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HDMA
@SDSU

THE CENTER FOR
HUMAN DYNAMICS
IN THE MOBILE AGE



METABOLISM
OF CITIES



The Outbreak of Covid-19 in Italy: Fighting the Pandemic

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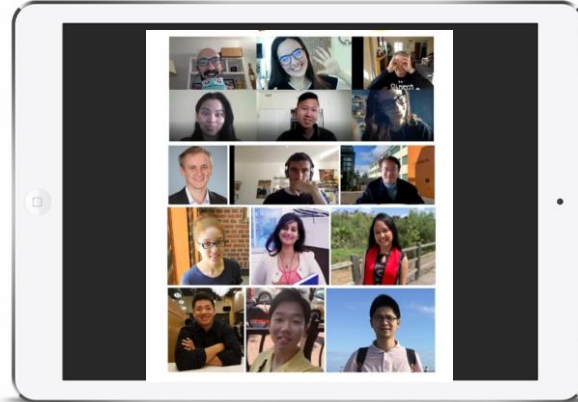
Carol Maione, Politecnico di Milano, Department of Management, Economics and Industrial Engineering, Milan, Italy, carol.maione@polimi.it

San Diego State University,
Geography 590, Department of Geography, San Diego, California, USA
August 24, 2020

International Team on Covid-19 HDMA@SDSU



- Weekly Zoom Meetings
- PI: Dr. Gabriela Fernandez,
- Co-PI: Dr. Ming-Hsiang Tsou, and Intl. Co-PI: Carol Maione.
- Interdisciplinary Professionals from: Italy, Spain, Malta, New York, San Diego, London, Taiwan, Philippines, Korea, Australia and more.



Taking Action! Towards fighting Covid-19!



POLITECNICO MILANO 1863

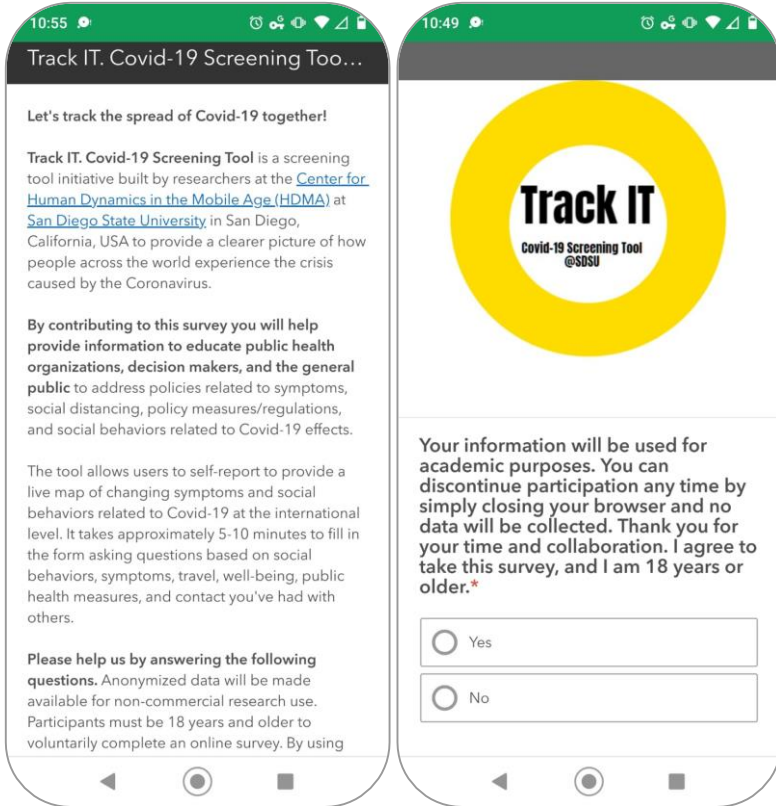


SAN DIEGO STATE UNIVERSITY



Track IT. Covid-19 Screening Tool @ SDSU

Tracking the outbreak of Covid-19 around the world: Fighting the Pandemic



10:55 Track IT. Covid-19 Screening Too...

Let's track the spread of Covid-19 together!

Track IT. Covid-19 Screening Tool is a screening tool initiative built by researchers at the [Center for Human Dynamics in the Mobile Age \(HDMA\)](#) at [San Diego State University](#) in San Diego, California, USA to provide a clearer picture of how people across the world experience the crisis caused by the Coronavirus.

By contributing to this survey you will help provide information to educate public health organizations, decision makers, and the general public to address policies related to symptoms, social distancing, policy measures/regulations, and social behaviors related to Covid-19 effects.

The tool allows users to self-report to provide a live map of changing symptoms and social behaviors related to Covid-19 at the international level. It takes approximately 5-10 minutes to fill in the form asking questions based on social behaviors, symptoms, travel, well-being, public health measures, and contact you've had with others.

Please help us by answering the following questions. Anonymized data will be made available for non-commercial research use. Participants must be 18 years and older to voluntarily complete an online survey. By using

10:49

Track IT
Covid-19 Screening Tool
@SDSU

Your information will be used for academic purposes. You can discontinue participation any time by simply closing your browser and no data will be collected. Thank you for your time and collaboration. I agree to take this survey, and I am 18 years or older.*

Yes

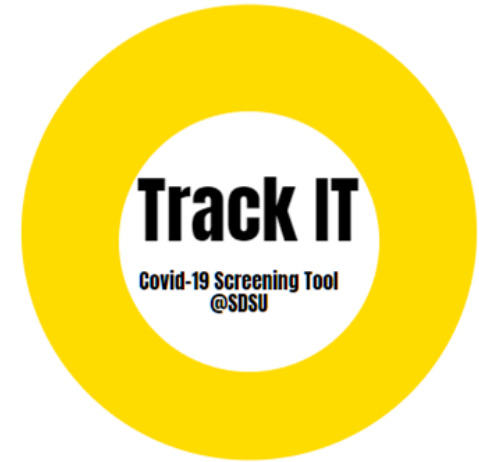
No

Help us track Covid-19!



Preliminary findings

Track IT. Covid-19 Screening Survey Tool @ SDSU



Take a picture of the QR Code to take the survey!

Preliminary findings:

- 207 participants from across the world
- International survey: <https://arcg.is/1jCXqy>
- Duration: 5-10 minute
- Covid-19 effects, behaviors, well-being, health, policy, trust, socio-economic and more.



Track IT. Covid-19 Screening Tool @ SDSU

10:54

Do you think your government launched the emergency response measures at the right time?

Yes

Too late

Too early

I prefer not to answer

To which extent do the following statement apply to you right now?

	Does not apply at all	Somewhat does not apply	Neither applies nor does not apply
I am nervous when I think about current circumstances	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am calm and	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

10:53

How factually truthful do you think your country's government has been about the coronavirus outbreak?

Very untruthful

Somewhat untruthful

Neither truthful nor untruthful

Somewhat truthful

Very truthful

I prefer not to answer

What do you think: How effective are social distancing measures in your community (e.g., through a general curfew) to slow down the spread of the coronavirus?

Not at all effective

Not effective

10:53

Do you think the reaction of your local government to the current coronavirus outbreak is appropriate, too extreme, or not sufficient?

