Supplementary Information: Increasing Resilience via the Use of Personal Data: Lessons from COVID-19 Dashboards on Data Governance for the Public Good

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**S1. Survey questions**

1. How often do you use the following resources for information on COVID-19? 你通常會用以下那些渠道收集關於2019冠狀病毒病的資訊？

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Several times a day 每天用幾次 | Daily 每天用一次 | Every few days 每幾天用一次 | Weekly or less often 每週用(少於)一次 | Not at all 不用 |
| News 新聞 |  |  |  |  |  |
| Government websites 政府網頁 |  |  |  |  |  |
| Dashboards with maps 有地圖的資料平台 |  |  |  |  |  |
| Social media (e.g. Facebook, WhatsApp) 社交媒體 (例：Facebook, WhatsApp) |  |  |  |  |  |
| Public service announcements 公共服務通告 |  |  |  |  |  |
| Word of mouth 口耳相傳 |  |  |  |  |  |

1. What other resources do you use other than the above, and how often do you use them? 除此之外，你通常還會用什麼渠道收集關於2019冠狀病毒病的資訊，並且有多常用
2. What information regarding COVID-19 do you usually seek out? (Please choose all that apply) 你通常會尋找什麽關於2019冠狀病毒病的資訊？(請選擇所有適合的選項)

* Number of new confirmed cases 新確診病例數目
* Locations of new confirmed cases 新確診病例位置
* Number of deaths 死亡率
* Type of case (local vs. imported) 病例屬於本地或輸入個案
* Suspected cases 懷疑個案
* Residences of confirmed cases 確診病例住戶
* Protective supplies (e.g. masks, hand sanitizer) 防疫物品 (例：口罩、搓手液)
* Other (please specify) 其他 (請補充): \_\_\_\_\_

1. Which of the following dashboards do you use/have you used? (Please choose all that apply) 你用(過)以下哪些資料平台？(請選擇所有適合的選項)

* Latest Situation of Coronavirus Disease (COVID-19) in Hong Kong 2019冠狀病毒病-香港最新情況
* COVID-19 in HK 武漢肺炎民間資訊
* Other (please specify) 其他 (請補充): \_\_\_\_\_
* I do not use dashboards

If the respondent **answered** “I do not use dashboards”:

4a. Why do you not use dashboards? (Please choose all that apply) 你為什麼不使用資料平台？(請選擇所有適合的選項)

* Too hard to use 太難使用
* Other sources give me enough information 其他資料來源已足夠
* Not reliable 不可靠
* Inaccurate information 資料不正確
* Not enough information 資料不足
* Other (please specify) 其他 (請補充): \_\_\_\_\_

If the respondent answered “I do not use dashboards”, the survey ends here.

If the respondent did **not** answer “I do not use dashboards”:

1. Based on the information you receive, what actions do you take to protect yourself from COVID-19? (Please choose all that apply) 根據你收集到的資料，你會怎樣預防2019冠狀病毒病？(請選擇所有適合的選項)

* Avoid crowded and high-risk areas 避免高風險的地帶
* Stay home 留在家中
* Wear a mask 戴口罩
* Bring and use hand sanitizer 帶搓手液
* Look for places that sell masks at reasonable prices 尋找以合理價錢賣口罩的商店
* Use less crowded means of transportation 用比較不擠逼的交通工具
* Work from home 在家工作
* Travel at less crowded times of the day 在非繁忙時間使用交通工具
* Other (please specify) 其他 (請補充): \_\_\_\_\_

1. Based on the information you receive, what actions do you take to protect other from COVID-19? 根據你收集到的資料，你會怎樣幫其他人預防2019冠狀病毒病？

* Avoid gatherings 不去/不舉辦集會
* Wear a mask 戴口罩
* Distribute protective supplies (e.g. masks, hand sanitizer) 分佈防疫物品 (例：口罩、搓手液)
* Share information 分享資料
* Other (please specify) 其他 (請補充): \_\_\_\_\_

1. To what extent do the following factors affect your decision to use a dashboard?   
   以下的條件會否影響你使用某個資料平台的選擇？

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Absolutely 完全影響 | Significantly 非常影響 | Moderately 中等影響 | Slightly 輕微影響 | Not at all 不影響 |
| Accuracy 準確性 |  |  |  |  |  |
| Comprehensiveness 全面性 |  |  |  |  |  |
| Ease of use 易用性 |  |  |  |  |  |
| Political considerations 政治考慮 |  |  |  |  |  |
| Trustworthiness 可信性 |  |  |  |  |  |
| Legitimacy 立法性 |  |  |  |  |  |
| Neutrality 中立性 |  |  |  |  |  |

1. To what extent would you be willing to provide personal information to the government dashboard?   
   你會多願意提供個人資料給政府的正式資料平台？

* Absolutely willing 完全願意
* Very willing 很願意
* Moderately willing 適當地願意
* Slightly willing 甚少願意
* Not at all 完全不願意
* Did not answer the question

1. To what extent would you be willing to provide personal information to the citizen dashboard?   
   你會多願意提供個人資料給民間資料平台？

* Absolutely willing 完全願意
* Very willing 很願意
* Moderately willing 適當地願意
* Slightly willing 甚少願意
* Not at all 完全不願意
* Did not answer the question

