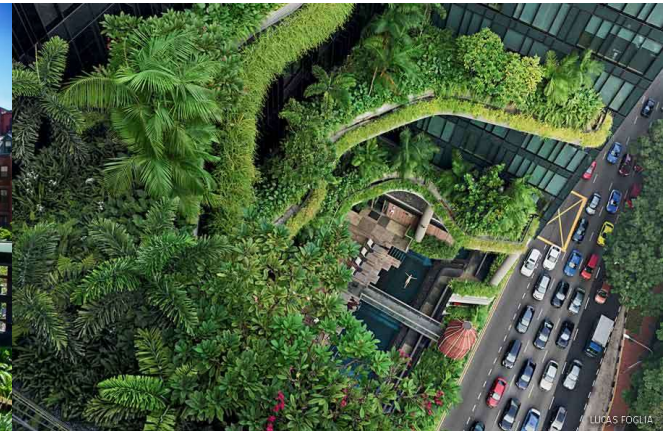


How to make greener and healthier cities in face of climate change? (and why should we care?)



Hugo Rebelo

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Ongoing climate change – a fact!

Accelerating extinction risk from climate change

Mark C. Urban*

Fingerprints of global warming on wild animals and plants

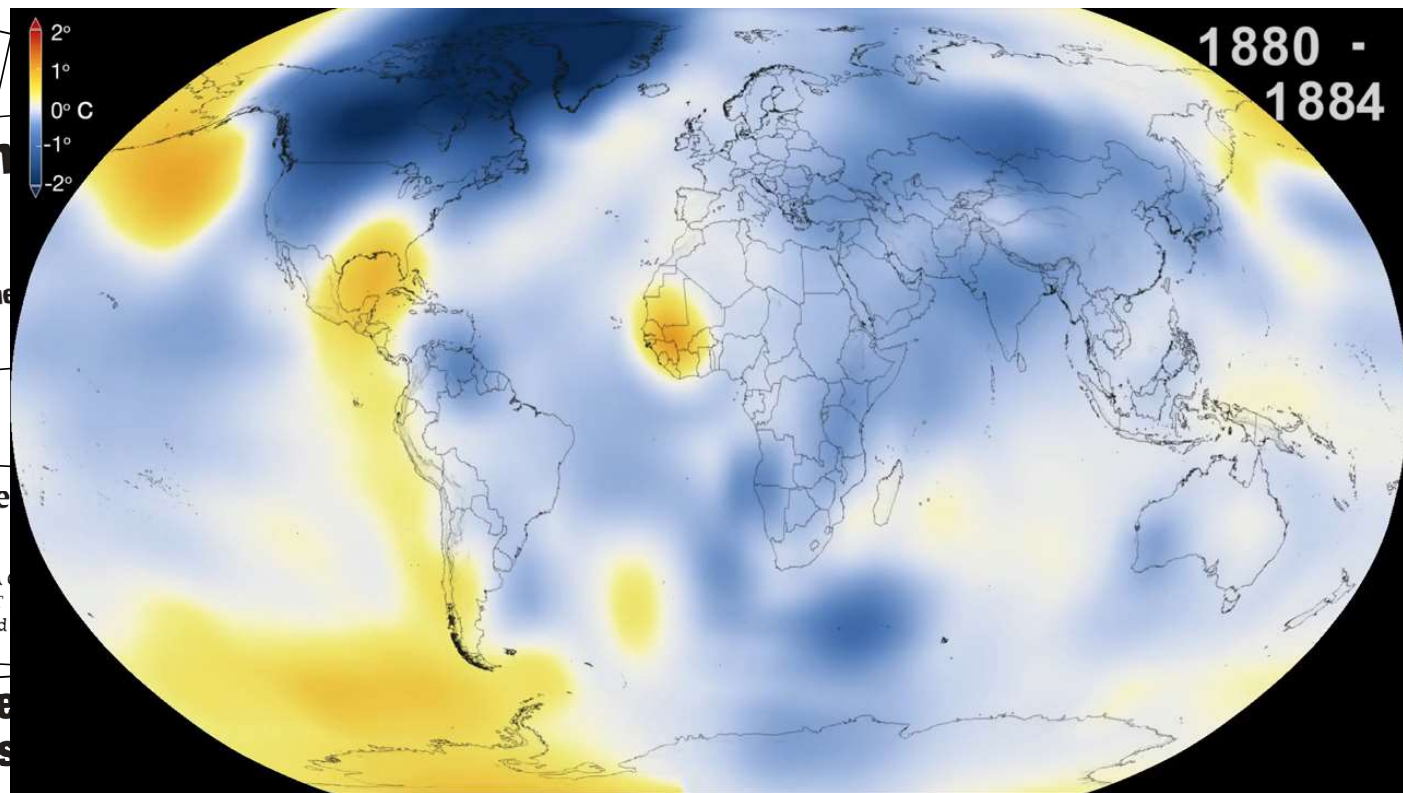
Terry L. Root*, Jeff T. Price†, Kimberly R. Hall‡, Stephen H. Schneider§, Cynthia Rosenzweig|| & J. Alan Pounds¶

