

HSE Committee

COVID-19 “coronavirus disease 2019” (SARS-CoV-2)

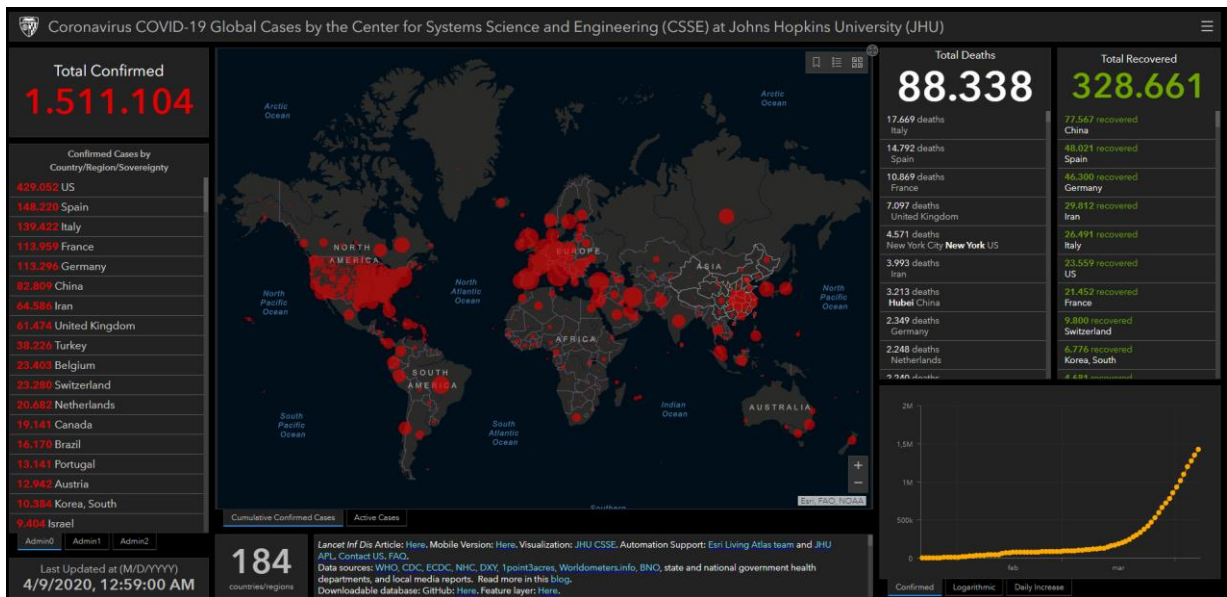
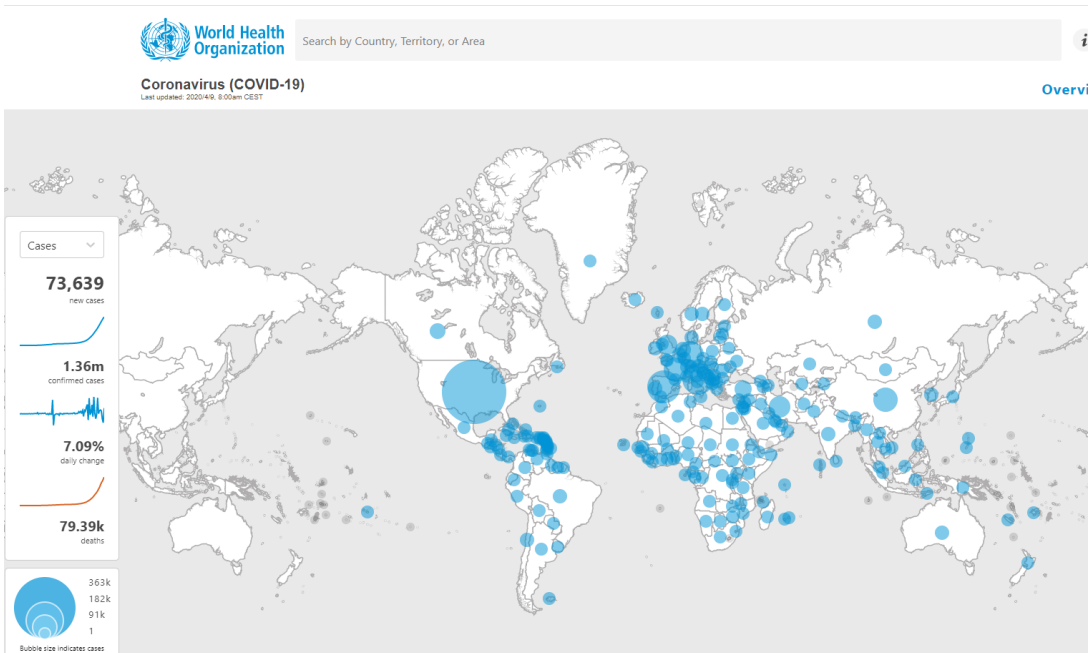
08 April 2020 – h. 24:00



