

Self Tracking Framework for Epidemic Management

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Framework Description

- Aims to Flatten the curve of the COVID-19 spread in localised areas which are within the Movement Control territories.
- It presents a low cost - low entry, easily adoptable and replicable solution. No Apps required. Only QR Code Scan. Available in all Smart Phones.
- Tracks Secured GPS Coordinates, Time Stamp, and Phone Numbers with a single QR Code Scan.
- Provides a mechanism to self track Individuals, Investigate an outbreak, Alert and Test Individuals that are in Risk and Prevent such occurrences.
- Provides a system to identify Individuals that are within the infected zone and trace the movement history.
- Inherently, after a lockdown (MCO), facts prove that the spike in infection occurs that merits another lockdown. With sufficient tracking, this numbers would be severely reduced.
- Introduce a GOLD Standard of Retail Disease Free (ie ISO for Health) that's adaptable by local businesses.

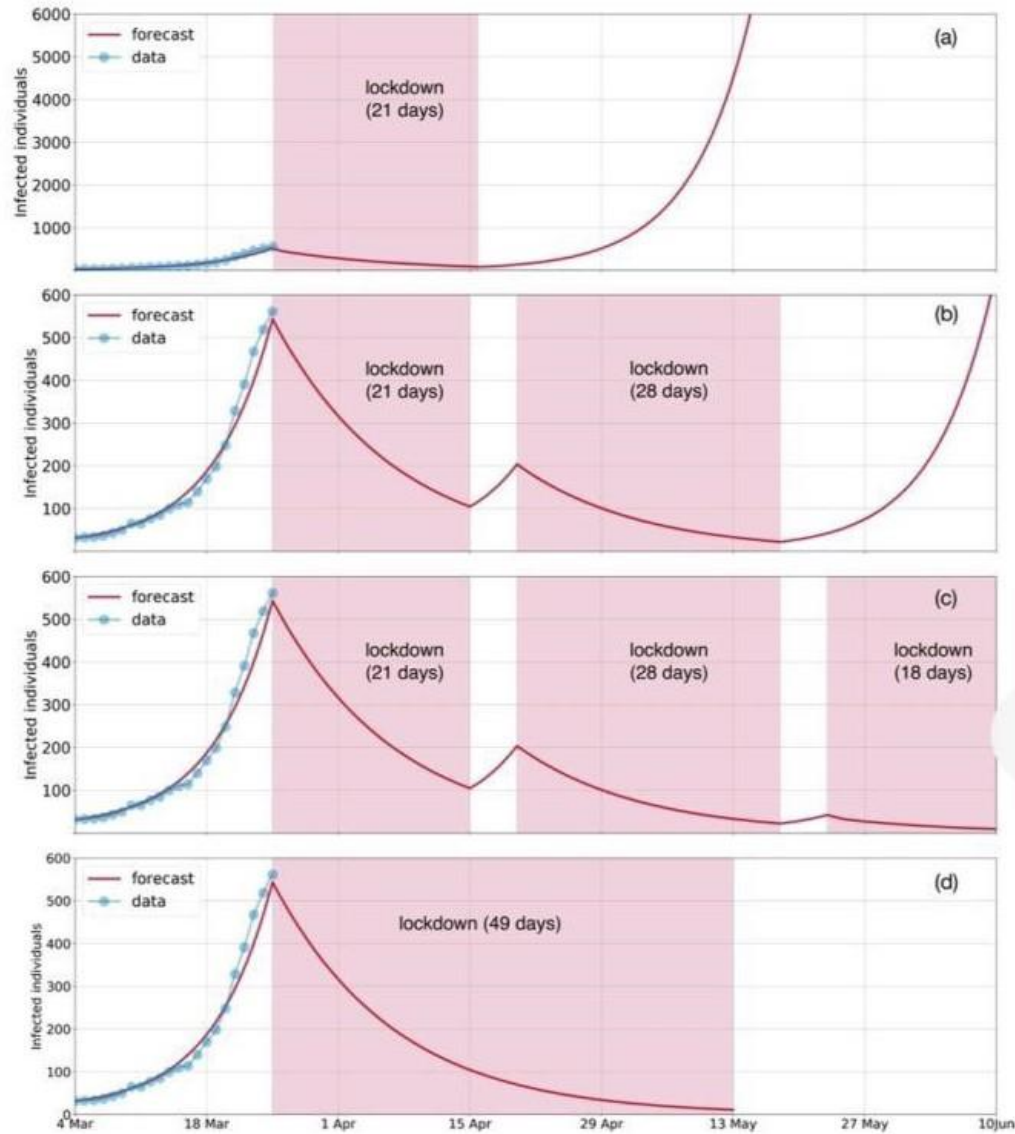


Figure 4. **Forecast of the COVID-19 epidemic in India with mitigatory social distancing.** Each of the four panels shows the variation in the number of infectives with lockdowns of various durations. The three-week lockdown starting 25 March does not prevent resurgence after its suspension as shown in panel (a). Neither does a further lockdown of 28 days spaced by a 5 day suspension, shown