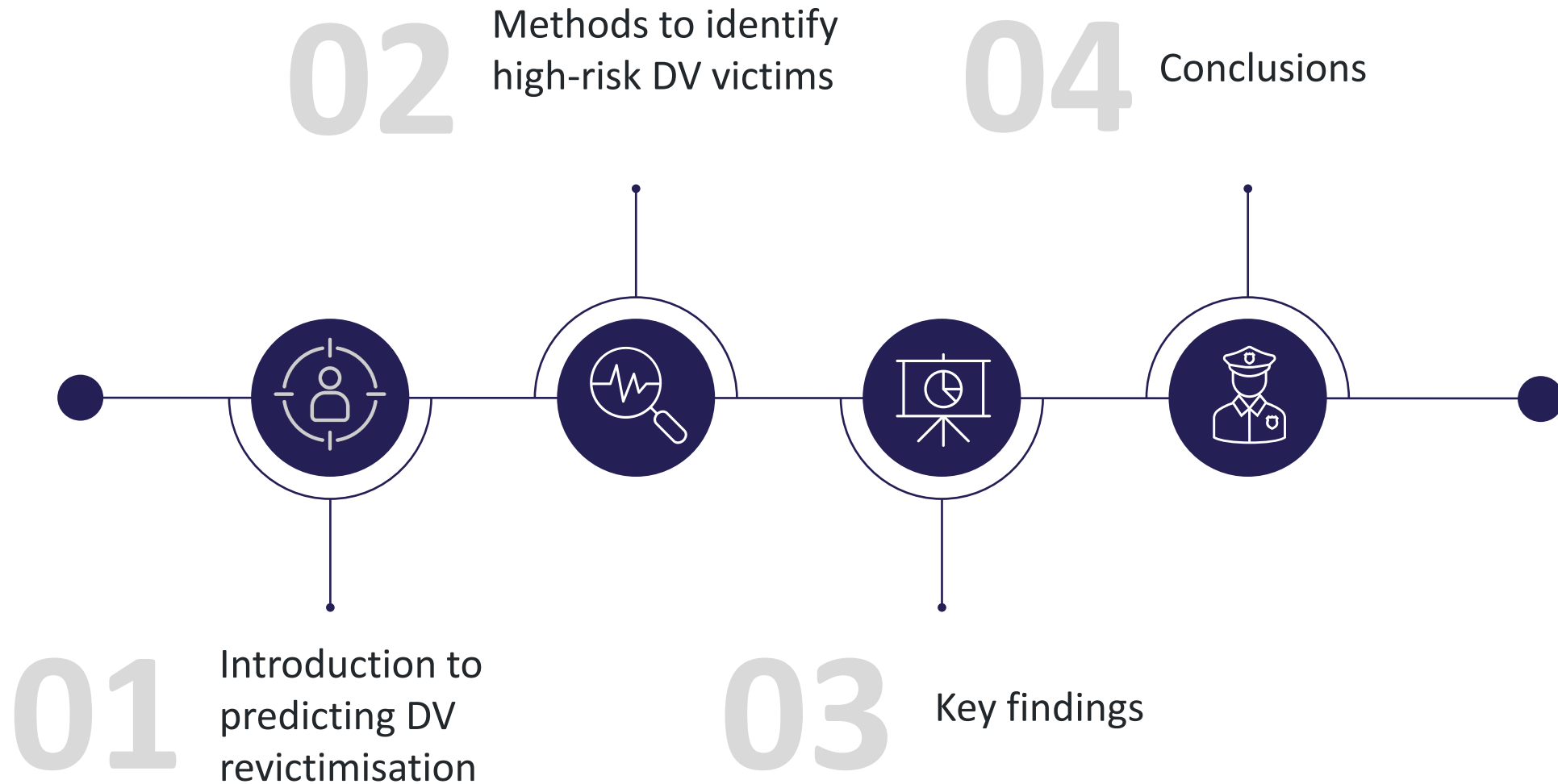


Identifying those at high risk of Domestic Violence revictimisation

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DV revictimisation
prediction

Mother of domestic violence murder victim slams system designed to protect women and children

ABC Central West / By Joanna Woodburn
Posted 18h ago, updated 17h ago



Donna Thornell says an AVO failed to protect her daughter Kristy Armstrong who was murdered in June 2023. (ABC Central West: Joanna Woodburn)

abc.net.au/news/mother-of-domestic-viole...

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- **In short:** The mother of domestic violence murder victim Kristy Armstrong says the support system failed her daughter.
- The young mother was murdered by her former husband in a road crash at Molong in 2023.
- **What's next?** The NSW government is being urged to overhaul the system designed to protect victim-survivors.



