





A New Quantitative Smoke and Air Quality Forecasting System for Victoria

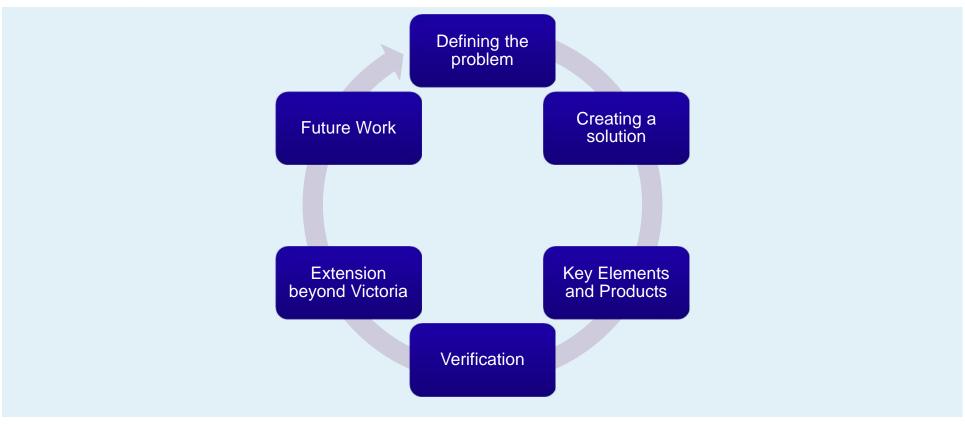
Monica Long, Alan Wain, Martin Cope, Beth Ebert, Maree Carroll, Kevin Parkyn, Natalie Tostovrsnik

Photo by Jenny Howell FFMVic



Outline







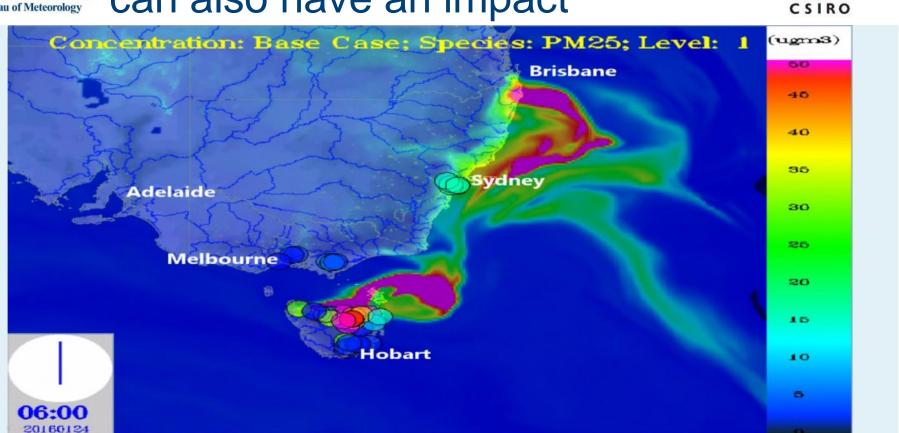
Defining the problem







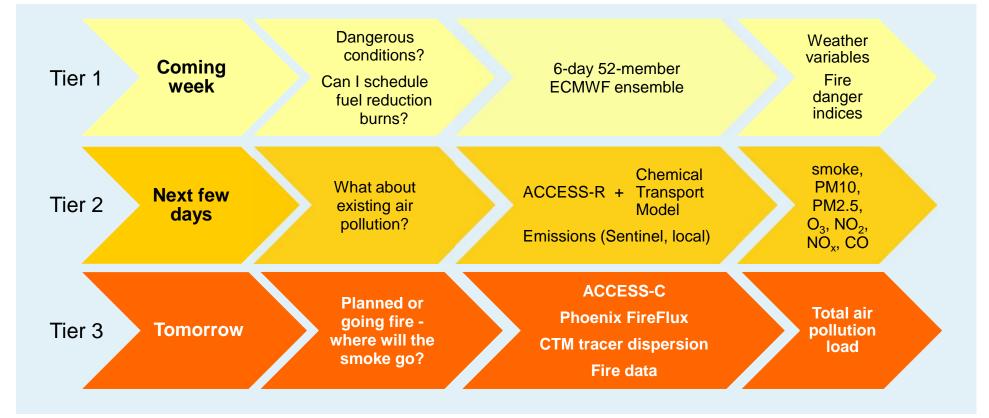
Smoke from outside the jurisdiction can also have an impact





