

Fuel Management and Tree Hazard Collector Apps Sam Hillman and John Towt

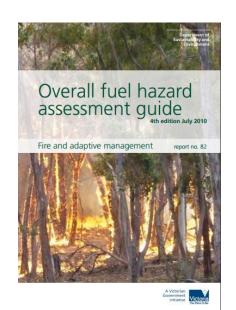


Overview

- Build process understanding user story
- Bushfire Prevention Patrol Application
- Burn Reccie/Fuel Management Integration
- Hazardous Tree integration

Build Process

Understanding the current user story

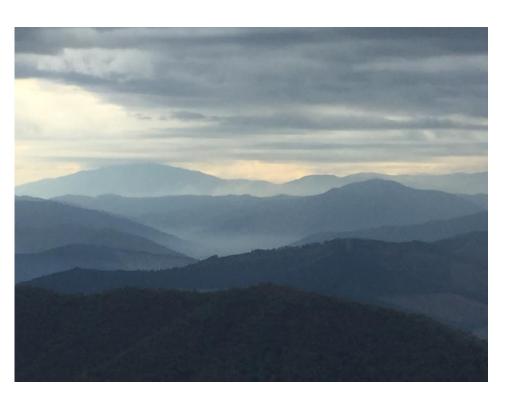


Date Assessed:						essors	_								_
Sampling Locations					-	Type	_								
. , ,					-	71									
Plot Information															
Plot No.	+		_		_			_			<u> </u>		_		_
Zone:	-	_	_	_	_		_	_	_	_		_	_	_	_
Easting (GDA94 MGA UTM): Northing (GDA94 MGA UTM):	-	+	Н	-	+	-	+	Н	+	+	М.	+	Н	Н	+
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ш	_	ш	_	_	Щ	_	ш	_	_	Щ	_	ш	Ц	_
Canopy (20m radius)															
Canopy Ave Height to Top:	+				m	_				-	⊢				_
Canopy Ave Height to Base:	_				-	_				_	\perp				
Bark fuel (20m radius)															
Stringybark Fuel Hazard:	NP	М	н	VH	E	NP	М	н	VH	Ε	NP	М	н	VH	L
Ribbon Bark Fuel Hazard:	NP	М	н	VH		NP	М	н	VH	_	NP	М	н	VH	Д
Other Bark Fuel Hazard: Note: NP is bark type not present. Use the		М	Н			L	М	н			L	М	н		L
		Dank I		tating	10 081	errene	Uwit	H FUR	Paza						
Elevated fuel layer (10m radius) Elevated % Cover:	-				*					*					-
Elevated % Dead	+	_	_	_	÷	-	_	_	_	÷	\vdash	_	_	_	-
Elevated Fuel Ave Height (m)	+	_		_	m	-	_		_	m	\vdash	_		_	
Elevated Fuel Hazard:	1	м	н	VH.	E	L	м	н	VН	E	L	м	н	Vн	T
Managembas feel laws (180 a co		Ξ					=								
Near-surface fuel layer (10m ra: Near-surface % Cover:	100)				%					%					-
Near-surface % Dead	+	_		_	÷	\vdash	_		_	÷	\vdash	_		_	-
NS Ave Height (cm):	+	_		_	cm	\vdash	_		_	cm	\vdash	_		_	-
NS Fuel Hazard:	L	М	н	VH	E	L	М	н	VH	E	L	М	н	VH	T
Surface fuel layer (10m radius)															
Surface Litter % Cover:					*					%					-
Ave Litter Depth (mm):	+	_	_	_	mm	\vdash	_	_	_	mm	\vdash			_	m
Surface Fuel Hazard	L	М	н	VH	Ε	L	М	н	VН	Ε	L	М	н	VH	T
Combined Surface and Near-sur	fare f	na fi	al e	arand	rale	datio	n for	for t	erile.	- 21					
Combined Hazard		M	н	VH	E	L	M	н	VH	E	L	М	н	VH	1
	_				Ė	Ė	_			•	Ė	-	<u></u>		Η.
Overall Fuel Hazard calculation Overall Fuel Hazard	_		_	VH			м		VH						F,
Overall Fuel Hazard	L	М	н	VH		L	М	Н	WH	E	L	М	н	VH	<u> </u>



Build Process

Understanding the environment in which we work



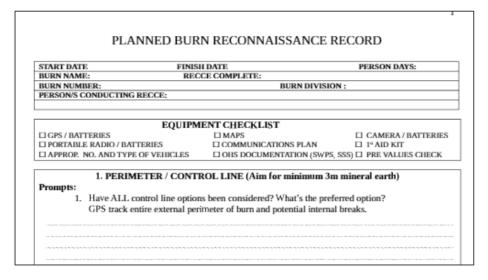


Bushfire Prevention Patrol

- Users wanted to digitise current form during Forest Patrol.
- Built for OCFO as a trial
- Successfully implemented
- Future developments to make changes to Compliance Application

