

Public Health
Scotland



Group 3 – Dashboard Project

Presented By: Group 3

Create a dashboard using R-Shiny and PHS open data on secondary care to investigate what has been happening from 2020 onwards in the acute hospital sector

Key Focus Areas:

1. To what extent is the 'winter crises' the media predicts real?
2. How has winter impacted Scotland's NHS in the past?
3. Potential impact in winter 2022
4. How might the pandemic influence the potential scenario?

Consider: Temporal, Demographic & Geographic Aspects.



Project Brief

Media Predictions

- A&E Waiting Times Increasing
- Delayed Discharges
- Overwhelming Bed Demand
- Increased Admissions
- Covid Influence

NHS winter pressures: Going home from hospital

Winter crisis in NHS 'deepening' as new figures show continued decline

Scotland's NHS is "slipping out of control", after alarming official figures showed A&E waiting times are up to record levels and operations are being cancelled at the last minute more than ever before.

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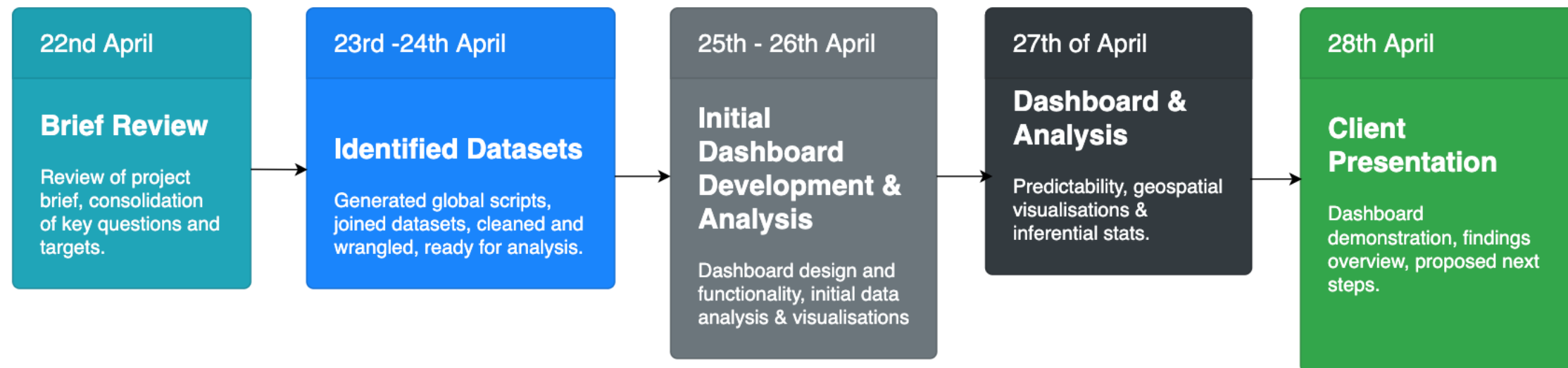
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Covid in Scotland LIVE as NHS under severe pressure and 'not financially sustainable'

'It's going to get worse': view from inside the NHS as winter approaches

Amid warnings of 'unprecedented' demand for hospital beds, six health workers describe how pressures are affecting them

Bed cuts 'fuelling' Scotland's NHS crisis



Project Timeline

Following our review of the project brief, we developed a dashboard that focused on NHS Performance Vitals (KPI's):

- % Bed Occupancy
- A&E Waiting Times
- Delayed Discharge
- Admissions



Dashboard Demonstration

Key Findings

Key Findings & Observations:

1. % Bed Occupancy Varies & During Pandemic Occupancy Dropped

2. Delayed Discharge – Most Vulnerable– Admissions Increases

3. Delayed Discharge - Main Reasons related to Health & Social Care

4. A&E - On average hospitals don't always meet 4 hr target.

5. That further data would enhance predictability modelling.

e.g. Staffing Numbers, vaccination.

Conclusions

- What the media predicts has some substance but using data provides a more accurate insight into these winter predictions.
- The pandemic did have an impact on secondary care in the acute hospital sector.
- If the pandemic continues we could see similar trends as shown in past years.



End of Presentation – Questions?