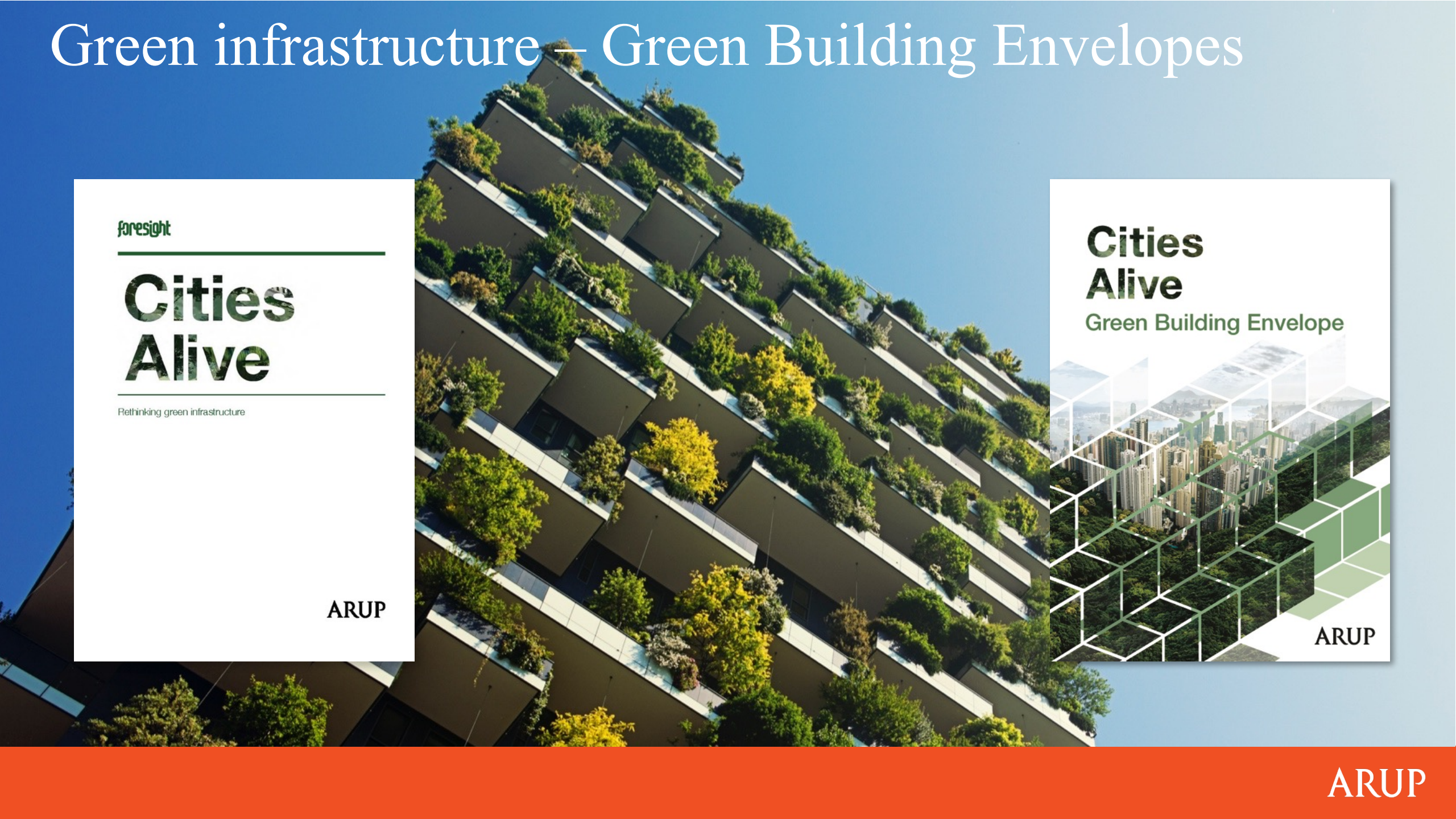
Thought Leadership

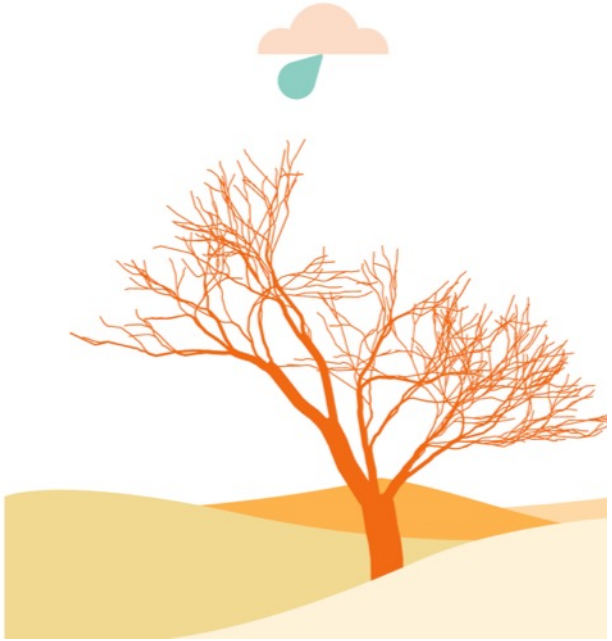


Green infrastructure – Green Building Envelopes



What about Cities in Arid Environments?

What are Arid Environments?

