# **COVID & Digital Surveillance:**

## Australia's COVIDSafe app, unsafe QR Codes & unknown Status Certs

Graham **Greenleaf** Professor of Law & Information Systems, UNSW & Dr Katharine **Kemp**, UNSW Law

RightsCon 2021, June 7-11 2021

**'Balancing Privacy and Public Health in Digital Contact Tracing in the APAC Regions'** 

# 3 forms of COVID data surveillance

### 1. Proximity tracking

- Typically via Bluetooth
- Tracks proximity to another person (phone), not location

### 2. Attendance tracking

- Typically via QR Codes
- Tracks attendance & time at required venues
- Sporadic (not continuous) location tracking

### 3. COVID status certification

- Can be electronic (app) and/or by paper
- Records (i) vaccination history and/or (ii) COVID test history
- Aka immunity (vaccine) passports (certificates)

## Centralised or distributed?

The data collected by each of the 3 forms of surveillance may be *either*:

- 1. Distributed on user devices
  - Apple/Google Bluetooth proximity app
  - QR Codes at venues that only update 'digital diaries'
  - COVID status data that is static until user chooses to update (also, paper copies)
- 2. Stored centrally
  - Australia's COVIDSafe Bluetooth proximity app
  - All Australian State/Territory QR Code systems
  - COVID status apps that always update from central database

# Australian context (1): No rights, no challenges

## No fundamental privacy rights

- 1. No relevant constitutional protections
  - Probably no rights as citizen to exit /enter Australia
- 2. No international agreements of significance
  - ICCPR not actionable in Australian courts
- 3. No relevant common law rights (eg right of privacy)
- No court challenges possible
- Can NGOs prevent COVID surveillance abuses?
  - No legal ways to prevent centralised govt. strategies
  - Only Australian legal protections = politics of legislation
  - Strategy of many NGOs is 'improve the legislation'
    - First need to get legislation, not regulations

# Australian context (2): Little COVID, suppression policy

- All State/Territory governments pursue suppression
  - Applies to both imported & locally acquired infections
- Australia's success in COVID19 suppression
  - Fatality rate = 35/million; total deaths = 910 (07/06/21)
  - Infections: new = +5; active = 142; serious = 1 (07/06/21)
  - Suppression achieved before proximity app (May 2020) or QR Codes (Nov. 2020); + intermittent outbreaks since
  - Vaccinations = 250K (2%) (full) & 5.2M (20%) (partial) / 25.5M adults (07/06/21) - very low vaccination rate
- Suppression strategies require (i) widespread vaccination; (ii) effective surveillance of contacts; (iii) aggressive contact tracing; (iv) quarantine

# Australian context (2): Extent of surveillance / tracing

### COVIDSafe app

- Peaked at 30% take-up, now stalled
- After 1 year, detected 16 proximity events in NSW; NIL in other States
- Result: NO EFFECT; failure of technology and trust
- BUT COVIDSafe Act is a model for legislation

### QR Codes

- Since Jan 2021, govt apps compulsory in all States & Territories
- Centralised data collection
- Vast range of required venue types (expands & contracts – States vary)
- At least 120M check-ins per month Australia-wide
- Enforcement against venues tightening (A\$10K fines); numbers will rise
- Largest peacetime surveillance exercise in Australia?

# Argument: Legislative protections based on common principles needed

Australia's COVIDSafe app



Australian
QR Codes for
attendance
check-ins



COVID status certificates (imagined)



# Unlikely principles in Australia

# 1. No compulsion (voluntary)

#### COVIDSafe app & Act

- Voluntary downloading of app & uploading 'registration data' to NCSDS (central data store)
- Voluntary uploading of COVID app data to NCSDS, for tracing, if tested positive for coronavirus

#### QR Code tracking

- Compulsory State-run QR apps
- Lists of venues requiring check-in changes with risk

#### COVID status cert.

 Likely: Compulsory for nominated occupations; incentives by airlines; international exit/entry requirements; State borders?

#### 2. No central database

### COVIDSafe app & Act

 Cth govt. centralised data store (NCSDS) for COVIDSafe data

#### QR Code tracking

- All States require govt. apps & centralised database
- Any permitted exceptions (eg hospital apps) must link via API

- Unknown, but probably centralised database
- Either Cth database based on immunization register;
- Or State apps/database based on Govt Service app.
- Decentralised systems unlikely

# Common principles to keep all centralized systems more safe

- 1. Put controls within the country's data privacy law
- Minimum data collection
- Authorised uses of COVID data defined & minimal
- 4. Anti-coercion provisions
- 5. Prevent 'surveillance creep' (as far as possible)
- 6. Ongoing deletion program once purpose complete
  - + Deletion on request wherever possible
- 7. 'Sunset clause' for whole system, transparently based on medical advice
- 8. Supervision & periodic reports by independent DPA

# Principle 1: Put controls within the jurisdiction's data privacy law

#### Reasons:

- Greater uniformity
- Easier to utilise existing protections

## COVIDSafe app & Act

- Part VIIIA of the Privacy Act 1988
- Includes all protections above (with some flaws)
- Strongest privacy protections for any Australian personal data

### QR Code tracking

- Compulsory State-run QR apps
- No special legislation, regs under health laws
- State data privacy laws apply but do not assist

- None yet in Aust.
- Australia may need uniform federal & State laws

# Principle 2: Minimum data collection, for minimal purposes

### Purpose:

 Best protection against centralization is constant data minimisation

## COVIDSafe app & Act

- Email, phone & name
- Aliases allowed
- Any other collection of data by app forbidden