The reaction is much too extreme

The reaction is somewhat too extreme

The reaction is appropriate

The reaction is somewhat insufficient

The reaction is not at all sufficient

I prefer not to say

How much do you trust your local government to take care of its citizens?

Strongly distrust

Somewhat distrust

Neither trust nor distrust

10:54

Which social media application do you use most often to discuss topics about Covid-19?
(Select all that apply)

Facebook

Twitter

TikTok

Snapchat

Instagram

LinkedIn

Reddit

Tumblr

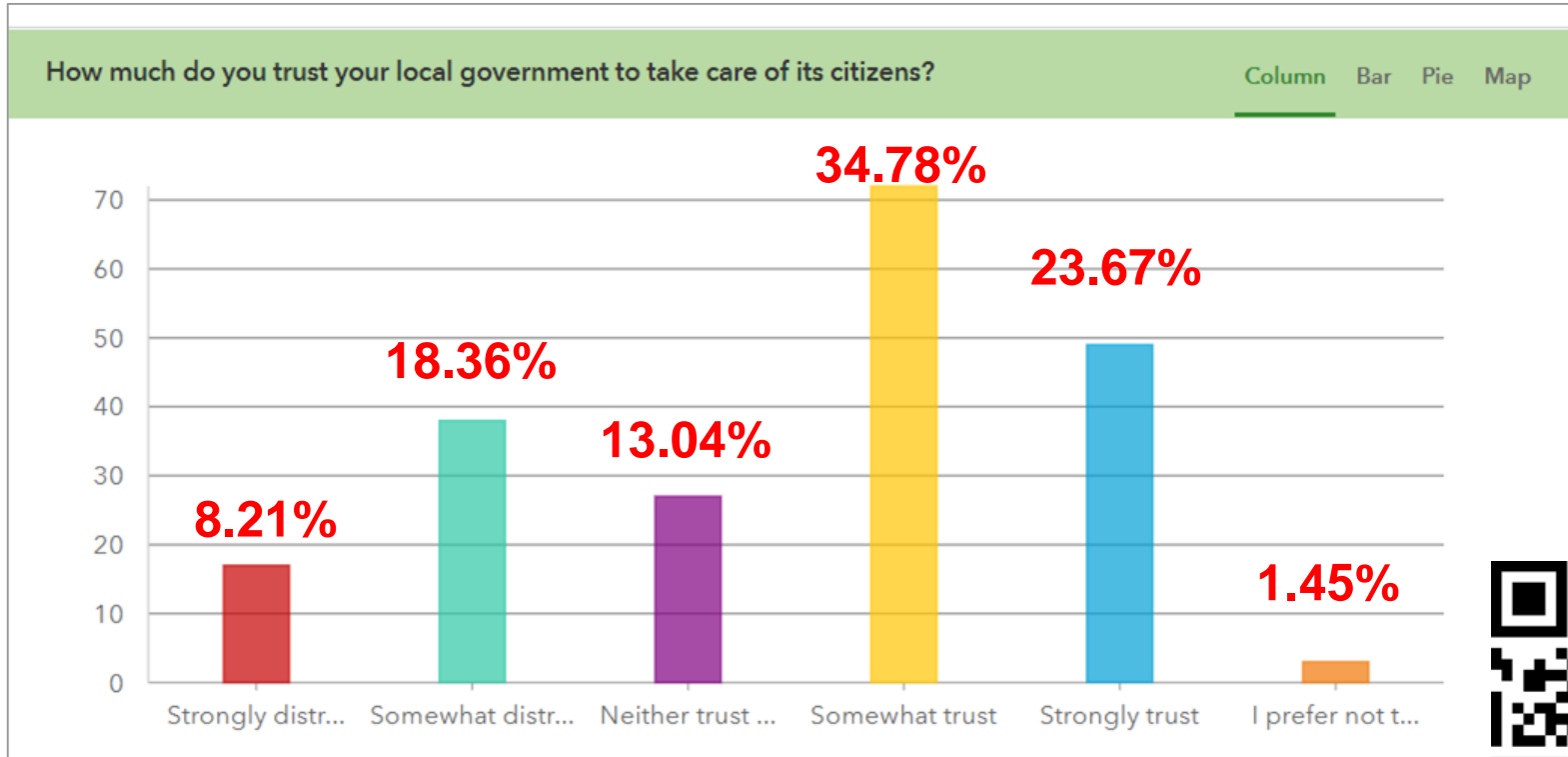
Sina Weibo

WeChat

WhatsApp



Track IT. Covid-19 Screening Tool @ SDSU



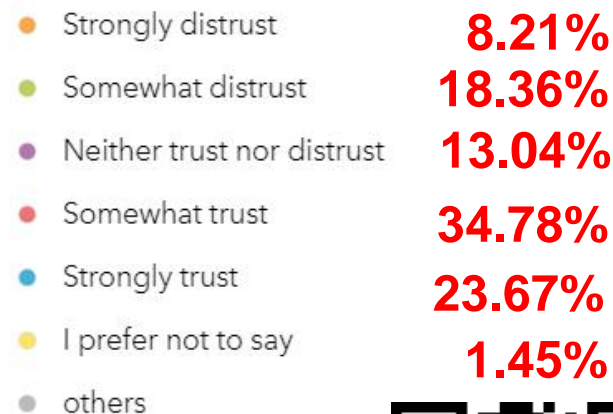
Track IT. Covid-19 Screening Tool @ SDSU

How much do you trust your local government to take care of its citizens?

Column Bar Pie Map



Legend



Well-being, health, behaviors, mobility, and more

Track IT. Covid-19 Screening Tool @ SDSU

The image displays five sequential screenshots of a mobile application used for Covid-19 screening. Each screen shows a different section of the questionnaire.

Screen 1 (10:51): "How healthy are you?" with radio button options: Poor, Fair, Good, Excellent. Below it, "Do you wear a mask when you go outside recently?" with radio button options: Yes, No, Sometimes, No, because I did not have any. I will if have., I prefer not to answer.

Screen 2 (10:52): "Do you know someone in your community who is sick (fever, along with cough, shortness of breath, or difficulty breathing) right now?" with radio button options: Yes, No, Not sure. Below it, "Are you experiencing any of the following signs and symptoms?" with a table for symptoms: Fever (high temperature), Cough, Shortness of breath. Each symptom has radio buttons for Yes, No, and Not sure.

	Yes	No	Not sure
Fever (high temperature)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cough	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shortness of breath	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Screen 3 (10:53): "To what extent do the following statements describe your behavior for the past week?" with a 5-point scale (1-5). Below it, a table for behavior statements: "I stayed at home", "I did not attend social gatherings", "I kept a distance of at least two meters to other people around me.", "I washed my hands more frequently than the month". Each statement has radio buttons for 1, 2, 3, 4, and 5.

	1	2	3	4	5
I stayed at home	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I did not attend social gatherings	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I kept a distance of at least two meters to other people around me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I washed my hands more frequently than the month	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Screen 4 (10:52): "Do you have any of the following pre-existing illnesses?" with a list of checkboxes: Cardiovascular disease, Diabetes, Chronic respiratory disease, None, Immune deficiency disease, Prefer not to say, Hepatitis B, Chronic kidney disease, Cancer, Other.

