ACT Parks and Conservation Service Fire Management Unit Parkcare Presentation 30 July 2024





Outline

- What the RFMP Project is
- How it nests with the SBMP
- Concept of Residual Risk
- How the RFMP leads towards the EPSDD/PCS BOP
- Urban Interface development approaches (Grantley)
- Bushfire Operations Plan (BOP)
 Schedule
- Prescribed Burn scheduling for 2024/25 (Kirsty)





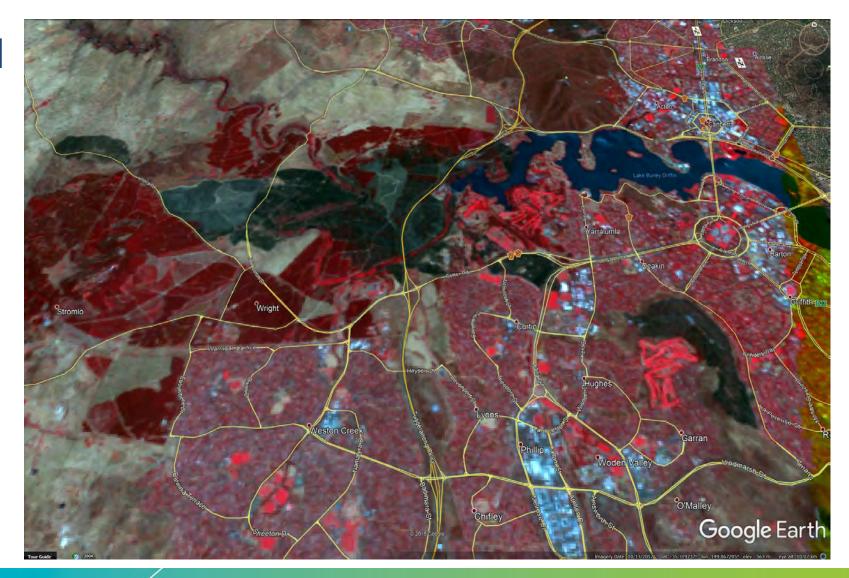
Fire in the landscape

- Bushfirew have been a fundamental part of the ACT landscape over time
- Last 100 years has seen many fires, grassland as well as forest, varying in size and intensity and impact on human assets as the population increases
- The ACT now has the shortest interfire major bushfire interval of all States – down from 70+ years to 18 years according to research (Canadell et al 2021)
- Fire behaviour has three drivers: Fuel Weather Topography. the management lever we can apply that will affect fire behaviour is fuel

History of fire in the ACT











Fire in the landscape

- All jurisdictions use prescribed burning as a fuel management tool, to deliver ecological outcomes and to support cultural outcomes
- When designed and implemented well, avoids the detrimental impacts of too frequent intense fire on forest ecosystems
- Renewed focus on management practice since 2019-20 fire season with the emergence of alternative views on prescribed burning
- Most areas are unlikely to reach 40+ years of fuel age without bushfire impact under climate change scenarios
- The review of the SBMP and RFMP provide the opportunity to confirm ACT approach to fire management

ACT Bushfire Management Planning Framework

Strategic Bushfire Management Plan (SBMP)

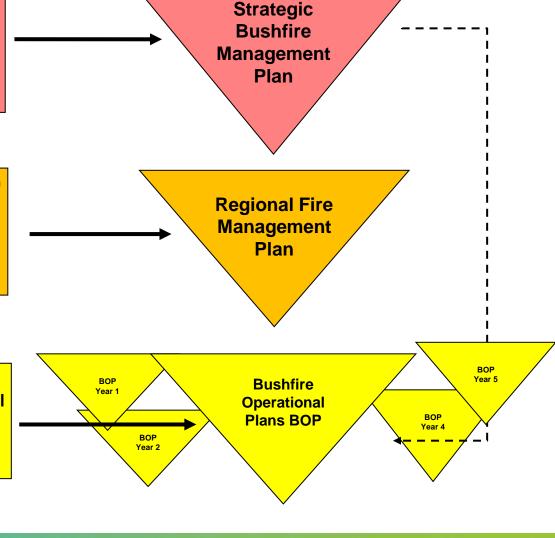
- requirement of the *Emergencies Act 2004*.
- reviewed every 5 years
- Responsibility of Minister for Emergency Services

EPSDD Regional Fire Management Plan (RFMP)