### QR Code tracking

- App registration collects name & phone
- Use of QR Code collects venue name, time & duration (if logout used)
- Other Qs (eg 'red zones') may be permitted.
- Associates can be added

- None yet in Aust.
- Legislation should strictly limit data collected

# Principle 3: Authorised uses of COVID data defined & minimal

### COVIDSafe app & Act

- All uses of COVID app data are illegal (5 years or AU\$63K), unless explicitly permitted (s94D)
- Permitted uses are limited to: Contact tracing by State health Depts; NCSDS essential administration; breach investigations
  - No consent exemption
  - No Police/ASIO exemptions

### QR Code tracking

- State health regs may promise 'tracing only'
- But State privacy laws allow wider disclosures
- No controls over addition of new venue categories
- Venues are often sensitive

- None yet in Aust.
- Status info is highly personal, easily misinterpreted
- Uses should be strictly limited by legislation

# Principle 4: Anti-coercion provisions

- COVIDSafe app & Act
- Reasons: (i) prevent coercion to use app; (ii) prevent unauthorised uses
- Offence to require another person to download the app, or have it in operation, or consent to upload data to the NCSDC (s94H(2))
- Further offences where adverse conditions apply if app is not installed (s94H(1))
- Criminal penalties: 5 years gaol, or AU\$63K fines
- Addition: Individual enforcement provisions: offences are also civil breaches of Privacy Act, can result in damages

- QR Code tracking
- State health regs may promise 'tracing only' But State privacy laws allow wider disclosures
- Other govt uses must be prohibited (eg Singapore allow Police uses despite 'tracing only')
- COVID status cert.
- None yet in Aust.
- Uses of certificates should be strictly defined by legislation
- Offences similar to COVIDSafe Act are need to prevent other demands/requests to see certificates, and resulting acts

# Principle 5: Prevent 'surveillance creep' (as far as possible)

- Problem: Any surveillance creep will destroy trust needed for voluntary participation
- COVIDSafe app & Act
- Police/spooks wanted exceptions; Govt. refused
- Part VIIIA overrides other existing laws
  - Effect of all existing Australian laws inconsistent with Part VIIIA are cancelled (s. 94ZD)
  - Includes mere permissive demands for data
  - Future Acts (not regs) must expressly refer to Part VIIIA or specific sections, to over-ride.

#### QR Code tracking

- State health regs may promise 'tracing only'; Singapore promised this, then reneged, allowing criminal investigations
- State privacy laws allow wider disclosures; needs to be closed
- No controls over addition of new types of uses by legislation

- None yet in Aust.
- Future expansion of legitimate uses should be limited as in Part VIIIA

# Principle 6: Ongoing deletion program once purpose complete

- Problem: History suggests surveillance is rarely undone
- COVIDSafe app & Act
  - Logs automatically deleted from phones in 21 days
  - NCSDS is centralised collection, but extent of collection is limited
  - For most users, only their registration data is on NCSDS, and can be deleted on request;
- Only tiny % of users will ever upload contact event logs
  - but logs of their contacts may be uploaded by others;
  - All uploaded contact logs remain on NCSDS for life of system; No expiry, and no deletion on request (criticised)

#### QR Code tracking

- Vast quantities of attendances uploaded – often very sensitive
- Most State regs require deletion after 28 days, but this is not in legislation
- Privacy laws do not set a time limit, only 'when use is complete'

- None yet in Aust.
- Epidemiological value means that anonymization after use may be the best achievable
- Desirable: Anonymisation once no longer valid as a current status indicator
- Desirable: No longer visible on individual status centificate

# Principle 7: 'Sunset clause' for whole system, transparently based

- Problem: History suggests surveillance is rarely undone
- COVIDSafe app & Act
- Minister for health must report on 'operation & effectiveness' of app & NCSDS w/in 6 months (ie by mid-Nov), tabled in Parlt w/in 15 days (s94ZA)
- 'Sunset cl': Minister for Health can determine (s94Y) that app is no longer required/effective
  - Minister must first receive advice from Chief Medical Officer, or committee of CMOs
- Termination decision is too political
- Once decided, NCSDS administrator 'must delete all COVID app data', stop making app available, and advise users to delete app. (s94P).

#### QR Code tracking

- No legislative sunset clause
- Desirable: Legislative sunset clause – same transparent medical advice
- QR database to close
- All data to be destroyed

- None yet in Aust.
- Desirable: Legislative sunset clause – same transparent medical advice
- Certificate system to close
- Anonymised data retained

# Principle 8: Supervision and public periodic reports by DPA

### Problem:

 External independent supervision is necessary

## COVIDSafe app & Act

Privacy Comm (PC)
 must report w/in 6
 months on exercise of
 Comm's functions and
 powers (s94ZB)

## QR Code tracking

 No requirements for State PCs to report

- None yet in Aust.
- Must be placed under active supervision by relevant PCs

# Result of Australian comparison

COVIDSafe app has Australia's strongest privacy protections, but is now largely ignored

ONIDSARE ONIDSARE DANASONIO Compulsory state-run **QR Codes** have little legislated privacy regulation, but are here indefinitely



certification
is inevitable
& dangerous,
& needs prior
legislation



## Conclusions

- For countries like Australia (few rights; some surveillance compulsory; centralised data stores) to *limit* damage of COVID surveillance is realism
- 2. Essentially *same* legislative controls are needed to mediate all 3 types of COVID surveillance
- 3. 8 principles outlined would do most of the work needed to make centralised systems much safer
- 4. Ultimate protections come from (i) politics of surveillance; and (ii) public willingness to comply