

Inquiry into the Victorian Government's COVID-19 Contact Tracing System and Testing Regime

Victoria's contact tracing : evolving through experience

November 2020

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Health
and Human
Services

Public Health COVID-19 Command

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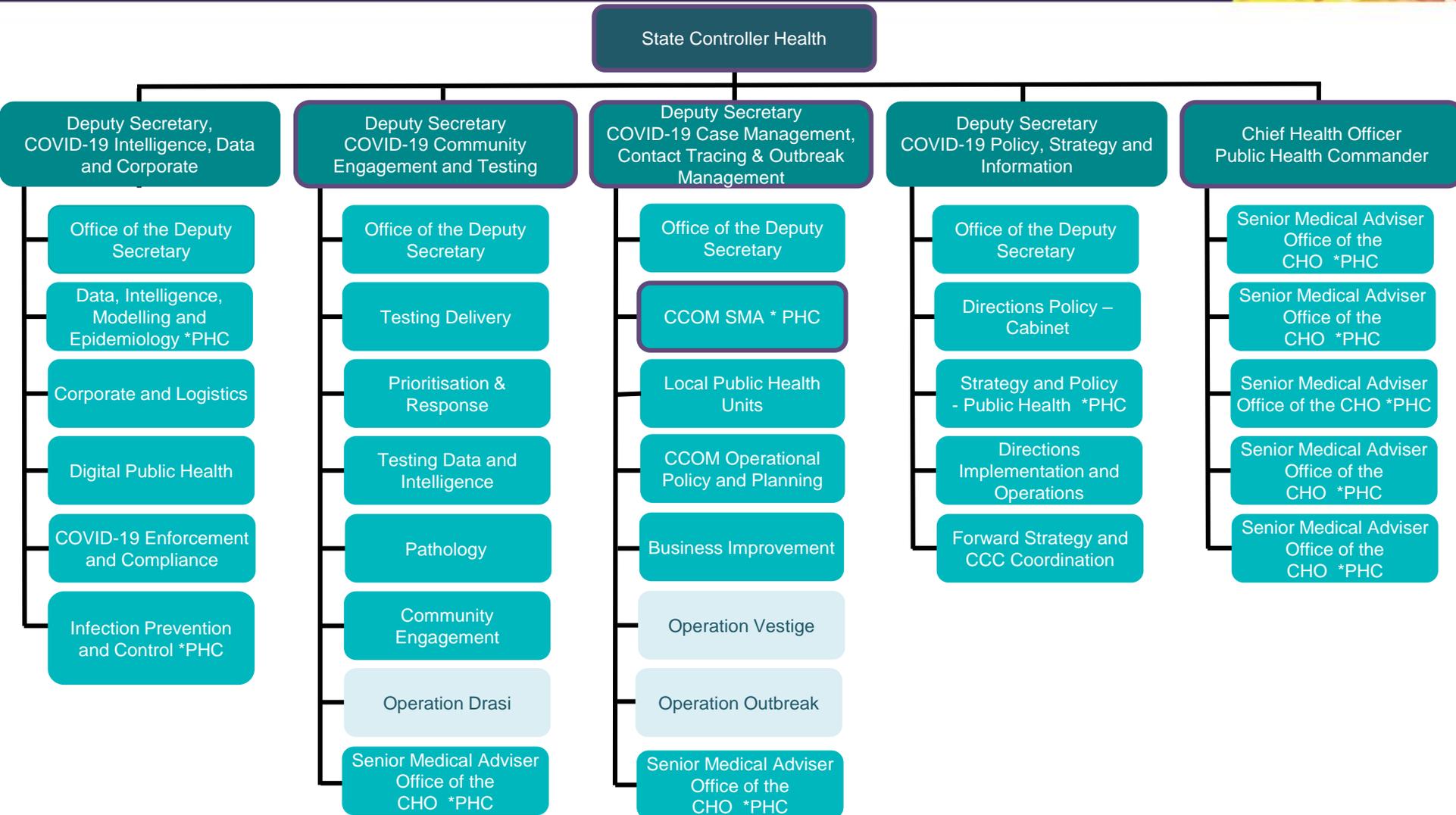
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Public Health COVID-19: command and control