Creating a solution

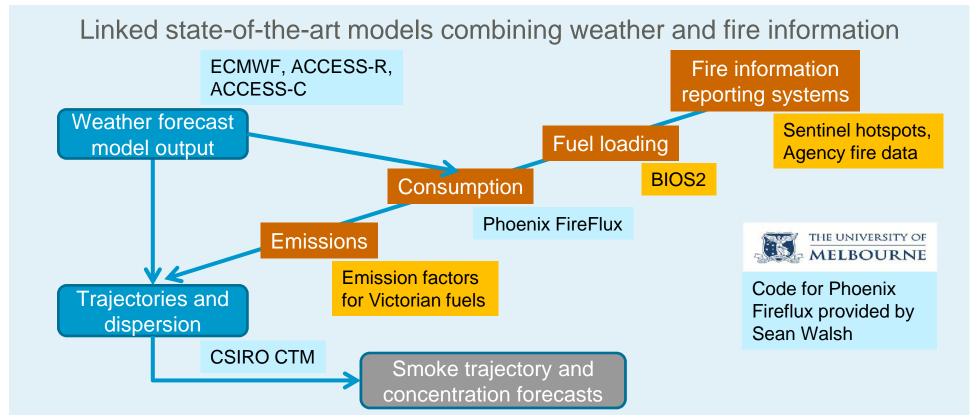






Creating a solution

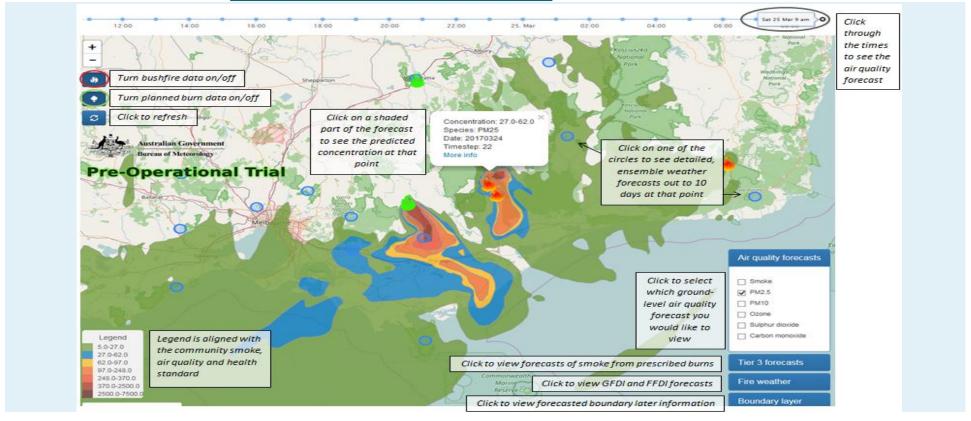






Key Elements & Products Web User Interface

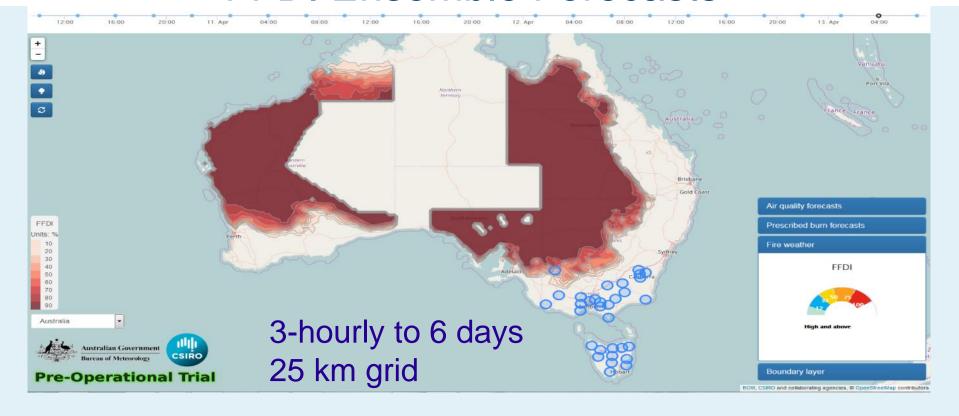






Tier 1: Coming Week FFDI Ensemble Forecasts

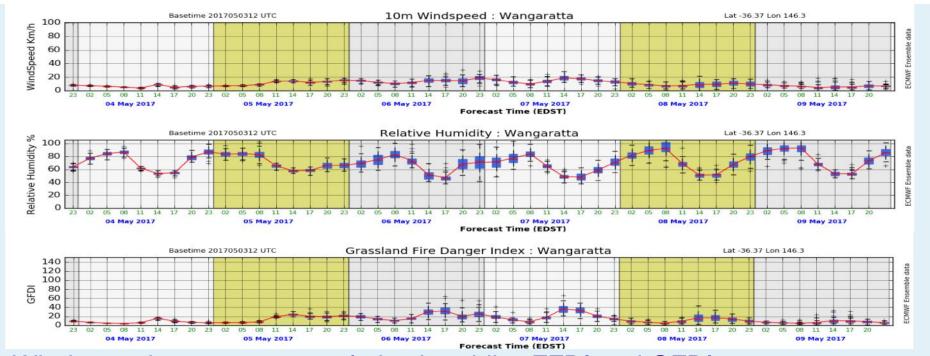






Tier 1: Coming Week Point Location Forecasts



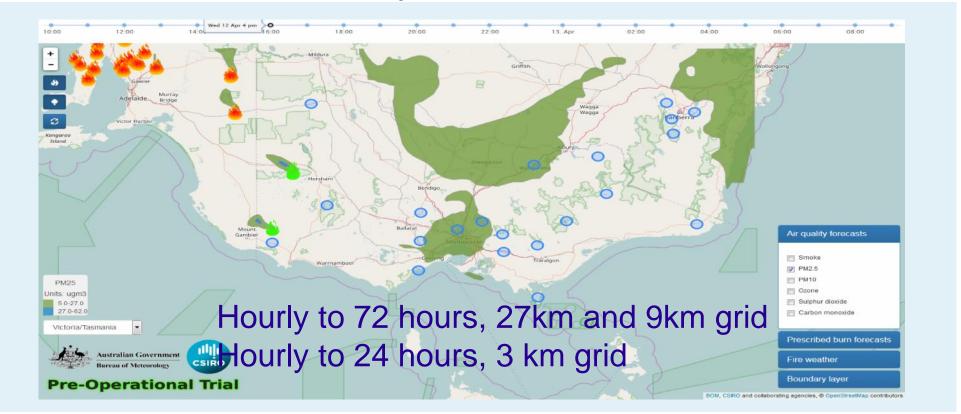