in panel (b). The protocols in panels (c) and (d), comprising of three lockdowns with 5 day relaxations and a single 49 day lockdown reduce case numbers below 10. This forecast is based on all cases being symptomatic so $\bar{\alpha} = 1$. The fit parameter is $\beta = 0.0155$ and we set $\gamma = 1/7$.

From this Research:

- Without any frameworks to Track and Trace, The Lockdown needs to continue for a longer period or periodically along the managed Curve determined by the Health Ministry.
- More Lockdowns would correlate to loss of revenue and would eventually cripple the economy.
- With the proposed Managed framework, Business continuity could happen whilst ensuring the infection is within the Curve's limits.
- This Framework aims to significantly reduce the spike after the lockdown (MCO).

Framework's Initiative

Public's Initiative

- Self Check In QR code at every Entry before entering a retail premise.
- Ensure to only patronise a Retail space that adheres to this Practice.
- Look for the GOLD standard Health measures issued by the relevant authorities.
- Practice Social distancing and practice proper hygiene.

Retail Business Initiative

- Adhere to the GOLD standard of Health and Tracking initiatives
- Refuse entry / service for those that do not Self check In.
- Respond to calls to action by authorities to clear, sanitise and enforce refusal of entry by those that so not check in.
- Display the GOLD Health Standard for public assurance

