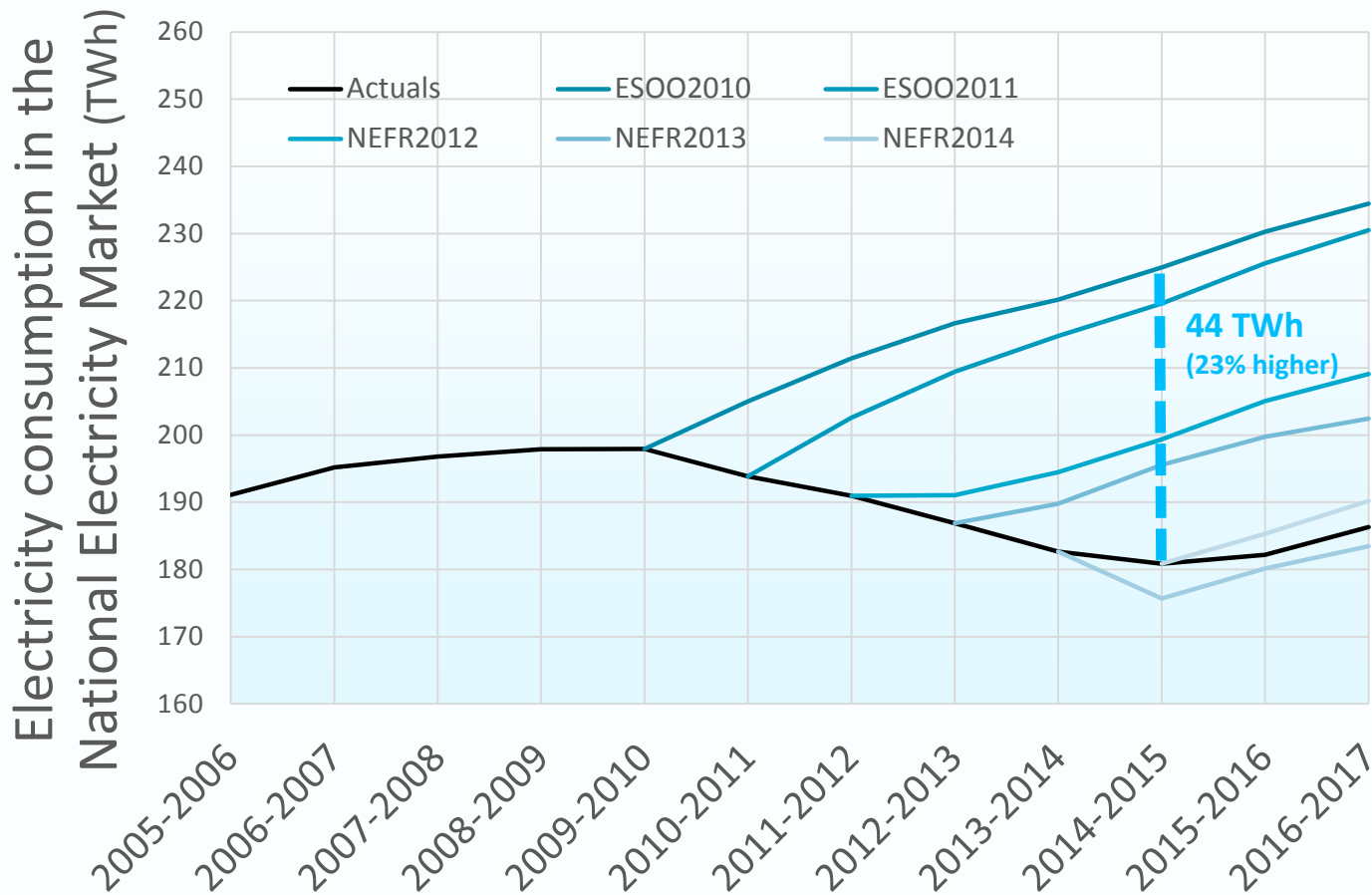


The NEAR Program

Stephen White (retelling some of the great work of Adam Berry and the NEAR team)