Screen 5 (10:50): "Did you recently relocate to your current place because you felt the current place has lower risk of exposure to Covid-19?" with a dropdown menu. Below it, "What is the motive to leave your home?" with a list of checkboxes: Grocery shopping, Pharmacy, Doctor, Hospital, Personal protective masks, scarves, mouth/nose coverings, Work-related, Exercise.



Monitoring Social Media Tweets during Covid: Sentiment Analysis for 10 Italian metropolitan cities

Exploring Sentiments, Covid-19 Cases, and Deaths

Preliminary findings:

North

- **Milan** ←
- Venice
- Turin
- Bologna

Central

- Florence
- Rome

South

- Naples
- Bari

Islands

- Palermo
- Cagliari

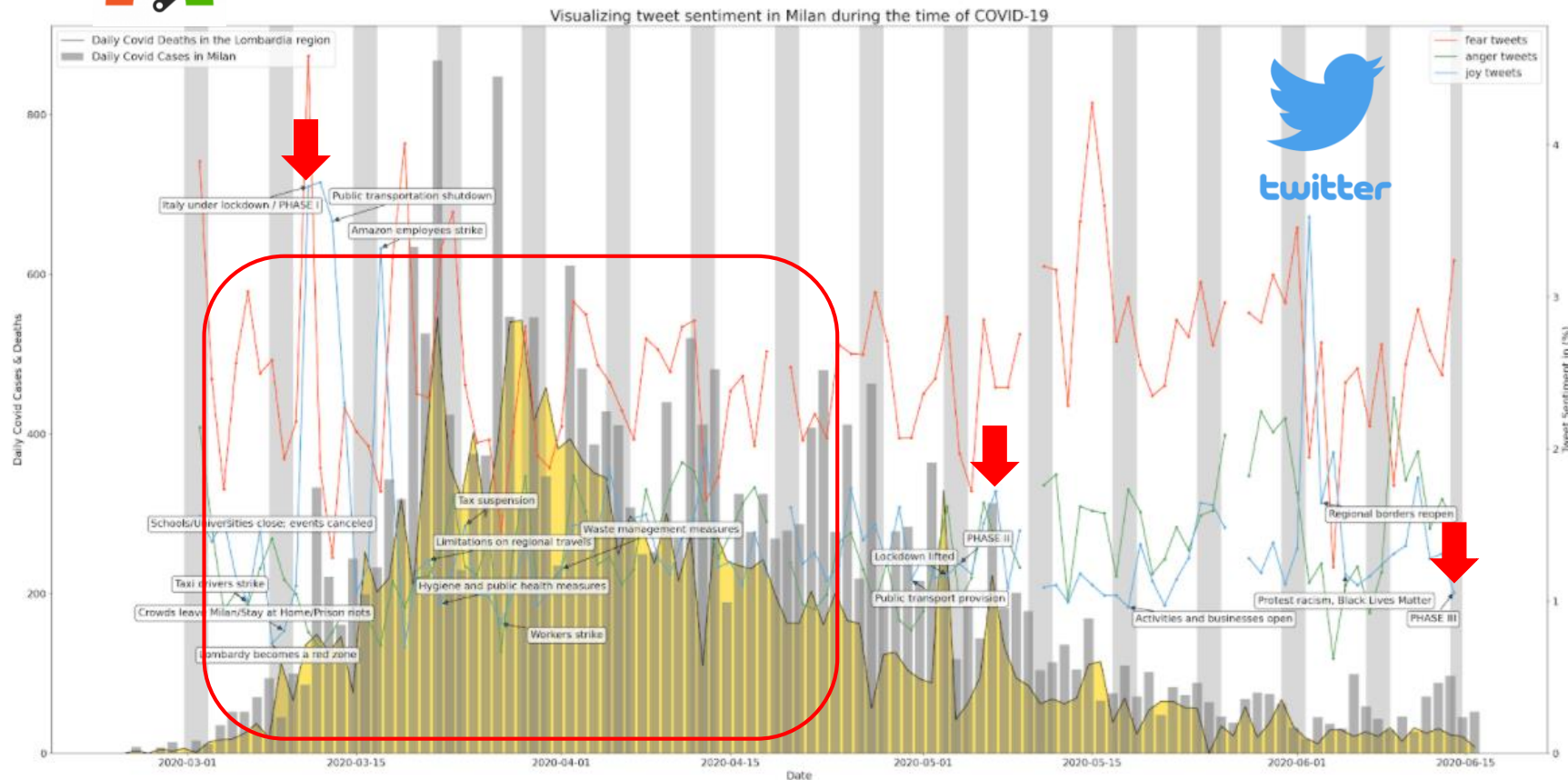


Over 4 million Tweets!