Victoria's key areas of continuous improvement

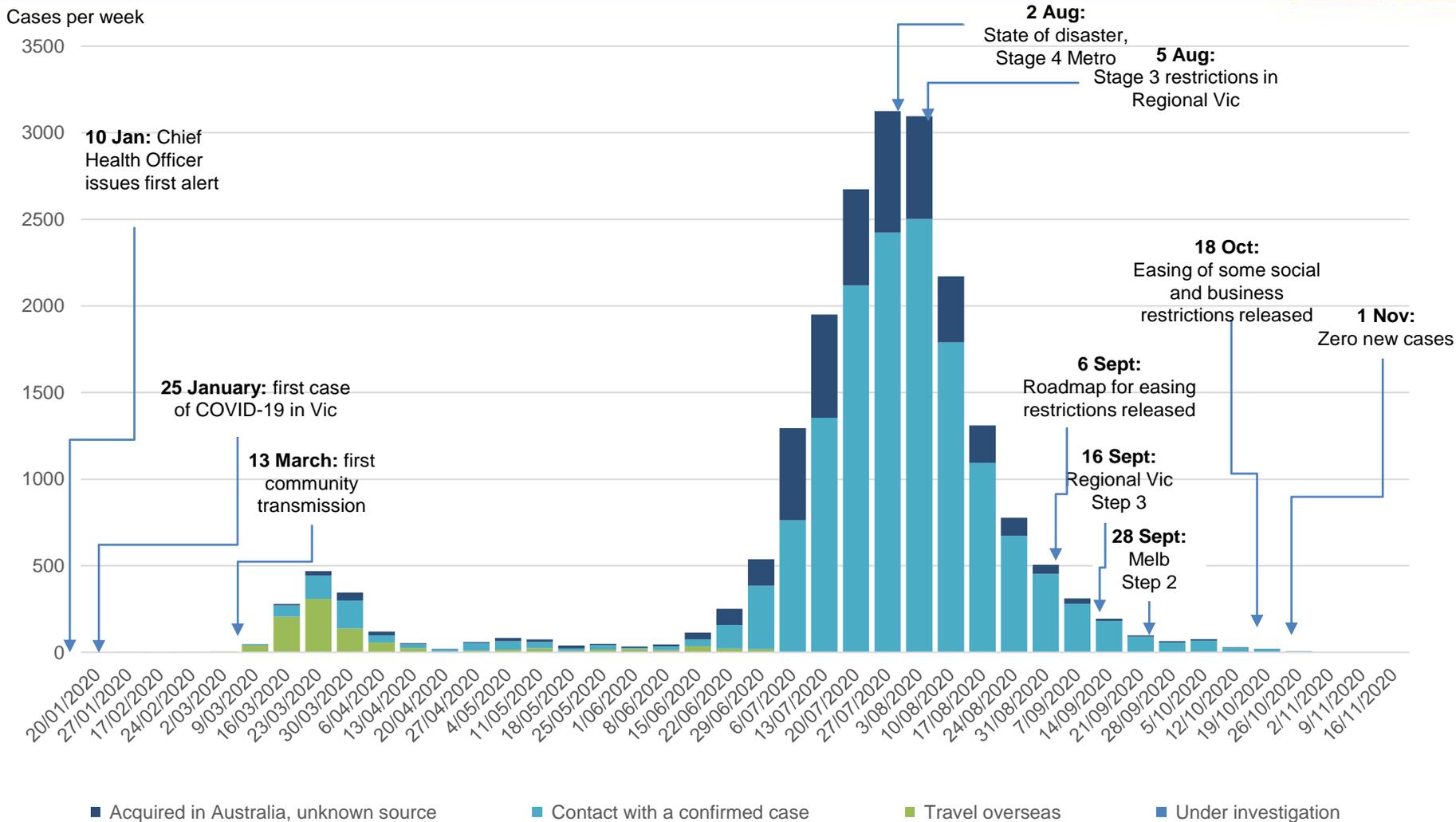
Capacity of Victoria's contact tracing system and testing regime

- I. testing access and turnaround with results
- II. communication of results and isolation/quarantine requirements
- III. case and contact management
- IV. outbreak management
- V. integrating digital systems

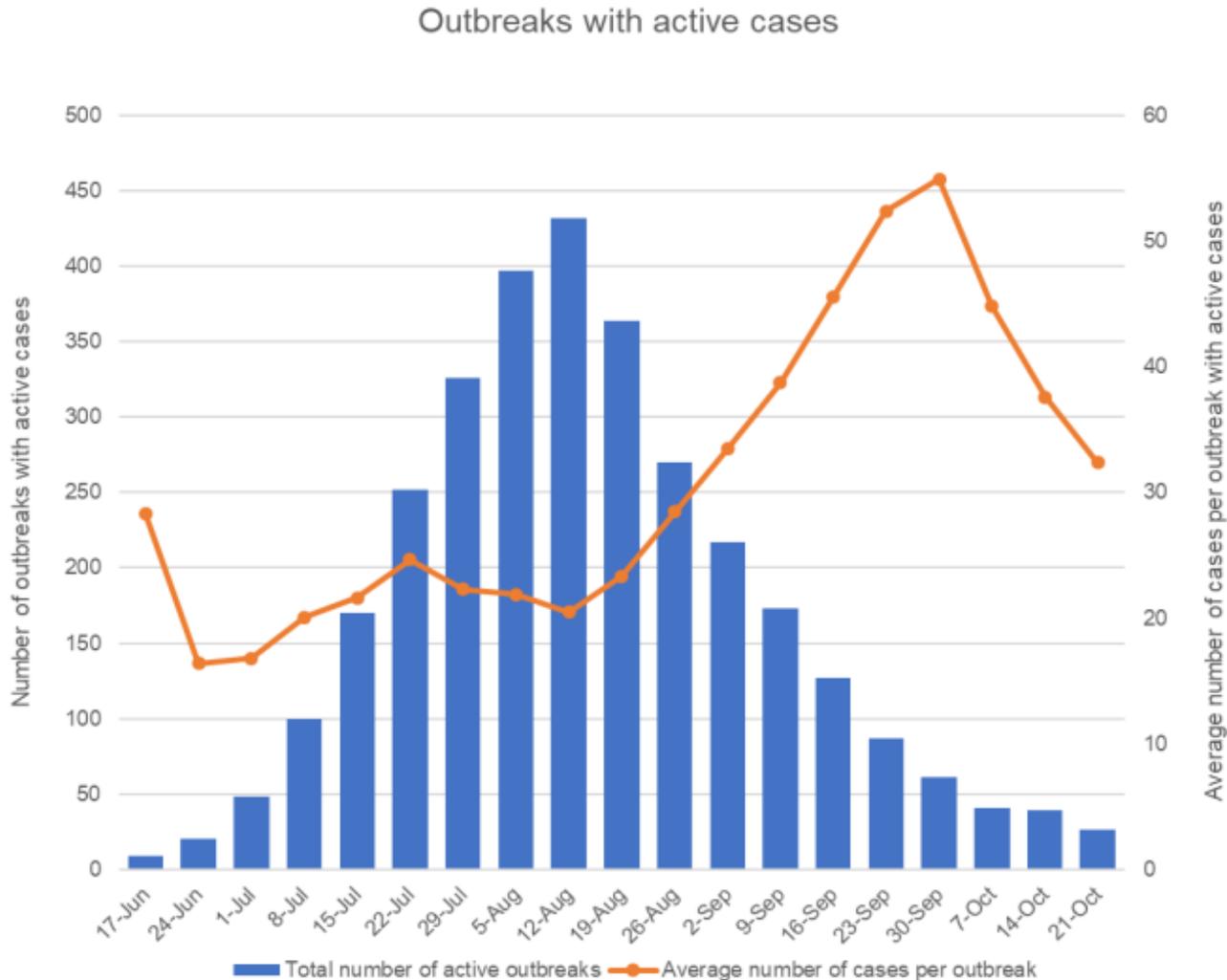
Engagement with community, businesses and multicultural groups