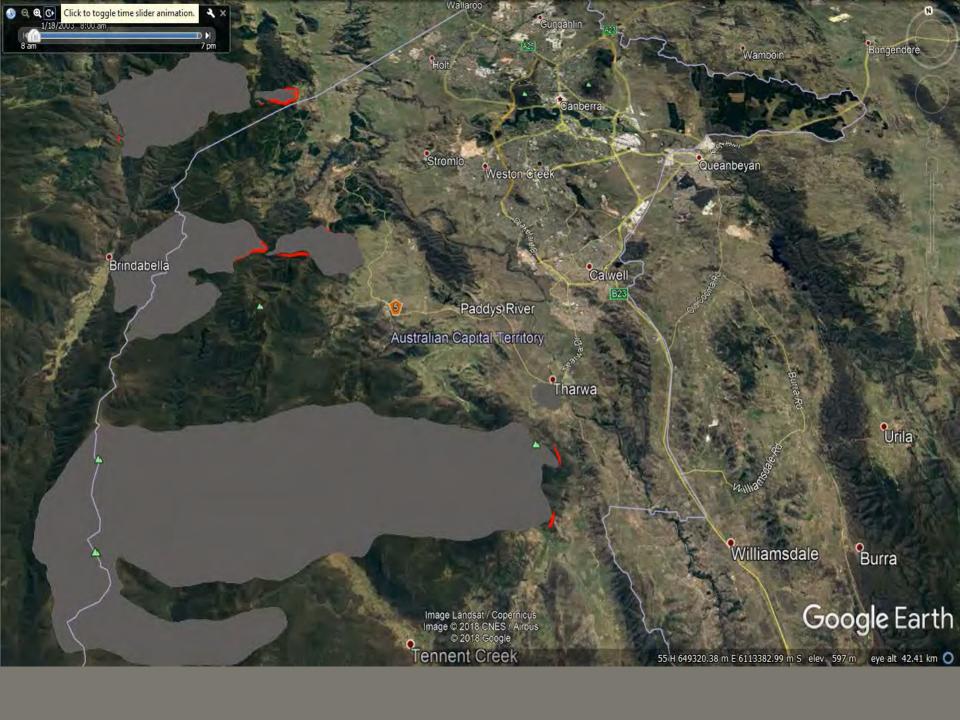
- bridges the gap between broad planning and specific operations
- planning of prescribed burns
- 5 Year Plan with a 10 year outlook

Bushfire Operational Plans (BOPs)

operational annual plans - detail fire and fuel mitigation activities

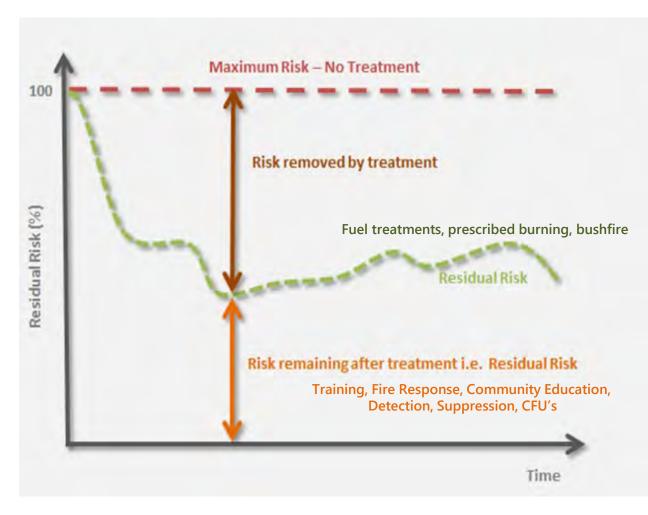






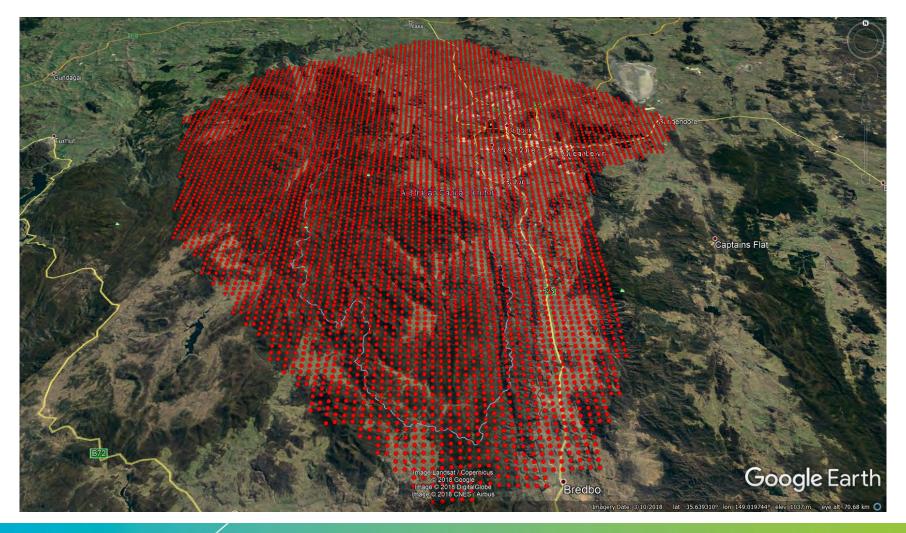
Residual Risk

- Measures the effect fuel treatments such as planned burning
- Also incorporates stochastic fire events 2003, 2020
- Risk can be calculated for houses, water quality, ecological assets
- Assumptions:
 - APZs treated
 - Assumes grazing
 - Grass 2 tonne/ha
 - Fuel accumulation
 - No suppression