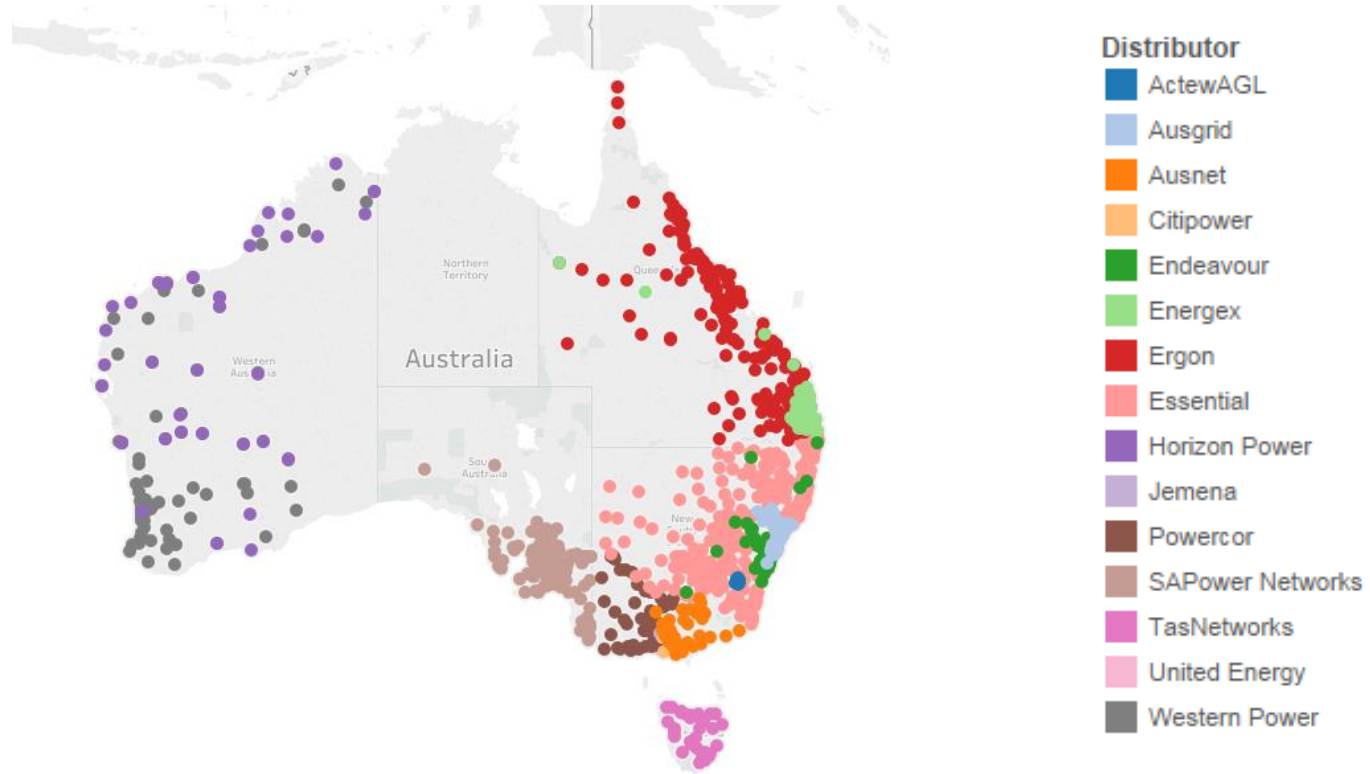
March 2019

Planners need to know the drivers of consumption

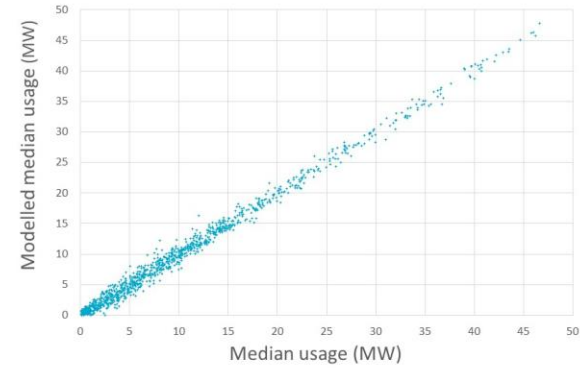