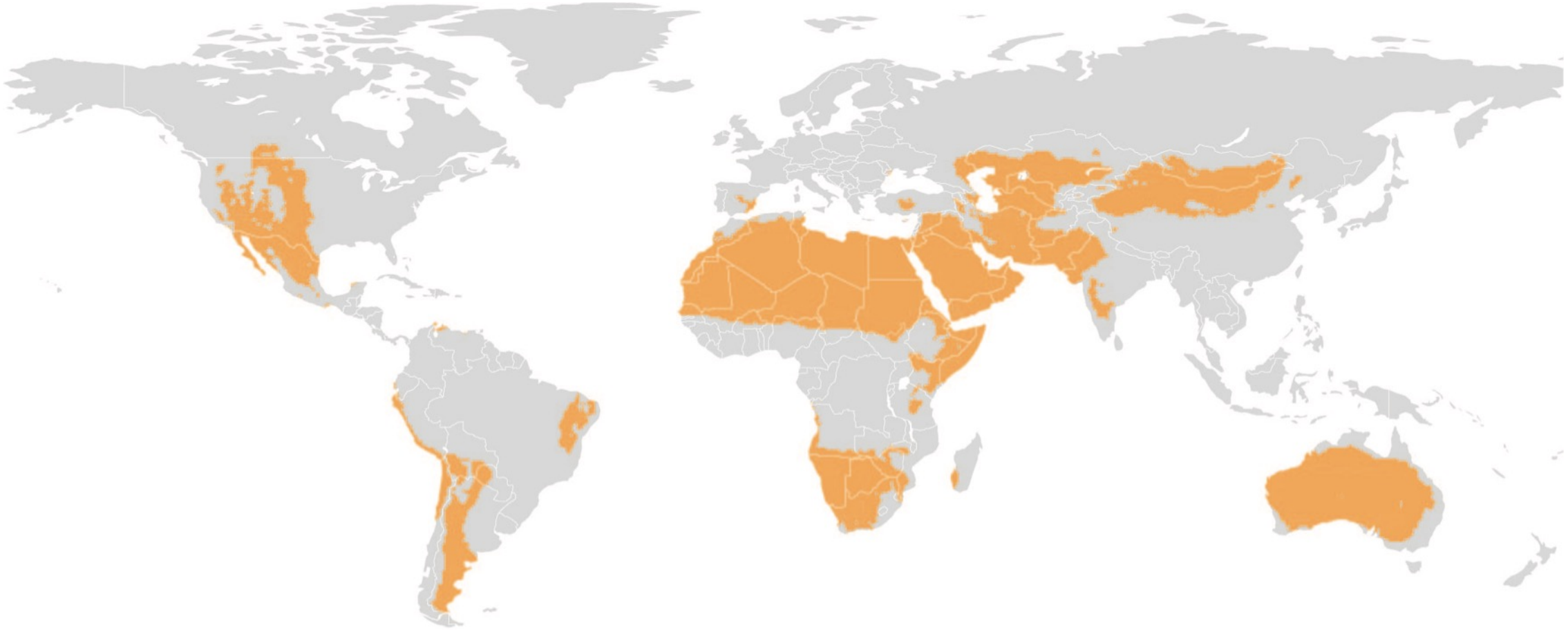


Hyper-arid

Arid

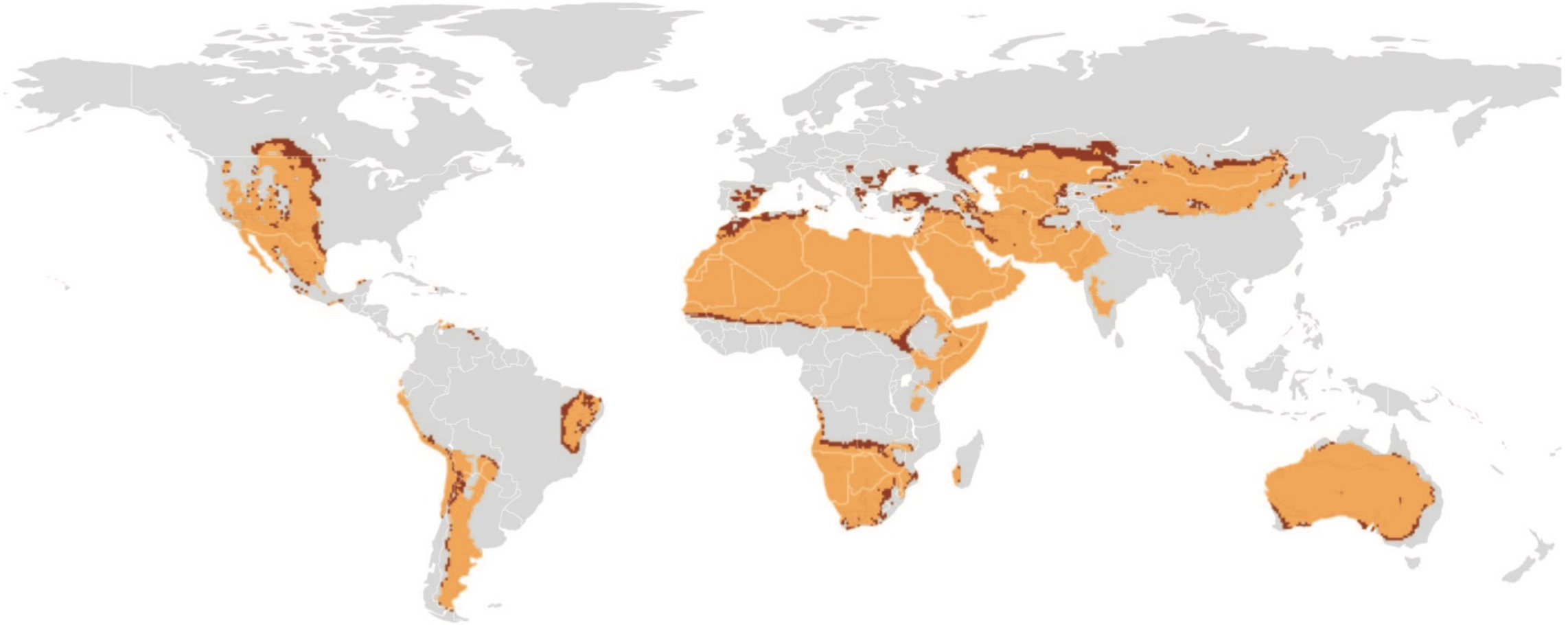
Semi-arid

Arid Environments 2001



Köppen-Geiger Classification

Arid Environments 2100



Based on A1FI Scenario

Cairo, Egypt

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Lima, Peru