Media reports suggest a gap in risk assessment for Domestic Family Violence (DFV) victims

Leaving Violence Program for victim-survivors of intimate partner violence

- Australian Federal Government announced an investment of **\$925.2** million for the **Leaving Violence Program**
 - Up to \$1,500 cash
 - Up to \$3,500 in goods and services
 - Safety assessments and referrals to support pathways
- **Motivation:** risk assessment to improve decision making
- **Aim:** identify a cohort of **DFV victims** that are at high-risk of DFV related repeat victimisation

 Search

Helping women leave a violent partner payment

Release Date: Wednesday 1 May 2024
Media release



Portfolio Responsibilities

Senator the Hon Katy Gallagher is the Minister for Finance, Minister for Women, Minister for the Public Service

Contact the Minister



Joint release with

The Hon Anthony Albanese MP
Prime Minister of Australia
The Hon Amanda Rishworth MP
Minister for Social Services



The Albanese Labor Government is committed to ending family, domestic and sexual violence in a generation. This is a national crisis.

We want women to know if they need to leave they can afford to go.

We understand the insidious links between financial insecurity and stress and vulnerability to family and domestic violence. Too often, financial insecurity can be a barrier to escaping violence.

That's why the Government will invest \$925.2 million over five years to permanently establish the Leaving Violence Program – so those escaping violence can receive financial support, safety assessments and referrals to support pathways.

Those eligible will be able to access up to \$5,000 in financial support along with referral services, risk assessments and safety planning.

This commitment builds on a record \$2.3 billion in measures put in place by the Albanese Government to help address violence against women.

Further, the Albanese Government has expanded eligibility for parenting payment single – helping 82,000 more single parents remain on higher payment rates until their youngest child turns 14; legislated ten days paid family and domestic violence leave; increased rent assistance with the largest increase in 30 years; and invested in crisis accommodation and affordable housing for women and children escaping violence.

Intimate partner violence is a problem of epidemic proportions in Australia, with a quarter of all Australian women having experienced it in their lifetime.

The Leaving Violence Program will support victim-survivors of intimate partner violence to make informed choices about leaving violent relationships and receive the vital support they need.

2

Methods to identify
high-risk DV victims



Demographics

- Age
- Gender
- Aboriginality



Criminal justice contact

- Prior victimisation
- Prior offending
- Age at first victimisation
- Age at earliest incident



Most serious offence details

- Number of victims
- Age at victimisation
- Age of POI
- Gender of POI
- POI relationship to victim
- Premise type
- Crime Seriousness
- Remoteness
- SEIFA



Victimisation event details

- Days since first event
- Days since latest event
- Number of child sexual victimisations
- Number of alcohol related victimisations
- Number of DV related victimisations
- Number of breach AVO victimisations
- Police Area Command

Datasets



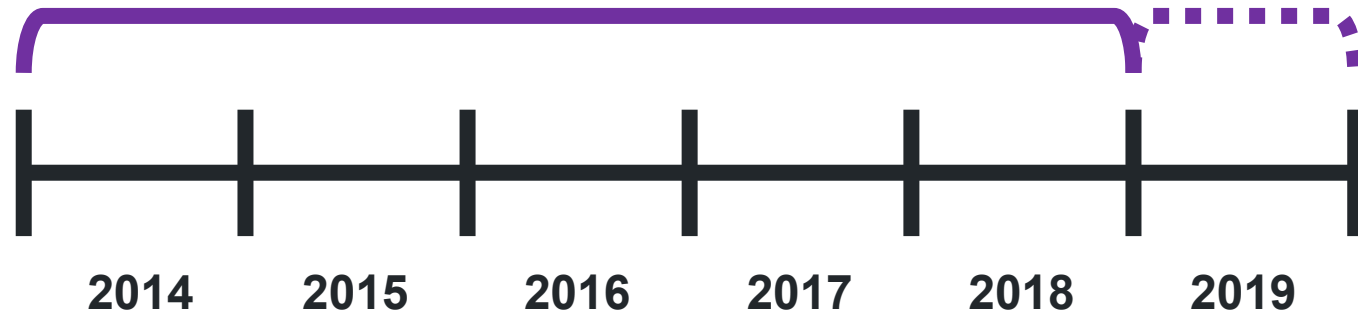
179,630

individuals with DV-related victimisation, with **15,298 (8.5%)** experienced DV revictimisation in 2019