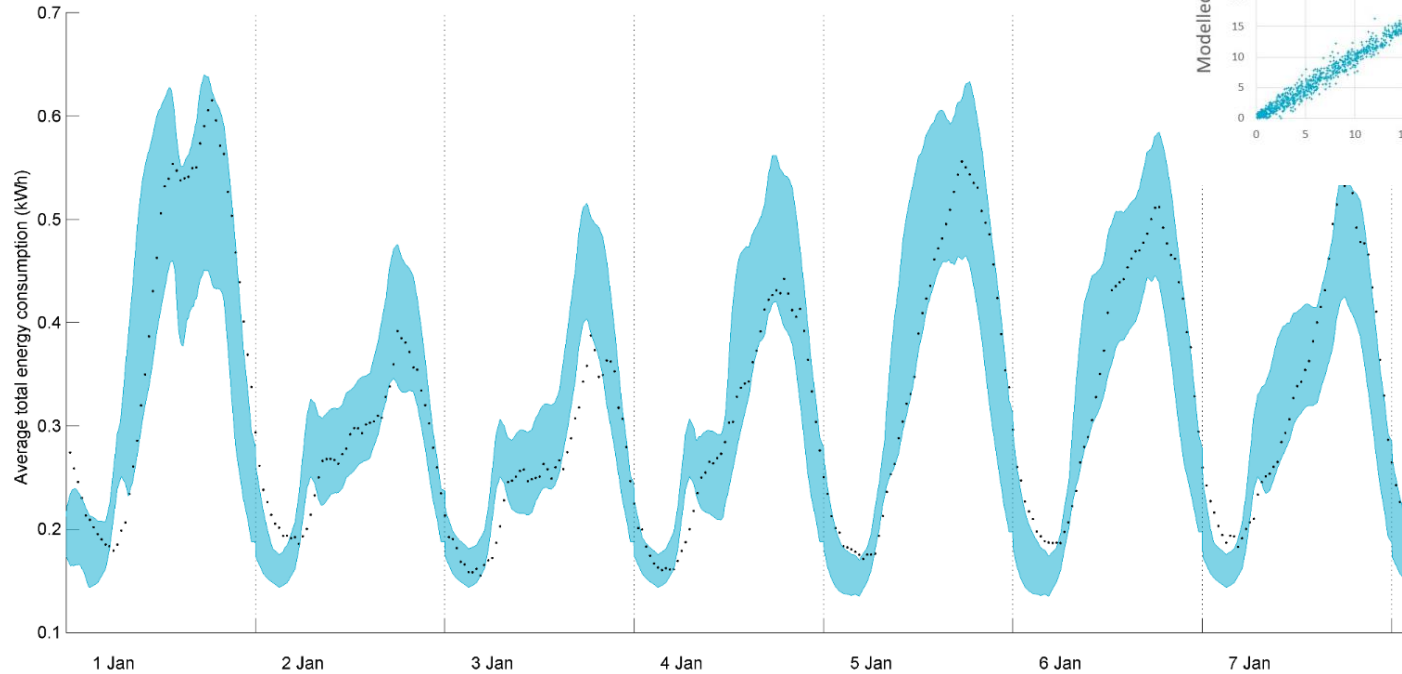


1. Top down substation data

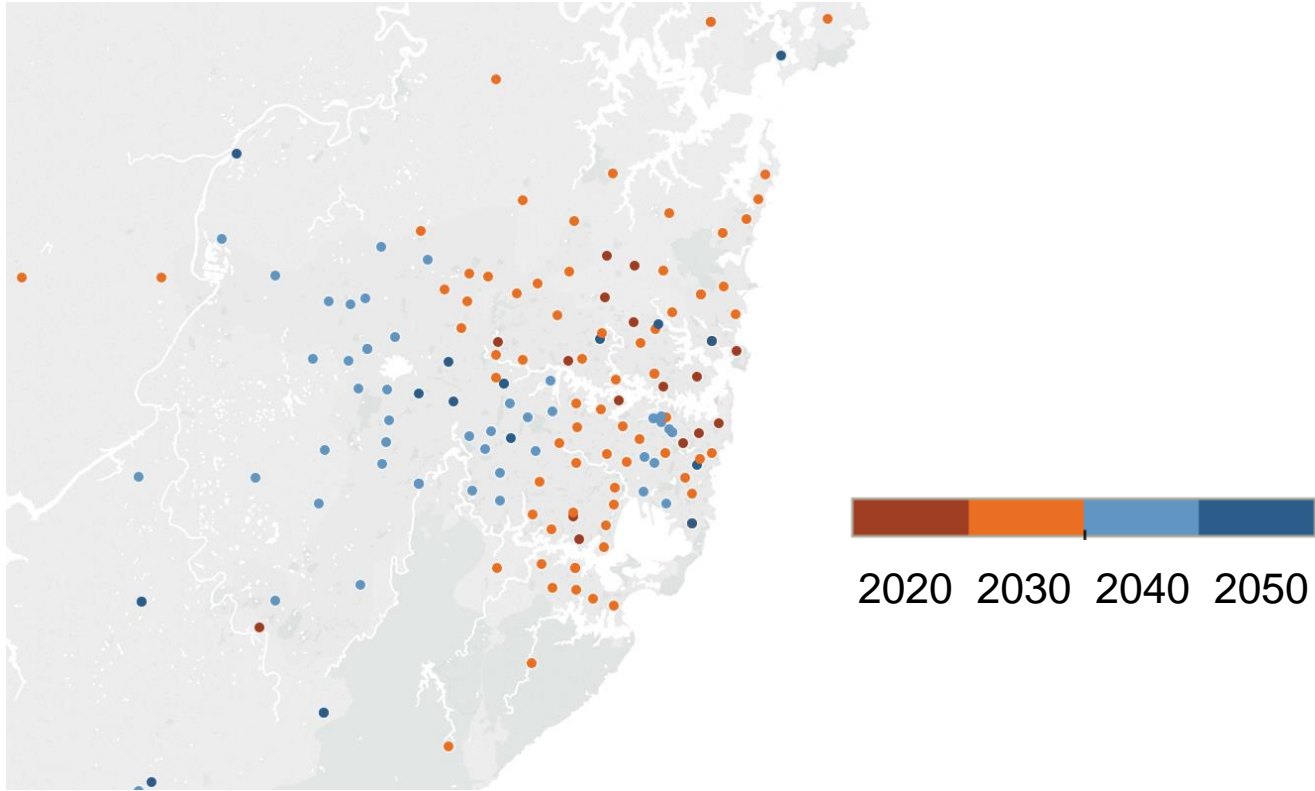
(easy to share, a layer of extra meaning)