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Ürümqi, China

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Adelaide, Australia

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Las Vegas, USA

Niamey, Niger

1.3 million 2017

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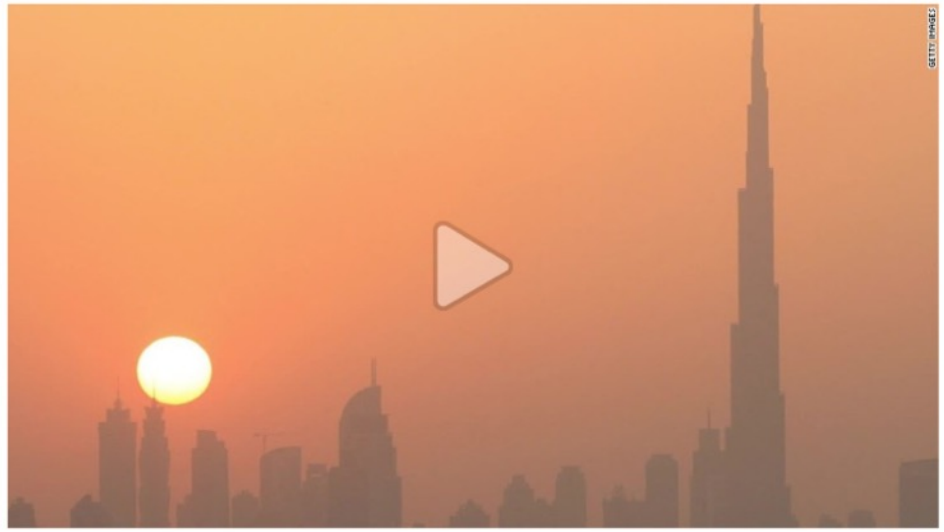
Climate Change

