



**Draft Green Lab Youth Led Deliberation
Botanical Garden and Parks Authority
18 November 2021 9.30am - 11.30am**

Venue: Kings Park Biodiversity and Conservation Centre, Kattidj Cl, Kings Park

Urban canopy stakeholders were invited to a celebration and call to action by Millennium Kids to join a facilitated session to discuss the charge;

“How do we collaborate to reforest our city by 2071?”

Fifty one participants joined Green Lab Patron Prof Lyn Beazley and Prof Hans Lambers at Kings Park Biodiversity and Conservation Centre to design the future.

Millennium Kids had surveyed 500 young people across the greater Perth metropolitan area in 2017. Deforestation and climate change were the top two issues identified.

In response to this Millennium Kids co designed Green Lab, a youth led project to protect, monitor and increase canopy. In 2021 the World Economic Forum recognised Green Lab as a top 14 #GenerationRestoration Youth Challenge project.

Stakeholders were invited to help Millennium Kids plan a collaboration matrix in line with their Green Lab objectives as part of their contribution to the UN Decade of Ecosystem Restoration goals.



Brabham Primary School would like to create a green corridor connecting their school to the green space at Watervally Boulevard Park

Our Expert Panel

Green Lab Patron, Prof Lyn Beazley introduced the kid's concerns about loss of tree canopy across Perth and set the challenge: How can Perth be the Top Tree City of the world?

Prof Hans Lambers set the scene by discussing the biodiversity of the Swan coastal plain.

The deliberation was facilitated by Youth Board Co President Isabella Poll.

We asked the room:

How have you inspired change in your work or community in 2021?

- Participated in local planting
- Guided bird walks, to share knowledge
- Sourced funding to better consider vegetation assemblies when burning
- Researched and planned revegetation and rehabilitation at our school, including bringing Brenten See, a biodiversity artist, into the school to work with Year 6 on an endemic species mural. I was inspired after I saw his artwork at an MK event at Friends of Lake Claremont.
- Set up a Regional youth environment committee at multiple schools
- Talked to community and land managers about impacts of cats and foxes, and coordinate projects and management
- Attended workshops to Kanyana to learn about caring for wildlife
- Introduced teachers to the Sustainable Development Goals and project-based learning
- Helped with beach clean ups at local beaches
- Collaborated with others
- Brought people together to shape the future
- Shared ideas and activities with like-minded individuals
- Helped to up skill, and collaborate
- Worked on internal and external education
- Set up a lease arrangement between Council and a local school, so environment managers can better manage the bushland

Our first deliberation:

How do we collaborate to reforest our city by 2071?

- Local governments collaborate and share costs to get better data
- ID all stakeholders - collaborate with all
 - Schools (including gardens/ground keepers who have ongoing knowledge)
 - teachers/students/staff/families
 - Residents
 - Community groups
 - LGAs
- Regularly updating politicians, simply and concisely
- Ensure ongoing maintenance needs are recognised and managed

- Ensure students plans are carried out
- Allocate 3% of all rates towards reforesting our city
- Guerilla Gardening!
- Restructure bylaws - rates to contribute to a tree planting fund
- Underground power to allow greater canopy spread, and reduced maintenance
- The curriculum uses the word 'tree' – this is too narrow, 'sustainability' better reflects the priority
- Right tree for the right place –
- know how to plant and care for local wildlife
- Support Rewild Project Perth - empower NRM
- Councils purchase Bushland as it becomes available from their environment fund. Example: City of Mandurah



Green Lab Parton Prof Lyn Beazley setting the scene

Our second deliberation:

How do we help schools monitor, protect and increase canopy?

