# NOVA IMS Information

Management

**School** 

Master in Advanced Analytics 2020/21

**Business Cases Data Science** 

Mind Over Data - Retail Challenge

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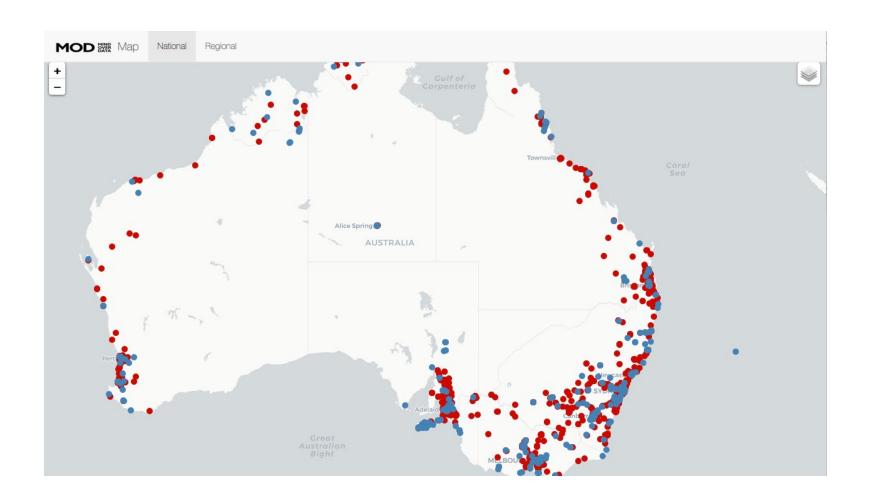


















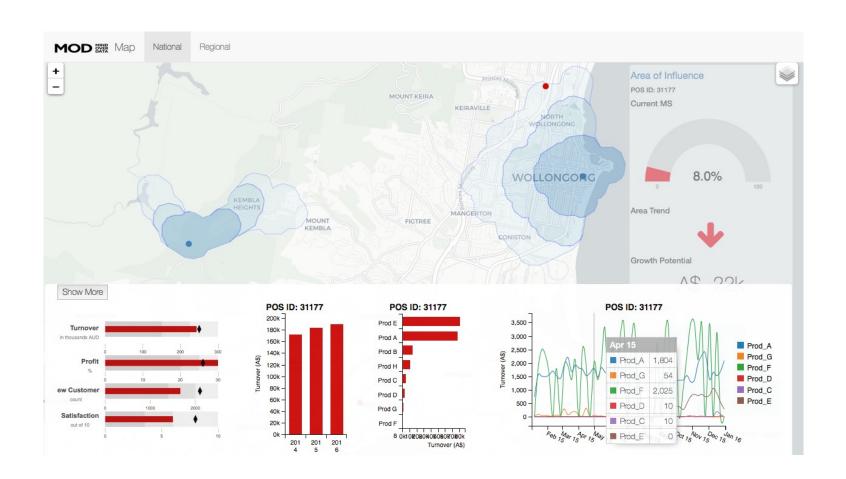




















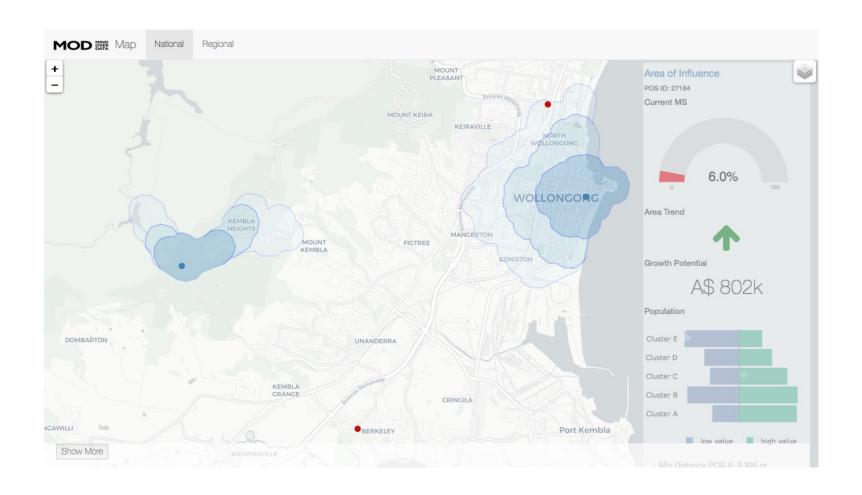




























21 Families of Products



1 535 Brands Products

8 660 SKUs



























178 Categories of Products

1 535 Brands Products

8 660 SKUs

410 Point-of-Sales

1 Jan 2016 -> 1 Nov 2019

27 Gb of data

























## Challenges

- 1. Data Analysis and Transformation and some **Data/Feature Engineering**
- 2. How can I understand each Point-of-Sale characteristics?

  Quarterly analysis of

Top products sold

Market Share (Family, Category), preferences

Product co-ocorrences

- 3. Point-of-Sales Clustering

  Value

  Product preference
- 4. Units Product forecast (6 weeks ahead)
  Units Product forecast by Poit-of-Sale (6 weeks ahead)
- 5. Be challenged to surprise us















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