Phase 0 Phase I Phase II Phase III

Monitoring Milan's sentiments during Covid-19

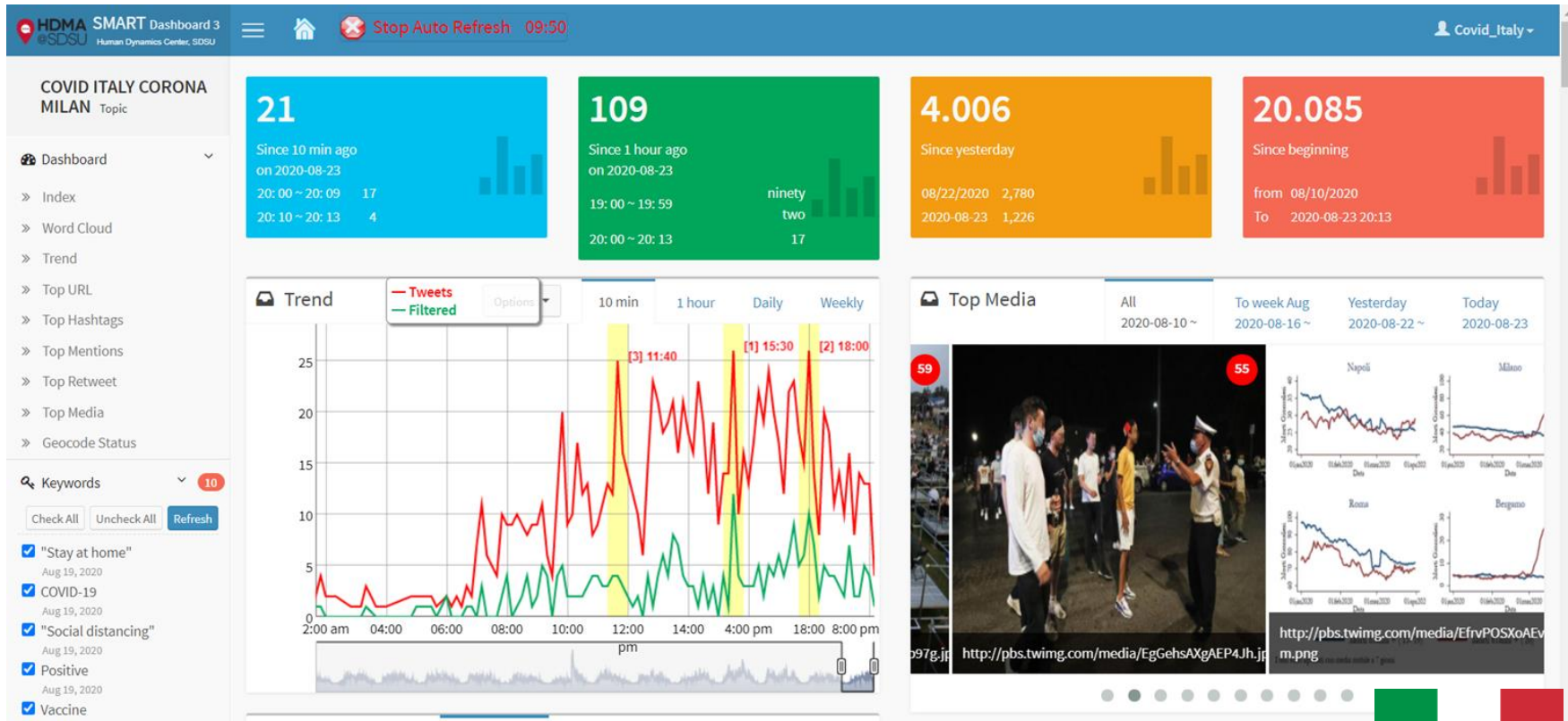


Smart Social Media Dashboard: 10 Italian Metropolitan Cities



Type	Metropolitan city	Region	Area (km ²)	Population (n)
North	Milan	Lombardy	1,575	3,190,340
West	Turin	Piedmont	6,829	2,293,340
North East	Venice	Veneto	2,462	858,455
	Bologna	Emilia Romagna	3,702	1,005,831
Central	Florence	Tuscany	3,514	1,007,435
	Rome	Lazio	5,352	4,336,915
South	Naples	Campania	1,171	3,128,702
	Bari	Apulia	3,821	1,251,004
Islands	Cagliari	Sardinia	1,248	431,302
	Palermo	Sicily	5,009	1,276,525

Smart Social Media Dashboard: Milan, Italy



Word Cloud

All
2020-08-10 ~

To week Aug
2020-08-16 ~

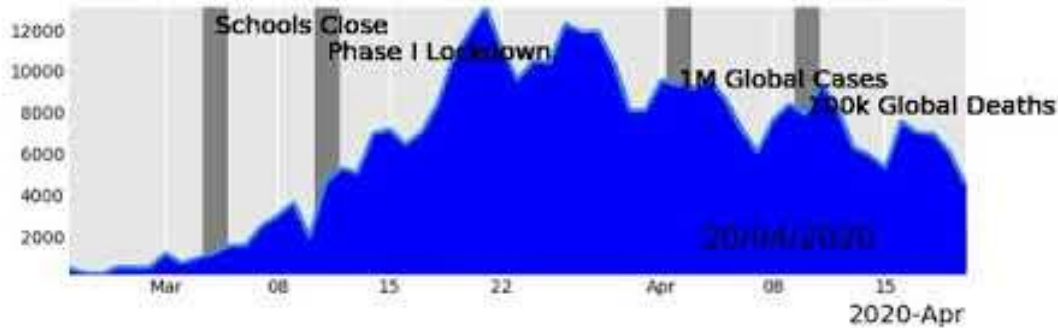
Yesterday
2020-08-22 ~

Today
2020-08-23



Covid-19 Confirmed Cases: Italy's Animated Statistics Over Time

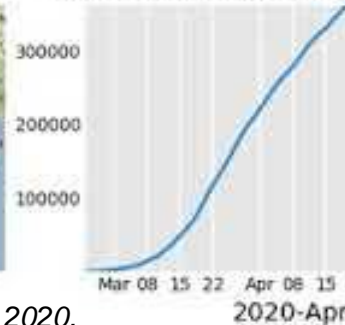
Italy COVID-19 Confirmed Cases up to 27/05/2020



Cases by Region



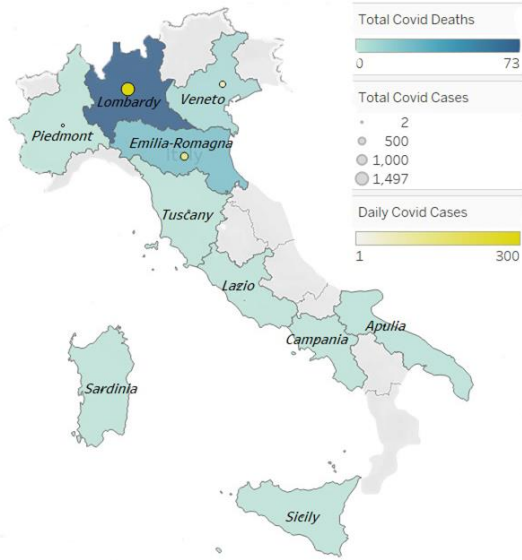
Cumulative Total Cases



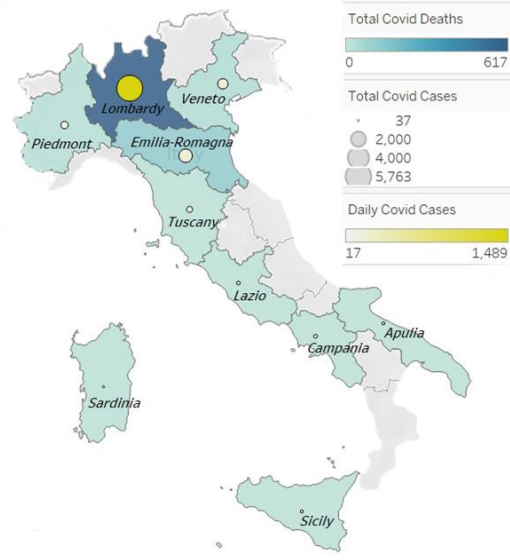
The Start of Covid-19 in Italy



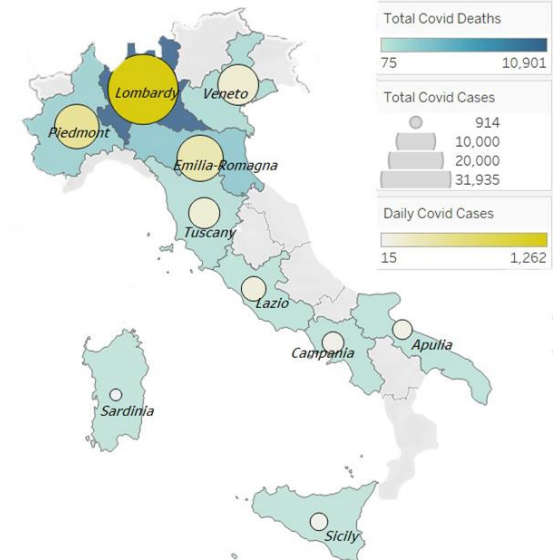
Timeline of Covid-19 spread



Phase 0 - March 4th
Code Red in the North



Phase 1 - March 11th
National lockdown



Phase 1 - April 13th
Phase 2 announced

Phase 0: the effects of Covid based on geography

Data as of March 4, 2020: Closure of activities and cancellation of mass events

	Daily Covid cases	Total Covid cases	Daily Covid deaths	Total Covid deaths	Hospitalized with symptoms	Intensive care	Home isolation
Lombardy (North-West)	300	1,497	18	73	877	209	411
Piedmont (North-West)	26	82	0	0	26	13	43
Veneto (North-East)	53	345	3	6	76	23	246
Emilia Romagna (North-East)	124	516	3	22	256	26	234
Tuscany (Central)	19	37	0	0	15	2	20
Lazio (Central)	16	27	0	0	15	3	9
Campania (South)	1	31	0	0	11	0	20
Apulia (South)	3	7	1	1	4	0	3
Sardinia (Islands)	1	2	0	0	1	0	1
Sicily (Islands)	11	16	0	0	5	0	11