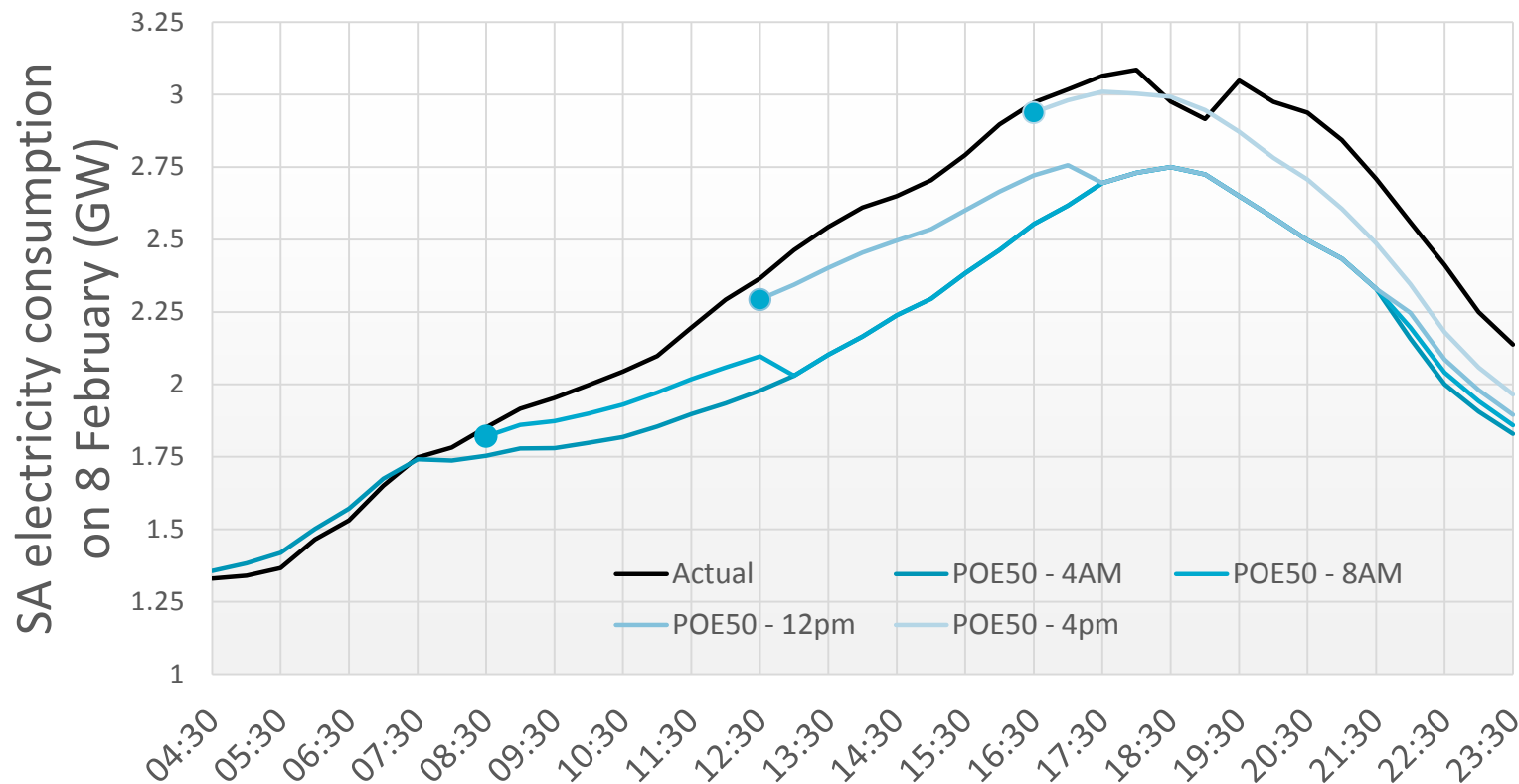
Data mining to extract the impacts of airconditioning and solar PV