Update: 08 Apr. 2020 – h. 24:00 CEST

Source: Johns Hopkins CSSE - JHCSSE

Source: WHO



Disease Development and Awareness: Between 70,000 and 80,000 new cases are recorded daily in the world and between 35,000 and 40,000 new cases in Europe. The ability to intercept cases becomes essential, to avoid spreading by those who, despite having contracted the disease, are asymptomatic. Almost all countries have adopted forms of prevention and research, but not all of them, including in Europe.

Active Cases



Editor's note - The images shown are for illustrative purposes. The values contained therein do not always correspond to the data shown in the following presentation. They might differ from those of the WHO and JHCSSE dashboard update. In particular, the comparison between data of the dashboards and data of the graphs and tables makes clear the rapid evolution in process of the phenomenon depicted. In case of doubts regarding the interpretation of data and information in this presentation, the Italian version of this presentation shall prevail.

- COVID -19 outbreak: *World at a glance* (slide 2)
- Content (slide 3)
- Summary of Data: (slide 4)
- COVID -19 outbreak: World (slide 5 - 8)
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Corona Virus and COVID-19

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As of February 12, 2020, the virus has been named SARS-CoV-2. The disease is called COVID-19 «coronavirus disease 2019»

Effects

Avg. Recovered Ratio – ratio between the number of recovery and confirmed cases in the world: 21.0%

Avg. Death Ratio – relationship between number of deaths and confirmed cases worldwide: 5,8%

Statistics series update

The update is influenced by the timing of the reference organizations, which leads to different sets of data

Spread

Cases are reported in all areas of the globe. Since February 28th. **The rapidly developing geographical areas are European (over 738,200 case), EU (over 635,900 cases) and American (over 492,400 cases).**

Development

The United States has become the most affected country, New York State the most affected state, Italy the one with the highest number of deaths, and cases are increasing worldwide: US (over 429,000 cases), New York State (over 151,000 cases) Spain (over 148,200 cases), Italy (over 139,400 cases), France (over 113,900 cases), Germany (over 113,200 cases), China (over 83,200 cases), Iran (over 64,500 cases), UK (over 61,400 cases), Turkey (over 38,200 cases), Belgium (over 23,400 cases), Switzerland (over 23,200 cases), Netherlands (over 20,600 case), Canada (over 19,100 cases), Brazil (over 16,100 cases), The steady increase in cases in the African continent continues (over 9,800 cases). The number of the countries involved is steady (182). The number of patients worldwide is constantly increasing (data from Johns Hopkins CSSE - infographics dashboard and Italian Civil Protection).

The recovery rates and mortality per contagion zone are very variable. **Total recovery rates are decreasing due to the recent development of the epidemic in all areas of the globe**

SITUATION IN NUMBERS

total (new) cases in last 24 hours

Globally

1 279 722 confirmed (68 766)
72 614 deaths (5020)

Western Pacific Region

113 641 confirmed (1119)
3892 deaths (31)

European Region

686 338 confirmed (30 999)
52 809 deaths (3330)

South-East Asia Region

9132 confirmed (304)
362 deaths (18)

Eastern Mediterranean Region

78 565 confirmed (4218)
4149 deaths (173)

Region of the Americas

384 242 confirmed (31 650)
11 097 deaths (1417)