Wind speed, temperature, relative humidity, FFDI and GFDI 3-hourly to 6 days



Tier 2: Next Few Days Air Quality Forecasts

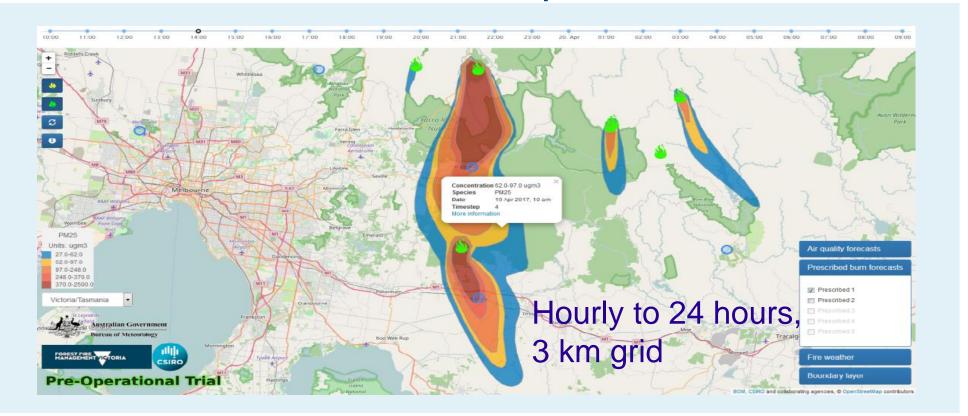


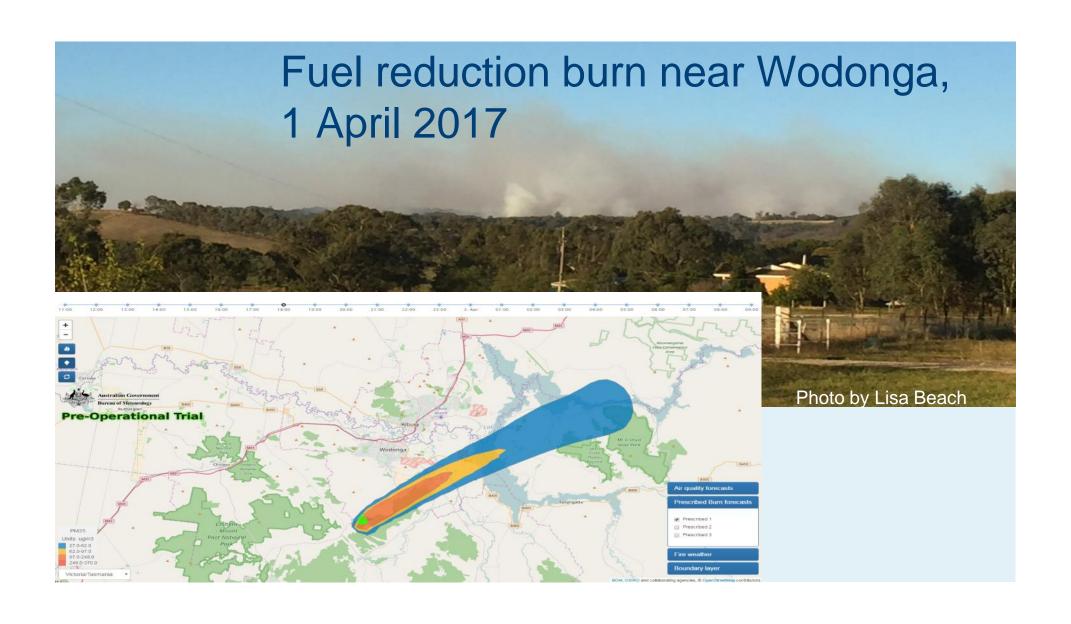




Tier 3:Tomorrow Prescribed Burn pollution load



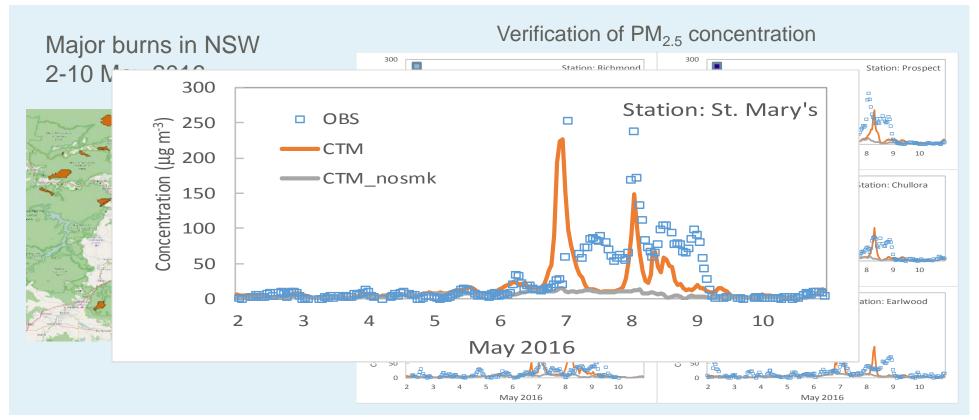






Verification Results







Extension beyond Victoria



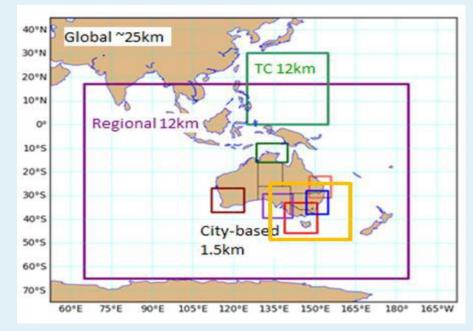




