

Preliminary COVID Case Load Scenarios

Hunter New England and Central Coast

For planning purpose only

Hunter New England and Central Coast
Population = ~ 1,300,000

Central Coast population ~ 325,000
(approx. 25%)

For planning purpose only

Methodology

Case modelling projections are summarised at a PHN level to focus the required health system response.

Assumptions

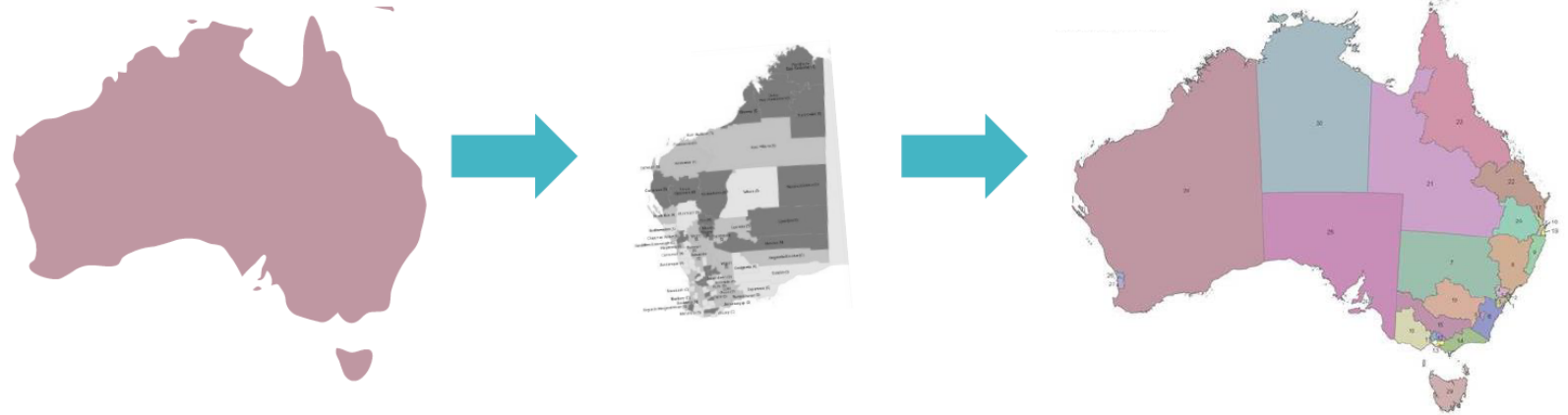
This modelling is for **planning purposes only**.

Modelling is based on the following **assumptions**:

COVID-19 modelling calibrated to the national-level Doherty model...

... estimate daily COVID-19 infections at the postcode level...

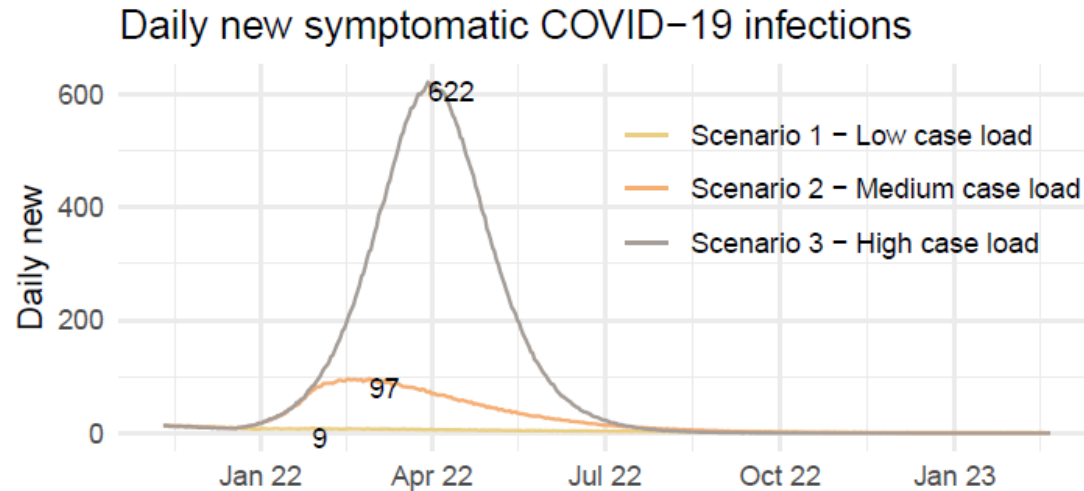
... and aggregated to the PHN region level to reduce noise in the results