CNN | Regions | U.S. Politics | Money | Entertainment | Tech | Sport | Travel | Style | Health | Video | VR | Live TV | International Edition +

Persian Gulf heat: It may become too hot for humans to survive, study warns

By **Brandon Miller**, CNN Meteorologist
Updated 2225 GMT (0625 HKT) October 28, 2015



By 2100, humans may not survive in the Middle East 01:34

Story highlights

A study warns climate change could leave major cities in the oil-rich Persian Gulf region unfit for humans to survive

(CNN) — We frequently hear of the future dangers that human-caused climate change could bring, but few paint as bleak a picture as the one laid in a new study released this week.

News & buzz

WannaCrypt attack should make us wanna cry about our...

A portrait of motherhood around the world

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Jeddah, Kingdom Saudi Arabia

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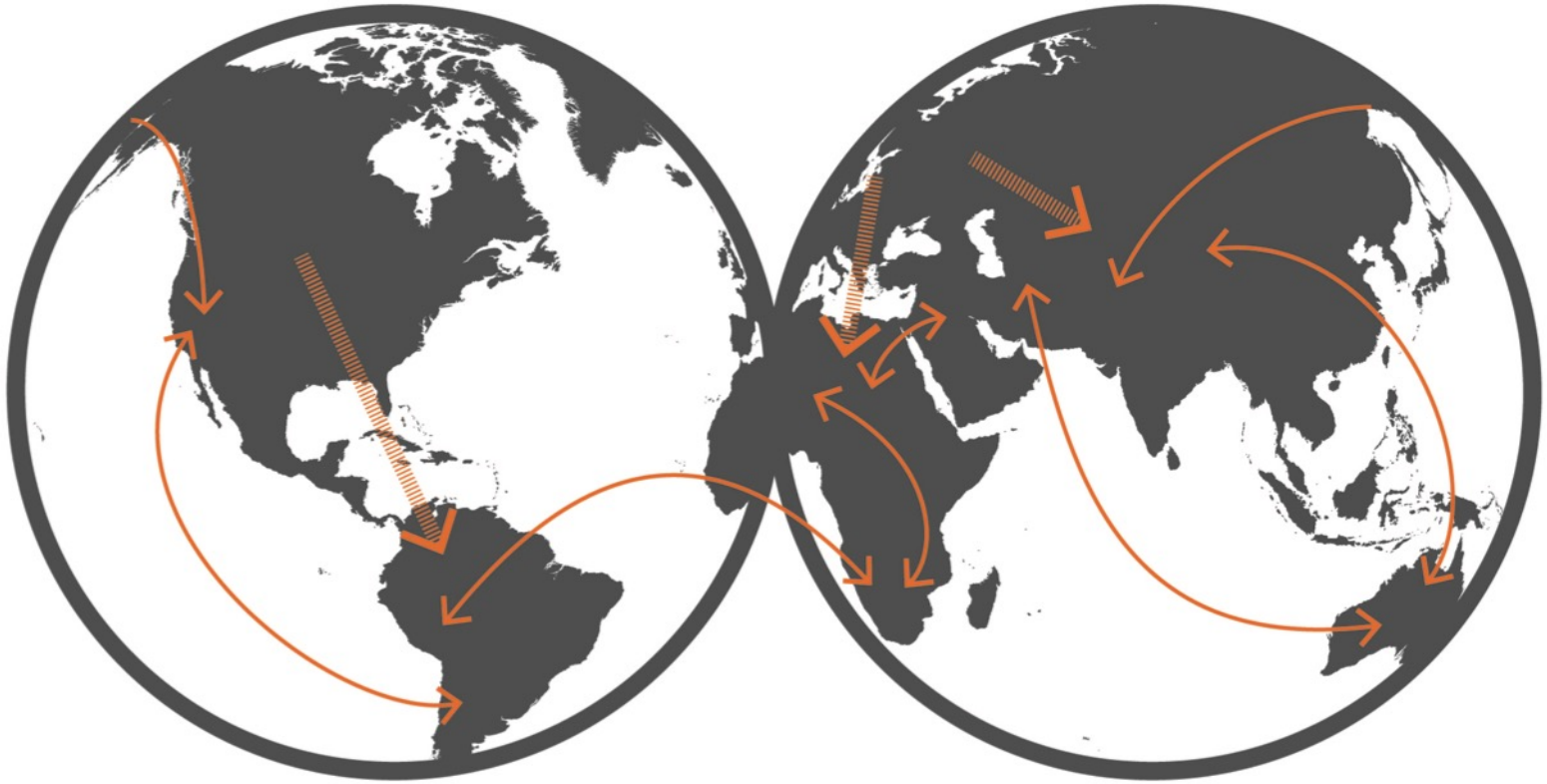
Existing Paradigm

