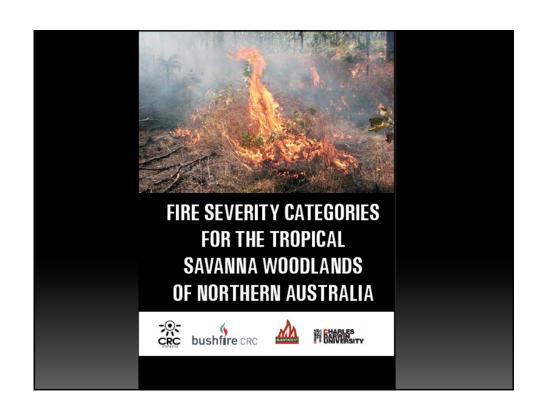
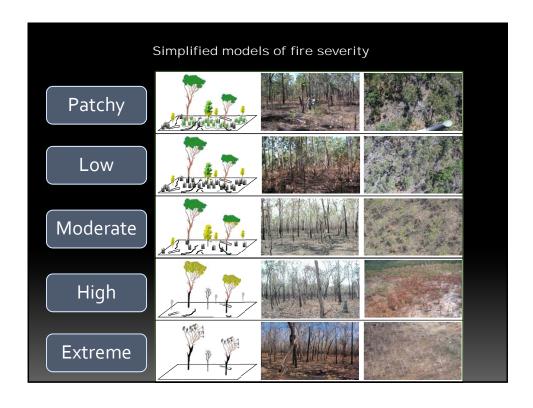
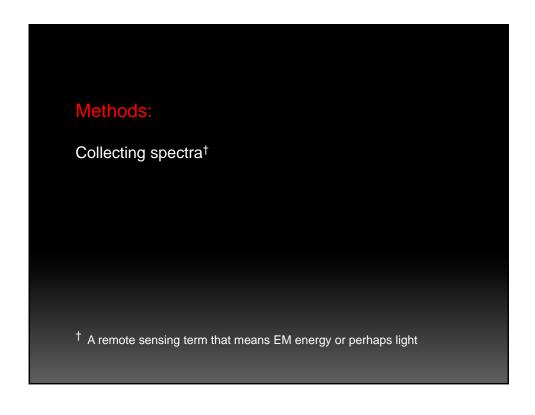


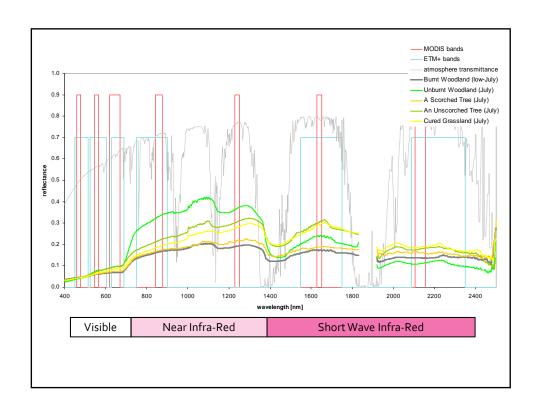
- Fire severity is a measure of the post-fire affect of fire on the vegetation.
- Fire Intensity is a measure of the energy released by a fire, usually measured in kiloWatts per linear metre.
- ➤ Burn severity is a post-fire measure of the time taken to reach a preferred state.