African Region

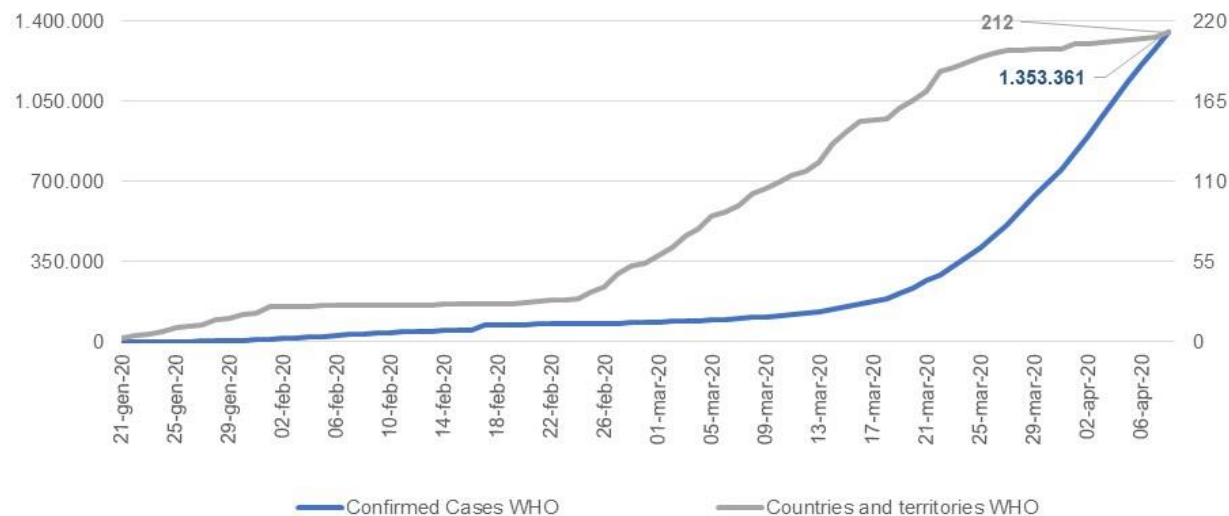
7092 confirmed (476)
294 deaths (51)

WHO RISK ASSESSMENT

Global Level Very High

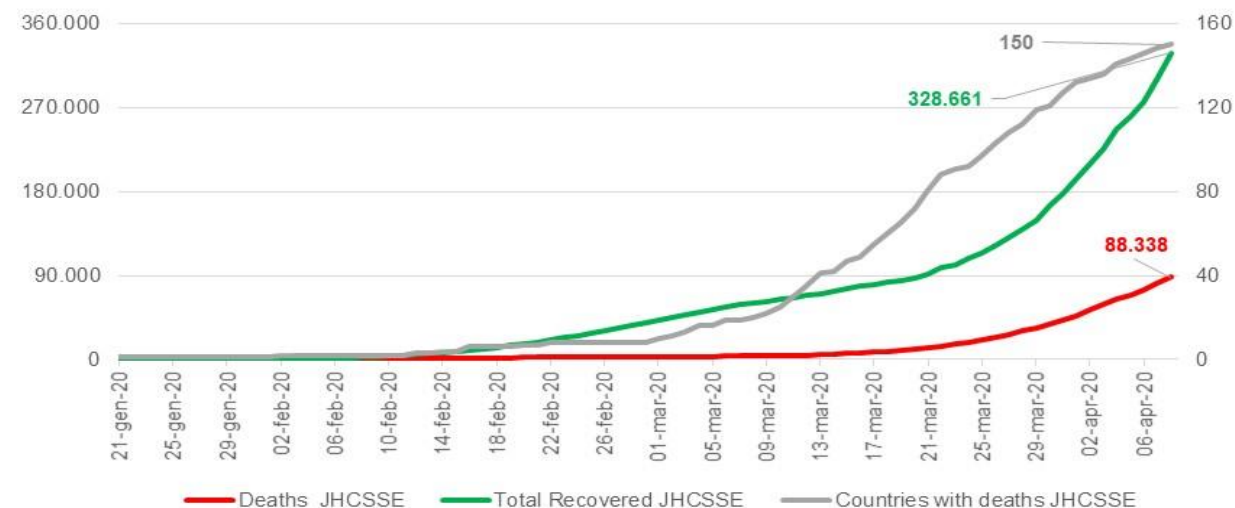
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Cumulated number of confirmed cases in the world