Export

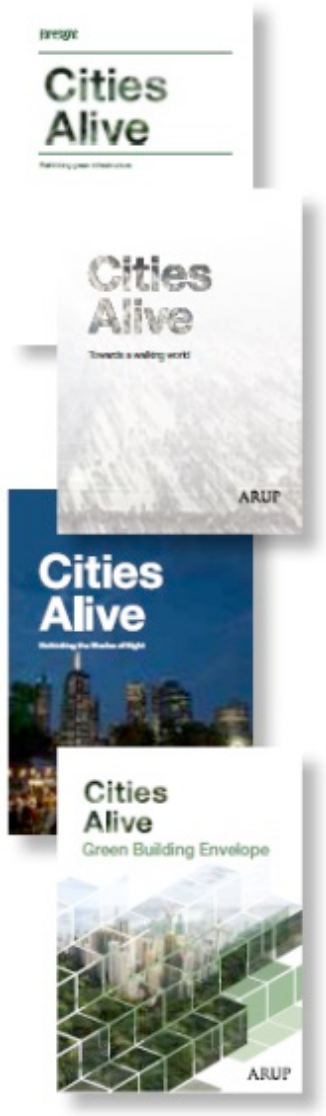
Need for a Paradigm Shift

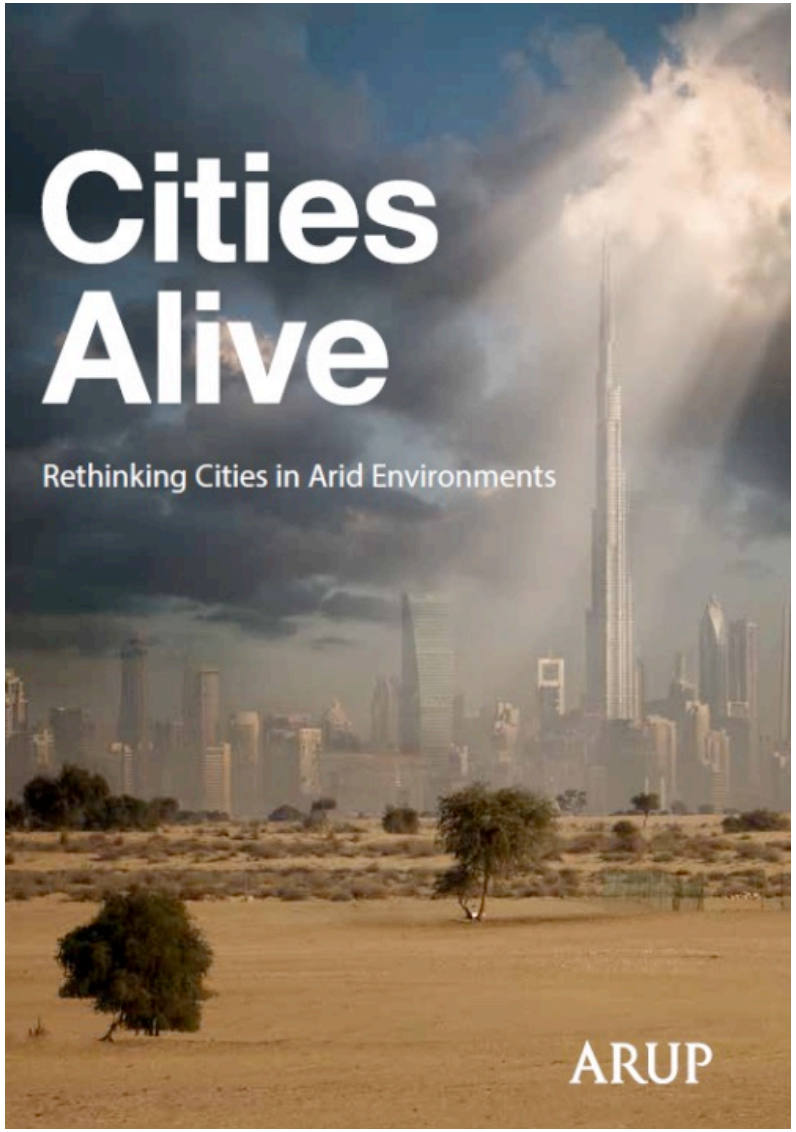
