The Role of a Knowledge Broker;

*Bringing Multi-Perspectives to Strengthen Urban Sustainability*

*Research, Practice and Policy*

**Dr Cathy Oke**, Knowledge Broker, Clean Air and Urban Landscapes Hub (CAUL Hub); First Vice President & Research Portfolio ICLEI, Local Governments for Sustainability

with

**Dr Judy Bush**, Research Fellow, THRIVE Research Hub, University of Melbourne
Perspectives from a Knowledge Broker:
- within the Research “tent”
- within the Cities “tent”

Examples from a:
- multidisciplinary research project at local scale
- multidisciplinary research at global scale

Take home messages – *Brought to you by the letter R*
• Strategic
• Tactical
• Operational
• Reflexive

CAUL Hub’s mission is: *To take a comprehensive view of the sustainability and liveability of urban environments with a focus on practical research outcomes*
Knowledge Brokering @ CAUL

• Bridge between science, practice and policy

• Foster research impact through on ground application, relevant policy for urban research

• Provide opportunities for knowledge transfer, uptake and practical use of research outputs

• Drive co-design, collaboration opportunities for CAUL researchers and researcher users
Knowledge Brokering Tools

• **Relationship** building..(lots of meetings) !!!

• Co-design of research plans and projects – **Roadshows**

• Public & industry events; professional development workshops to engage and reach diverse audiences
### Participation Spectrum

Adapted from IAP2 Public Participation Spectrum

<table>
<thead>
<tr>
<th>Objective</th>
<th>INFORM</th>
<th>CONSULT</th>
<th>INVOLVE</th>
<th>COLLABORATE</th>
<th>EMPOWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>To provide stakeholders with information on our research activities</td>
<td>To seek feedback from stakeholders on research activities</td>
<td>To work directly with stakeholders on a research project</td>
<td>To actively partner with stakeholders throughout research project</td>
<td>To provide responsibility for research from beginning</td>
<td></td>
</tr>
<tr>
<td>Aim</td>
<td>To provide Information</td>
<td>To provide info, hear views, incorporate where possible</td>
<td>To actively consult, discuss, consider and include feedback</td>
<td>To include all actors in decision making, planning, analysis</td>
<td>Research from and for cities</td>
</tr>
</tbody>
</table>

**IMPACT**
Research provides practice:
- rigour
- guidance on program structure and strategy
- credibility
- endorsement

Practice provides research:
- relevance
- operationalisation
- testing
- arenas for activism

Perspective: Artists

• Cities are creative places
• Embracing artistic perspectives is vital to understanding, communicating and demonstrating change.
• Engage the broader community with participatory, sensory, creative outputs
• Resilience
Refugium @ Federation Square (Arts-science collaboration THRIVE & CAUL, 2016)
Facilitating nature connection & extending biodiversity knowledge through hands-on arts-science experiences

Free public botanical crafting workshops in The Atrium (kokedama)
Combining horticultural knowledge with community crafting
Creating a ‘bush refuge’ in the heart of Federation Square (The Light in Winter Festival 2016)
Perspective: First Nations Peoples

- Cities are Aboriginal places
- Caring for country in cities, can aid understanding of sustainability and resilience.
- Engaging and empowering Indigenous perspectives, through genuine collaboration can bring unique opportunities
  - Reconciliation
  - Reciprocity
THE LIVING PAVILION (23RD APRIL - 19TH MAY 2019)

A transdisciplinary project connecting Indigenous knowledge, ecological science, sustainable design and the performing arts

The Living pavilion will be a temporary event – space and place-making project: which fosters a sense of community through collaborative making and celebration

It will be a platform for celebrating Melbourne’s eclectic flora and fauna, as well as hosting events and performances by local Indigenous and non-Indigenous leaders, artists and scientists

A collaboration between Thrive Research Hub (Melbourne School of Design), CAUL Hub (Clean Air and Urban Landscapes Hub), New Student Precinct, Australian Institute of Landscape Architects and CLIMARTE’s ART+CLIMATE=CHANGE 2019 festival
The Living Pavilion key focus & strategy

Indigenous knowledge  ART  Ecological knowledge

Making the invisible, visible
The Living Pavilion is based on an award-winning global placemaking initiative by Tanja Beer called ‘The Living Stage’. The project combines horticulture, sustainable design and community engagement to transform urban spaces into accessible, equitable and thriving ecological and social gathering places.
The Living Pavilion will take place on the Western side of the 1888 Building, Gate 8 of the University of Melbourne Parkville Campus
CLIMARTE– Festival Partner
The Living Pavilion will be a signature project for ART+CLIMATE=CHANGE 2019. This festival (23 April – 19 May 2019) will inform, engage and inspire, delivering an expansive and stimulating series of events that can help lead us towards a creative, just and sustainable future.
What’s Involved

• The Living Pavilion will be co-created with the University and broader Carlton community. This includes contributions to the site design and the programming.