- I. culturally and linguistically diverse (CALD) community engagement
- II. engagement with businesses
- III. strengthened relationships with GPs

Weekly case numbers and restrictions – Victoria evolving through experience



Victoria's response actively bringing down cases per outbreak

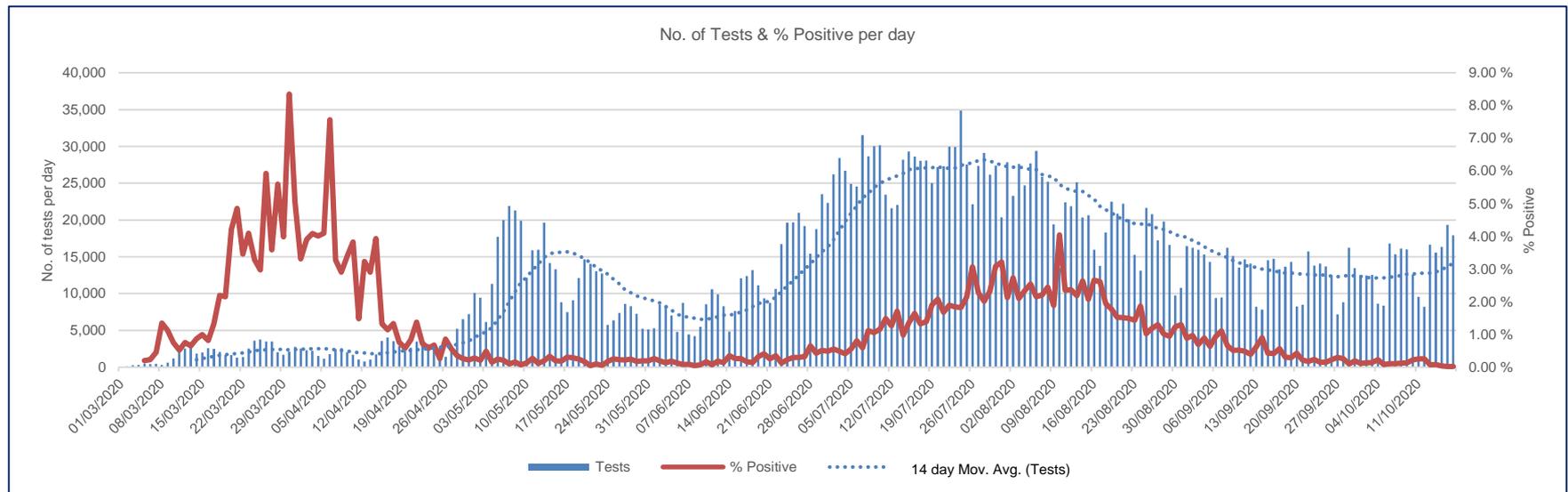


Victoria as a high performing state in testing and case management

State	Total tests	Confirmed cases	Lives lost	Population
NSW	3,336,876	4325	55	7,544,000
VIC	3,475,749	20,345	819	6,359,000
QLD	1,318,805	1,190	6	5,071,000
SA	617,145	550	4	1,677,000
ACT	116,209	115	3	418,000
NT	66,052	47	0	245,000
TAS	125,049	228	13	515,000
WA	527,624	794	9	2,589,000

Monitoring and adapting to latest testing trends

A key input to our work is testing numbers and trends, which we monitor daily



1st wave testing response

- **Avg 2,241 tests per day through initial increase in cases between 1/03 – 30/04**
- Mainly fixed testing network
- Cases mainly driven by returning overseas travellers
- Minimal community transmission