Export

Exchange



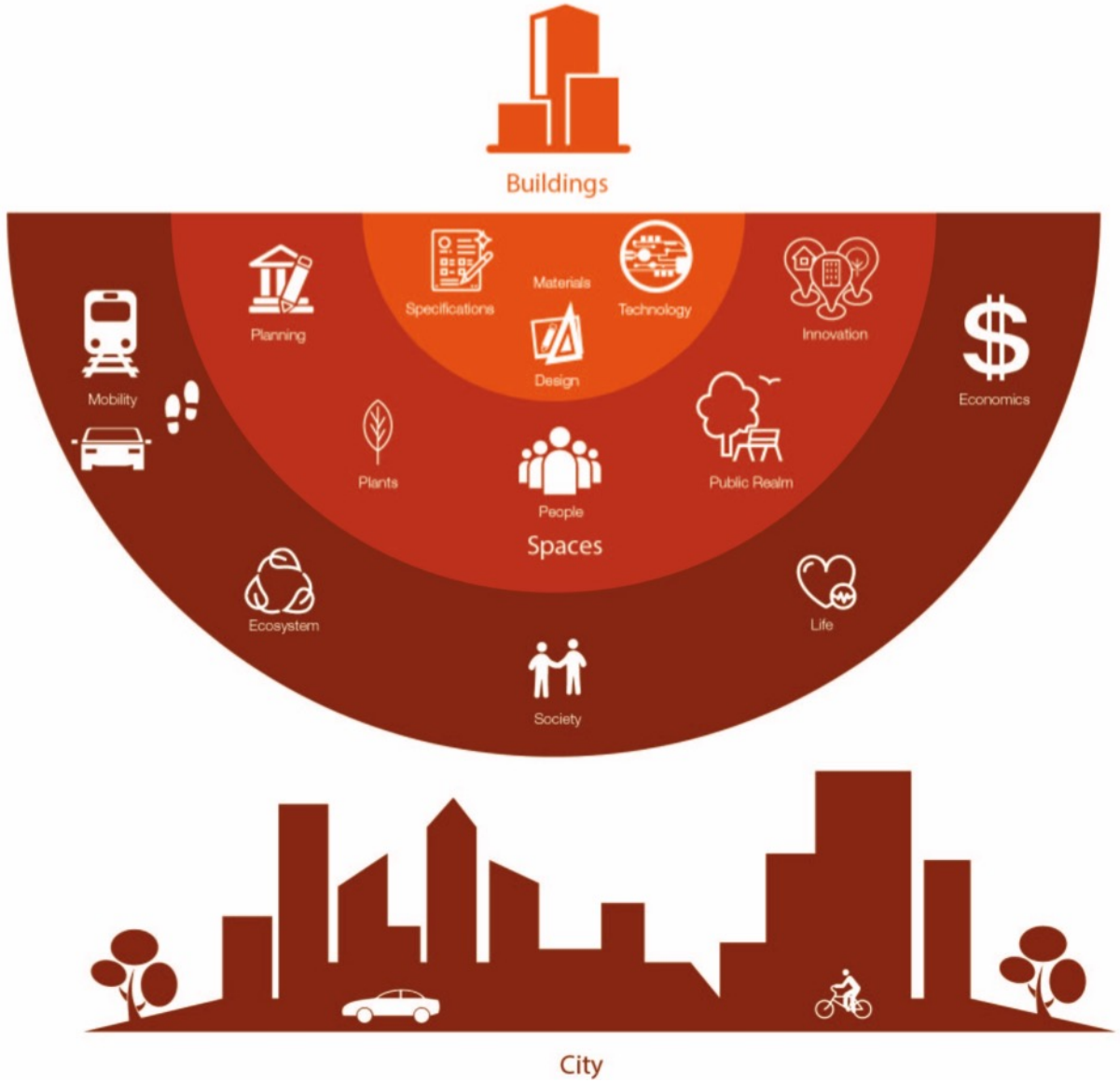
Cities Alive – Rethinking Arid Environments