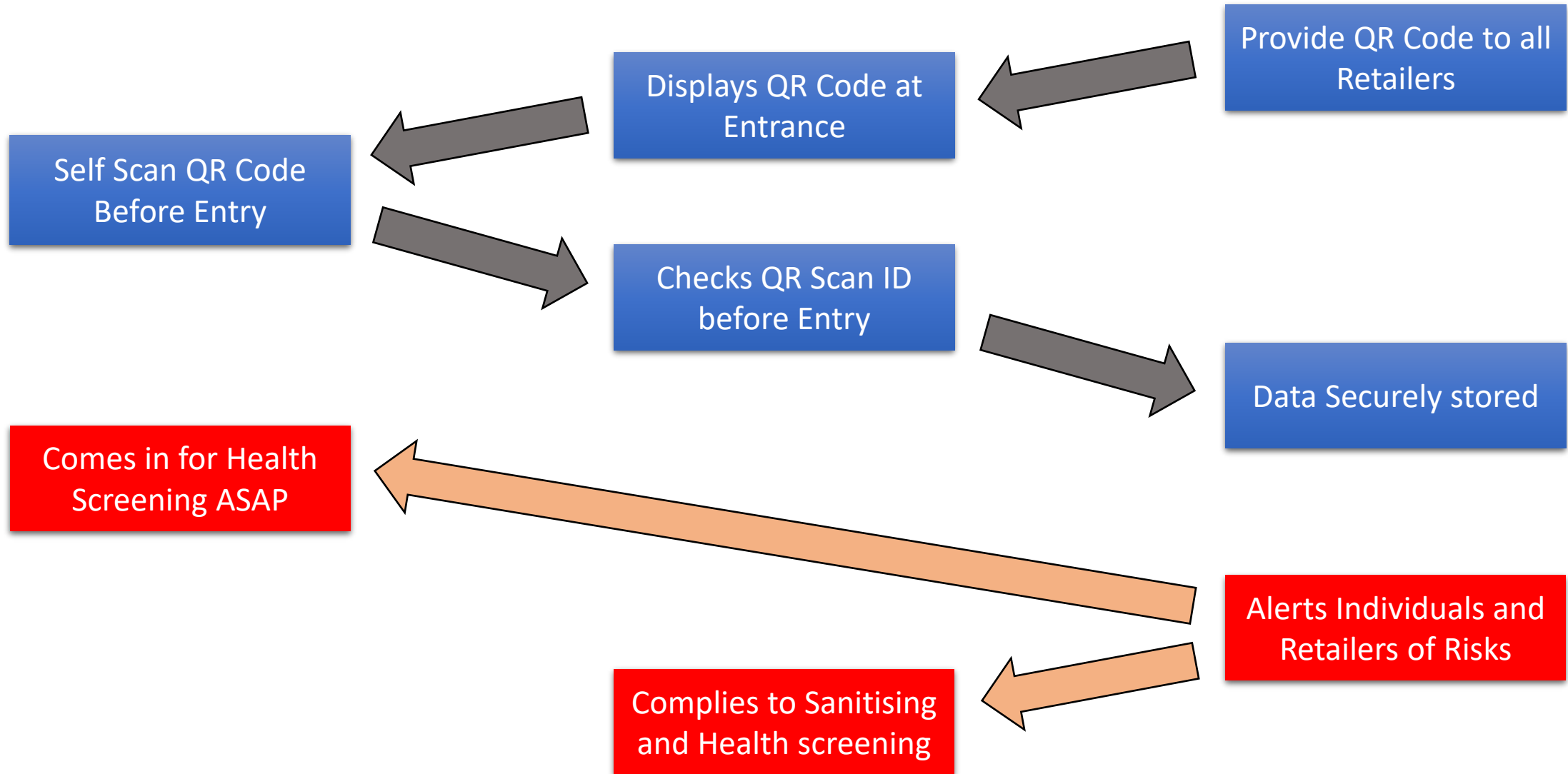
Health Ministry and Authorities

- Provide a GOLD Standard for Public's Assurance that is displayed by the Retailers and the Self Check In QR Code.
- Use the Dashboard for quick tracing of Individuals and Retail Outlets that are within the Risk levels.
- Issue Call to Action to Individuals and Retailers for Tests and Sanitisation
- Investigate on the causation for the outbreak and provide a collective feedback on the health procedures required

Public's Initiative

Retail Business Initiative

Health Ministry and Authorities



Anatomy of a QR Code Scan, NO Apps Required.



Scans the Unique QR Code in the Retailers Location.
The Identity and Location of the Retailers is known.
A timestamp of the Entry is noted

TIME



The QR Code contains a Unique Identifier Link that Informs us about the GPS coordinates and Retailers Identity

