MEASURING URBAN FOREST CANOPY

Date: **Thursday, 28 February 2019**
Time: 9:30am – 2:30pm   (Registration from 9:00am)
Venue: WALGA Boardroom, ONE70 LV1, 170 Railway Parade, West Leederville

WORKSHOP OVERVIEW

Please join us to hear about options for capturing urban forest canopy and opportunities for improved data analysis, interpretation and communication of findings to stakeholders.

A workshop session will be held as part of the day to discuss the effectiveness of current tree canopy measuring techniques and identify any data or tool gaps.
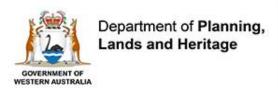
PROGRAM

9:30am **Welcome**
WALGA

9:35am **Measuring tree canopy – data capture and analysis techniques**
Peter Caccetta, CSIRO

9:55am **Estimating land surface temperature and urban heat island from Landsat 8 TIRS**
Andrew Devereux, CSIRO

10:15am **Creating urban forest canopy time series**
Joanne Chia, CSIRO

10:40am **Morning Tea**

10:55am **Urban Canopy data products**
Leo Peter and Carol Dodson, Department of Planning, Lands and Heritage

11:15am **Greenspace oriented development – reconciling urban infill with urban forest**
Julian Bolleter, Australian Urban Design Research Centre

11:30am **Is the grass really greener on the other side of the fence? Case studies from the Clean Air and Urban Landscapes Hub**
Alex Saunders, University of Western Australia and Clean Air and Urban Landscape Hub

11:50am **Accessing Urban Tree Canopy data via WALGA's Environmental Planning Tool**
Renata Zelinova, WALGA

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12:05pm   **Lunch**

12:45am   **Demonstrations of varied uses by Local Government of data to inform Urban Forest Strategies (10 minutes each)**

Barbara Meldrum, City of Perth
David Ford, City of Canning
Andy Jarman, City of Cockburn

1:20pm   **Communicating technical Information**
Bryan Boruff, University of Western Australia

1:40pm   **WORKSHOP - Capacity building – next steps towards long term data provision to support urban forest management**
Facilitated by Bryce Bunny, Department of Planning, Lands and Heritage

2:30pm   **Close of Workshop**

Peter Caccetta, Andrew Devereux and Joanne Chia (CSIRO) will outline the methods behind data capture and analysis that was used to develop the Urban Tree Canopy data for Perth and Peel, addressing issues of interpretation.

Leo Peter and Carol Dodson (Department of Planning, Lands and Heritage) will show how the CSIRO Urban Monitor can allow government to expertly manage the Perth and Peel urban canopy cover over time and across administrative boundaries. This presentation gives examples of statistical reporting on canopy cover; broken down by suburb and separated into street blocks, public parks and road reserves.

A consistent approach to urban canopy data allows us to measure and monitor changes in coverage, and to plan proactively to increase canopy across our suburbs. There are opportunities to apply this data to help monitor and understand the effects of policy implementation and different environmental management strategies across the urban forest. Future analysis could involve bringing in other information such as land zoning, demographic or economic data.

Dr Julian Bolleter (Australian Urban Design Research Centre) will reviews the effects on BAU urban infill on urban forests and explores an alternative strategy which densifies both urban form and urban forests.

Alex Saunders, Clean Air and Urban Landscapes Hub will provide an overview of how Urban Monitor data has been used to support research within the Clean Air and Urban Landscapes Hub, National Environmental Science Programme. These include investigations into planning based drivers of urban vegetation, the relationship between vegetation structure and land surface temperatures, and recent expansions into the east coast of Australia.

Renata Zelinova (WALGA) will demonstrate the opportunities for urban forest planning via the use of the Environmental Planning Tool.

Bryan Boruff (University of Western Australia) will provide tips on how to communicate highly technical information to non-specialist stakeholders to ensure adequate data interpretation.