- Increase awareness in schools about the value of canopy coverage

- Measure canopy, set targets, monitor, evaluate in partnership with Local Government Authorities
- Set up a multi stakeholder strategy reporting template for reporting, sharing ideas and monitoring achievements with Local Government and other stakeholders
- Create a Green Lab Champion for each school, to mentor, share ideas and information – “*Captain Canopy*”
- Involve school Lab Techincials
- The Department of Education becomes a hub of education, information, support and resources to help schools monitor, protect and increase canopy.
- Use of QTRA Arborists to assess trees, to outline the risks and manage rather than remove trees
- Local Governement Authorities to provide accessible canopy coverage data about schools for schools and link to overall canopy targets for each Authority so schools undertsand the importance of their canopy – big picture thinking.
- Ownership of tree planting event eg. a class plants and cares for a revegetation project long term – tree custodians.
- Local government could provide schools with plants and mature trees

Promote Perth NRM ReWild website <https://www.perthnrm.com/project/rewild/>

- Prioritise endemic plants as food and habitat for cockatoos and other species
- Understand that native animals have adapted to introduced food species asa food sources and these trees need to be factored into overall palns – pecan etc
- Introduce awards for schools that are doing this well, with a focus on what matters to kids
- Provide drone canopy coverage data
- Start and support gardening club at schools, including a section for government concerns
- Share data on mapped canopy with schools
- Create a significant tree register for trees at schools
- Set canopy targets for schools
- Refocus curriculum to prioritise all of these concepts, so that maintaining and increasing canopy (and ESG more widely, technology use, science) are all part of the daily schedule, not an add on.
- Promote Department of Educations Caring for Country and Sustainability framework released in November 2021
- Departments to coordinate (ie. DoF, DPAW) so that common goal and common resources being used

- Each school appoints an Environment Patron and gives awards to students for the best environmental project of the year
- Publicise the findings of the parliamentary report widely
- Linking action to learning
- Education Department has flagged an operational focus for sustainability – support them
- Make use of any available space to increase canopy, however restricted, and invest in maintenance of it
- Schools and families sponsor a tree
- Implement learning about hope for climate change at a young age
- Strategise and share ideas about the way we advocate for change
- Invest in long-term green places in schools
- Brainstorm how we get independent schools to fund it
 - Family funding
 - Community ownership
- Set clear targets about canopy coverage every 5/10 years
- Instil hope in children about issues by talking about the positive steps the council is taking
- Take inspiration from other schools globally
- Identify and address the barriers of protecting, monitoring and increasing canopy
- Redefine jobs of school gardeners, support them to be part of the big picture of increasing canopy and biodiversity
- Improve State planning policy - addressing the way we do density
 - Design of road systems
 - Mandate how much canopy must be retained
 - Set targets that don't get scaled down
 - Understand and target urban heat effect problems (removing fake grass and black roofs)
 - Support developments that are local to services and facilities - smaller communities rather than big new developments
- 'Berlin model' - keeping footprint of existing old houses
- Share Biophilic design concepts (eg research of Peter Newman)
- International Baccalaureate Projects on restoration - how to guide/mentor
- Project based learning based around e-stem/restoration projects
- Institute green decision making for assessment of impacts of tree clearing on groups – consider cost/benefits and offsets -
- Promote these ideas through an integrated curriculum
- Highlight the benefits of trees for the school

- Promote SPARC programs - a service learning and innovation initiative for Year 9 students, with two hours per week dedicated to researching, planning and delivering sustainability outcomes
- Give greater voice to decision-makers (councillors and community leaders to come to the schools to explain their ideas and hear children)
- Empower children to have opportunities to talk outside the school
- Integrate bush school into the curriculum. The bush then becomes a classroom that the school maintains
- When new buildings are being added, schools need to consider protecting trees and bushland as the number one priority. Eg build up not out. Keep open space for kids to use
- Green star developments - developer helps to imbed sustainability projects into the curriculum through funding support and community development strategies
- Department of Education to communicate the new Sustainability framework through facilitated networking sessions to ensure all teachers, Principals and community understand the framework and how it can be implemented.