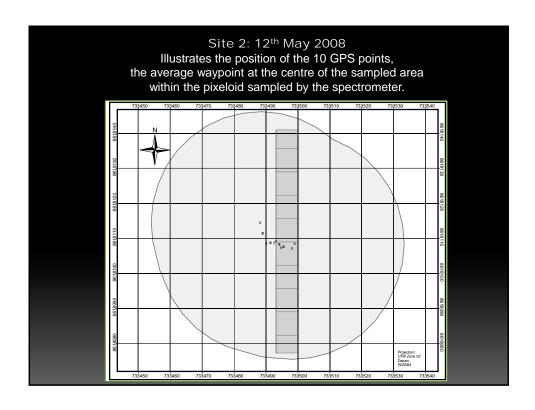


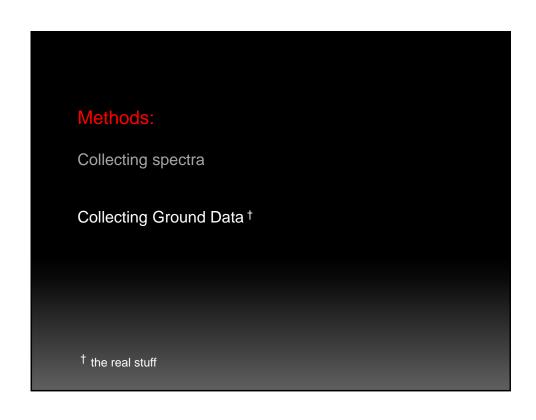


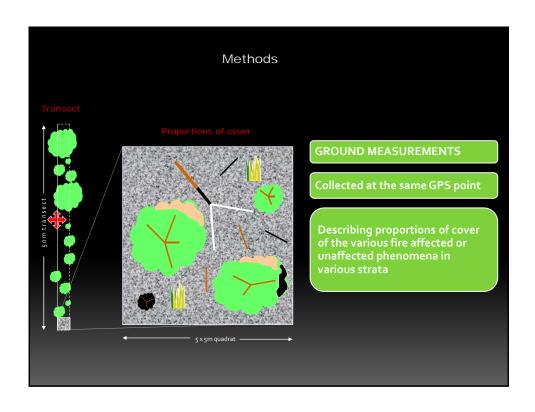


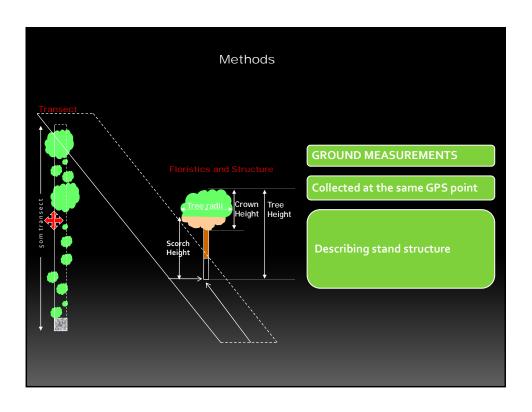


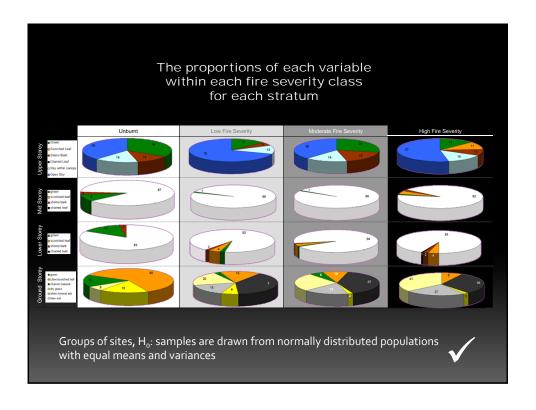


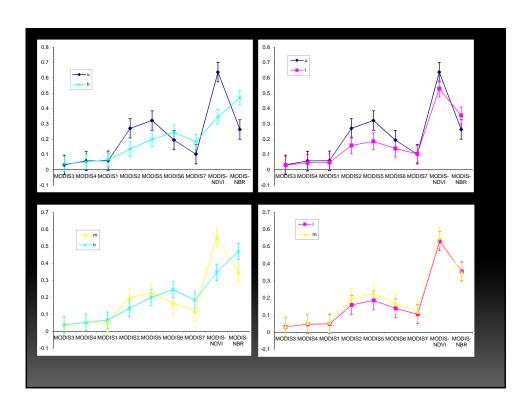


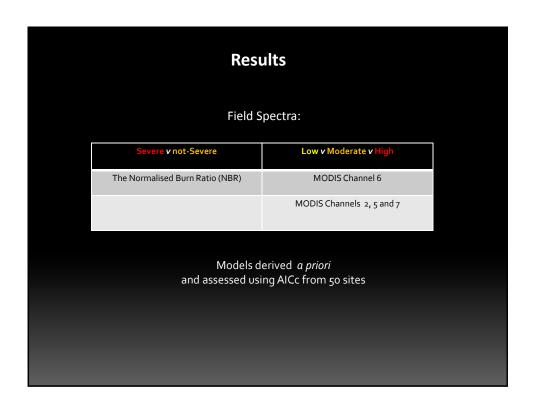




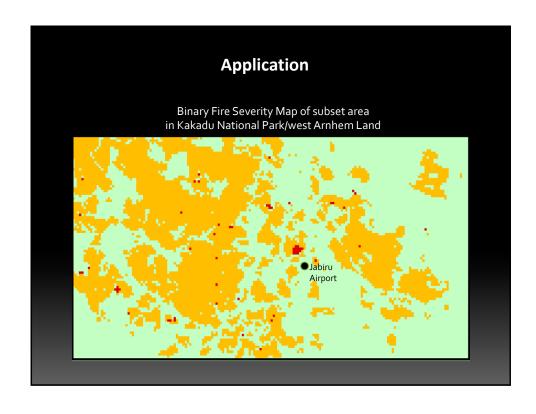








	ults ground:	
DOES NOT indicate Fire Severity	DOES indicate Fire severity	
The amount of Charred material (blackened)	The amount of Ashened material (whitened)	
The amount of Green material (photosynthetic vegetation)	The amount of non-Green & Green plant material (non-photosynthetic and photosynthetic vegetation)	