Burn Reccie - Fuel Management

- Current method:
 - Burn reccie sheet
 - Handheld GPS
 - Digital Camera
- Labour intensive
- Still important to maintain this process
- Arc Collector brings all existing tools into one

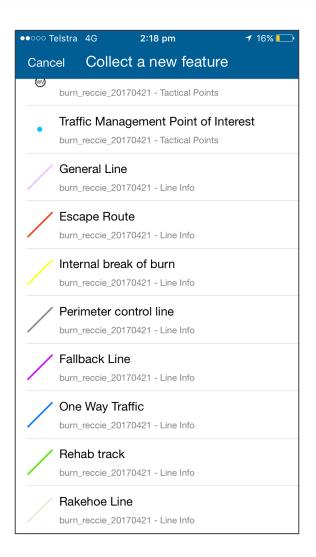




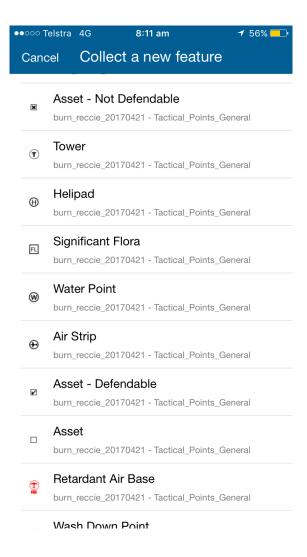


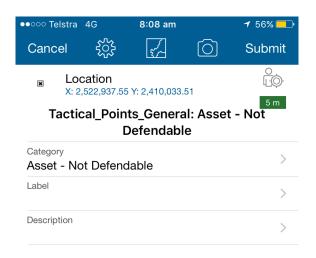
Burn Reccie - Fuel Management

- Burn Reccie Collector tool
- Replicates symbology in eMap
 - Points
 - Lines
 - No polygons at this stage
 - FMC
- Data to feed back into eMap
- Distributed via workcentre accounts



Burn Reccie - Fuel Management





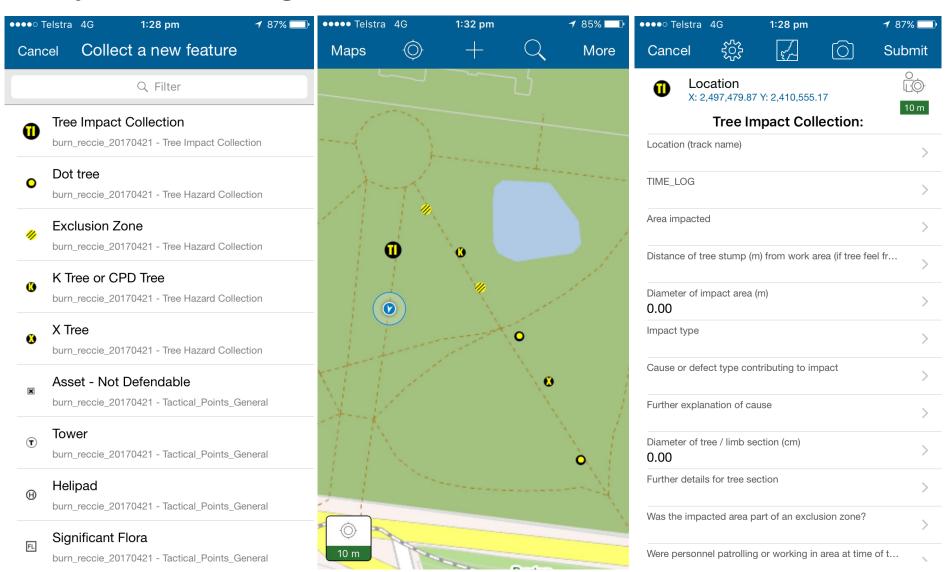
Fuel Management – Tree Hazard

- Tree hazard is a primary safety concern for FFM
- Integration of forms in burn reccie.
- Stand alone map can also be used during post ignition - Tree Impact
- Incorporates with new tool development
 - Tree Hazard ContingencyPlan
- Export to multiple formats