Number of deaths and recovered in the world

Number of geographical zones interested (confirmed cases)

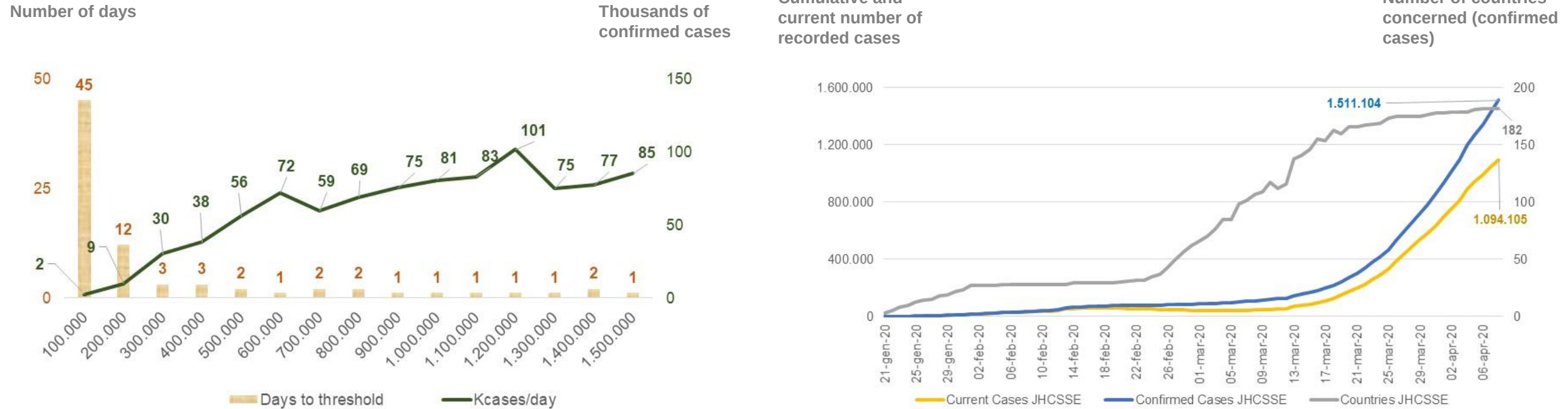


Sources: Processing on WHO data (Situations Reports and data update of the day - Johns Hopkins CSSE (dashboard))

The number of countries which is reported on the graphs depends on the convention used by the organizations

Data update depends on the different time zones and on the hour of publication of data

Update: 08 Apr 2020 – h. 24:00 CEST



Rate of development in the world: On the abscissa there are the thresholds in number of cases. The column represent the number of days to reach the threshold. The line represent the evolution of the average daily number (thousands) of cases confirmed between one threshold and another. The average number of cases depends on the values actually achieved, which do not coincide with the threshold value itself

The increase of sick individuals is now constant. The first countries by number of cases are the USA and Italy. Strong growth is seen also in the rest of the world. **The situation in Europe and the EU and on Italian borders is very critical**

Sources: Processing on WHO data (Situation Reports and data update of the day - Johns Hopkins CSSE (dashboard))

The number of countries which is reported on the graphs depends on the convention used by the organizations

Data update depends on the different time zones and on the hour of publication of data

Development by country - World

Update: 08 Apr. 2020 –
h. 24:00 CEST

Editor's note; France Data
are from different sources

Sources: Elaborations on
Johns Hopkins CSSE data
(dashboard infographics).
Includes data regarding
involved cruise ships