Phase 1.1: the effects of Covid based on geography

Data as of March 11, 2020: Beginning of lockdown

	Daily Covid cases	Total Covid cases	Daily Covid deaths	Total Covid deaths	Hospitalized with symptoms	Intensive care	Home isolation
Lombardy (North-West)	1,489	5,763	149	617	3,852	560	1,351
Piedmont (North-West)	48	480	4	21	319	75	86
Veneto (North-East)	167	940	3	29	262	68	610
Emilia Romagna (North-East)	206	1,588	28	113	745	104	739
Tuscany (Central)	56	314	0	1	87	54	173
Lazio (Central)	34	125	0	6	67	18	40
Campania (South)	27	149	1	1	56	11	82
Apulia (South)	18	71	2	5	38	4	29
Sardinia (Islands)	17	37	0	0	10	0	27
Sicily (Islands)	21	81	0	0	23	1	57

Phase 1.2: the effects of Covid based on geography

Data as of April 13, 2020: Announcement of Phase 2

	Daily Covid cases	Total Covid cases	Daily Covid deaths	Total Covid deaths	Hospitalized with symptoms	Intensive care	Home isolation
Lombardy (North-West)	1,262	31,935	280	10,901	12,028	1,143	18,764
Piedmont (North-West)	474	12,765	97	1,826	3,344	379	9,042
Veneto (North-East)	174	10,766	26	882	1,427	245	9,094
Emilia Romagna (North-East)	342	13,818	51	2,615	3,490	331	9,997
Tuscany (Central)	155	6,257	23	518	992	225	5,040
Lazio (Central)	123	3,920	5	284	1,314	200	2,406
Campania (South)	66	3,062	6	248	606	80	2,376
Apulia (South)	76	2,512	7	267	600	71	1,841
Sardinia (Islands)	15	914	2	75	107	27	780
Sicily (Islands)	42	2,050	8	171	554	51	1,445

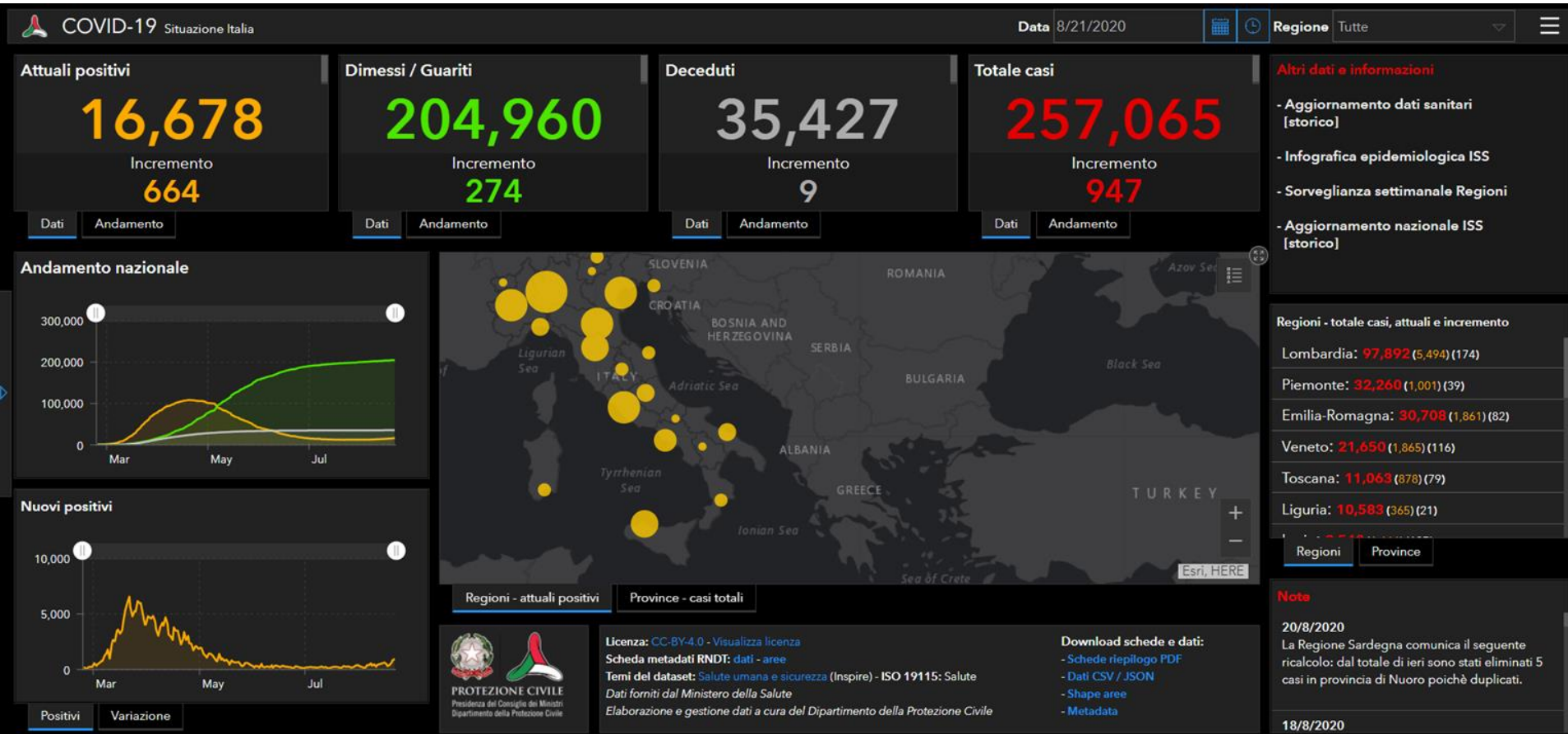
Red Zones (Northern Italy)



- Lodi, Lombardy (Patient Zero)
- Venice (First Death: Feb 21, 2020, (78 year old))
- Bergamo
- Brescia
- Milan



Italy Open Data Dashboard (Protezione Civile, 2020)





Prime minister Giuseppe Conte orders closure of all schools, major events, and sporting events due to Covid-19 (March 4, 2020)



Venice, Veneto



Bergamo, Lombardy



Bergamo, Lombardy



Claudio Furlan, La Presse via AP, 2020, Bergamo, Italy (Lombardy)

Clinicians and Nurses Paid a Very High Price in Italy



Paolo Miranda, 2020, Cremona, Italy (Lombardy)

Ghost Towns across Italy



Rome, Italy (Lazio): Before



Rome, Italy (Lazio): After



Milan, Italy (Lombardy)

Policy Decree: #Stay at home, “#lo resto a casa”



Leaving home is only allowed to under-65 y.o. for essential activities.



