



# Tech Teasers 1) LiDAR – Applying science fiction to plant measurements



**THE CENTER FOR SUSTAINABLE ECOSYSTEM SOLUTIONS PRESENTS:**

**Dr. Owen Price and Dr Phil Zylstra – Centre for Environmental Risk Management of Bushfires, UOW**

Date: Monday 25<sup>th</sup> June

Time: 16:00 – 17:00

Venue: Building 20 Theatre 5 (20.4)

Refreshments will be provided

## **ABSTRACT**

LiDAR data is a 3-point cloud of vegetation created by firing a laser millions of times from a plane or stationary (ground-based) device. Every time the laser bounces off something, the device records the precise location in space of that something. Airborne LiDAR has been flown over large parts of NSW and can be used to produce high resolution maps of many things such as tree canopy height and density or shrub cover. Terrestrial LiDAR can be used to get super high resolution plant structure for a field plot.

In this talk, we give you an idea of what you can use LiDAR for, how to get and process the data to get simple measures like cover maps.

## **BIOGRAPHY**

Owen Price is a senior research fellow at the Centre for Environmental Risk Management of Bushfire. He has spent 30 years exploring spatial questions in conservation and fire bushfire management, using a wide variety of data and techniques.

Phil Zylstra is a research fellow at the Centre for Environmental Risk Management of Bushfire. He has developed a novel fire behaviour model that applies physical principles of fire to 3-d representation of plant structure.



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