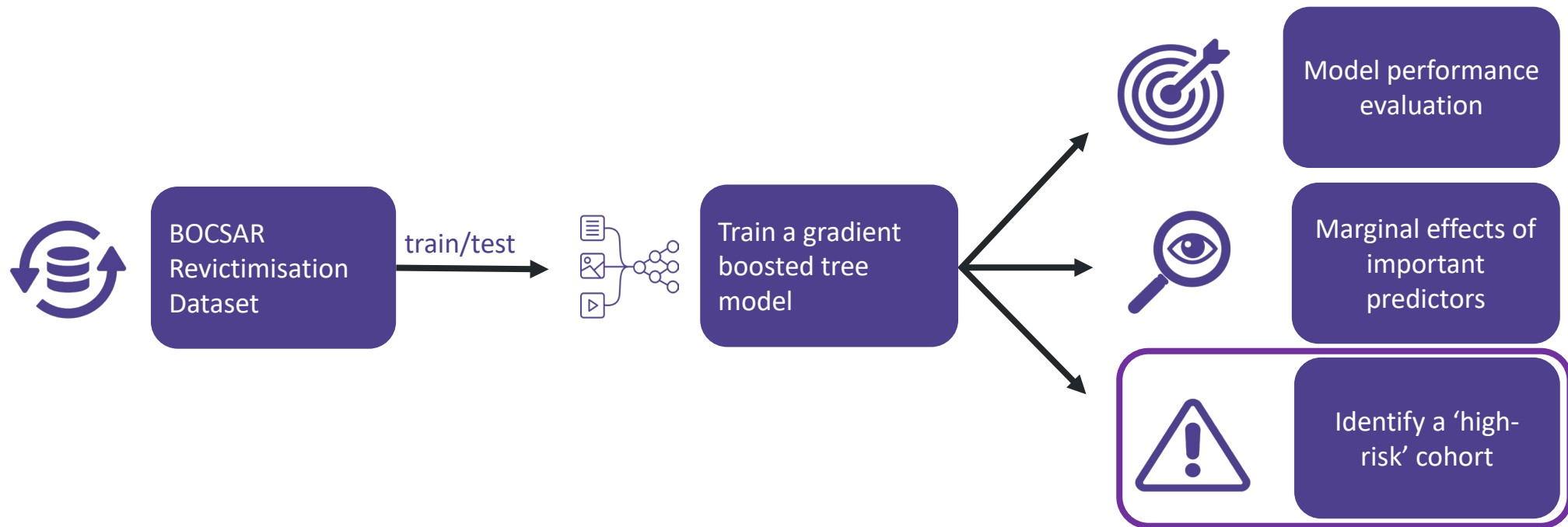


Individuals who experienced DV victimisation during 2014-2018

Observe whether they are revictimised in DV in 2019 (8.5%)



Proposed empirical strategy to predict DV revictimisation and identify a 'high-risk' cohort



3

Key Findings

The prediction model is accurate and does not differ significantly in AUC by gender or Aboriginality