- **Avg 11,861 tests per day between 1/05 – 30/06**
- Testing network increases as testing capacity surges
- Some community transmission

2nd wave testing response

- **Avg 23,720 tests per day between 1/07 – 31/08**
- Diverse testing network incl. launch of Call to Test, Rapid Response teams, targeted testing approach
- Significant Community Transmission

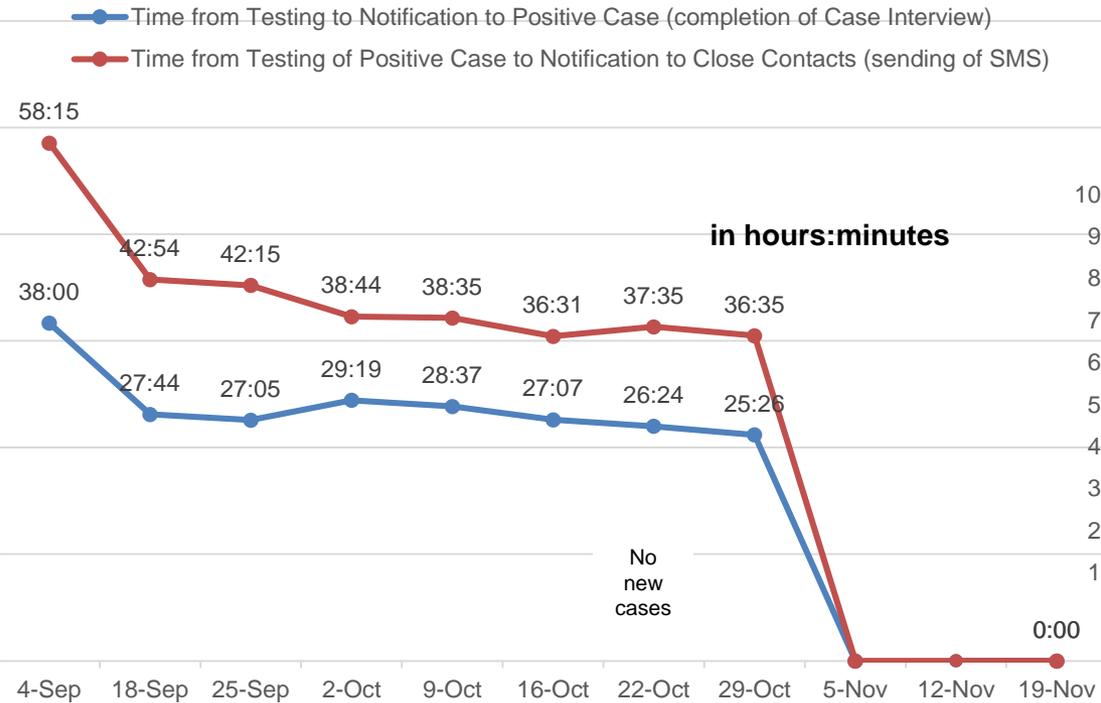
- **Avg 12,984 tests per day between 1/09 – 30/09**
- Testing numbers start to fall as cases drop and community fatigue assumed to be setting in
- **Avg 13,799 tests per day between 1/10 – 17/10**
- Testing rates begin to recover as outbreak targeted testing begins

Testing response – Moving forward

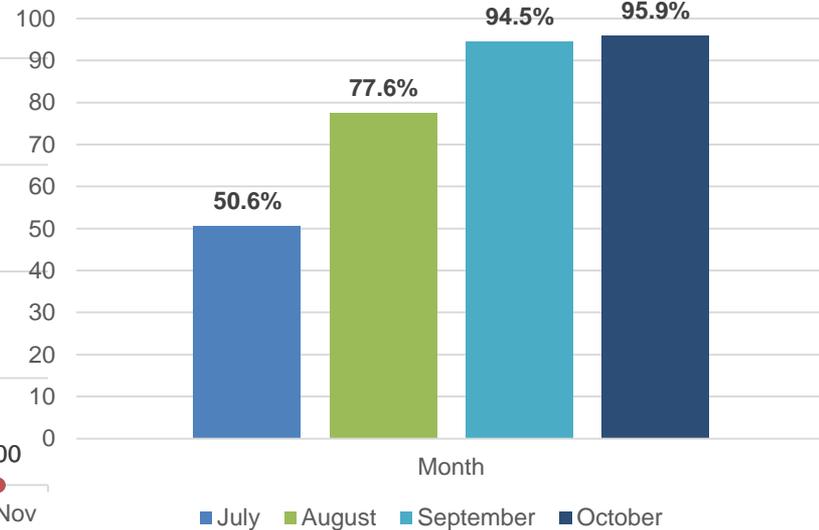
- Testing increasingly deployed through Targeting and Rapid Response, including High Risk Industry Surveillance and Priority Communities
- Novel pathology modalities trialed including Saliva, and testing through wastewater surveillance

- Move to COVIDNormal Testing System including ongoing testing surveillance of High-Risk Communities, Places (eg targeted regional holiday destinations), Employers
- Integration of Operation DRASI into DHHS BAU

Victoria's high testing performance



Proportion of tests turned around within one day



A widely accessible and effective testing system

The foundation of Testing in Victoria is CET's Fixed Testing System – including familiar retail drive-throughs, at hospitals, and community health testing

DHHS has a network of circa 200 fixed COVID-19 testing facilities across Victoria, made up of testing models including Health Service Led, Community Health Service Led, Metropolitan Drive Through Retail and GP Led Respiratory Clinics.

