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The Establishment of the National Bushfire Data Commons Dashboard

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The Australian Research Data Commons (ARDC) funded Bushfire Data Commons (BDC) established a range of projects focused on an ever increasing problem to Australia: bushfires. These projects are highlighted in <https://ardc.edu.au/program/bushfire-data-challenges/>. One of the ARDC funded projects focused on establishment of a front end dashboard to showcase the data sets and tools arising from the various BDC projects. This talk will provide an overview of the Cloud-based dashboard that was established and the technologies used. We explore the various data sets stemming from the different ARDC funded projects as well as other data sets of relevance to the bushfire research community. This included: national air quality data; under-insured houses; population statistics and the distribution of the indigenous population; hospital admissions data related to pulmonary disorders; distributions of rare and threatened species; the historic fires of Australia including bushfires and prescribed burns; fuel load data, and satellite and raster data including data from the Sentinel-2 satellite.

The BDC platform also offered an API providing programmatic access to the data, e.g. through Jupyter notebooks. The talk will showcase a range of examples of analytics around the data, e.g. the number and size of prescribed burns vs bushfires.

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