NP2002 **BIOPHILIC DESIGN - MAINSTREAMING THROUGH THE PLANNING SYSTEM.**

Biophilic design is a concept that reconnects humans and nature to help create a more sustainable and healthier built environment.

Research Question

How does Biophilic Design, in the form of innovative green structures and systems, become embedded into the mainstream planning system?

Methodology

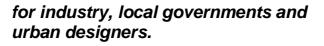
This research uses a qualitative approach with case studies as the main method.

Using a number of different case studies, the research will investigate transition pathways to adapt biophilic strategies and solutions in medium and high density urban environments.

To fulfil the requirements of the hybrid PhD thesis, the proposed academic papers will be based on site visits, document analysis and semistructured interviews. The process uses qualitative inquiry to identify innovative systems, their impact and implementation in urban planning policies.

Objectives

1. To propose evidence-based guidelines and recommendations



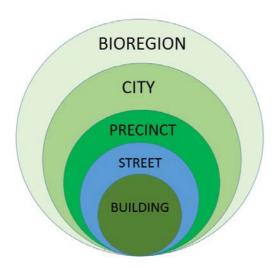


Figure 1: Biophilic Design at different scales

2. To explore and define the indicators and processes below:

 Barriers and drivers to biophilic design;

 Levels of performance in different climatic conditions;

 Awareness and perception among stakeholders;

 Incentives, tax rebates, support provided to local initiatives;

 Planning process frameworks for enabling biophilic design at different scales.

Initial Results

- The strategies, initiatives and trends build evidence to support biophilic urban design at different scales: bioregion, city, precincts, streets and buildings (Figure 1).
- Innovative structures and designs lead the way to a wider uptake of

biophilic strategies.

 Successful biophilic projects influence and enable policy change and provide evidence-base solutions to address global environmental issues through responsible, nature-focused design.

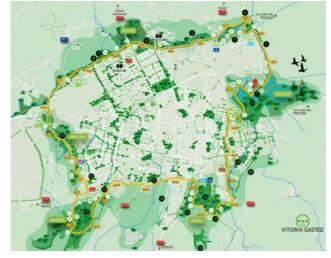


Figure 2: Biophilic Design informing Bioregional Planning - Vitoria-Gasteiz, Spain.



Figure 3: Biophilic regeneration of derelict urban infrastructure – High Line in New York.



Figure 4: Biophilic streets, lanes, alleys.





Figure 5: Regeneration and repurposing of sumps and wetlands in urban environment - innovative biophilic infrastructure - White Gum Valley, WA.

Further information

Agata Cabanek

Curtin University Sustainability Policy

agata.cabanek@postgrad.curtin.edu.au

LOW CARBON LIVING

🚫 CRC

Twitter: @Agata_Cabanek