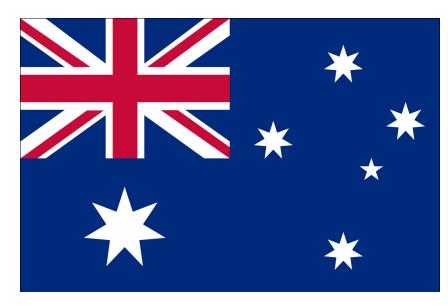
Australian initiatives in digital health during the pandemic crisis and after

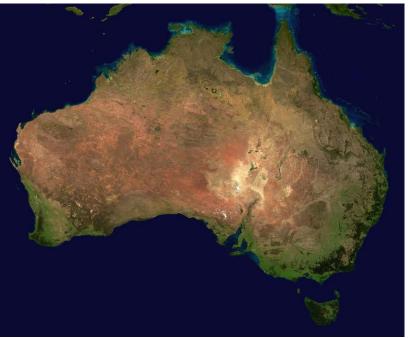
Dr Chandana Unnithan Australia

58th Session of Scientific & Technical Sub Committee
UN COPUOS

Digital Health

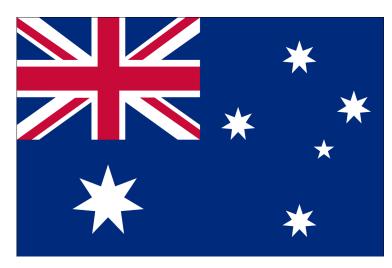
- Digital technologies are being harnessed to support the public-health response to COVID-19
- Population surveillance, case identification, contact tracing and evaluation of interventions on the basis of mobility data and communication with the public.
- How? Leverage mobile phones, large online datasets, connected devices, relatively low-cost computing resources and advances in machine learning and natural language processing.



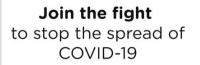


Space derived technologies in digital health

- Pioneered in 2009, with telehealth in support of the remote areas
- In 2019, the National Electronic Health Records system (myhealthrecord) was implemented that interconnected health practices, laboratories, pharma and allied health
- Telehealth infrastructure was enabled by National broadband network initiative
- By 2020, it was possible for servicing remote regions and communities using telehealth



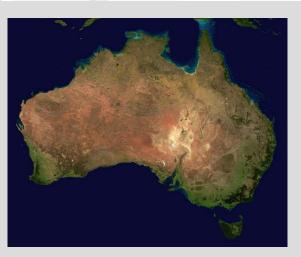






Get notified quickly if you come into contact with





CovidSafe Australia



Stops the spread



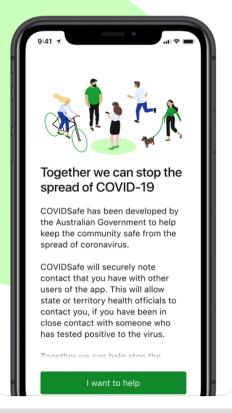
Get Notified Quicker



Privacy Preserved



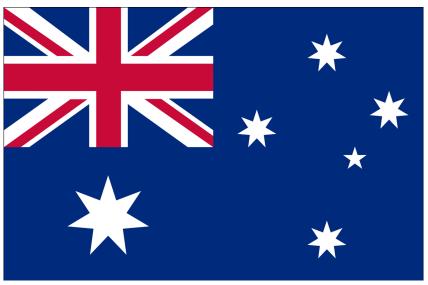
Your identity is safeguarded



Initiatives during Covid-19

- Remote care to patients with chronic conditions or with mild/moderate illness serviced via telehealth
- E-prescriptions were enabled mainstream
- Lowered the barriers and reluctance relating to e-health records management
- Tracking devices are used to monitor quarantine breaches





During Covid-19

- Pandemic Drones are being used to ensure socialdistancing and quarantine regulations
- University of South Australia is designing a "pandemic" drone to detect virus symptoms such as fever and coughing from a distance. The drones use sensors and computer vision systems to monitor people's temperature and heart rates, and detect people coughing in crowds.
- The drone could be used post pandemic to manage public health crises.

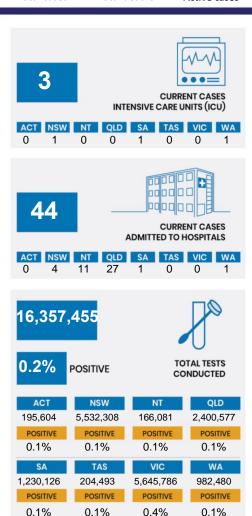


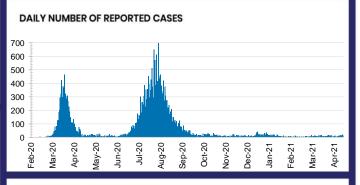




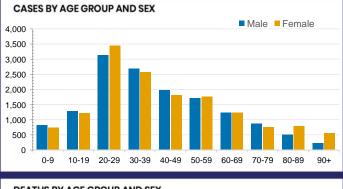


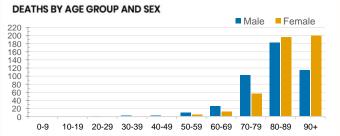
CURRENT STATUS OF CONFIRMED CASES 29,519 910 155 Total cases Total deaths Active cases

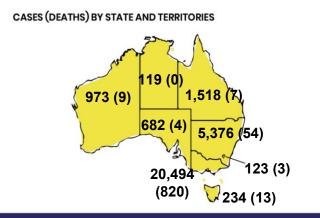


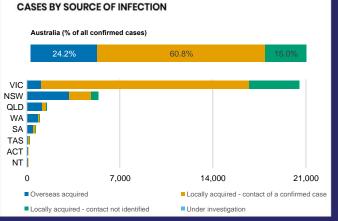


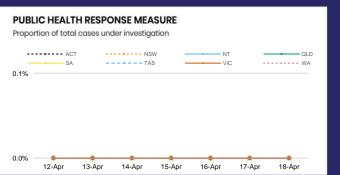
Confirmed Cases	Austra lia	ACT	NSW	NT	QLD	SA	TAS	VIC	WA
Residential Care Recipients	2051 [1366] (685)	0	61 [33] (28)	0	1 (1)	0	1 (1)	1988 [1333] (655)	0
In Home Care Recipients	81 [73] (8)	0	13 [13]	0	8 [8]	1 [1]	5 [3] (2)	53 [48] (5)	1 (1)











Covid-19
Dashboard
Nowcasting,
Real-time
data
streaming
and
processing

Post Pandemic

- Telehealth the New Normal since March 2020, including remote areas, rural or urban areas to all.
- The Vaccination Eligibility checker assists in self-managing vaccinations
- The Clinician Vaccine Integrated Platform (CVIP) is used to manage vaccinations and report vaccination information to the Australian Immunisation Register (AIR).
- Self management using wearables connecting to health practices and GPs – the new way forward enabled by geospatial and space derived technologies in public health.