Masks are mandatory in all public spaces and gloves are mandatory on public transports and in grocery stores.



All travels are suspended and public transport are reduced to minimum activity.



Education at all levels goes online.



Work goes online where possible; many workers are laid off or on forced-vacation.



Goods movement between the mainland and islands is disrupted.

Lockdown: Essential vs. Non-Essential Activities



Where:

- Grocery stores & food-related.
- Hospitals and pharmacies.
- Post offices, banks, and insurance companies.
- Production activities.
- Work places.*

Who:

- People under 65 years old

How:

- Auto certificate.
- Policy approval.
- Employer approval.

Lockdown: Tracking Movement Form

Il sottoscritto _____, nato il _____ a _____, residente in _____, via _____, identificato a mezzo _____ nr. _____ utenza telefonica _____, consapevole delle conseguenze penali previste in caso di dichiarazioni mendaci a pubblico ufficiale (art 495 c.p.)

DICHIARA SOTTO LA PROPRIA RESPONSABILITÀ

➤ Di essere a **conoscenza delle misure di contenimento del contagio** di cui all'art. 1, comma 1, del Decreto del Presidente del Consiglio dei Ministri del 9 marzo 2020 concernenti **lo spostamento delle persone fisiche all'interno di tutto il territorio nazionale, nonché delle sanzioni previste dall'art. 4, comma 1, del Decreto del Presidente del Consiglio dei Ministri dell' 8 marzo 2020 in caso di inottemperanza** (art. 650 C.P. salvo che il fatto non costituisca più grave reato);

➤ Che lo spostamento è determinato da:

- o comprovate esigenze lavorative;
- o situazioni di necessità;
- o motivi di salute;
- o rientro presso il proprio domicilio, abitazione o residenza.

A questo riguardo, dichiara che _____
(LAVORO PRESSO... STO RIENTRANDO AL MIO DOMICILIO SITO IN..... DEVO EFFETTUARE UNA VISITA MEDICA... ALTRI MOTIVI PARTICOLARI.ETC...)

Data, ora e luogo

Firma del dichiarante

- I am aware of the containment measures.
- My transfer concerns: work necessity; basic needs; health problems; home transfer.

AUTODICHIARAZIONE AI SENSI DEGLI ARTT. 46 E 47 D.P.R. N. 445/2000

Il sottoscritto _____, nato il _____ a _____, residente in _____, via _____, e domiciliato in _____, via _____, identificato a mezzo _____ nr. _____ rilasciato da _____ in data _____, utenza telefonica _____, consapevole delle conseguenze penali previste in caso di dichiarazioni mendaci a pubblico ufficiale (art. 495 c.p.)

DICHIARA SOTTO LA PROPRIA RESPONSABILITÀ

- **di non essere sottoposto alla misura della quarantena ovvero di non essere risultato positivo al COVID-19** (fatti salvi gli spostamenti disposti dalle Autorità sanitarie);
- che lo spostamento è iniziato da _____; (indicare l'indirizzo da cui è iniziato) con destinazione _____;
- **di essere a conoscenza delle misure di contenimento del contagio vigenti alla data odierna ed adottate ai sensi degli artt. 1 e 2 del decreto legge 25 marzo 2020, n. 19, concernenti le limitazioni alle possibilità di spostamento delle persone fisiche all'interno di tutto il territorio nazionale;**
- **di essere a conoscenza delle ulteriori limitazioni disposte con provvedimenti del Presidente della Regione _____ (indicare la Regione di partenza) e del Presidente della Regione _____ (indicare la Regione di arrivo) e che lo spostamento rientra in uno dei casi consentiti dai medesimi provvedimenti** (indicare quale);
- **di essere a conoscenza delle sanzioni previste dall'art. 4 del decreto legge 25 marzo 2020, n. 19;**
- che lo spostamento è determinato da:
 - o comprovate esigenze lavorative;
 - o assoluta urgenza ("per trasferimenti in comune diverso", come previsto dall'art. 1, comma 1, lettera b) del Decreto del Presidente del Consiglio dei Ministri 22 marzo 2020);
 - o situazione di necessità (per spostamenti all'interno dello stesso comune o che rivestono carattere di quotidianità o che, comunque, siano effettuati abitualmente in ragione della brevità delle distanze da percorrere);
 - o motivi di salute.

A questo riguardo, dichiara che _____ (lavoro presso ..., devo effettuare una visita medica, urgente assistenza a congiunti o a persone con disabilità, o esecuzioni di interventi assistenziali in favore di persone in grave stato di necessità, obblighi di affilamento di minori, denunce di reati, rientro dall'estero, altri motivi particolari, etc....)

Data, ora e luogo del controllo

Firma del dichiarante

L'Operatore di Polizia

- I am not quarantined or positive to COVID-19.
- I am aware of the containment measures.
- I am aware of any further restriction.
- My transfer concerns: work necessity; urgent situations; basic needs; health problems.

Lockdown: Tracking Movement



@ Stefano Guidi



Tracking devices:

- Drones.
- Sensors detecting people presence.
- Video Cameras.
- Mobile apps.

@ France 24



Immuni takes care of you

If you've been in contact with a user who has subsequently tested positive for the virus, Immuni notifies you and gives you instructions to protect your health and the health of your loved ones.

@ Immuni

Penalties:

- Fines (€ 400-3,000).
- Jail (up to 6 months).