Millennium Kids Youth Board members Patrick and Niamh, Chairperson Anna and Lead Facilitator Bella introducing the session.

Participants

Matthew Hughes MP	Member for Kalamunda
Simon Millman MP	Member for Mt Lawley
Dr Brad Pettit MLA	Member for the South Metropolitan Region Greens (WA)
Alan Barrett	Executive Director, Botanical Gardens and Parks Authority
Charlotte Vaughan	Botanical Gardens and Parks Authority
Jackie Kennedy	Botanical Gardens and Parks Authority
Paul Reed	Acting Parks Coordinator, City of South Perth
Amy Warner	Urban Forest Education and Engagement Officer, City of Melville
Jeff Bird	Manager Natural Areas and Parks, City of Melville
David Broadbent	City of Kalamunda
Joselyn Juraszek	Department of Biodiversity, Conservation and Attractions
Kylie Elsegood Smith	Creating Communities
Nick Cook	Friends of Lake Claremont
Lisa Robinson	Tree Officer, Town of Claremont
Hans Lambers	UWA
Brenden O'Toole	Chairperson, Nedlands Urban Canopy
Pierre Quesnel	Town of Victoria Park
Prof Lyn Beazley	Patron Green Lab
Cathy Levett	Green Lab Education Officer
Anna Wylie	Chairperson, Millennium Kids
Catrina Luz Aniere	CEO, Millennium Kids
Howard Flinders	Education Officer, Department of Education

Wayne O'Sullivan	Citizen Science Coordinator, Millennium Kids
Alisa Stone	Perth College
Cameron Thorn	Perth College
Perth College x 7	SPARC Green Lab Innovators Perth College
Isabella Poll	Youth Board CoPresident and MK Facilitator
Patrick Wake	MK Youth Board
James Best	Future Bayswater
Debra Lee Slater	State Natural Resource Management Group
Naga Srinivas Kasarla	Documenter
Kelsie Prabawa Sear	Manager Discovery and Learning, Perth Zoo
Leigh Dawson	Public Engagement Specialist, US Consulate General Perth
Gill Basnett	National Coordinator Fox and Cat Control, Invasives
Robin McKean	MK Council
Maree Whiteley	Consultant, Teaching and Learning, Primary, AISWA
Terrance Dewar	Chairperson, Australian Biome
Niamh Keelan Wake	MK Youth Board
	Policy Officer, Minister for Environment and Climate Office
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Nada	Bushcare Officer, Town of Claremont
Kammi Rapsey	Principal, Media on Mars
Jac Keelan Wake	Volunteer, Millennium Kids

The Program

- 9.30am Meet and Greet
A3 – write one sentence about an innovative urban canopy project idea you have or that you have been doing in 2021.
- 9.40am Prof Lyn Beazley: Welcome, Overview of the morning
“How do we collaborate to reforest our city by 2071?”
- 9.45am Catrina Luz Aniere: Introduction to Green Lab School Highlights
- Curtin Primary School
 - Brabham Primary School
 - Perth College
- 9.50pm Hans Lambers: Current Status Urban Canopy and Bushland
- 10.00am Pitch to the Expert Panel
- 10.15am Facilitated session by Bella Poll and India Aniere
- “How do we collaborate to reforest our city by 2071?”
 - “How can we help schools monitor , protect and increase canopy?”
- 11.00am Where to from here?
Morning tea and celebration cake
- 11.30am Close



Guests Wayne O’Sullivan, Charlotte Vaughan and Simon Millman MP deliberate alongside Expert Panelist Prof Hans Lambers.

Green Lab, a Millennium Kids Citizen Science program, is funded by the Western Australian Government’s State Natural Resource Management Program. Millennium Kids works in collaboration with Department of Biodiversity, Conservation and Attractions and Local Government Authorities in Perth, Western Australia,. The program aligns with Department of Education’s Sustainable Schools WA to support schools sustainability goals.

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