

Privacy in a Time of Pandemic



Venice, California

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Competing Values



Mumbai, India

A Global Spectrum

More Restrictive (6)	Neutral (24)	Less Restrictive (24)	
Belgium	Argentina	Croatia	Ireland
Luxembourg	Hungary	Norway	Spain
Estonia	Australia	Czech Republic	Israel
Netherlands	Iceland	Portugal	Switzerland
France	Austria	Finland	Italy
Peru	Jersey	Slovakia	United Kingdom
	Bulgaria	Germany	Japan
	Malta	Slovenia	United States
	Canada	Gibraltar	Latvia
	Mexico	Sweden	UAE
	Cayman Islands	Greece	Lithuania
	New Zealand	Turkey	Uruguay
Common elements	Common elements	Common elements	
<ul style="list-style-type: none"> No systematic or generalized data collection (e.g., mandatory temperature readings and medical questionnaires) Identity of employees affected must be kept confidential Sensitive data of a patient can only be disclosed / revealed with consent. 	<ul style="list-style-type: none"> Personal information collected for COVID-19 prevention may be used only for these purposes and should be deleted after the end of the pandemic Processing is permissible if necessary to protect the vital interests of the data subject or third parties (the general public) Processing must be proportional, adequate, relevant and limited to minimum necessary Disclosure of a patient name requires consent unless permissible by data protection laws 	<ul style="list-style-type: none"> Employers can collect and disclose travel, symptom, interaction information (and confirmed cases) in accordance with the anti-contagion safety protocols Personal data can be collected, used and disclosed without consent to carry out contact tracing and other response measures Recorded images can be processed and exchanged among data controllers and law enforcement institutions 	

No Perfect Balance



Valencia, Spain

Three Principles

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2. Define the basic civil rights guarantees that should hold even if privacy is weakened
3. Heavily restrict how they use any information collected during a crisis

Legislating COVID



Dallas, Texas

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- HHS stated that all civil liberties, especially regarding age, disability, and minority status, should be still be honored and not impact treatment

Breaking the Rules



Gaza City



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- Lifting of penalties for violations of Privacy, Security, and Breach Notification Rules that occur in good-faith provisioning of telehealth
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- Physicians are banned from using public-facing communications but allowed to use non-public-facing apps and texting platforms

Emerging Laws



Houston, Texas

GOOD



BETTER



BEST



CCDPA

ENPA

PHEPA

Covid Data Uses

Ways forward

Data tools for the covid-19 pandemic

Application	Purpose	Data source	Civil liberties risk	Where it's happening
Quarantine enforcement	Knowing people are where they should be	GPS data sent from bracelet or phone	Medium	Hong Kong, Taiwan, Singapore, China
Contact tracing	Knowing whose paths have crossed	Top down: Government takes data from platforms	High	Singapore, S. Korea
		Bottom up: Phones provide data to each other	Low	Worldwide
Flow modelling	Knowing how many people pass through places, and how quickly	Mobile-phone-tower data	Low	Google, US, probably more
Social-graph making	Knowing which people tend to meet repeatedly	Mobile-phone-tower data with machine learning	High	Nowhere known

Source: *The Economist*



Contact Tracing

Porto, Portugal

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Traditional

- Manual human effort
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Digital

- Requires connected on-person devices, CCTV, biometric sensors, or other tracking technology
- Generates broad “dragnet” datasets
- Needs participation across 60-75% of populace

Tracing Apps

-MAPA-



Virginia's COVIDWISE



Consent and Control



We analysed 47 contact tracing apps in 28 countries in detail and found that many put users' privacy at risk.

- 25 apps (53%) do not disclose how long they will store users' data for
- 28 apps (60%) have no publicly stated anonymity measures
- 24 apps (51%) contain Google and Facebook tracking
- 9 apps contain Google AdSense trackers
- 11 apps contain Google conversion tracking and re-marketing code
- 7 apps include code from Facebook

-TOP10VPN COVID-19 Digital Rights Tracker

Geolocation and Proximity Data



Data Anonymization



...has history ever shown that once the government has surveillance tools, it will maintain modesty and caution when using them?