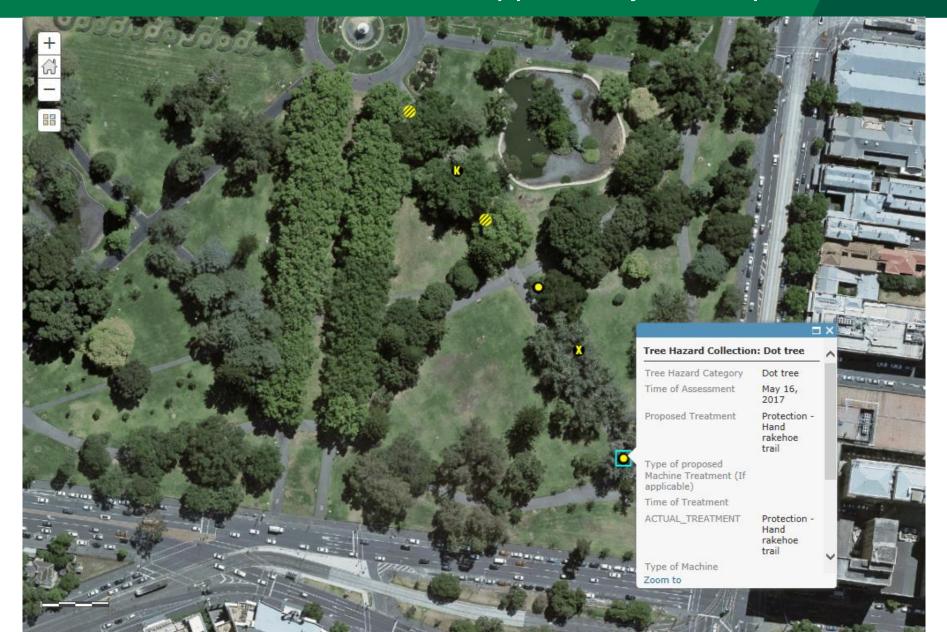


Tree Hazard – Arc Collector App – Project Snapshot

Project Status: In Progress



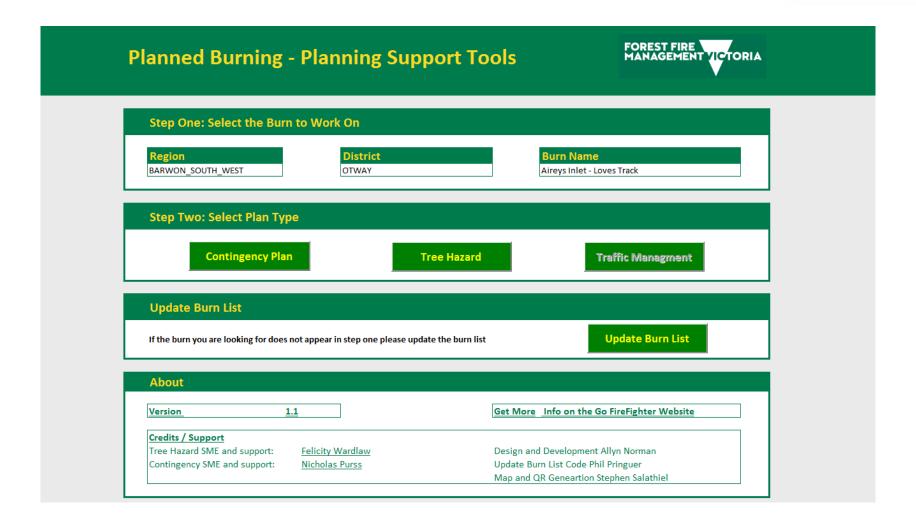
Tree Hazard – Arc Collector App – Project Snapshot



Tree Hazard – Arc Collector App – Project Snapshot

Tre	e Hazard Colle	ection (6 features, 0	selected)								≡
£	OBJEC *	Tree Hazard Cat	Time of Assess	Proposed Treat	Type of propos T	ime of Treatment	ACTUAL_TREA	Туре	e of Machin	. Tree type	Tree diame
1		Dot tree	,	Protection - Hand rakehoe trail			Protection - Har rakehoe trail	nd		Stringy	
2		X Tree	5/16/17, 1:21 PM	Hand falling							80
3		Dot tree	,	Protection - Machine Clear							60
4		K Tree or CPD Tree	5/16/17, 1:25 PM	Exclusion zone	5/	16/17, 1:25 PM	Exclusion zone				
Α	В	С	D	E	F	G	н	I	J	K	
OBJETH		FIRE COLT STORE AM	Poposed resiment	The of the observative Treatment (If any	Insertrent to suffer	4 Cru A TREATHEM	o tribuna	Tree damere (cm)	Tre Helshin)	Compens fee, heeros when sulfage	
	1 Dot_tree 2 X_tree	5/16/2017 3:19:26 AM 5/16/2017 3:21:09 AM				Protect_hand_ra	ke Stringy Stringy	80			
	3 Dot tree		Protect_machine_rake	D4			Bluegum	60			
	4 CPD_Tree	5/16/2017 3:25:01 AM			5/16/2017 3:25:18	AM Exclude	Peppermint	70		On top of batter, very unsta	ble
	5 Exclusion_Zone		Exclude			Exclude				•	
	5 Exclusion_Zone 6 Exclusion_Zone		Exclude Exclude			Exclude Exclude					

Tree Hazard – Integration with new tools



Future

- Testing
- Tool to assist not to replace
- Communication
- Keeping users centric to development
 - Increased functionality:
 - Active symbology
 - Tracks
 - Smoother one-to-many work flows
- Opportunity to engage with Field Tech Reference Group