Social Response & Solidarity

@ Xinhua/Cheng Tingting



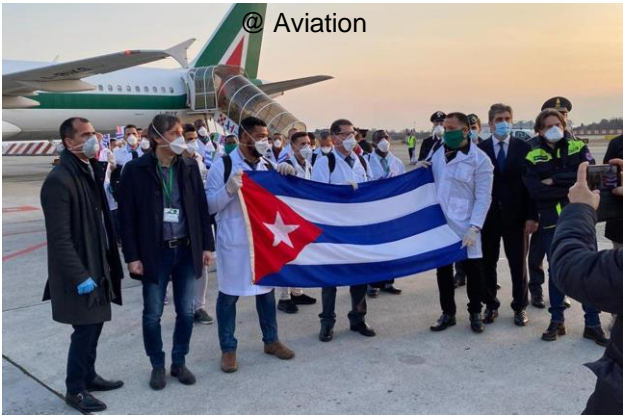
@ Wanted in Rome



@ CCTV News app



@ Aviation



Social Response & Solidarity



@ Malpensa 24



@ la Repubblica



@ L'Indro



@ Maurizio Fantoni Minnella

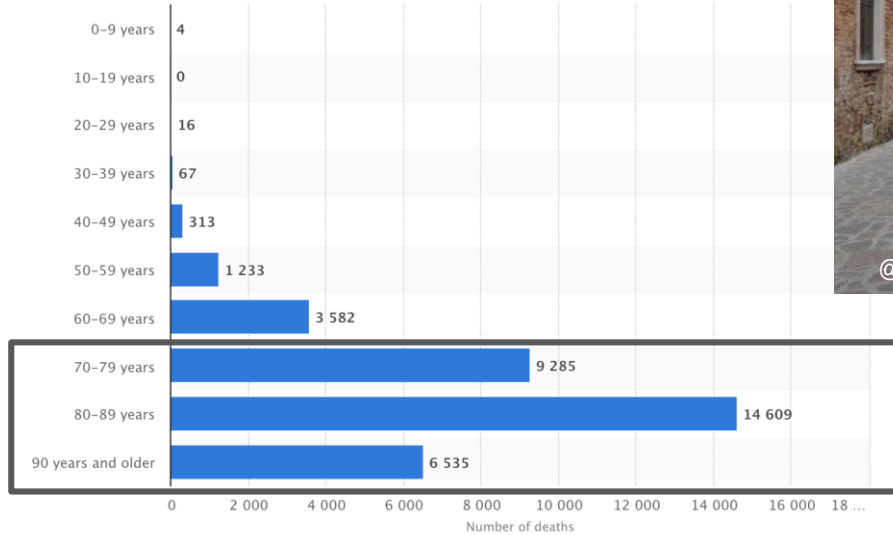


@ 055 Firenze



@ la Repubblica

Covid-19 victims: Who is the most affected?

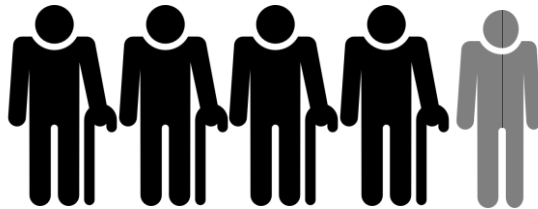


@ Manuel Silvestri/Reuters



@ il Mattino di Padova

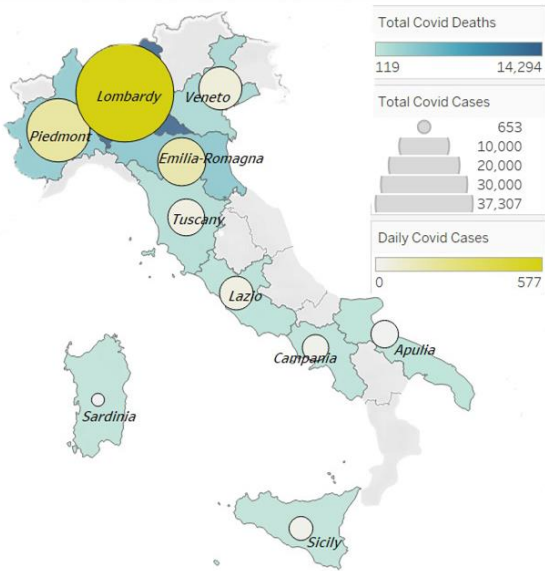
- **1/4 people are aged 65+.**
- **An entire generation is disappearing.**
- **Social and cultural identity.**
- **Insufficient access to technology and mass media.**
- **Isolation during emergencies.**
- **Elderly day centers situation.**
- **Saying goodbye to a loved one.**



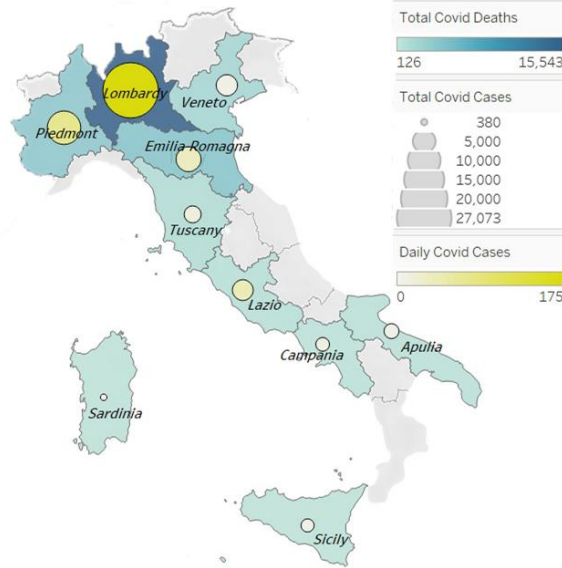
70+

@ Statista

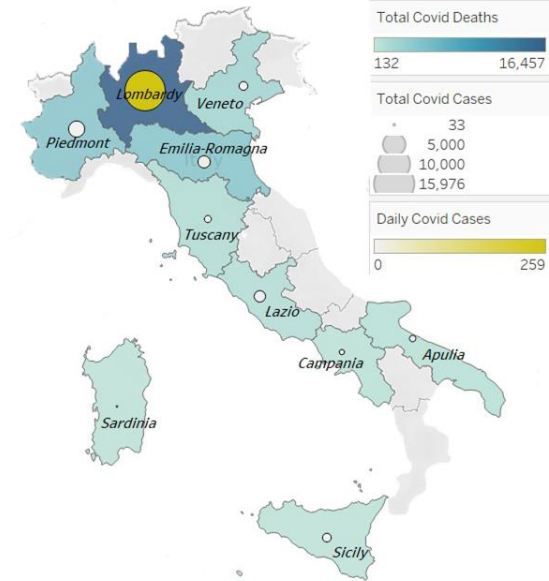
Timeline of Covid-19 spread



Phase 2 - May 4th
Lockdown lifted



Phase 2 - May 18th
New measures



Phase 3 - June 15th
Borders and activities opened

Phase 2.1: the effects of Covid based on geography

Data as of May 4, 2020: Containment measures are eased

	Daily Covid cases	Total Covid cases	Daily Covid deaths	Total Covid deaths	Hospitalized with symptoms	Intensive care	Home isolation
Lombardy (North-West)	577	37,307	63	14,294	6,414	532	30,361
Piedmont (North-West)	192	15,562	34	3,186	2,391	161	13,010
Veneto (North-East)	55	7,234	12	1,528	955	101	6,178
Emilia Romagna (North-East)	159	8,984	24	3,666	1,968	199	6,817
Tuscany (Central)	38	5,279	9	881	512	107	4,660
Lazio (Central)	38	4,385	16	524	1,335	95	2,955
Campania (South)	14	2,711	2	366	438	24	2,249
Apulia (South)	9	2,945	5	429	397	39	2,509
Sardinia (Islands)	0	653	0	119	91	9	533
Sicily (Islands)	15	2,202	2	244	376	27	1,799

Phase 2.2: the effects of Covid based on geography

Data as of May 18, 2020: Activities resume

	Daily Covid cases	Total Covid cases	Daily Covid deaths	Total Covid deaths	Hospitalized with symptoms	Intensive care	Home isolation
Lombardy (North-West)	175	27,073	24	15,543	4,482	252	22,339
Piedmont (North-West)	72	9,874	20	3,632	1,589	99	8,186
Veneto (North-East)	9	4,004	9	1,803	263	22	3,719
Emilia Romagna (North-East)	35	5,525	13	3,986	708	105	4,712
Tuscany (Central)	13	2,573	5	989	197	66	2,310
Lazio (Central)	39	3,826	6	628	1,137	73	2,616
Campania (South)	11	1,673	3	399	342	17	1,314
Apulia (South)	7	1,995	1	471	254	22	1,719
Sardinia (Islands)	0	380	1	126	72	10	298
Sicily (Islands)	7	1,539	0	267	137	13	1,389