The Fixed Testing System focuses on effective community engagement, for broad and accessible symptomatic and asymptomatic testing for all Victorians, ensuring optimisation and utilisation for sustainable testing that enables and supports the reduction in COVID transmission. It takes into account:

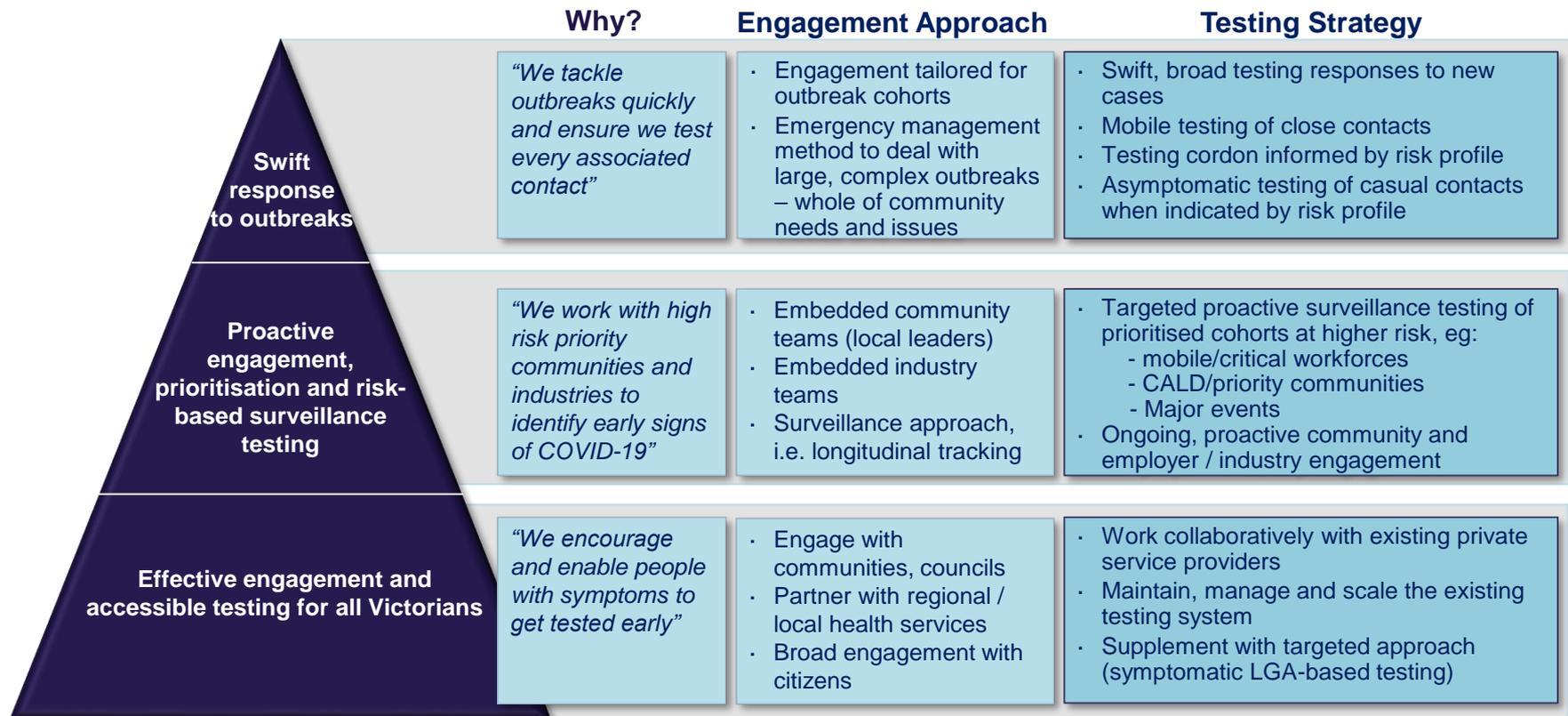
- Scalability - Provides a scalable service capable of flexing up and down as demand changes
- The end to end customer experience to ensure the cycle of improvement is at the forefront of all decision making
- Commercial construct – Operates within a commercial and contractual construct that provides certainty in cost and service delivery
- Potential to be an early adopter - Has potential to rapidly adopt new techniques and testing practices
- Compliments low volume channels – Ensures testing initiatives can provide access to broader sections of the community otherwise excluded

As the COVID-19 response continues to evolve, the Fixed Testing System will continue to collaborate and partner with a broad range of internal and external stakeholders to ensure alignment of community testing requirements that are delivered in the most optimum manner.

This will include connection and alignment with community engagement, outbreak management, surveillance testing, pathology response times, new product offerings and emerging test modalities.