Network reverse flow forecasting

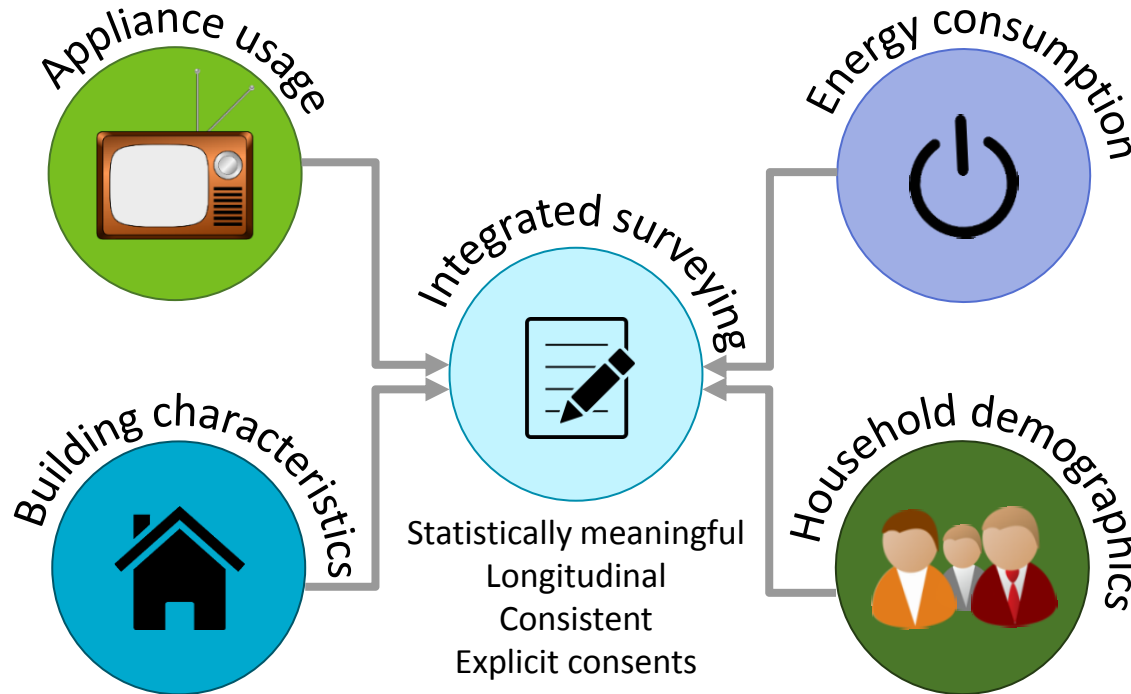


Wholesale energy operational forecasting



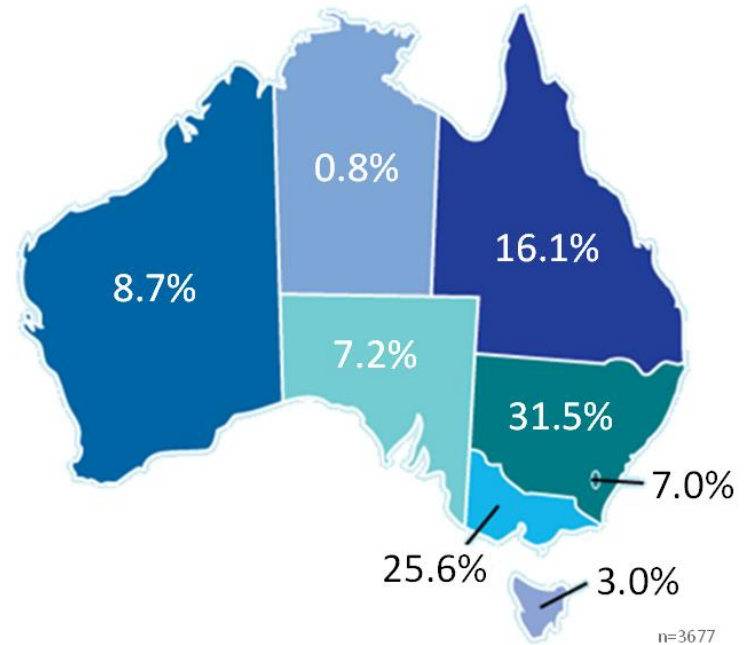
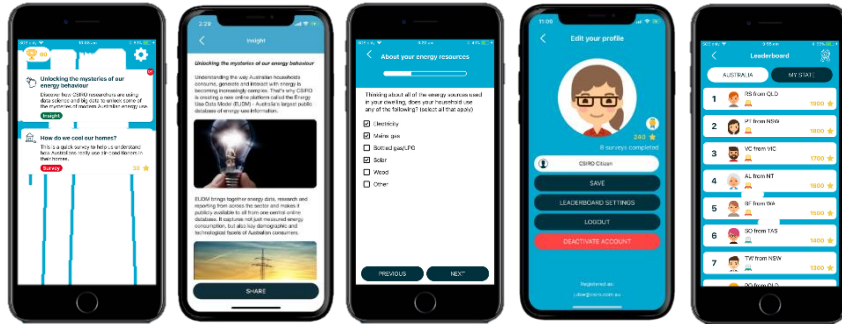
2. Bottom up surveying