Strong inversion over Sydney is trapping smoke. This is forecast to break mid morning clearing quickly to a fine & warm day. **#NSWRFS**

8:50 AM - Aug 14, 2017 - Sydney, New South Wales

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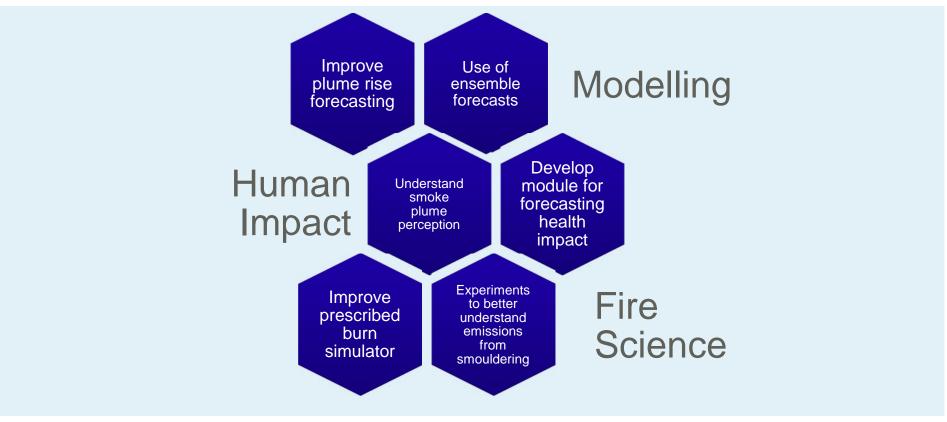


ACCESS Model Domains



Future Work









Thank you.

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