A tailored approach to Community Engagement and Testing

Three tiers of COVID-19 infection require different levels of engagement and testing, and a fast and flexible pathology diagnosis systems, leading to a matrix Strategy for community engagement and testing and pathology



Victoria's contact system and testing regime makes necessary adaptations in response to the evolving pandemic



July

Vestige

Launch of regional LPHUs
PHESS improvements
Electronic lab reporting
Case and Contact Management Portal



early September

Launch of Salesforce end-to-end case management platform
Team 3 outbreaks CALD



October

Operation outbreak
Secondary contacts
Day 11 testing



March - June

Launch of Whispir automated SMS notification
Surge workforce to enhance contact tracing capability
Outbreak squads



August

Creation of sector-based outbreak management teams
Formalise KPIs across CCOM
Routine interrogation of metrics performance
Rapid Response Testing Teams and Roving Testing Squads
Call-to-Test



Late September

Launch of metro LPHUs
Exposure site publication



Victoria's steadily improving case and contact management

Date From	Date to	Percent of cases contacted within 24 hours	Percent of cases interviewed within 24 hours	Percent of known contacts notified within 48 hours
15-Aug	21-Aug	100%	75.44%	99.26%
22-Aug	28-Aug	100%	74.81%	98.81%
29-Aug	4-Sep	100%	88.49%	99.28%
5-Sep	11-Sep	100%	95.36%	98.22%
12-Sep	18-Sep	100%	98.82%	99.46%
19-Sep	25-Sep	100%	100%	99.05%
26-Sep	2-Oct	100%	98.65%	99.40%
3-Oct	9-Oct	100%	100%	99.65%
10-Oct	16-Oct	100%	100%	100%
17-Oct	23-Oct	100%	100%	99.44%
24-Oct	30-Oct	100%	100%	98.87%
31-Oct	6-Nov	N/A	N/A	100%
7-Nov	13-Nov	N/A	N/A	N/A

**Cases contacted
and interviewed**

Contacts notified

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Engaging with all sectors of the community and workplaces

Workplaces

Partnership and cooperation with industry is essential to ensure employers are taking steps to reduce risk and stop transmission at work. Workplace obligations ensure that plans and processes are in place to manage risks and respond to outbreaks. Employees, customers and vulnerable cohorts are protected through COVIDSafe plans and compliance and enforcement by WorkSafe

Hospitals and sensitive settings

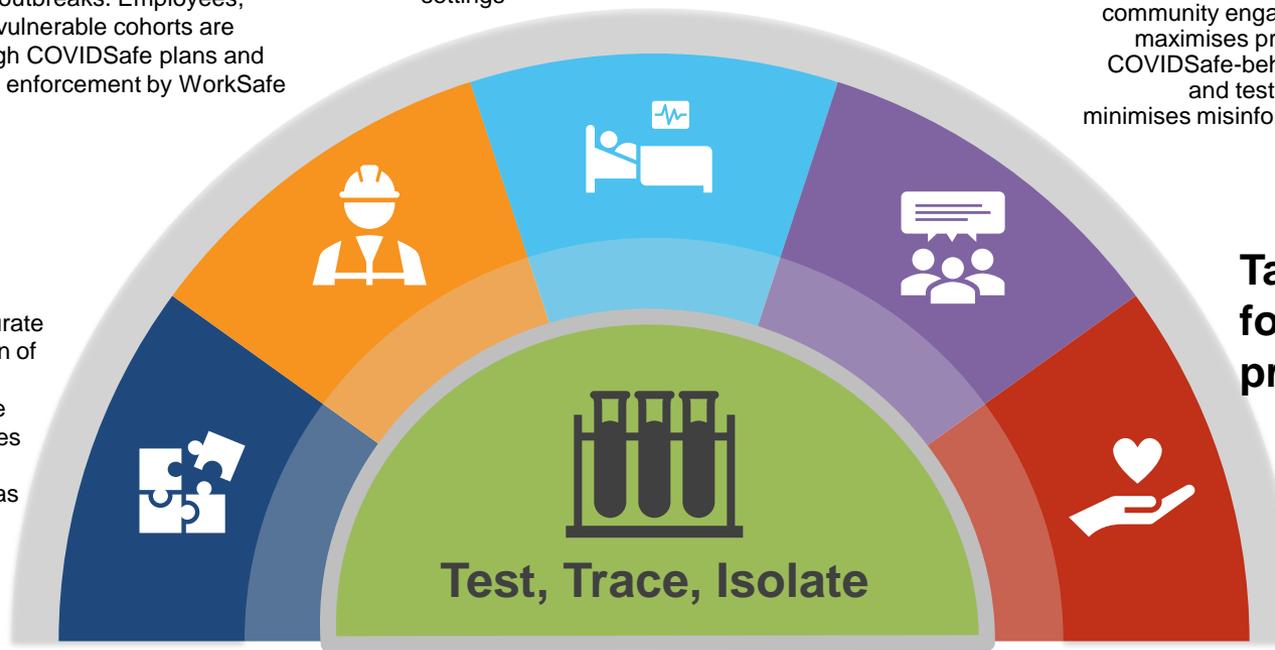
Risk assessments, COVIDSafe Plans and common response frameworks will improve outcomes for aged care, schools, disability care, residential care and other sensitive settings

Community engagement

Effective and sustained community engagement maximises protective COVIDSafe-behaviours and testing, and minimises misinformation

