

Webinar:

Development and Evolution of a Sustainable City and Community

Drivers of Change in Growing Green Cities

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Dr Audrey Gerber, Technical Advisor, AIPH











- Introduction to AIPH
- Elements and drivers of change
- Case studies





AIPH



We are the world's champion for the power of plants



Core programmes





- FloraCulture International magazine
- Sustainability, Novelty Protection, Plant Health
- Green City living green





AIPH





Green City programme

Core AIPH programme

- lead global thinking on the successful integration of nature into the built environment
- promote the essential role of plants in creating vibrant urban areas
- develop an international standard for green cities
- focal point for green city best practice and a source of expertise
- knowledge exchange, advocacy and networking
- inspire people, organisations, city councils and government administrations







AIPH 2020 Green City Guidelines



- Re- launch of 2011 guidelines
- New cases studies demonstrating best practice
- Case studies on cities in different climates
- Case studies of different city typologies
- UN Sustainable Development Goals
- Importance of Green City across disciplines
- Digital format for wider exposure and easier access









Types of Change

Incremental — small changes within a system

Transitional — improving an existing system

Transformational — a fundamental system change

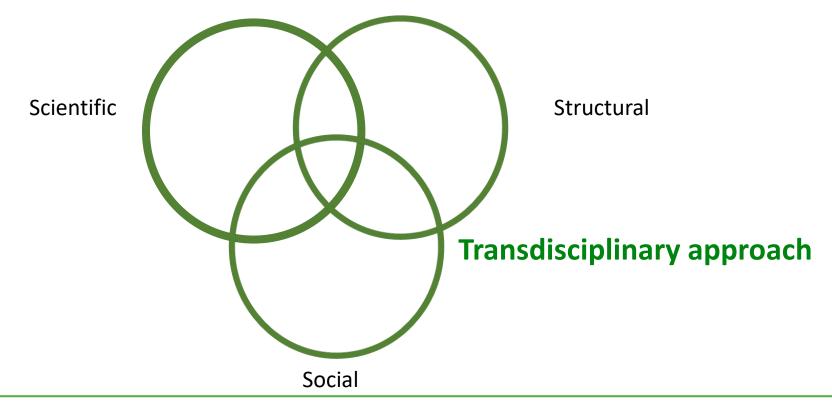








Transformational Change











Dimensions of change

INDIVIDUAL

OLLECTIVE

INTERNAL

Mindset Identities Feelings

Culture Community Shared vision Knowledge transfer

EXTERNAL

Relationships
Habits and behaviours
Social interactions
Organisational
interaction

Policies Regulations Legal constraints Organisational structures

Adapted from Retolaza 2011









Case study: The 606, Chicago









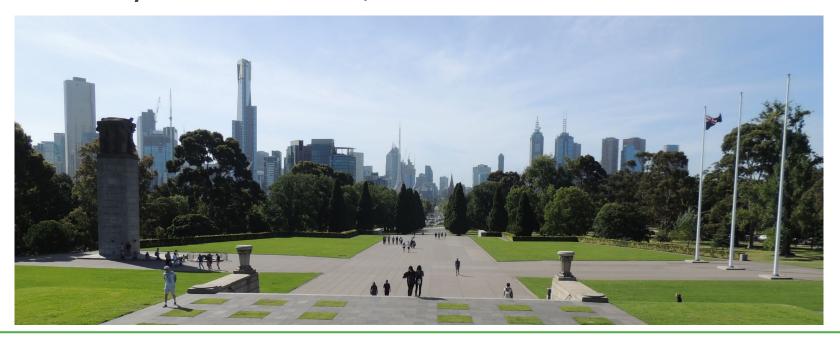






Case study:

The City of Melbourne, Australia





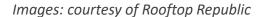




Case study:

Metroplaza, Hong Kong















Case study:

Greenlife Australia

THE BLOG THE LOOKS THE APP THE SCIENCE THE NURSERIES

An entertaining space becomes an indoor oasis with this wildly photogenic look that features elegant ferns and tropical beauties cascading from the ceiling. Strike a pose and say "Leavest"



De Groene Agenda

WHAT DOES GREENERY DO?

- Plants in offices purify the air: they reduce concentrations of CO₂ and volatile organic compounds, keeping the air fresh and healthy.
- Outdoor vegetation curbs heat in and around buildings in the summer, lowering heat stress and reducing the need for air-conditioning.
- Green roofs and façades increase insulation capacity, reducing both heating and cooling expenditure.
- Office plants release water vapour which humidifies the air, reducing headaches and improving concentration
- 'Green views' also boost concentration and aid recovery from stress.
- Green environments encourage people to undertake activities such as a lunchtime walk, keeping staff alert and healthy. Long periods of sitting adversely affect health.





APPLICATIONS

- › Green roofs and facades.
- > Green indoor office walls.
- Indoor plants in the company restaurant, central spaces and offices/conference rooms.
- > Green partitions and mobile planters.
- Attractive landscaping of the office premises, including green borders, hedges and trees.

PROVEN SUCCESS

- A study in Norway showed that office workers without an outdoor view from their desk were five times more likely to put a plant in their office than those with a view.
- A Danish study revealed that office staff with a 'green view' were happier with their view.
 This happiness in turn correlated positively with (self-reported) productivity levels.²
- In an experimental working environment study, employees with a view of plants completed a concentration test 19% faster than those in a room without plants.³

Sources:

- 1 T. Bringslimark, T. Hartig & G.G. Patil (2011), Adaptation to windowlessness: Do office workers compensate for a lack of visual access to the outdoors? Environment and behavior:001301651036833.
- 2 L. Lottrup, U.K. Stigsdotter, H. Meilby & A.G. Claudi (2015), The workplace window view: A determinant of office workers' work ability and job satisfaction. Landscape Research Act (1):572
- 3 M. Nieuwenhuis, C. Knight, T. Postmes & S.A. Haslam (2014), The relative benefits of green versus lean office space: Three field experiments, Journal of Experimental Psychology: Applied 20(3):199.





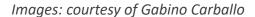




Case study:

Barcelona, Spain

















Case study:

National Street Service project:

"Most people speak about streets in the language of those who control them, traffic engineers. When you speak like a traffic engineer, you optimize for speed and efficiency, and often not for other important qualities like comfort and delight," Anna Muessig says. "..... you should measure what you care about — and you end up managing what you measure. If you measure traffic you will end up managing traffic. If you measure things you care about, like public life and quality of experience, you will be able to manage these outcomes on streets.

Behaviour change tactics. Meeting of Minds, 2020. meetingoftheminds.org/behavior-change









Behaviour change tactics. Meeting of Minds, 2020. meetingoftheminds.org/behavior-change

- Messenger message bearer is influential
- Timelines delivery and receipt has power
- Social meaningful connections
- Easy anticipate and eliminate barriers
- Default new patterns of behaviour







For more information about AIPH Green City initiatives and for details of the AIPH 2020 Green City Guidelines

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Thank you