(hard to get, but
we can extract lots
more meaning)

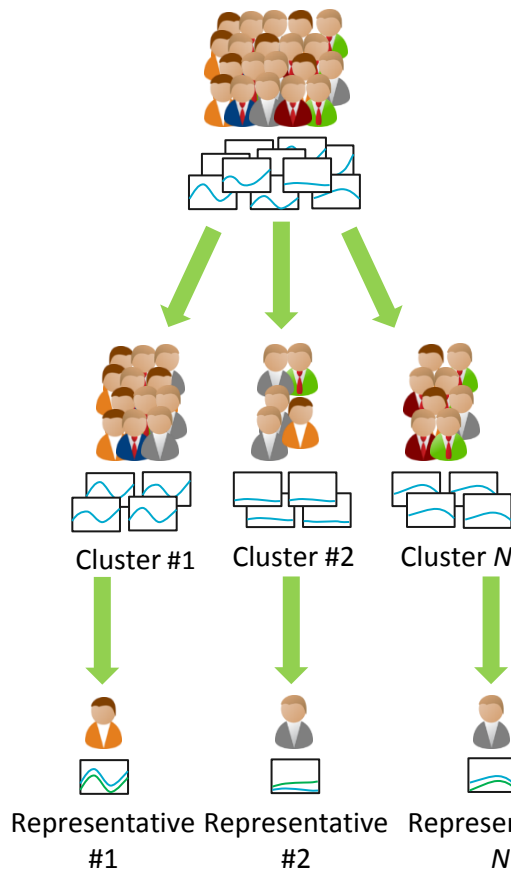
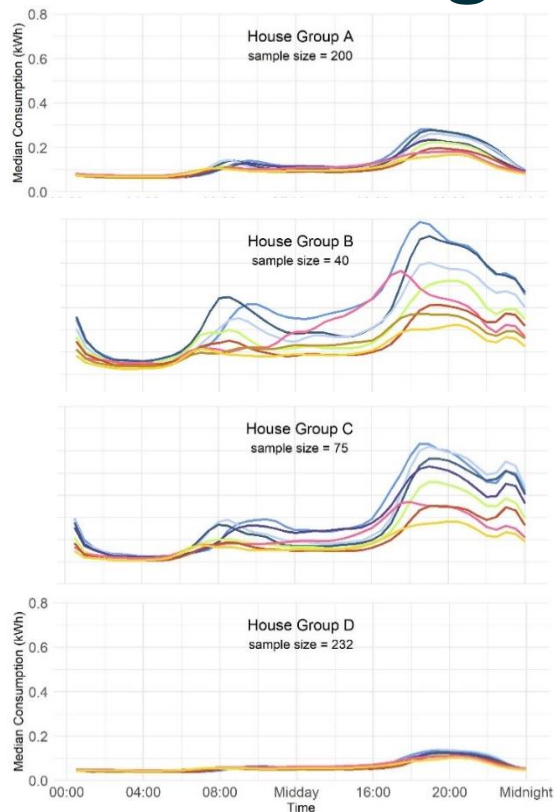


Push polling (Energise App)