Evidence of current impact of climate change walk from genes to the biosphere

JOSEP PEÑUELAS*†, JORDI SARDANS*†, MARC ESTIARTE*†, ROMÀ JOFRE CARNÍER*†‡, MARTA COLL*†, ADRIÀ BARBETA*†, ALBERT JOAN LLUSIA*†, MARTIN GARBULSKY*†§, IOLANDA FILELLA*† and ALISTAIR S. JUMP*†¶

A globally coherent fingerprint of climate change impacts across natural systems

Camille Parmesan* & Gary Yohe†



Climate change & Cities

- Cities are both the driver and victim: they contribute a lot for GHG and suffer from climate change effects
 - Heat waves



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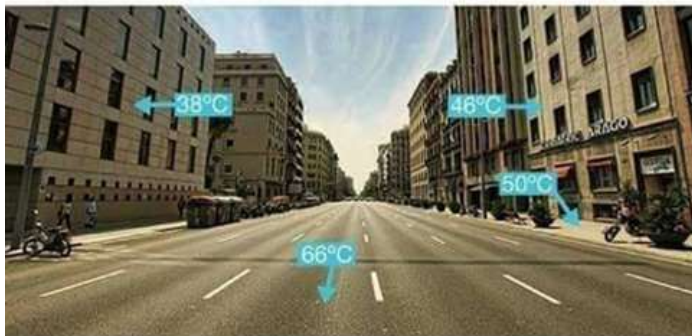
Climate change & Cities

- Cities are both the driver and victim: they contribute a lot for GHG and suffer from climate change effects
 - Heat waves
 - Floods
 - Emerging diseases
 - + other threats to well-being in cities

How can Nature-based solutions help?

- There are a huge variety of NBS for cities
 - Trees for cooling and flood prevention (and saving of energy!)

Without Trees...

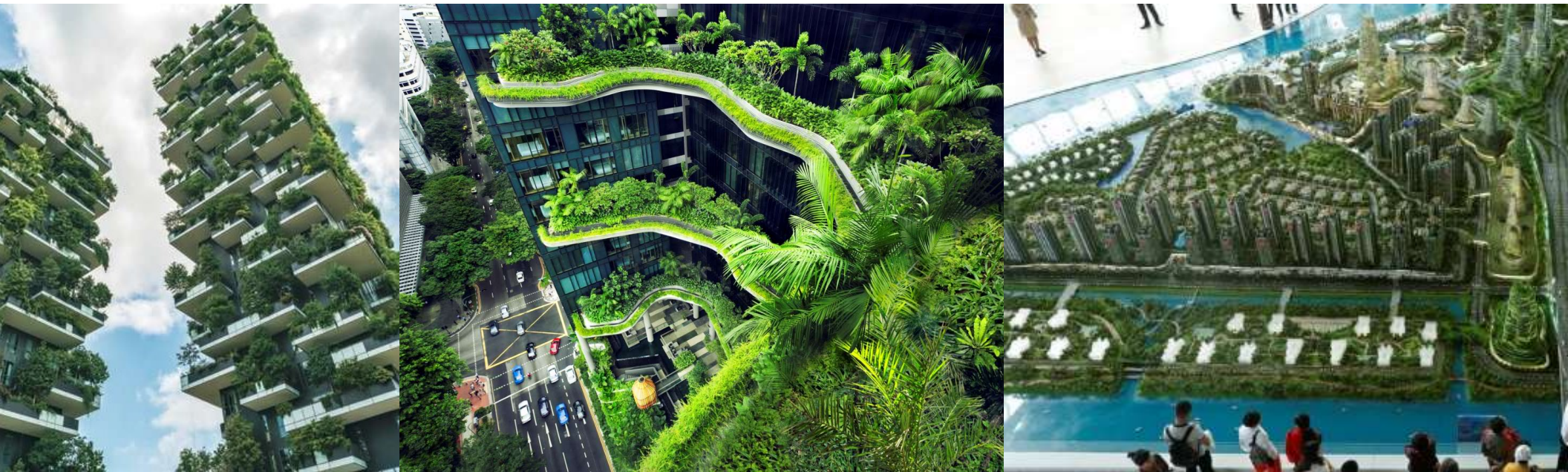


With Trees!



How can Nature-based solutions help?

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 - Building adaptation (for energy saving & production, biodiversity friendly)



How can Nature-based solutions help?

- There are a huge variety of NBS for cities
 - Trees for cooling and flood prevention (and saving of energy!)
 - Building adaptation (for energy saving & production, biodiversity friendly)
 - Promoting biodiversity ecosystem services



How can Nature-based solutions help?

WHAT DO WE GET FROM **ECOSYSTEMS**?



Cities, climate change and biodiversity – the challenge

- Key message: Biodiversity increases well-being in cities and resilience to climate change
- Promotion of green cities involves multiple stakeholders
 - Planning
 - Communication and dissemination
 - Architecture and engineering
 - Politics and regulations
 - And many more dimensions of our society!

What challenges are you willing to take?

Thank you for the interest!

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