Canberra "fire catchment" and 1km ignition grid – 6599 points

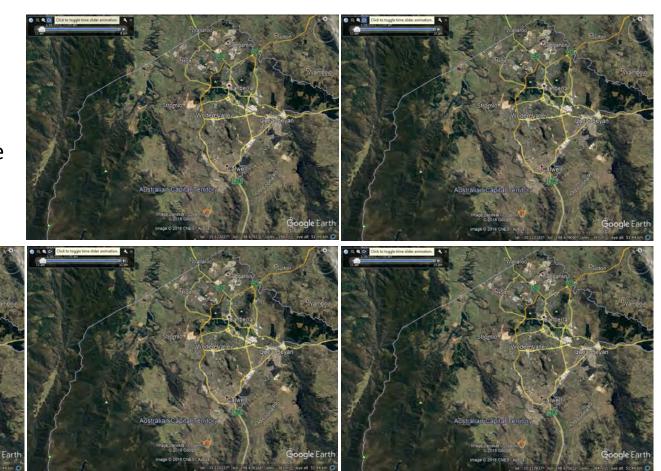




Individual Phoenix fire ignition runs - examples

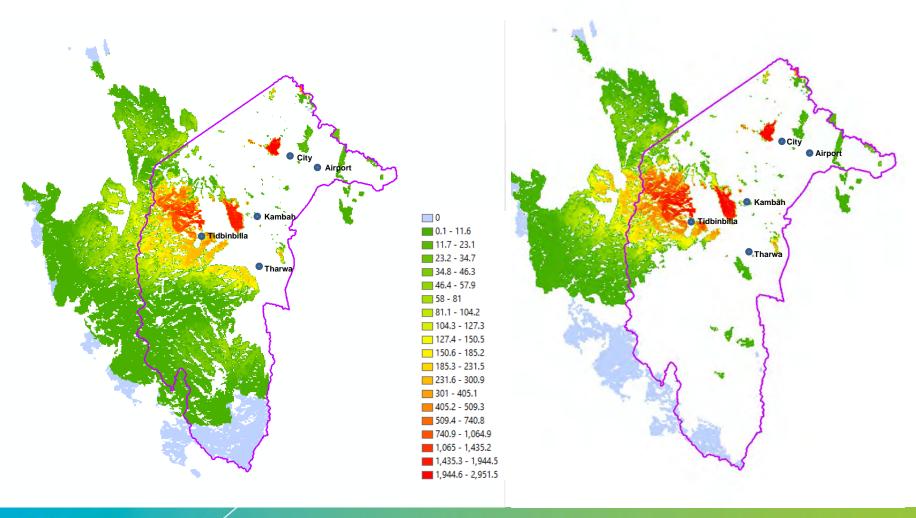
Each of the 6599 fires is run individually.

Metrics (fire size, house loss, area of plantation burnt, kms of powerline, biodiversity values etc) are calculated for each fire.



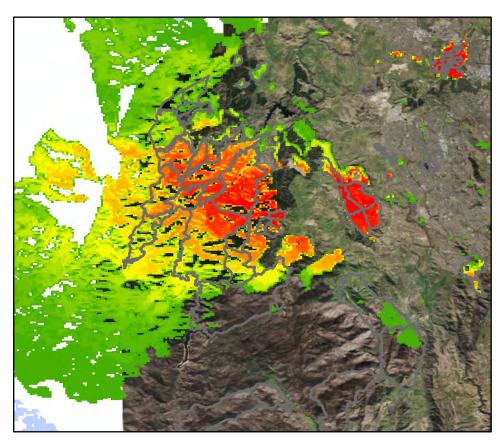


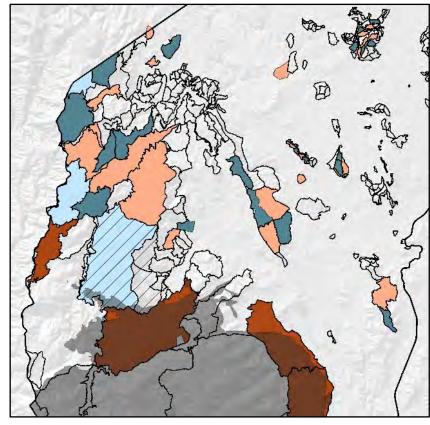
Areas of highest 'Residual Risk' 2019 versus 2020 (ACT Address points)





RFMP Areas versus Risk Analysis







Burns for period 2019 - 2023



Optional (if other burns can't be implemented)