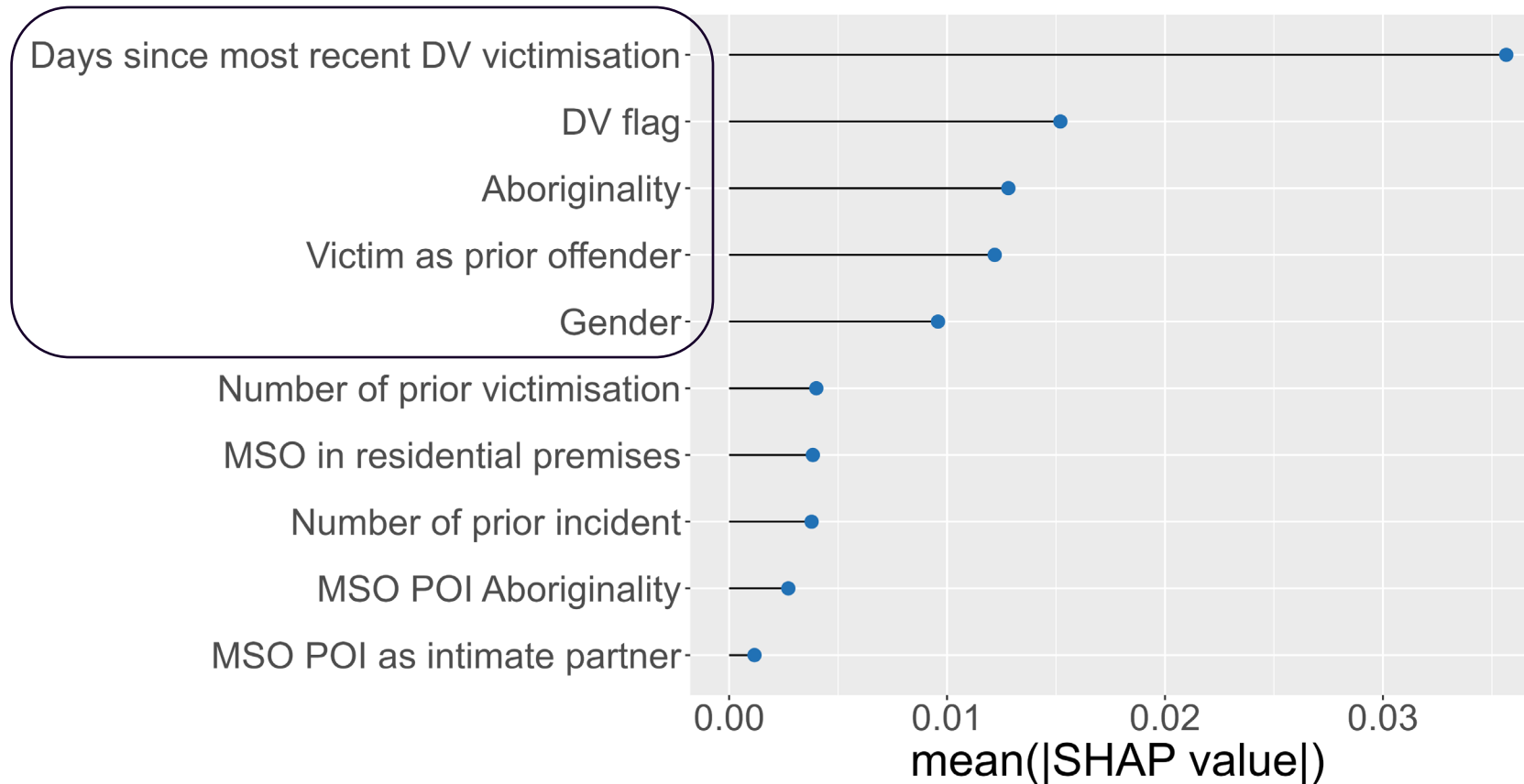


		AUC	Accuracy	Precision	Sample size
Full sample		0.76	0.92	0.76	35,926
	Female	0.76	0.90	0.76	23,942
	Male	0.73	0.95	-	11,984
	Aboriginal	0.73	0.84	0.78	6,608
	Non-Aboriginal	0.74	0.94	0.50	29,318

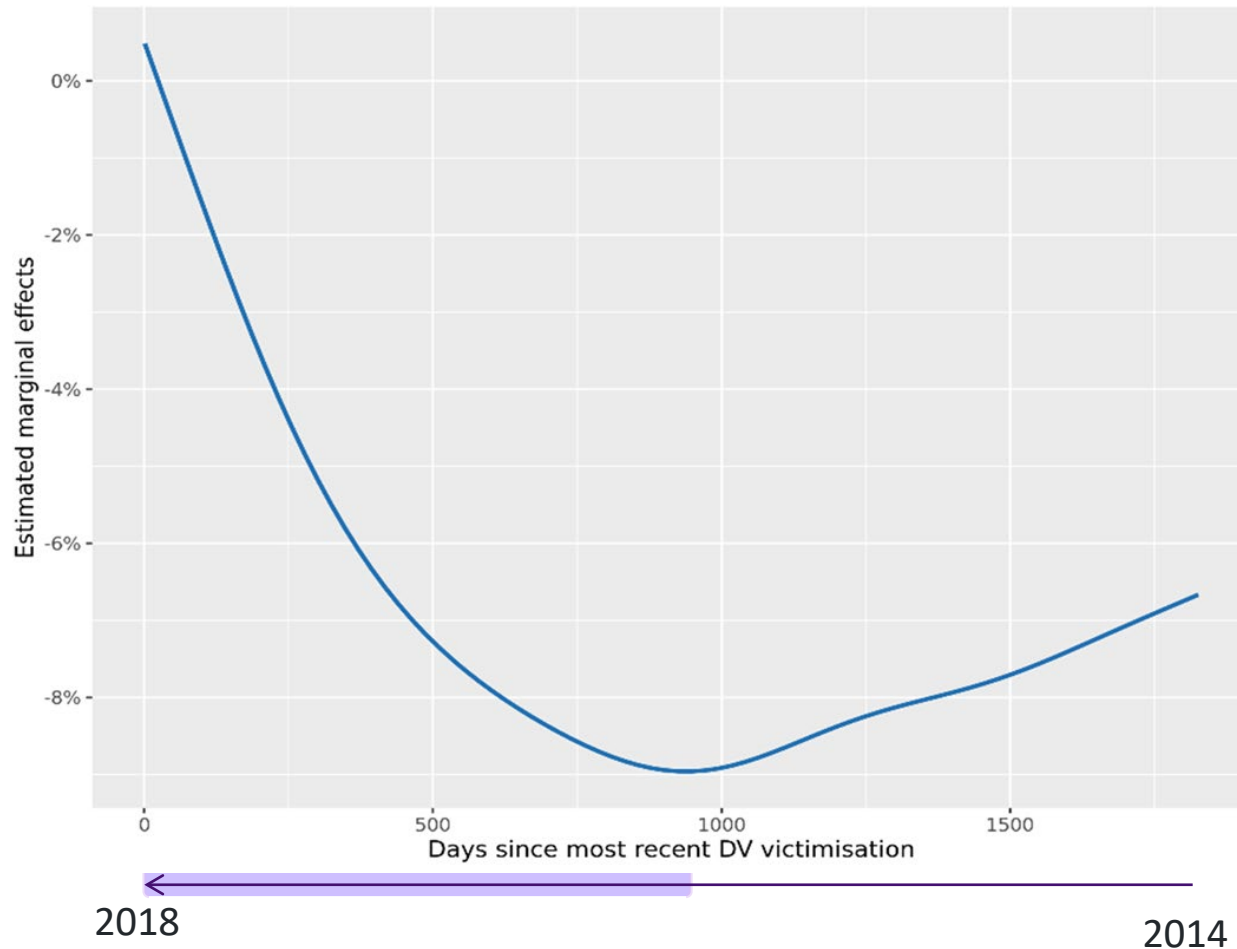
- **AUC:** model prediction measure to distinguish revictimised from not revictimised
- **Accuracy:** proportion of all predicted revictimisation that are correct
- **Precision:** proportion of those predicted to be revictimised that are actually revictimised

Note. The prediction for male is NA because no male individual in the test data is predicted with revictimisation.