• Opportunities for student engagement across arts and sciences (for credit or extra-curricular activities).

• The impact of project will be assessed via transdisciplinary research methods (e.g. ecological & social sciences).

• #TheLivingPavilion
• Instagram @TheLivingPavilion
• www.nespurban.edu.au
Knowledge Broker @ ICLEI
(First Vice President & Research Portfolio Chair)

- Advocate for cities @ UN & to National Governments, Business, Industry etc...

- Encourage collaboration between & with cities, city networks, knowledge networks, academics (north and south) and other actors

- Encourage knowledge translation for city decision makers
Knowledge brokering between city science, practice and networks

- **Research setting** - Global Research & Action Agenda on Cities and Climate Change Science @IPCC Cities

- **Research translation** - IPCC 1.5 Summary for City Policy Makers

- **Research co-design** - Developing a template that meets the needs of scientists, urban researchers, city-practitioners, city networks & decision-makers!
City practitioner’s perspective on SR1.5 Summary for City Policy Makers

Things to consider:

- Audiences
- **Recognition** of importance of why Cities need to act
  impacts on cities & citizens (**resilience**)
- City powers / Multi-level governance
- Framing: equity, SDGs, human-centred design
- **Relevance** to physical risks in cities & transition: energy, buildings, transport
- Integration of mitigation & adaptation (**need both**)
- Table of tangible examples – **replication and relevance**

*Reference; City of Melbourne’s response to SR1.5 SCPC Sept 2018*
# Take Home Messages – Brought to you by the Letter R

<table>
<thead>
<tr>
<th>Relationships (process)</th>
<th>Recommendations (outcomes)</th>
<th>Rewards (feedback)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respect</td>
<td>Relevance</td>
<td>Reconciliation</td>
</tr>
<tr>
<td>Recognition</td>
<td>Replication</td>
<td>Resilience</td>
</tr>
<tr>
<td>Reciprocity</td>
<td>Risk reduction</td>
<td>Reputation (credibility)</td>
</tr>
<tr>
<td>Reflection</td>
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Acknowledgements

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Seth Schultz, Innovate4Cities
Yunus Arikan, ICLEI World Secretariat

CAUL Research Hub colleagues
THRIIVE Research Hub colleagues
ICLEI Global
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City of Melbourne
IPCC Cities and IPCC 1.5 Groups
Innovate4Cities
Melbourne Sustainable Society Institute
THANKS

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@CAULHub (Twitter)

@TheLivingPavilion (Instagram)
## Actionable Research Case Studies... Melbourne and Montreal workshops.. Ongoing

<table>
<thead>
<tr>
<th>City-practitioners</th>
<th>City-networks</th>
<th>City Academics</th>
<th>City Knowledge networks</th>
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<tbody>
<tr>
<td>Can identify similar city typology</td>
<td>City typologies</td>
<td>Scientific solutions</td>
<td>New and emerging technology, solutions and problems</td>
</tr>
<tr>
<td>Topics matched to problems</td>
<td>Topics matched to global outcomes</td>
<td>New and emerging technology, solutions and problems</td>
<td>Peer-reviewed research</td>
</tr>
<tr>
<td>Similar decision-making context</td>
<td>Trends in solutions and challenges for cities</td>
<td>Peer-reviewed, replicable research</td>
<td>Global &amp; regional implications</td>
</tr>
<tr>
<td>Demonstrated, scalable solutions</td>
<td>Transferable, scalable solutions</td>
<td>Long term trends</td>
<td>Trends and projections</td>
</tr>
<tr>
<td>Measureable outcomes</td>
<td>Measureable outcomes – to aggregate for collective impact e.g. data platforms</td>
<td>Regional and global analysis, city comparisons</td>
<td>Comparisons between city typologies</td>
</tr>
<tr>
<td>- based on science</td>
<td></td>
<td>Examples that illustrate a broader context, trend, history</td>
<td>Aggregated data</td>
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<tr>
<td>- supported by stakeholders</td>
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<tr>
<td>What went wrong and why</td>
<td></td>
<td></td>
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<tr>
<td>How challenges were overcome</td>
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