-Hu Yong, Professor at Peking University's School of Journalism and Communication



Total Information Awareness



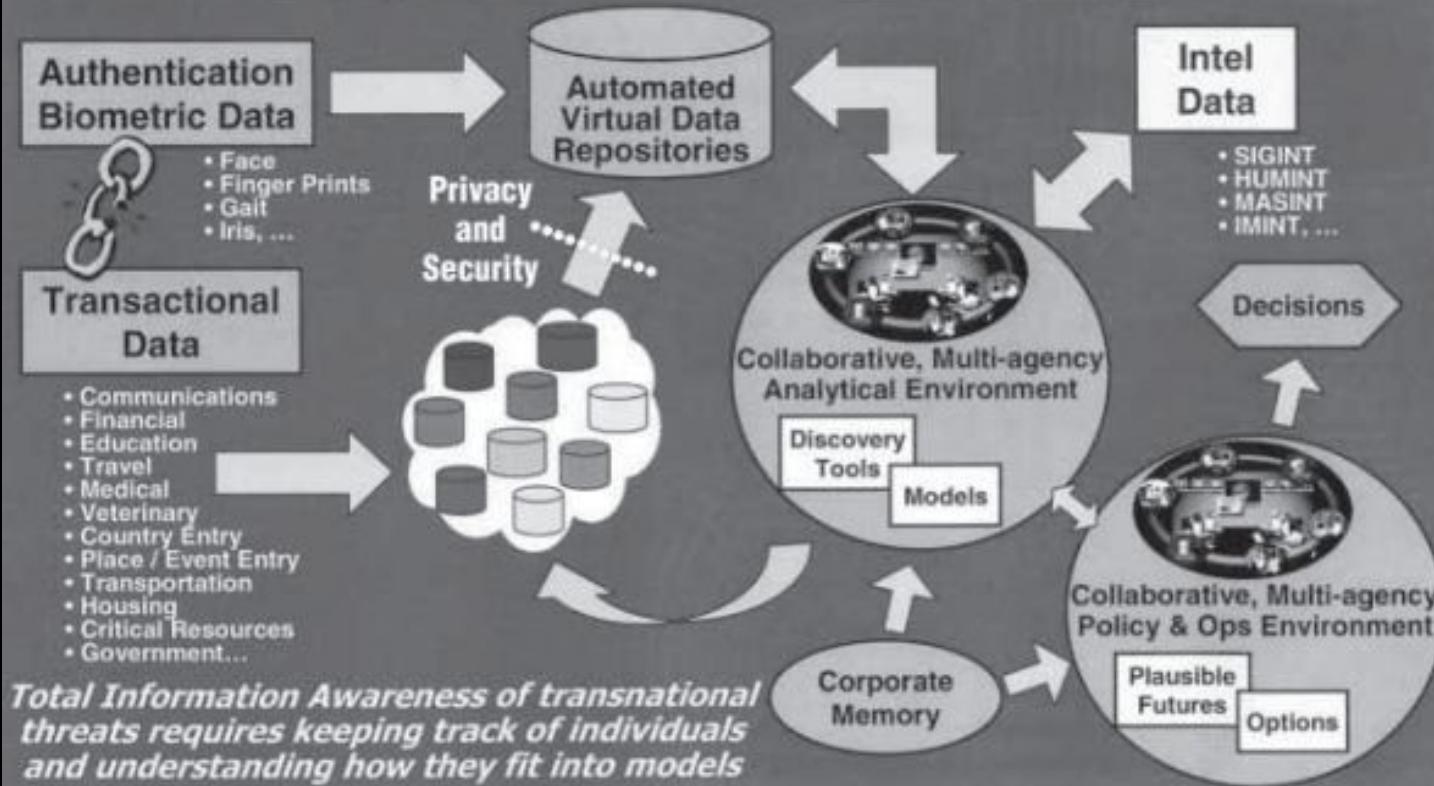
Weston-super-Mare, England



TIA System



Detect ➡ Classify ➡ ID ➡ Track ➡ Understand ➡ Preempt



...a new and deadly virus has emerged. The virus is terrorism whose intent to inflict destruction is unconstrained by human feeling...