The model uses previous victimisation, offending, Aboriginality and gender most in predicting revictimisation



The marginal effects in predicted revictimisation risk by predictor - how recently the individual has been victimised

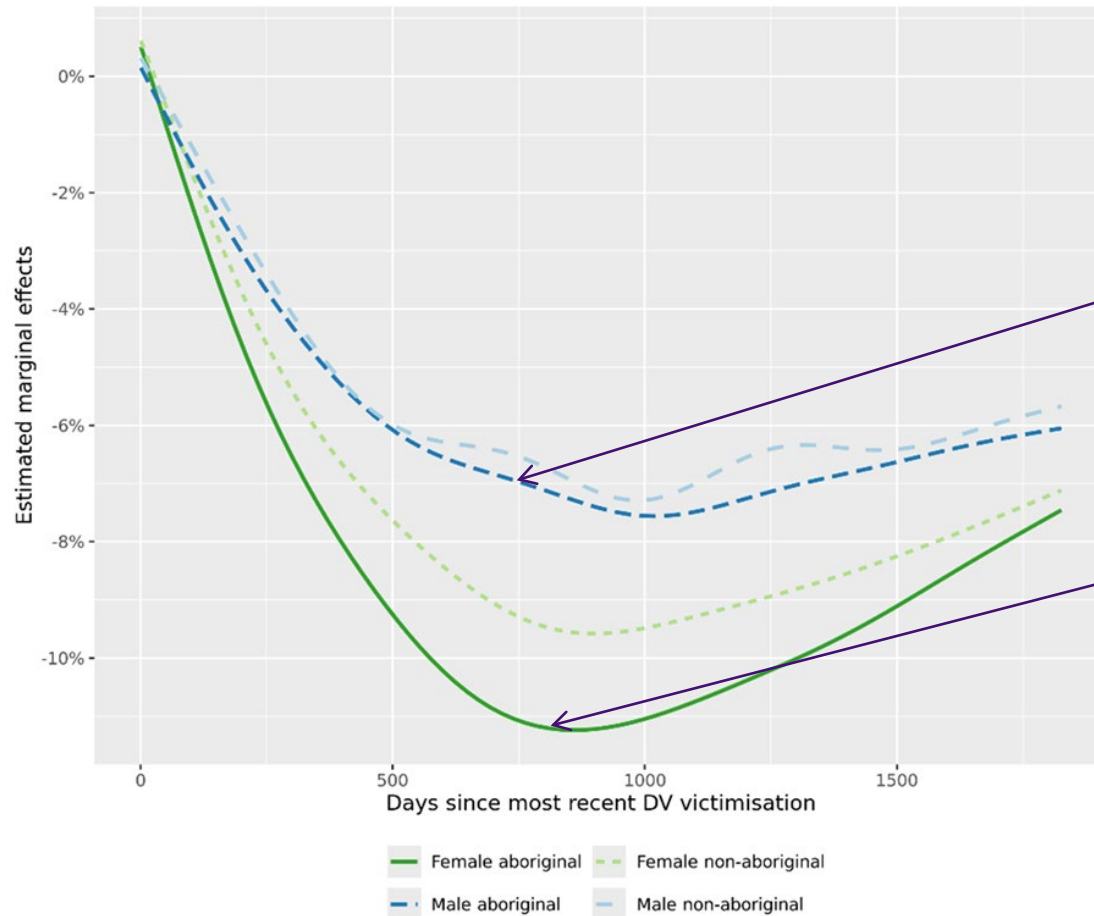


Marginal effects compared with 31st Dec, 2018

More recent victimisation, higher risk of revictimisation

Greatest risk for victimisations within two and a half years