1. What kinds of personal information would you be willing to share?   
   你願意提供什麼個人資料？

* Location data 位置數據
* Health data 健康數據
* Contact information (e.g. phone number, email address) 聯絡方式 (例: 電話號碼、電郵地址)
* Name 姓名
* Identification details (e.g. HKID, passport) 身分資料 (例： 香港身份證、護照)
* Family information 親人的資料
* Other (please specify) 其他 (請補充): \_\_\_\_\_
* None of the above 以上皆非

1. What other kinds of information would you be willing to share? 你願意提供其他什麼資料？

* Number of people you had close contact with 與多少人有近距離接觸
* Who you had close contact with 與那些人有近距離接觸
* Personal experiences (e.g. visiting dubious pharmacies) 個人經驗 (例：曾經去過懷疑商舖)
* Report cases of quarantine violations 舉報違反家居檢疫令的人士
* Other (please specify) 其他 (請補充): \_\_\_\_\_
* None of the above 以上皆非

1. What reasons would make you hesitant to provide information? (Please select all that apply) 什麼原因會讓你更加**不願意**提供個人資料？(請選擇所有適合的選項)

* I want to protect my own privacy 我想保護我的私隱
* I want to protect the privacy of others 我想保護其他人的私隱
* I do not want the government to access my data 我不想政府存取我的資料
* I do not want to be stigmatized for my actions 我不想因為我的行為而收到侮辱
* I am worried about my personal data being leaked 我擔心我的個人資料會被泄漏出去
* Other (please specify) 其他 (請補充): \_\_\_\_\_
* None of the above 以上皆非

1. What are reasons you **would** be more willing to provide information? 什麼原因會讓你更加**願意**提供個人資料？(請選擇所有適合的選項)

* If the number of COVID-19 cases in Hong Kong were much higher 若果香港有更多2019冠狀病毒病例
* If the data were decentralized 若果數據儲存去中心化
* If the data were not collected by the government 若果政府不會存取我的資料
* If the data were deleted from the system after a period of time 如果過了一段時間之後會把個人資料刪除
* Other (please specify) 其他 (請補充): \_\_\_\_\_
* None of the above 以上皆非

1. What is your age range? 你的年齡介乎\_\_\_\_。

* 18-24 18至24歲
* 25-34 25至34歲
* 35-44 35至44歲
* 45-54 45至54歲
* 55+ 55歲或以上
* Prefer not to answer 不想回答

1. What is your gender? 你的性別是什麼？

* Female 女
* Male 男
* Non-binary or third gender 非二元或第三性別
* Prefer not to answer 不想回答

1. What is the highest level of education you have received? 你的教育程度是什麼？

* Secondary education or less 高中畢業或以下
* Advanced diploma, Associate degree, etc. 高等文憑、副學士等等
* Bachelor’s degree or higher 學士或以上
* Prefer not to answer 不想回答

1. Would you be willing to participate in a phone interview for this research project?  
   請問你願意接受關於這項研究的電話訪問嗎？

* Yes 願意
* No 不願意
* Did not answer the question

If the respondent answered “Yes”:

17a. Please provide your email address or phone number so that the interviewer may be able to contact you. 請提供你的電郵地址或者電話號碼，訪問者稍後會聯絡你。謝謝。

**S2. List of dashboards in Fig. 8 in alphabetical order**

* Coronavirus (COVID-19) Cases and Vaccinations (London): https://data.london.gov.uk/dataset/coronavirus--covid-19--cases
* Coronavirus (COVID-19) Dashboard (Cape Town): https://resource.capetown.gov.za/documentcentre/Documents/City%20research%20reports%20and%20review/CCT-Weekly-COVID19-Dashboard.pdf
* COVID-19: Data (New York City): https://www1.nyc.gov/site/doh/covid/covid-19-data-trends.page
* COVID-19: Status of Cases in Toronto: <https://www.toronto.ca/home/covid-19/covid-19-latest-city-of-toronto-news/covid-19-status-of-cases-in-toronto/>
* COVID-19 Information Website (Tokyo): <https://stopcovid19.metro.tokyo.lg.jp/en>
* Daily COVID-19 dashboard (Newcastle): <https://www.newcastle.gov.uk/services/public-health-wellbeing-and-leisure/public-health-services/coronavirus-covid-19/daily>
* Dashboard of the COVID-19 Virus Outbreak in Singapore: https://co.vid19.sg/singapore/dashboard
* Established corona infections (Amsterdam) (Dutch): <https://www.amsterdam.nl/nieuws/nieuwsoverzicht/coronabesmettingen-stadsdelen/>
* Fast Track Cities (multiple): https://www.fast-trackcities.org/dashboards
* Latest Situation of Novel Coronavirus in Hong Kong: <https://chp-dashboard.geodata.gov.hk/covid-19/en.html>
* Occurrence trend: Seoul City (Korean): https://www.seoul.go.kr/coronaV/coronaStatus.do
* Tracking Every Coronavirus Case in Toronto (MAP) (has not been updated since September 4, 2020): <https://torontostoreys.com/toronto-coronavirus-map/>