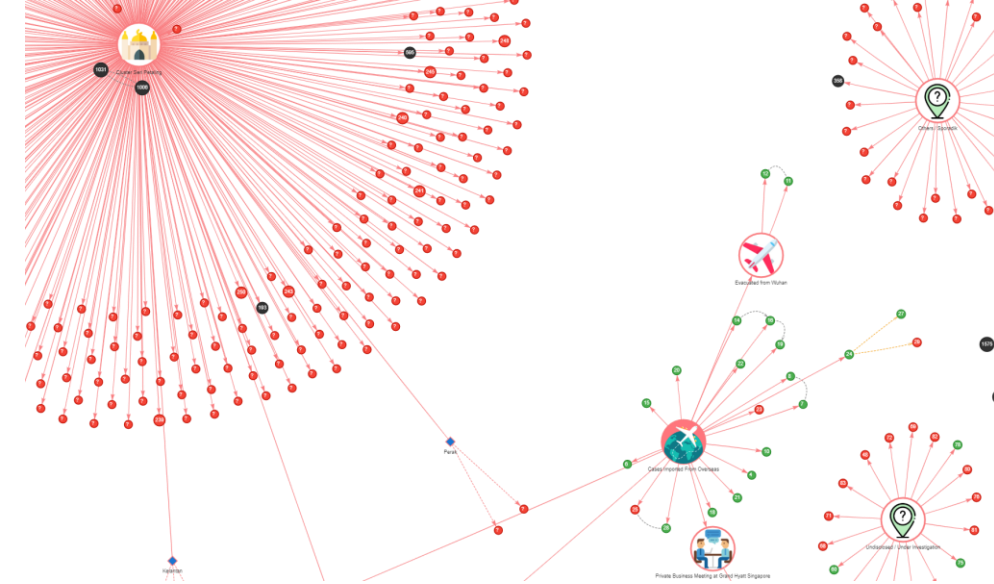
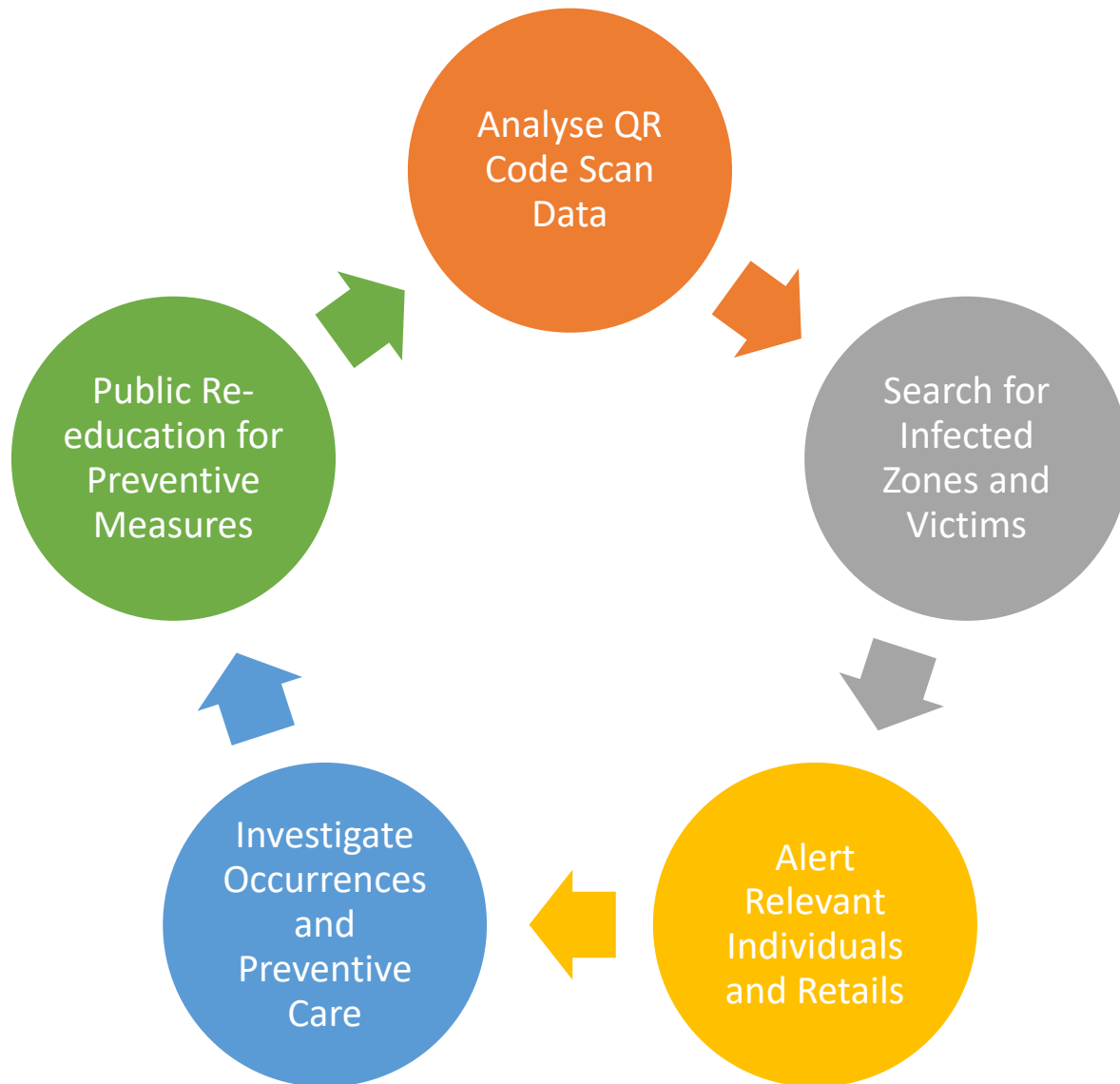
GPS



Major Telco Providers would provide the Phone numbers of the Users upon scanning the QR Code

**PHONE NUMBER
(USER IDENTITY)**

Authorities Dashboard



Phone Number Search:

TRACE ALL

Discover Individuals, Retailers and Locations