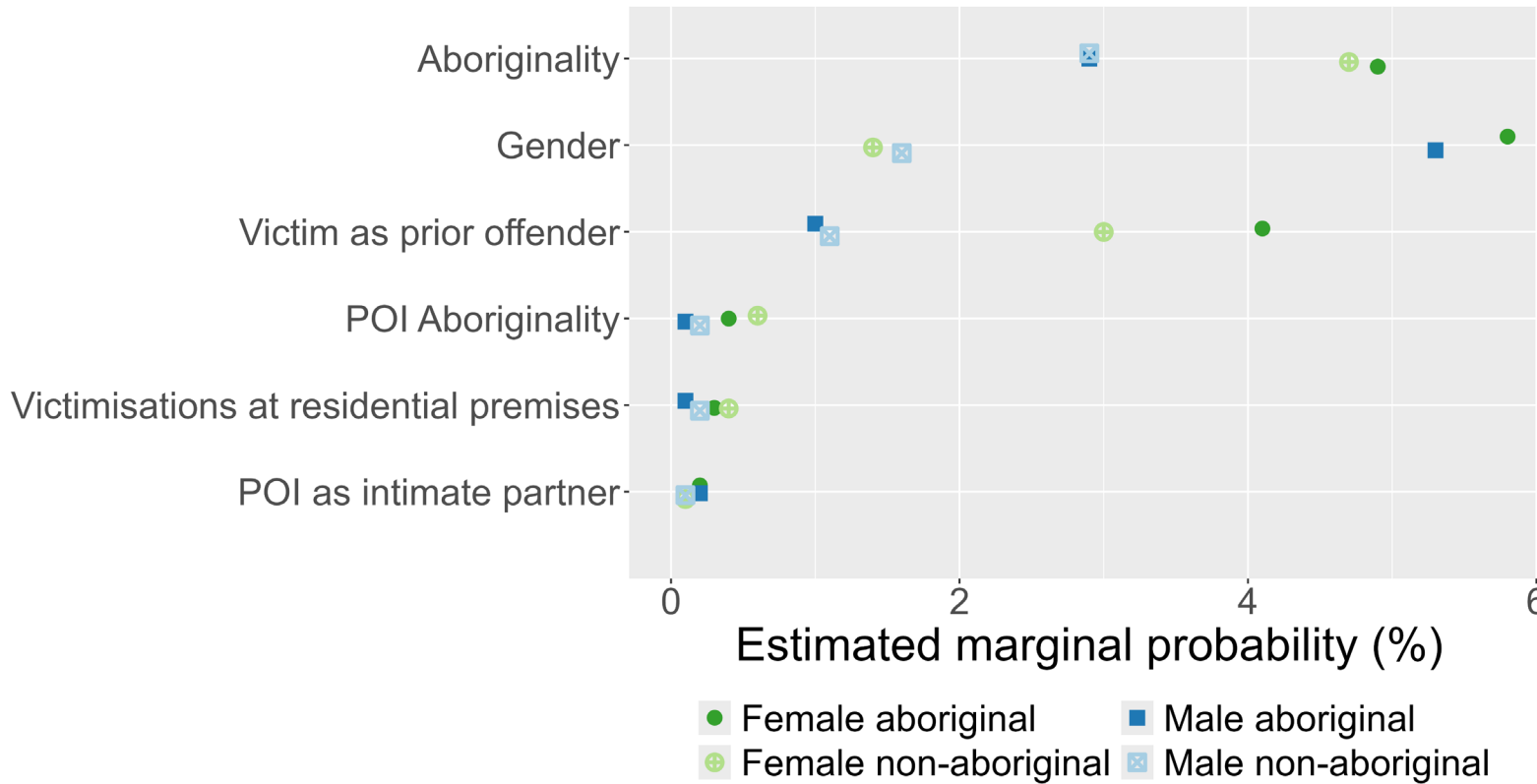
The marginal effects in predicted revictimisation risk by predictor - how recently the individual has been victimised



Predicted risks plateau more quickly for both Aboriginal and non-Aboriginal men

This predictor is more important for predicting female, especially Aboriginal females

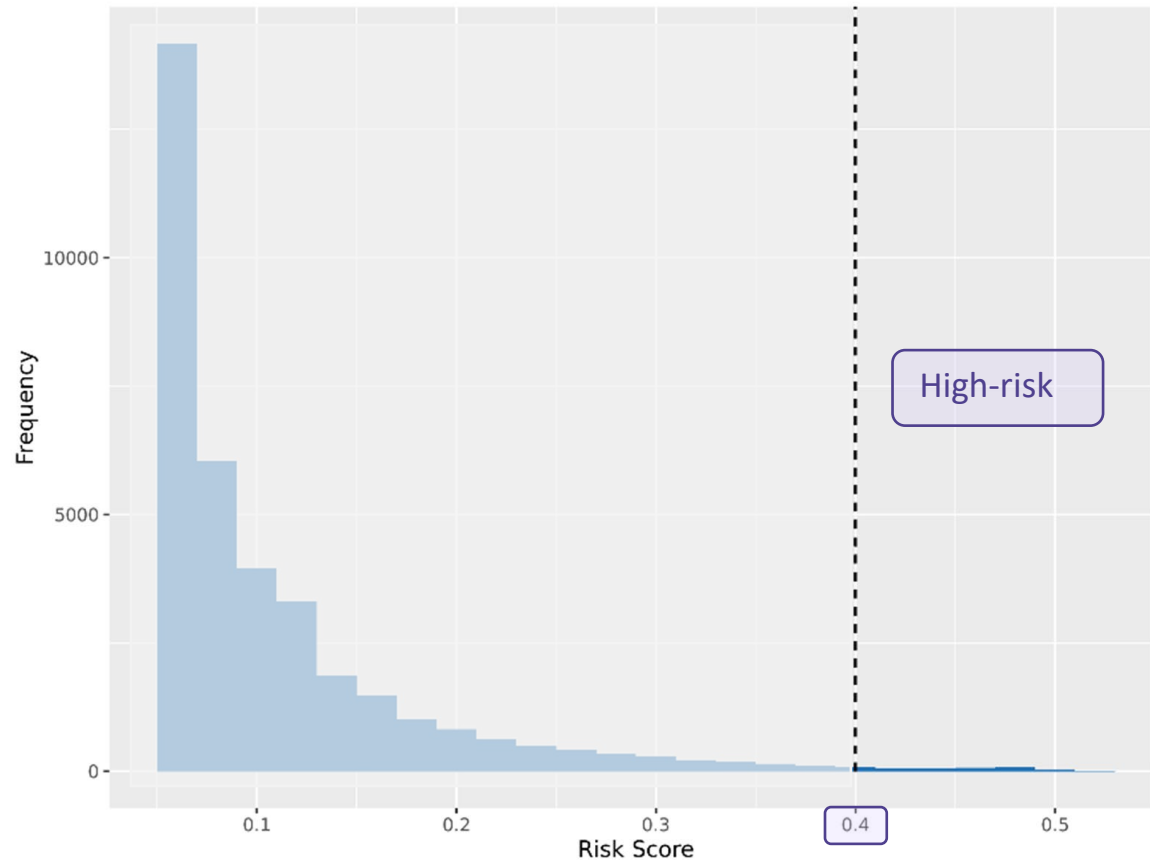
The marginal effects in predicted revictimisation risk by predictor – indicator variables