~4300 registered users



Clustering



Thousands (potentially millions)
of different customers with
load data

Just a **few** groups of distinct
load behaviours

A **single** representation
of behaviours across the year
for each group

Correlating demand



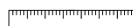
Residence
type



Number of
bedrooms



Pool



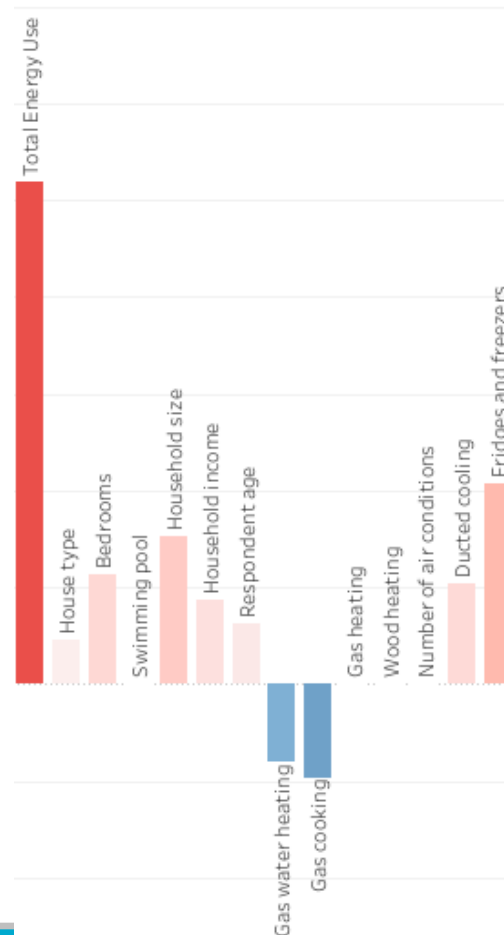
Floor area
of buildings



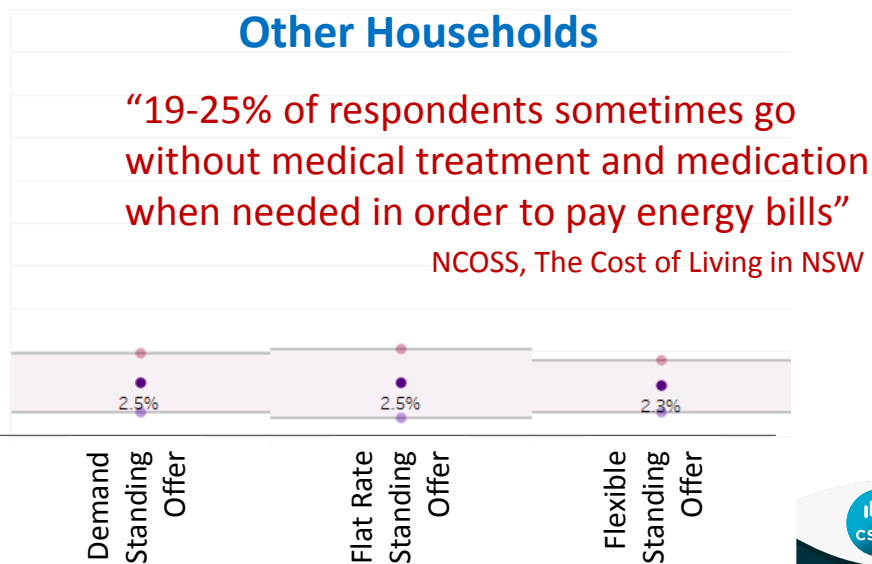
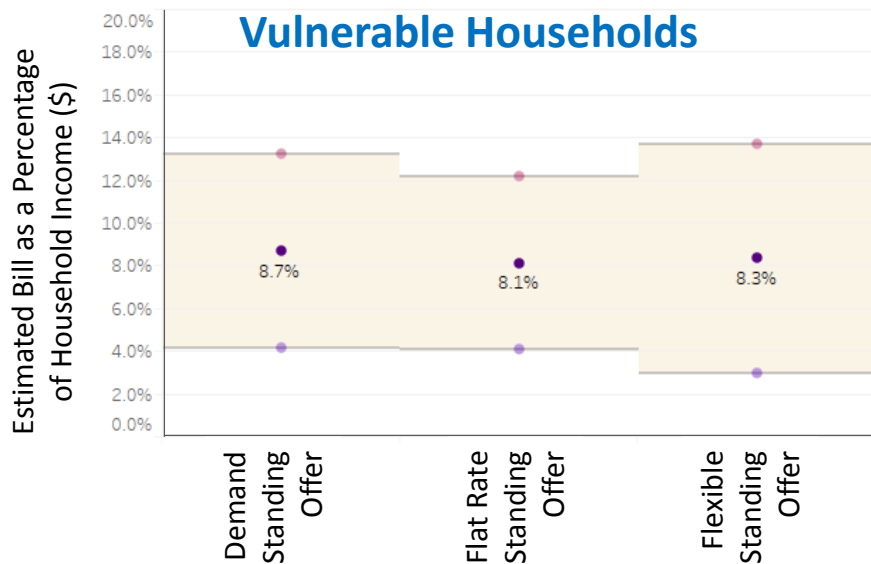
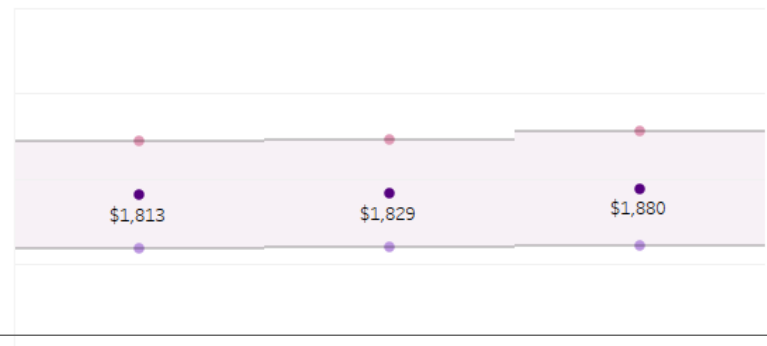
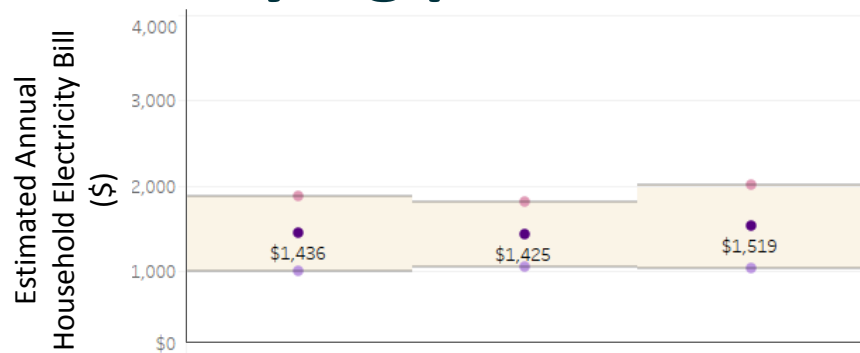
Income