Mt Domian: maximum burnable area



Possible burns for period 2024 - 2028



Remove



Orroral Fire



5.5

RFMP Version 2023-2028 Review

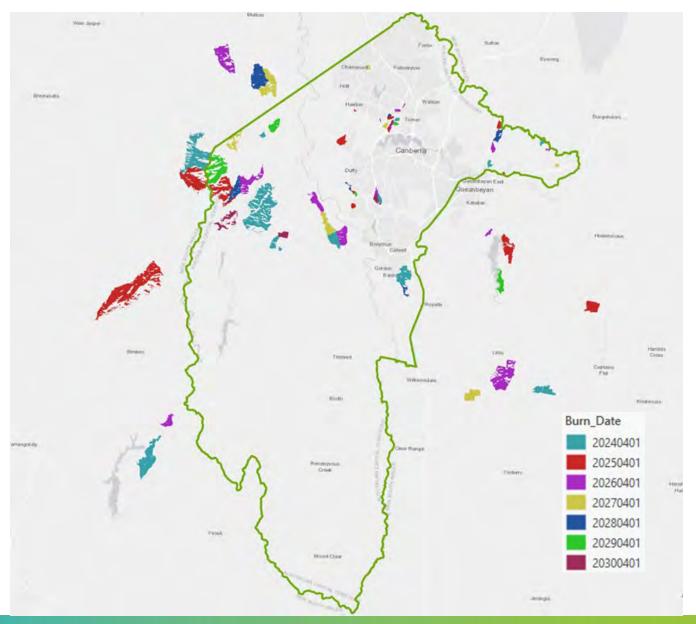
Main Changes:

- 'Tenure-blind' analysis and treatments proposals
- Incorporate Climate Change Adaptation and impacts
- Improved Phoenix modelling approaches
- Incorporate 'Residual Risk' for Ecological Assets and Water Assets
- Work through Orroral Valley Fire footprint future treatments
- Bring modelling capacity 'in-house'
- Work closely with SBMP Team at ESA on Zoning changes in ACT Parks and Reserves
- Incorporate planning and development into EPSDD annual operational plans



Scheduling RFMP areas

- Residual Risk calculations rerun after each Autumn burn program and any major bushfire events
- Include NSW proposed burn schedule

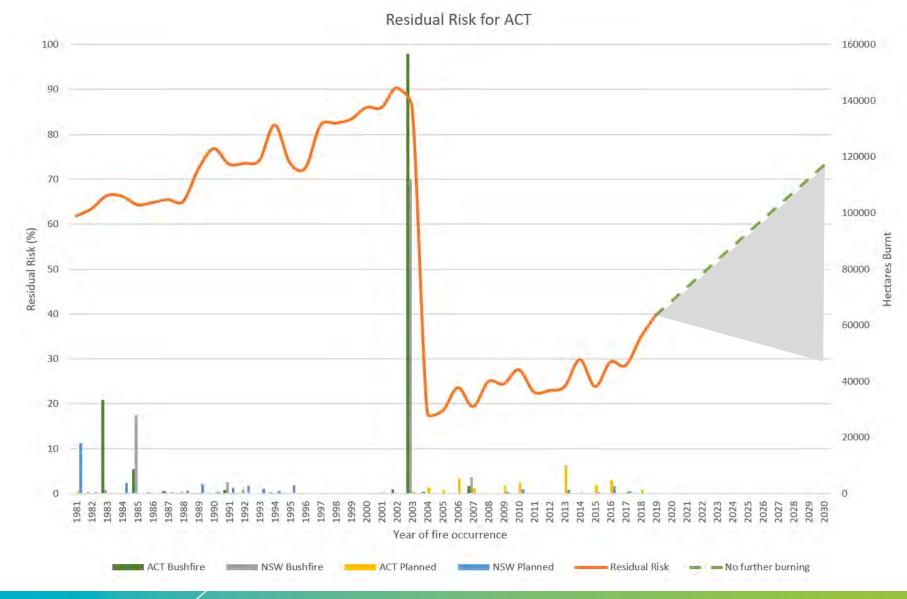






Prescribed Burning

- PCS implement prescribed burning for a range of 3 broad objectives –
 fuel/hazard reduction, ecological and cultural burning, or a combination
 of the above
- To achieve the stated objectives all PCS prescribed burns are subject to prescriptions
- We implement lighting patterns designed to reduce the fuel for the site We employ "cool burns". We retain around 30-50% of the area as unburnt (patchiness), creating havens and age diversity within the burn site
- We work to assist local Ngunnawal community and are partnering in achieving their objectives
- PCS subscribes to literature, research and practices adopted, supported and endorsed by AFAC, the Bushfire and Natural Hazards CRC and the National Centre for Prescribed Burning Excellence





Residual Risk (ACT Address points) 2024