Marginal effects compared between TRUE/FALSE for all indicator variables

Female and Aboriginal people have stronger marginal effects

Define the 'high-risk' cohort with the predicted revictimisation rate



Top 1% predicted risk score

Roughly 1,800 people state-wide

54% are revictimised in 2019
(compared with 7.8% of those
not high-risk)

Key characteristics of the 'high-risk' cohort



Demographics and MSO details:



100%
Female



73%
Aboriginal people



Little difference in POI
relationship types



Spread evenly across many
locations, little difference in
number of victims in MSO, victims
age etc.

Criminal justice contact and victimisation:



10
Average prior victimisations



88%
Experienced first victimisation
before 30yr; 59% before 18yr

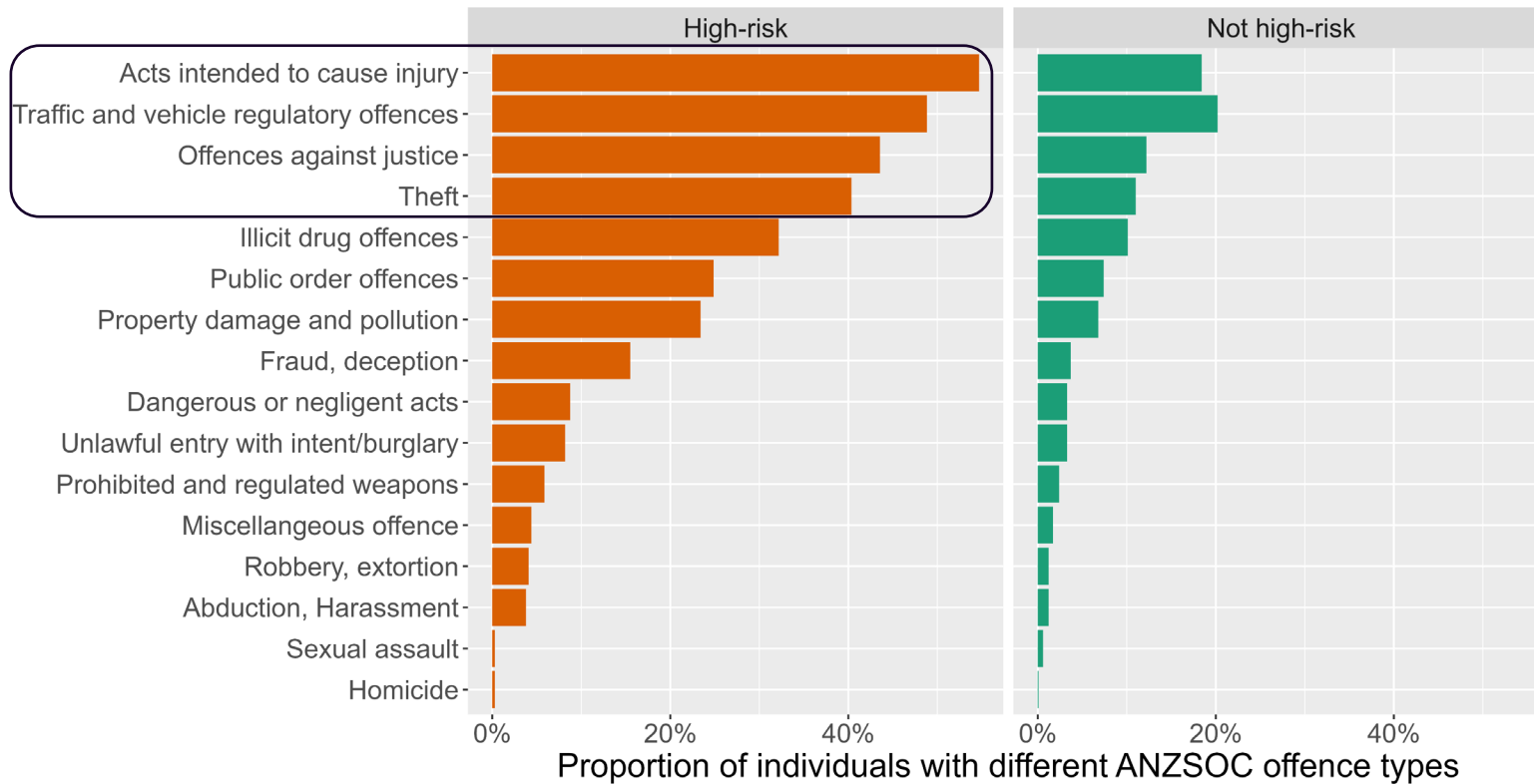


98%
Experienced DV victimisation
within the last 6 months



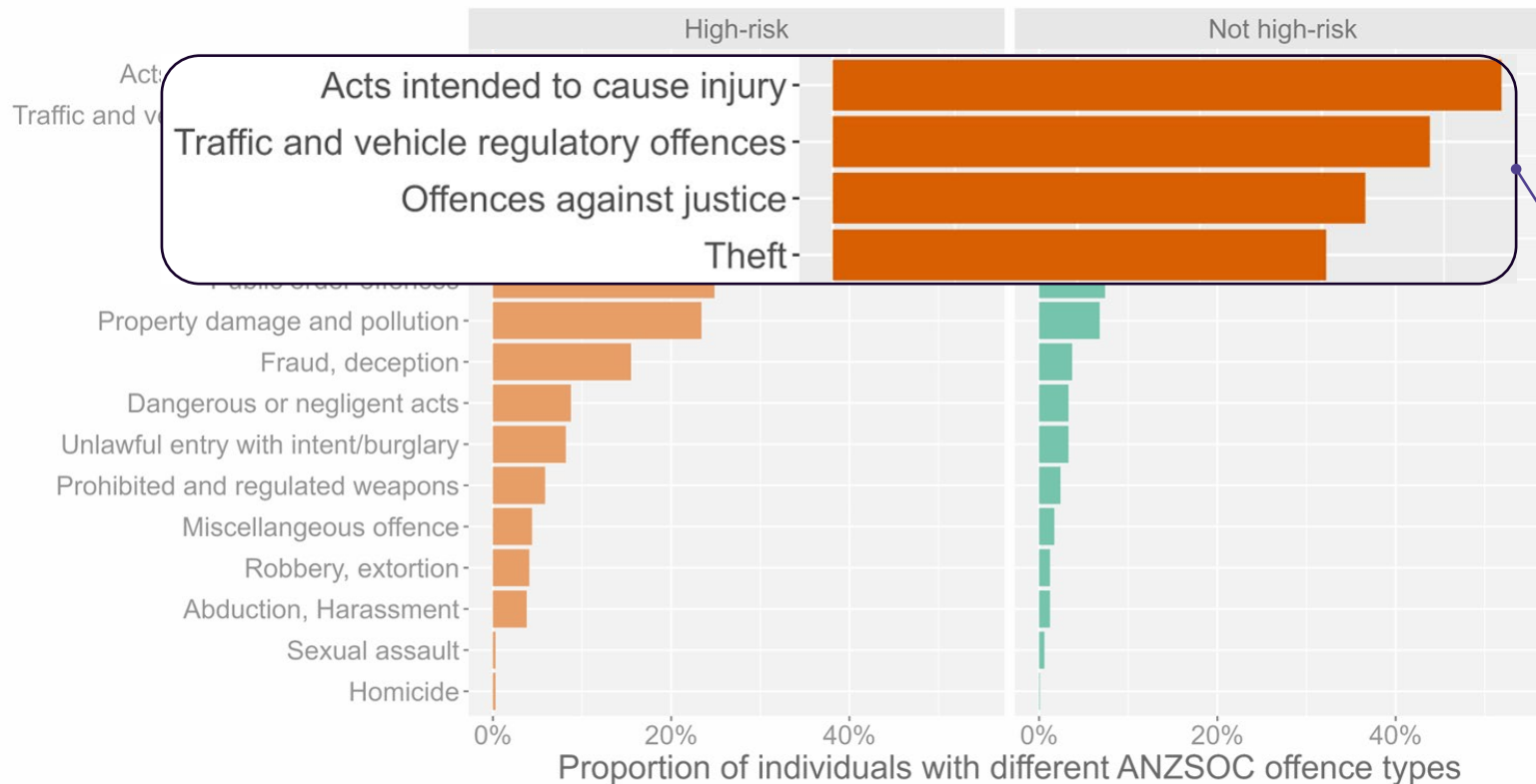
92%
Had previous CJS contact as an
offender; 44% as DV-related

Primary criminal offences for the 'high-risk' cohort as an offender



Comparison in 16 ANZSOC offence divisions

Primary criminal offences for the 'high-risk' cohort as an offender



Comparison in 16 ANZSOC offence divisions

Top 4 offences with over 40% individuals in the high-risk cohort

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Conclusions

Conclusions

01

We use a data-driven approach to predict DV revictimisation and identify high-risk victims



02

Time to victimisation, previous victimisation and offending are all important predictors



03

Could improve the cost effectiveness of existing programs by targeting resources and/or creating a referral pathway



04

Could enable business cases for new, more expensive, interventions for the high-risk cohort



Thank you

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<https://www.bocsar.nsw.gov.au/>