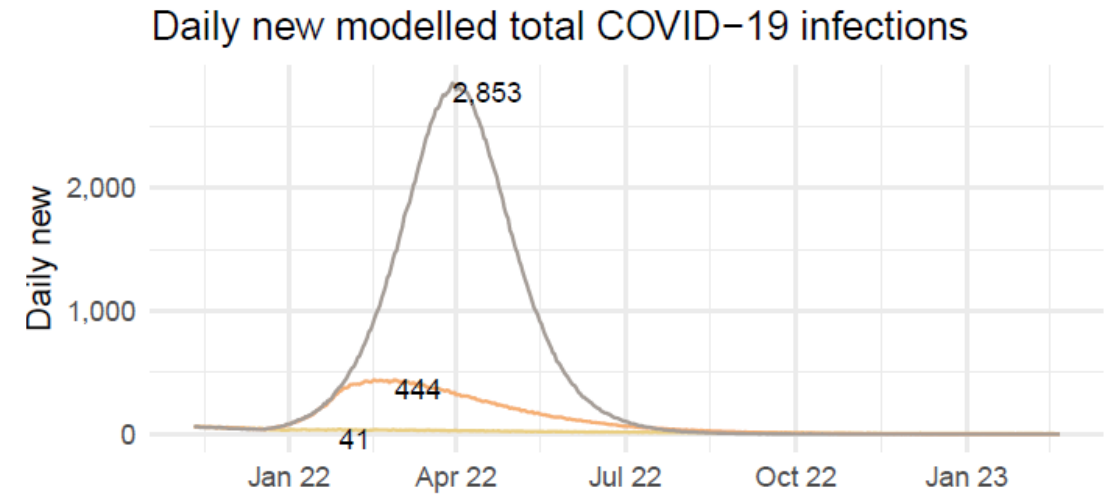
- Opening of all **domestic borders** on 20 December 2021;
- **Automated triage** to flag 20% of patients for high risk referral (ie. elderly, comorbidities), and the remaining 80% are referred to GPs;
- **Vaccination coverage** of 80% for 16+ population; as vaccination coverage increases (i.e. 80%+) lower infections, symptomatic cases and hospitalisations are expected;
- Baseline **Public Health and Social Measures (PHSM)** to be similar to NSW in March 2021 i.e. minimal community cases and minimal restrictions;
- **Low PHSM applied indefinitely at localised level** when jurisdictional hospital capacity is reached;
- **Starting case numbers will decrease as PHSM remain in place** until 20 December 2021;
- **A large number of undetected asymptomatic and symptomatic cases are expected** in a Living with COVID situation; and
- **Cases remain active for 14 days.**

Daily new case charts

PHN108 - Hunter New England and Central Coast



Note: These case numbers are expected to be reported in the community.



Note: Case numbers at this level are not expected to be reported.
 ≈ 70% of asymptomatic cases are not expected to be found or reported.