Phase 3: the effects of Covid based on geography

Data as of June 15, 2020: All activities are resumed and national travel is allowed

	Daily Covid cases	Total Covid cases	Daily Covid deaths	Total Covid deaths	Hospitalized with symptoms	Intensive care	Home isolation
Lombardy (North-West)	259	15,976	8	16,457	2,018	94	13,864
Piedmont (North-West)	2	2,604	0	4,012	517	28	2,059
Veneto (North-East)	1	755	0	1,978	38	1	716
Emilia Romagna (North-East)	11	1,500	3	4,207	188	13	1,299
Tuscany (Central)	8	489	3	1,088	31	16	442
Lazio (Central)	3	1,292	3	811	304	37	951
Campania (South)	4	289	0	430	58	2	229
Apulia (South)	1	410	2	534	56	2	352
Sardinia (Islands)	0	33	0	132	12	0	21
Sicily (Islands)	1	805	1	280	30	4	771

Post-Lockdown: How life has changed



Leaving home is allowed if social distancing and no-gatherings are respected.



Masks are mandatory in indoor spaces, on public transport, and at night.



Travels are allowed across regions and across borders. International travelers are allowed based on origin.



Hybrid in-class and online education will be resumed from September.



In-office work resumes; some activities permanently shifts to online; many workers have lost their jobs.



Goods movement resumes.

Post-Lockdown: Mobility



LA SICUREZZA A BORDO DELLE NAVI
SAFETY ON BOARD OUR SHIPS

EVITA CONTATTI E AVVICINI
MANTIENITI ALLA DISTANZA DI ALMENO UN METRO

NON TOCCARE
OGGETTI SOCIALI, MANiglie, BARRI E BARRI ALLEGORIA

EVITA LUOGHI APERTI

ALLO SCALFO LE RACCOMANDAZIONI PER CONTENERE IL CONTATTO DA CONDIVIDERE

EVITA LE ATTIVITÀ DI PRIMO E DI AMBRACCIO
FINO A QUANDO NON SIA EMERGENZA SARÀ PRIMA

COPRI BOCCHA E NASO CON TACCOLETTI, FASCIOLETTI, MASCHE
TERMINI AL SUPERMERCATO E LA PRIMA DEL SORTEO

DEI NOSTRI SEMPLI ALL'INIZIA UNICA RESTA A CASA
NON RICORRI AL PRIMO SOCCORSO O PRONTO SOCCORSO
ESEMPIO: MAL DI GOLA, MAL DI TESTA, MAL DI PANCIA
CORONAVIRUS, FEBBRE, TOSSE, MAL DI GOLA, MAL DI PANCIA
LA DISTANZA PRIMA DI VIAGGIARE

EVASIONE DEI CONTATTI

ARRIVO E SBARCO (DISMONTING AND DISMONTING)

SANIFICAZIONE (SANITIZATION)

SERVIZI A BORDO (ON-BOARD SERVICE)

Post-Lockdown: Mobility

DATI ANAMNESTICI

Ha avuto negli ultimi 21 giorni uno o più di questi sintomi?

Febbre > 37,5°*

NO

Tosse*

NO

Stanchezza*

NO

Mal di gola*

NO

Mal di testa*

NO

Dolori muscolari e/o articolari*

NO

Congestione nasale*

NO

Nausea*

NO

Vomito*

NO

Perdita di olfatto o gusto*

NO

Congiuntivite*

NO

Diarrea*

NO

DATI EPIDEMIOLOGICI

Comunicare quanto di propria conoscenza

Esposizione a casi accertati di COVID-19*

NO

Esposizione a casi sospetti di COVID-19*

NO

Contatti con familiari di casi sospetti di COVID-19*

NO

Conviventi con febbre o sintomi influenzali*

NO

Contatti con febbre o sintomi influenzali*

NO

Ha effettuato viaggi negli ultimi 40 giorni?*

NO

vodafone IT 11:05 PM 41% vodafone IT 11:04 PM 41%

HEALTH DECLARATION



Please read carefully the following health requirements all passengers must fulfill:



Passengers haven't been diagnosed with COVID-19 during the 14 days prior to flight and haven't had symptoms during the 8 days prior to flight (fever, newly developed cough, loss of taste or smell, shortness of breath).



Passengers haven't been in close contact with a person who has COVID-19 (e.g. less than 2 metres for more than 15 minutes) and aren't required to be in quarantine by local or national regulation for a period that includes the date of the flight.



HEALTH DECLARATION



Please note that all passengers must follow these rules at the airport:



Bring your own mask. You must wear it at all times.



Keep physical distancing of 1,5m during check-in and boarding.



Review the updated hand baggage policy.

By clicking on "Get boarding passes" you acknowledge all the previous health rules and regulations and understand **you must advise Volotea if this health declaration changes before going to the airport.**

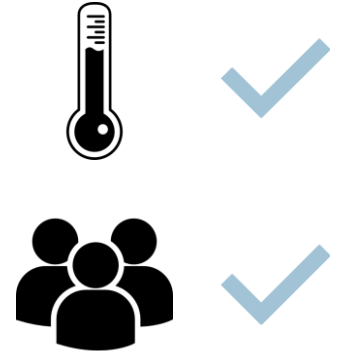
[Go back](#)

I understand, continue



Get boarding passes (2 of 2)

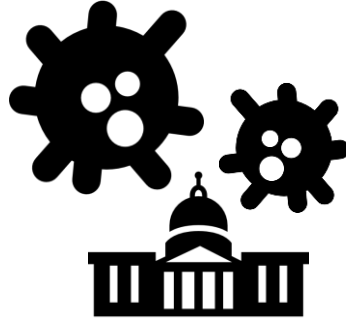
Post-Lockdown: New social distance measures



Barriers & Government's preparedness



Shortage of medical supplies: masks, ventilator, medical wear.



Lack of communication: unclarity on ordinances and bans.



National v. regional legislation: separate decisions; lack of coordination; different health systems



Timing of closure: the virus was circulating since January.



Political divide: bureaucratic delays and conflicts.

Mayors Launch a Green and Just COVID-19 Recovery Plan & Demand National Governments End Fossil Fuel Subsidies



Learning from Italy's pandemic summary



- **Italy's response to Covid-19 was characterized by 4 phases: Phase 0, Phase 1, Phase 2, Phase 3.**
- **Strengths: early closure of national and regional borders; masks and social distancing ordinance.**
- **Weaknesses: cross-region medical and political divide; non-essentials and tourism sector underwent a big economic crisis.**
- **Lessons learned: preparedness is not sufficient if policy decisions are not prompt and inclusive.**



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HUMAN DYNAMICS
IN THE MOBILE AGE



METABOLISM
OF CITIES



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