

Combined Intelligence for Public Health Action: CIPHA

Cheshire and Merseyside COVID-19 Response

July 2020

Funding

- CIPHA COVID-19 response has been commissioned by the Cheshire and Mersey Out of Hospital Cell (chaired by Joe Rafferty), and Acute Response Cell (chaired by Ann Marr)
- Funding has been provided by NHSX, who will pay the setup costs and first year of operation. It includes some programme costs but not all local commitments that may have a cost element
- The one year programme will be reviewed during the first nine months

Strategic Purpose

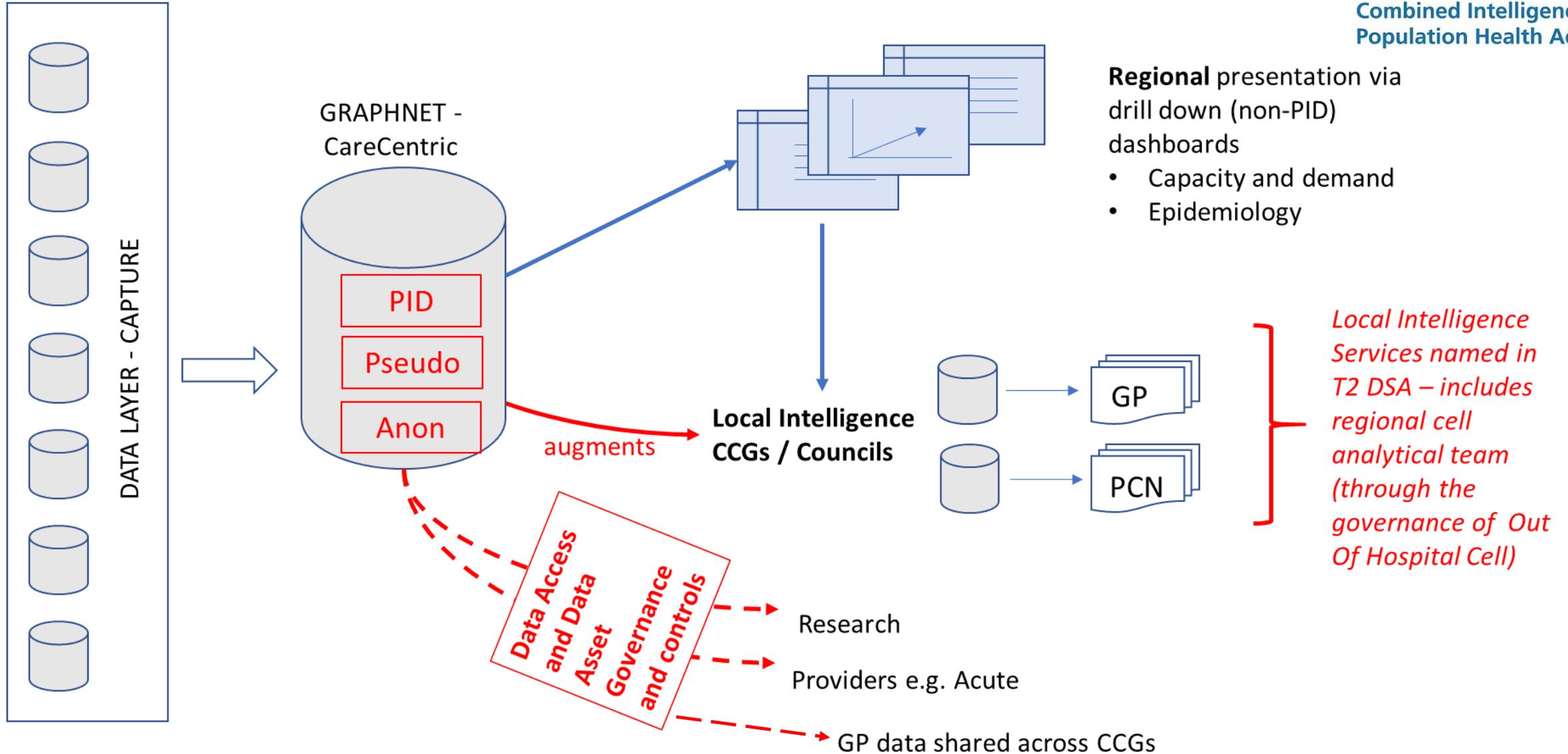
To provide:

- Intelligence to support COVID response
- Shared COVID data facility including Test Track Trace and Contain
- Continued resilience; smart-release from lock-down including identifying hotspots
- Support for long-term recovery – identifying regional capacity and mutual aid linking NHS, Social Care and Care Homes

Integrated data sources

- Acute, Mental Health and Community Trust
- Secondary Use Services national data sets
- GP
- 111, 999
- Out of Hours
- Social Care (Adult and Children)
- Care home capacity
- Labs (Testing and other pathology)
- Track and trace
- SITREPs

Target Operating Model To Support COVID Use-Cases



Regional presentation via drill down (non-PID) dashboards

- Capacity and demand
- Epidemiology

Local Intelligence Services named in T2 DSA – includes regional cell analytical team (through the governance of Out Of Hospital Cell)

Research
Providers e.g. Acute

GP data shared across CCGs

Preparatory work done

- Established **governance** – board and programme team with workstream leads
- Detailed 5 week **delivery plan** in place
- **Engagement** – workshops and meetings: Clinical informatics Group; GPs; NWAS; NHS Provider Trusts; LMCs; digital leadership community; Local Authorities ; Public Health; labs and NPEX; IG groups and leads; University of Liverpool.
- Developed **target operating model** – including initial use cases
- Robust **Data Sharing** agreement in place (contributions from stakeholders)

Operational Purpose (initial use cases)

- Epidemiology
- Capacity and Demand
- Population Stratification
- Access to 'raw data' by local COVID intelligence teams

