

# Health Information Visualisation Engine: identifying hospital cost outliers

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**POSTER SESSION**

**HRT11420 -INNOVATION AWARDS**

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# Key problem

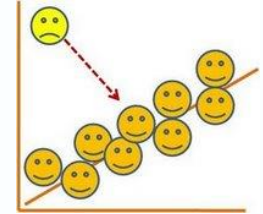
- Rationale for activity based funding is to increase cost efficiency and incentives to provide efficient and quality care.
  - Shift in funding has created a number of issues.
  - The one with significant impact on the costs of care is focused on “outliers”
- An outlier in this context is a care episode for a patient which is outside the “normal” range expected.
- Current approaches to identifying outliers is on a case by case basis

# Aim of innovation

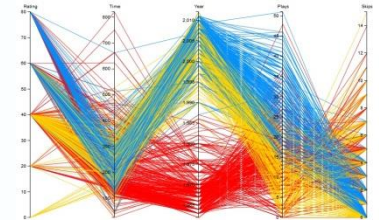
- Develop a web-based visualisation tool to integrate, analyse, synthesise and present critical and essential health and hospital information in a highly accessible, agile and visual form
- The main use of the tool is to prospectively identify “outlier” patients with a view to modify clinical pathways and eliminate potential cost outliers.
- An additional aim is to identify “inliers”. Those patients that cost well below expected. “What went right?”

# HIVE: Health Information Visualisation Engine

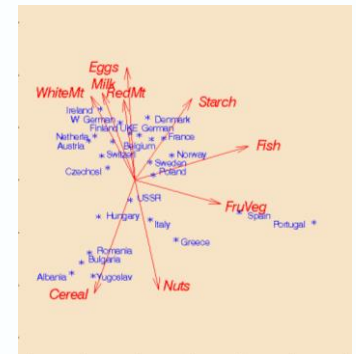
- Customised tool specifically designed for detecting outliers in clinical and financial hospital data.



- Uses “parallel coordinates” as the main visualisation methodology

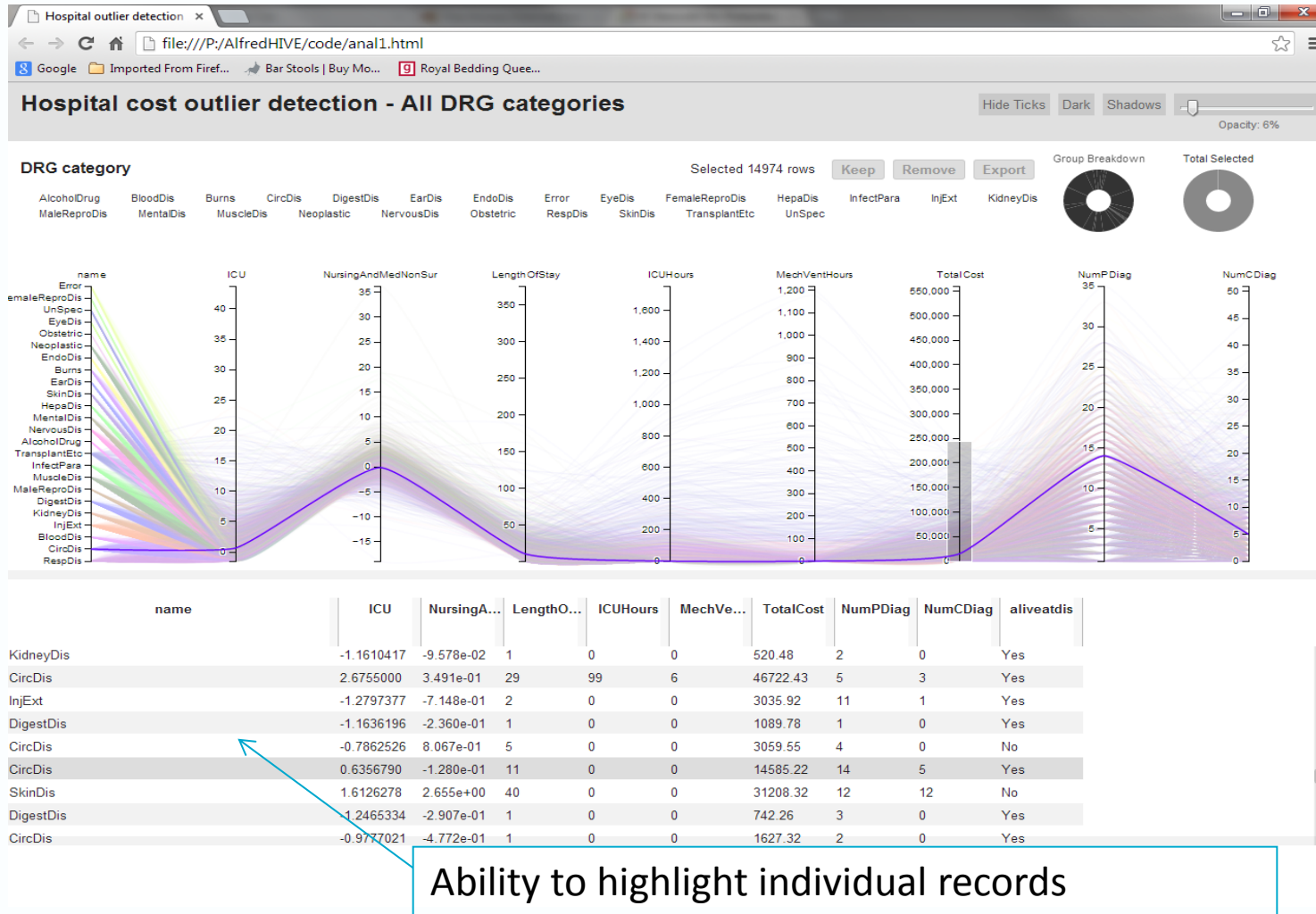


- Leverages off data reduction techniques to “squeeze” more information into a small space



- Web-based, so only need a thin client, iPad etc.

# Sample screenshot of parallel coordinate tool



# Innovation and benefit

This tool will generate immediate value for a hospitals' endeavour in continuous operational improvement and will be of particular interest to potential customers throughout Australia given the move to nationally provided Activity Based Funding for hospital services.