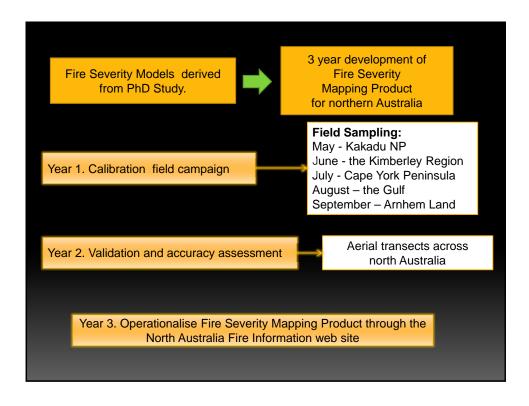


Results		
	Model	Accuracy assessment
	ΔNBR	Distinguish between Severe and not-Severe fires accuracy = 94%
	Δ Band 6	Distinguish between Low and Moderate Severity Fires, however the difference appears to vary through the fire season overall accuracy = 50%
•	Δ (Bands 2, 5 and 7)	Distinguish between Low and Moderate Severity Fires, however the difference appears to vary through the fire season overall accuracy = 70%



CRC Project:

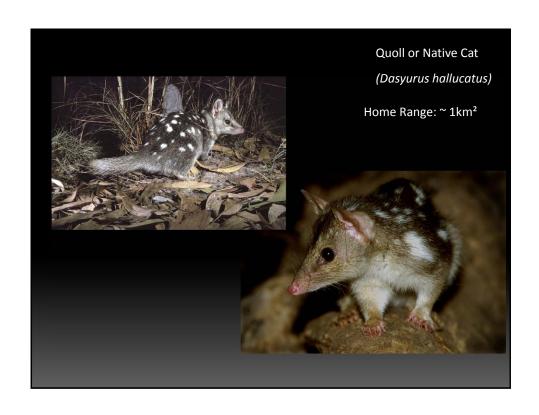
- ➤ 3 year project commenced late 2010
- Calibration a model for tropical savannasvarious main habitats
- Ongoing validation is required including end-user feedback