Public health intelligence

System improvements, including timely and accurate data sharing, coordination of responses and targeted resourcing will ensure the health and human services system can respond effectively to new cases as well as providing general healthcare and social supports



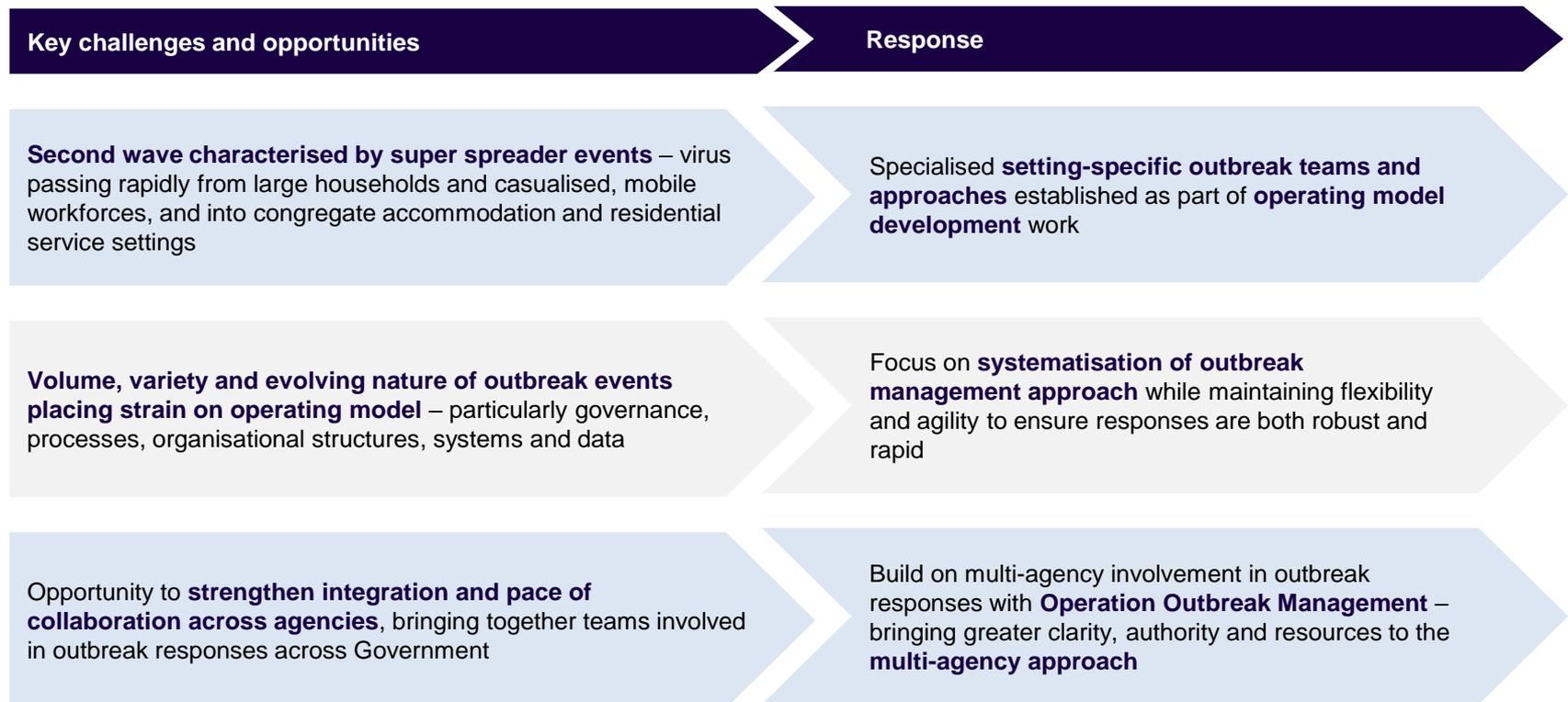
Targeted support for priority cohorts

Risk-based interventions for CALD, Aboriginal and Torres Strait Islander peoples, and places with high transmission risk will reduce transmission among priority Victorians

Testing, tracing and isolating are central to an effective COVID-19 response. Broader community, workplace and system responses are required to prevent, identify and manage outbreaks.

Creating tailored response measures to make opportunities from challenges

Victoria's outbreak management approach has advanced significantly and rapidly in recent months to respond to the new challenges presented by the second wave. In parallel there has been a major focus on operating model systematisation and continuous improvement to address previous limitations and to build on existing strengths



Prioritising clear, targeted and coherent communications with Victorians and workplaces

CORONAVIRUS (COVID-19) IN VICTORIA

LATEST NUMBERS: 20 NOV 2020
In the past 24 hours statewide, there have been

0 new cases	0 lives lost	18,474 test results received
2 active cases	0 case with unknown source 4 Nov - 17 Nov	

Note: Data ranges differ to allow time for case interview data to be analysed.

Got symptoms? Get tested.
Every test helps

1800 675 398 | coronavirus.vic.gov.au

Daily numbers

Latest numbers are published every morning to keep the public up to date.

Outbreaks

There are currently a number of cases linked to the [Northern metro region community outbreak](#). If you have visited any of the sites, or are a close contact please get tested.