Cities in Arid Environments - Methodology

- 6 Workshops
- 40+ Arup professionals
- External Contributors



Less of This

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Cities in Arid Environments

City (systems)

Leading Innovation

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Working with Nature

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Facilitating Change

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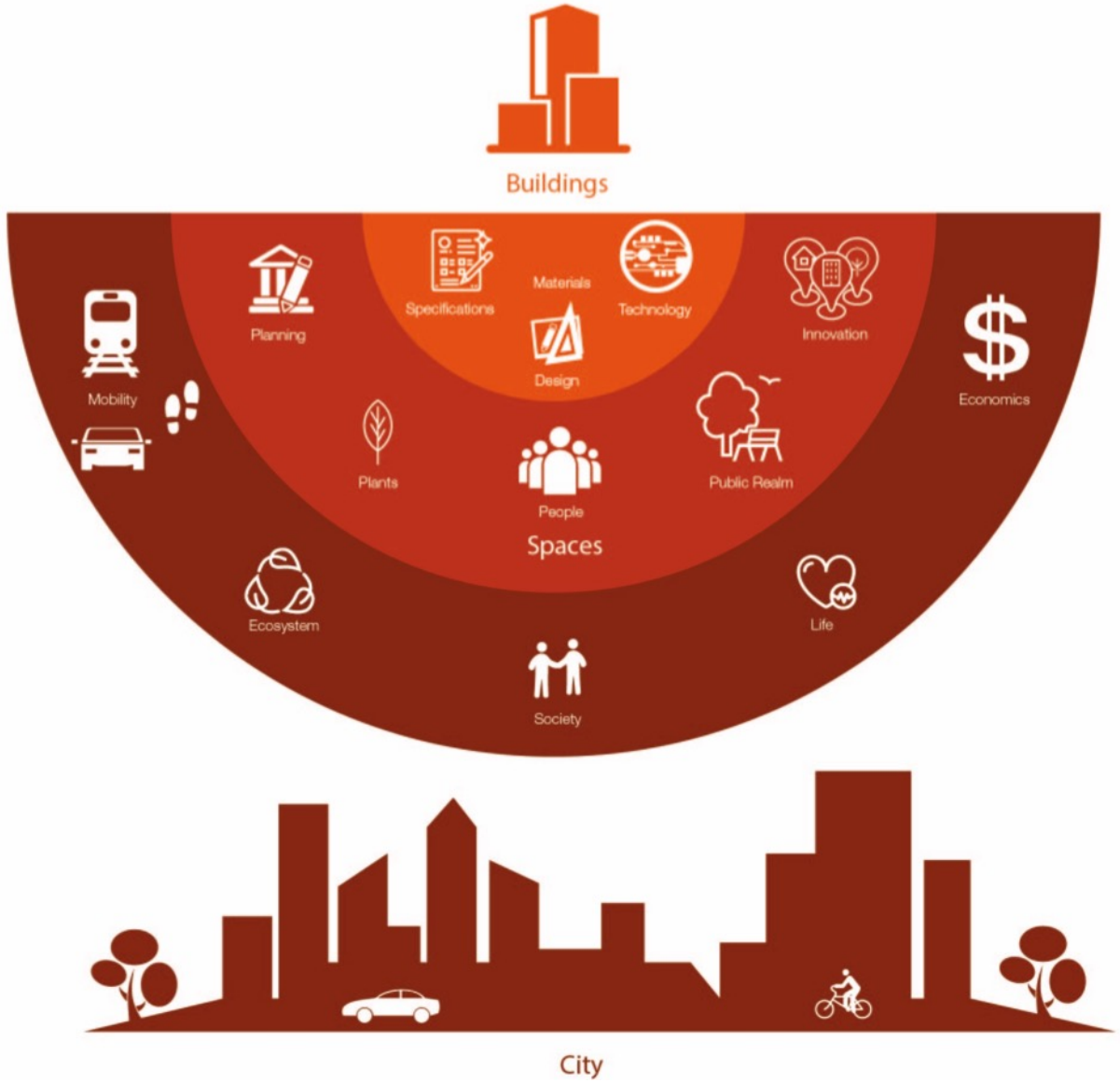
Cities in Arid Environments