Epidemiology

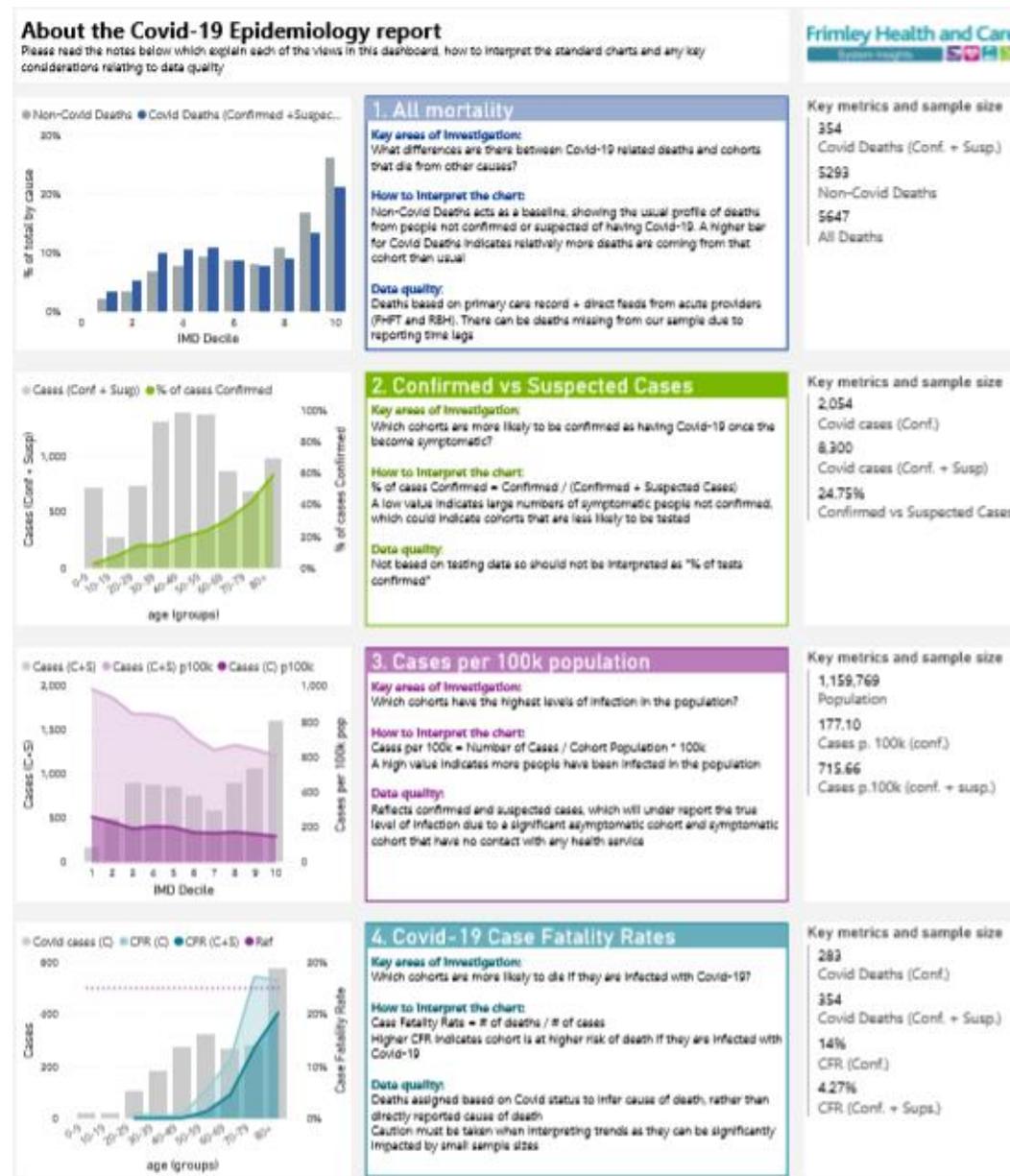
The dashboard will:

- Enable monitoring of mortality and incidence over time at differing levels of geography
- Provide insight in terms of demographic and health characteristics of individuals most affected by COVID
- Enable identification of geographical 'hot spots' of emerging infection

The dashboard is aimed at:

- Public Health Departments
- The Out of Hospital Cell and Acute Response Cells at Cheshire and Mersey Regions
- Those responsible for planning a COVID response within PCNs

Example of Epidemiology Dashboard (Frimley Health and Care)



Capacity and Demand

The dashboard will:

- Monitor the changing demand in as near real time as possible across Acute, Community Mental Health and Local Authority Services including the ability to understand if there is a possible surge or 'second wave' emerging
- Enable understanding of whether there is enough capacity to meet a 'second wave' demand
- Targeted at those user groups that are responsible for planning system capacity including the Cheshire and Merseyside region, sub-region teams e.g. North Mersey, Cheshire Intelligence Service, individual CCGs and Primary Care Networks

Population Stratification

The dashboard will:

Enable GP Practices and/or PCNs responsible for a registered population to identify individuals with certain characteristics that will be vulnerable to adverse outcomes as a result of COVID and target services/interventions appropriately.

Shared intelligence for local teams

Access to the 'raw' data will:

Enable local intelligence teams in CCGs/LAs who are working on COVID response to have access to near real time data and additional flows to understand how populations have behaved and the impacts of COVID on health and wider determinants of health of individuals, which can then inform system planning and health and care response for any future surge and or system recovery

Developments beyond initial use cases

- The operating model allows for a governance path to develop a pipeline of use cases
- A CIPHA Action Insights Group has been formed to identify and prioritise use cases in the first instance and to ensure that users are able to make the intelligence actionable
- Future opportunities include
 - A SIREN type approach
 - Alignment to the Civic Data Cooperative.