Case alerts – public exposure sites

12/11/2020 8:30am

If you have visited any of the locations listed in the table below during the date indicated for the next 14 days you should:

- Watch for coronavirus (COVID-19) [symptoms](#).
- If symptoms occur, immediately [get tested](#) and [stay at home while you wait for your results](#).

These premises have had confirmed cases visit during their infectious period. This does not mean that there is an ongoing risk associated with the premises,

Exposure sites

A list of high-risk locations are published on the DHHS website, we ask that if people have visited any of those sites within 14 days of the list being published that they watch for COVID-19 symptoms.

If symptoms occur, immediate testing should occur.

Safety requirements are now in place



Keep up to date at [CORONAVIRUS.vic.gov.au](https://coronavirus.vic.gov.au)



Workplaces

- COVIDSafe plans for each sector
- Business Victoria hotline
- Surveillance testing program

Working with priority communities to reduce transmission

Dedicated strategy in public housing settings:

- To ensure residents are educated about the symptoms of COVID-19 and of how to reduce the risk of infection.
- To engender understanding and acceptance of the public health measures
- To provide easy to understand, accessible and relevant information to residents

Establishment of a dedicated Priority Populations team (Team 3) within Case, Contact and Outbreak Management

- Objective of Team 3 is to support culturally appropriate engagement with Aboriginal and CALD populations

Translation of materials into 57 languages. Audio and video content created by DHHS in partnership with local communities:

- <https://youtu.be/9EP1SC1NmpU>

Deep engagement in high-risk communities (Altona North, Hallam, Frankston) in partnership with Local Government, not-for-profit community groups

Digitising systems to speed up and expand capacity of contact tracing



Improvement	Benefit
<p>Digital testing ('Test Tracker')</p> <ul style="list-style-type: none"> • Tests digitally recorded and sent directly into pathology lab systems 	<ul style="list-style-type: none"> • Shift from paper slips to digital, reduces manual data entry & error
<p>Digital improvements to PHESS</p> <ul style="list-style-type: none"> • Upgrading the software and migrating the system to the DHHS Microsoft Azure platform • Application monitoring and improvements to configuration settings • Implementing a separate (tactical) database for negative test results • Implementing secure remote access 	<ul style="list-style-type: none"> • Expanded capability to process higher volumes through automated workflows • Enabled multiple workforces (internal and external) to use concurrently
<p>Case and Contact Management Portal</p> <ul style="list-style-type: none"> • Real time PHESS integration to auto-allocate cases and contacts to internal and external (eg, surge workforce) contact tracing teams • Hi-security to ensure data collected is managed in accordance with laws and DHHS privacy policies 	<ul style="list-style-type: none"> • Auto-allocated cases and contacts – quicker interview times and lower margin of error • Improved data quality by removing manual entry
<p>Digital notifications</p> <ul style="list-style-type: none"> • SMS messages using Whispir and automatic importation into PHESS 	<ul style="list-style-type: none"> • Enabled rapid, consistent and coordinated messaging to cases and contacts
<p>CRM</p> <ul style="list-style-type: none"> • To integrate existing improvements and streamline systems for even quicker responses 	<ul style="list-style-type: none"> • Ability to scale up existing improvements and streamline central teams with LPHUs

Outbreak squads: providing rapid response and prevention

Infection Prevention and Control Outreach Nurses (IPCON):

a specialist rapid response team expert in preventing the spread of infectious diseases to enhance COVID safety.

Outbreak response visits

- support outbreak sites to ensure effective containment of public health risks.
- dedicated focus to ensure testing and deep cleaning
- support rapid contact tracing by engaging onsite to identify impacted staff or other personnel.
- inform outbreak setting risk assessment and follow-up action for each outbreak
- 100% site visits within 24 hours of outbreak called
- 1016 preventative visits and 1175 responsive visits (includes remote and on-site visits)

Prevention and readiness visits

- work with organisations to develop COVIDSafe plans
- strengthen workplace infection control procedures and protocols, including workforce cohorting
- training of key personnel in IPC
- guidance on hand hygiene, social distancing, personal protective equipment (PPE), cleaning techniques, ventilation, responses to a case
- audits of practices and prevention protocols
- targeted industry engagement

Continuous improvement through a learning system

Established improvements

- Specialised **setting-specific outbreak teams** established to manage responses
- **Formal daily risk assessments** of outbreak complexity and consequence considerations
- A **multi-agency Risk Evaluation Meeting (REM)** to rapidly identify and mobilise priority actions
- **Enhanced exposure site publication** and awareness raising approach
- Reporting **new outbreak management metrics and KPIs** to drive improvement
- **Outbreak Management Operation Coordination (OMOC)** established to support rapid, effective multi-agency engagement
- Formal “**lessons learned**” sessions to support ongoing improvement

Recent improvements

- ‘**War gaming**’ stress testing with the ADF to identify improvement opportunities
- A wrap around **Client Management Service** for each positive case and their associated close contacts
- **Local Public Health Units (LPHUs)** established to enhance local community and primary care engagement in PH response
- Case and contact **Customer Relationship Management (CRM)** to fully digitalise processes, end-to-end
- Enhanced digital solutions to support Case interviews through movement tracking.
- Digital visitor registration to support rapid contact tracing

Every minute counts