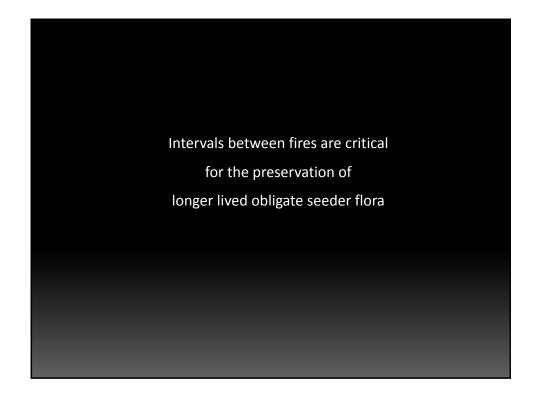


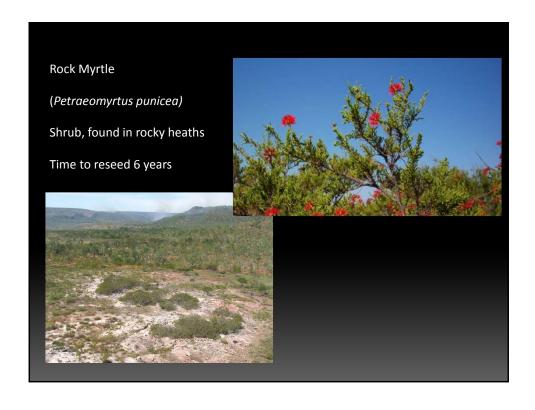






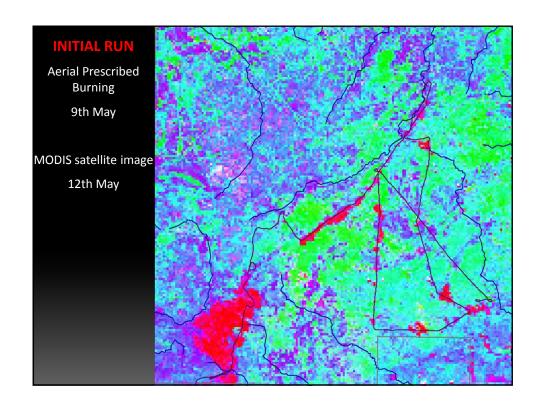


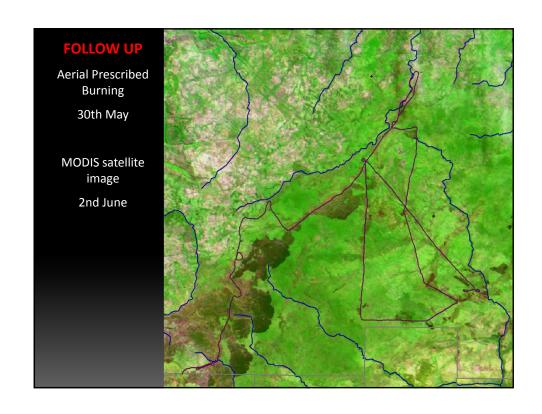




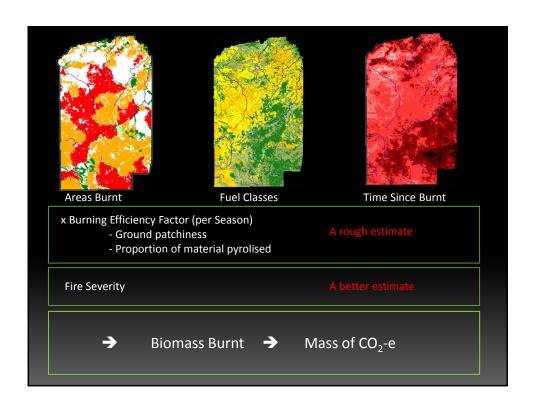


The main requirements of a fire severity map: ➤ Conservation planning; ➤ Iterative fire management planning;

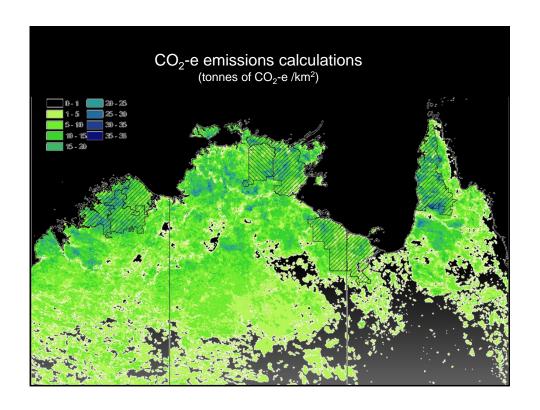




The main requirements of a fire severity map: Conservation planning; Iterative fire management planning; Greenhouse Gas Emissions Calculations.



Result: Carbon Farming Initiative -Employment -Resources for fire management



Other project components:

- ➤ A series of international peer reviewed papers;
- > Extension of the fire severity mapping into the rangelands and potentially nationally;
- Assembly of relevant GIS data and the assessment of level of risk of various fire regimes to Biodiversity and the Carbon Economy.