Spaces
(components)



Changing Perceptions

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Being Generous

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Having Fun

Appreciating Less

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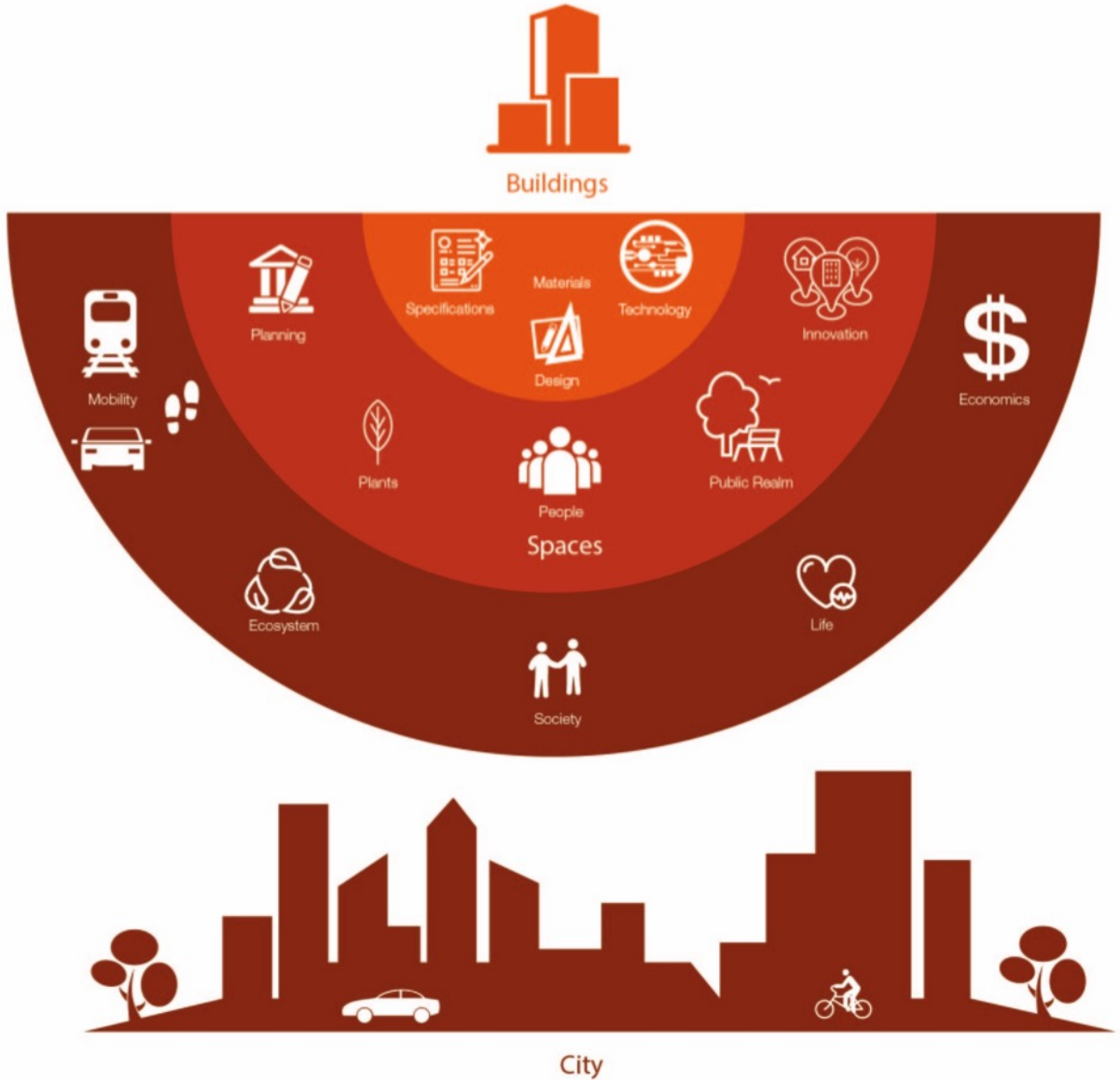
Cities in Arid Environments

Buildings (units)



Redefining Expectations

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Relearning Ancient Lessons

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Fostering Future Innovation

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Conclusions

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huda.shaka@arup.com
www.arup.com
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