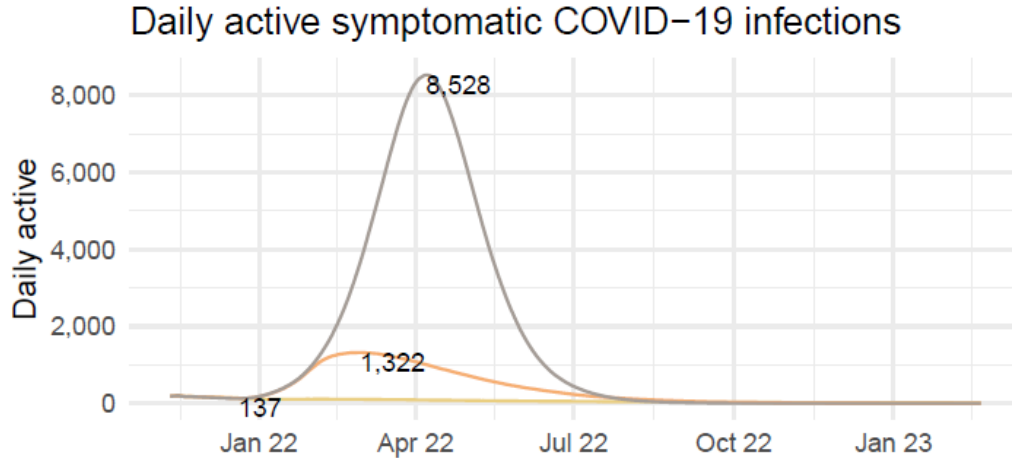
Scenario	Pre 20 Dec ¹ (Domestic borders closed) 	On and post 20 Dec (Domestic borders open) 
1: Low case load	Low ¹ PHSM	Low ² PHSM
2: Medium case load		Baseline ² PHSM, but switches to Low PHSM indefinitely for that jurisdiction when the jurisdiction reaches 'Living with Covid' hospital bed capacity ³
3: High case load		Baseline PHSM

Note: Descriptions of Baseline, Low, Medium and High PHSM come from the [Doherty Modelling report](#)

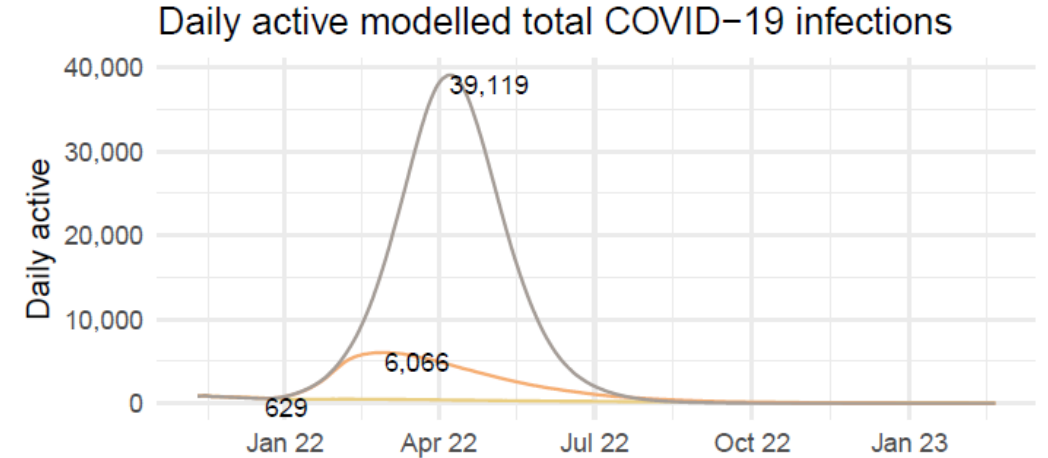
Daily active case charts

PHN108 - Hunter New England and Central Coast

Scenario
1: Low case load
2: Medium case load
3: High case load



Note: These case numbers are expected to be reported in the community.



Note: Case numbers at this level are not expected to be reported.
≈ 70% of asymptomatic cases are not expected to be found or reported

Note:

The peak cases summary table assumes the jurisdiction will implement **low PHSPM indefinitely** in a Living with COVID scenario.

Case numbers at the modelled peak level are not expected to be reported.

≈ 70% of asymptomatic cases are not expected to be found due to asymptomatic + not tested