-Tony Blair, 2003



History Repeats



New York City, New York



What's Next?

Cult
FUNKY COOK

Mexico City, Mexico

Developing Topics

- Drone surveillance for elevated temperatures and social distancing
- Immunity passports or verified credentials of test results
- Facial recognition, gait, and thermal image surveillance
- Remote body temperature sensors
- Ankle and wrist devices for location tracking
- Geo-located selfies to prove quarantine compliance
- Tracking of user density by devices in one area
- Crisis response technology and surveillance becoming permanent
- Censorship of press and citizens' freedom of expression
- Federal government seizure of mobile telecommunications data
- Predictive infection risk assessments from purchase history and search queries

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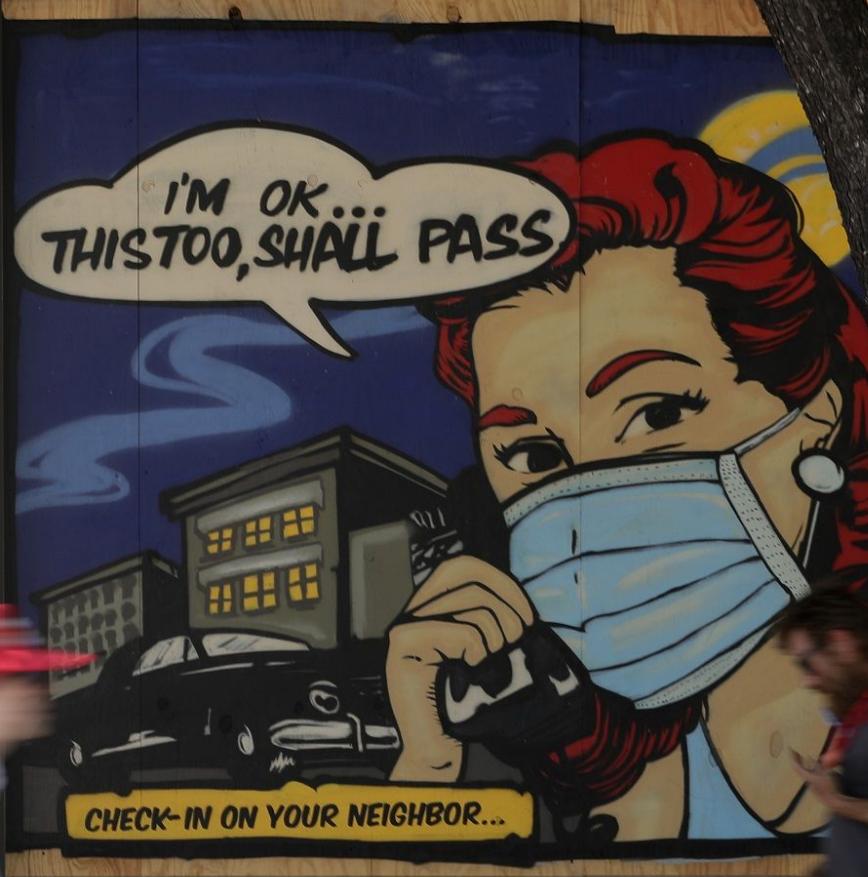
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- Research apps carefully before installing them and sharing data

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- Express your views on pending legislation to your representative
- Donate to privacy-protecting organizations like the EFF and ACLU
- Understand your legal privacy rights for health and online data
- Research apps carefully before installing them and sharing data
- Don't panic: some data sharing is necessary to fight the pandemic

What Can I Do?

- Vote
- Express your views on pending legislation to your representative
- Donate to privacy-protecting organizations like the EFF and ACLU
- Understand your legal privacy rights for health and online data
- Research apps carefully before installing them and sharing data
- Don't panic -- some data is necessary to fight the pandemic
- Weigh the value of your private rights against the public good



Austin, Texas

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Q & A



Los Angeles, California

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