Building age



Identifying poor consumer outcomes



Data Nirvana?

Why share data?

- Enable competition
- Support innovation & customisation
- Derive aggregated system benefits

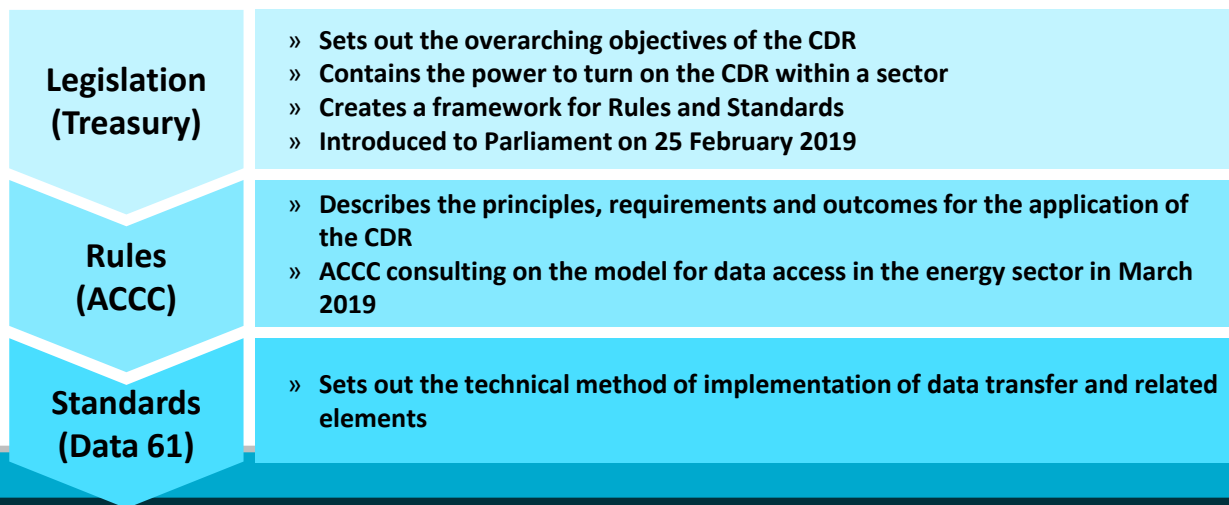
Barriers

- Held in different locations/ formats
- No incentive
- Lack of curation investment and skills
- Consent



Consumer Data Right (CDR)

- Ready access to data depends on complex coordination, legal protections and supporting systems – current Australian market arrangements are inadequate
- On 26 November 2017, the Australian Government announced the introduction of a regulated “consumer data right”. The CDR will commence in the banking sector, followed by the energy and telecommunication sectors
 - CDR for the energy sector due to begin for key datasets in first half of 2020



Thank you

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