Dashboard Project
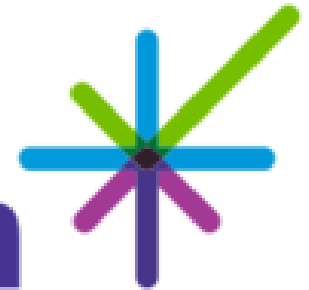
Tom Keeling
Oscar Chapman
Michael Kustra
Marcus Eilertsen

GROUP 2

The Winter Crisis.
To what extent has it impacted the NHS over the years?

NHS winter pressures

Opinion and commentary on the pressures facing England's health and social care services over winter.

The NHS is having its worst winter ever – and the reasons run much deeper than COVID

NHS left in crisis as winter tightens its grip on Britain

Data exploration findings

KPIs:

Waiting times

Deaths

Bed Capacity

Hospital Stay Duration

Hospital Admissions

Teamwork

- **Miro board: brainstorm and share ideas**

- **Trello board: assign tasks and coordinate**

- **Github: share and merge code**

Cooperation

- **Sub-teams of two working on tabs**

- **Regular stand-ups and team meetings**
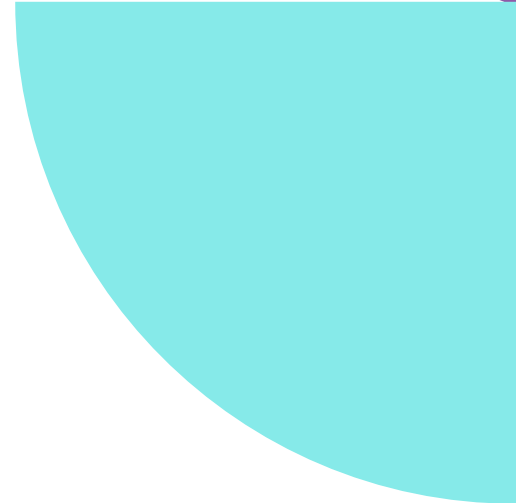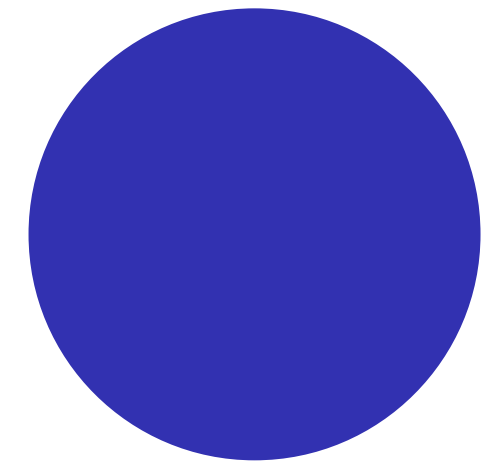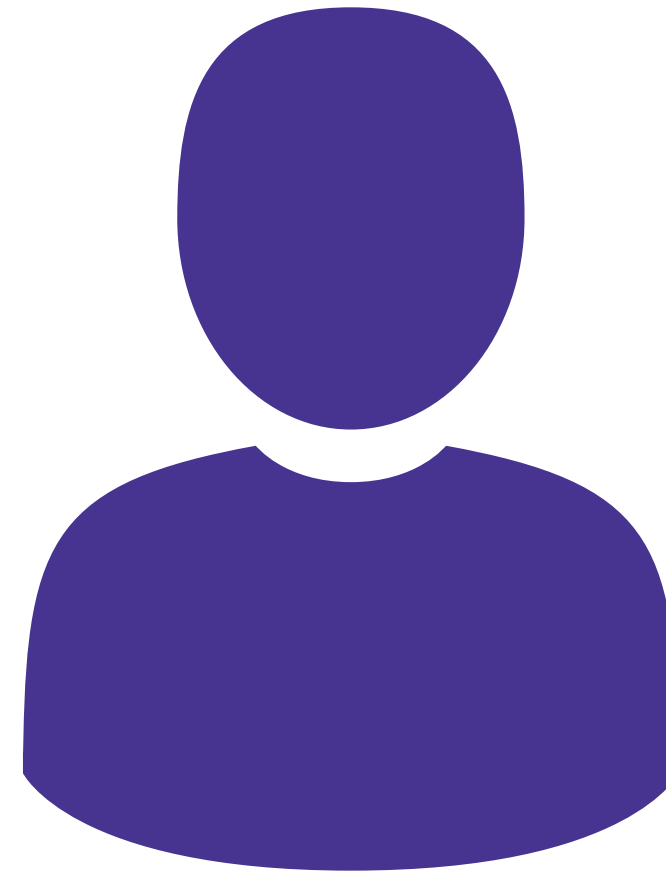
- **Table tennis and pub meetings**

RStudio

- **Tidyverse: data cleaning and wrangling**

- **Ggplot2 and Ggplotly: visualisations**

- Shinydashboard: dashboard structure

Data Ethics

- Considerations
  - Source
  - Usage
  - Contents
- Risks
  - Identification and Personal information
- Mitigating Risks
  - Detaching Key identification factors
    - This is PHS's Responsibility.

Because of steps taken to mitigate risks, the intersectionality and detail of discoveries is lessened.

Dashboard contents: four tabs

Overview

Effects of COVID

Geographic Analysis

Demographic Analysis

Key findings

- **SIMD 3: admissions most affected by winter**

- **5 - 14 age group: admissions most affected by winter**

- **Seasonal mortality patterns persist through COVID**

- **Southern Lowlands experience decreased wait-times but increased mortality density during winter**

Challenges faced

- Time management

- Scope of features

- Github merge conflicts

Thank You!