Australian initiatives in digital health during the pandemic crisis and after

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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
CovidSafe
Australia

- Stops the spread
- Get Notified Quicker
- Privacy Preserved

Join the fight to stop the spread of COVID-19

Get notified quickly if you come into contact with COVID-19

Even if you don’t know the person
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 social-distancing 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.
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.