#	Country/Region	Confirmed	Deaths	Deaths Ratio	Recovered	Recovered Ratio	Current Cases
1	US	429.052	14.695	3,4%	23.559	5,5%	390.798
2	Spain	148.220	14.792	10,0%	48.021	32,4%	85.407
3	Italy	139.422	17.669	12,7%	26.491	19,0%	95.262
4	France	113.959	10.887	9,6%	21.452	18,8%	81.620
5	Germany	113.296	2.349	2,1%	46.300	40,9%	64.647
6	China	82.809	3.337	4,0%	77.567	93,7%	1.905
7	Iran	64.586	3.993	6,2%	29.812	46,2%	30.781
8	United Kingdom	61.474	7.111	11,6%	345	0,6%	54.018
9	Turkey	38.226	812	2,1%	1.846	4,8%	35.568
10	Belgium	23.403	2.240	9,6%	4.681	20,0%	16.482
11	Switzerland	23.280	895	3,8%	9.800	42,1%	12.585
12	Netherlands	20.682	2.255	10,9%	272	1,3%	18.155
13	Canada	19.141	407	2,1%	4.154	21,7%	14.580
14	Brazil	16.170	819	5,1%	127	0,8%	15.224
15	Portugal	13.141	380	2,9%	196	1,5%	12.565
16	Austria	12.942	273	2,1%	4.512	34,9%	8.157
17	Korea, South	10.384	200	1,9%	6.776	65,3%	3.408
18	Israel	9.404	73	0,8%	801	8,5%	8.530
19	Russia	8.672	63	0,7%	580	6,7%	8.029
20	Sweden	8.419	687	8,2%	205	2,4%	7.527
21	Norway	6.086	101	1,7%	32	0,5%	5.953
22	Ireland	6.074	235	3,9%	25	0,4%	5.814
23	Australia	6.010	50	0,8%	1.080	18,0%	4.880
24	India	5.916	178	3,0%	506	8,6%	5.232
25	Denmark	5.597	218	3,9%	1.763	31,5%	3.616
26	Chile	5.546	48	0,9%	1.115	20,1%	4.383
27	Czechia	5.312	99	1,9%	233	4,4%	4.980
28	Poland	5.205	159	3,1%	222	4,3%	4.824
29	Romania	4.761	220	4,6%	528	11,1%	4.013
30	Ecuador	4.450	242	5,4%	140	3,1%	4.068
31	Peru	4.342	121	2,8%	1.333	30,7%	2.888
32	Pakistan	4.263	61	1,4%	467	11,0%	3.735
33	Japan	4.257	93	2,2%	622	14,6%	3.542
34	Malaysia	4.119	65	1,6%	1.487	36,1%	2.567
35	Philippines	3.870	182	4,7%	96	2,5%	3.592
36	Luxembourg	3.034	46	1,5%	500	16,5%	2.488

#	Country/Region	Confirmed	Deaths	Deaths Ratio	Recovered	Recovered Ratio	Current Cases
37	Indonesia	2.956	240	0	222	0	2.494
38	Saudi Arabia	2.932	41	0	631	0	2.260
39	Mexico	2.785	141	0	633	0	2.011
40	Serbia	2.666	65	0	-		2.601
41	United Arab Emirates	2.659	12	0	239	0	2.408
42	Finland	2.487	40	0	300	0	2.147
43	Thailand	2.369	30	0	888	0	1.451
44	Panama	2.249	59	0	16	0	2.174
45	Qatar	2.210	6	0	178	0	2.026
46	Dominican Republic	2.111	108	0	50	0	1.953
47	Colombia	2.054	54	0	123	0	1.877
48	Greece	1.884	83	0	269	0	1.532
49	South Africa	1.845	18	0	95	0	1.732
50	Argentina	1.715	63	0	358	0	1.294
51	Ukraine	1.668	52	0	35	0	1.581
52	Singapore	1.623	6	0	406	0	1.211
53	Iceland	1.616	6	0	633	0	977
54	Algeria	1.572	205	0	237	0	1.130
55	Egypt	1.560	103	0	305	0	1.152
56	Croatia	1.343	19	0	179	0	1.145
57	Morocco	1.275	93	0	97	0	1.085
58	New Zealand	1.210	1	0	282	0	927
59	Iraq	1.202	69	0	452	0	681
60	Estonia	1.185	24	0	72	0	1.089
61	Moldova	1.174	27	0	40	0	1.107
62	Slovenia	1.091	40	0	120	0	931
63	Belarus	1.066	13	0	77	0	976
64	Lithuania	912	15	0	8	0	889
65	Hungary	895	58	0	94	0	743
66	Armenia	881	9	0	114	0	758
67	Kuwait	855	1	0	111	0	743
68	Bahrain	823	5	0	477	1	341
69	Azerbaijan	822	8	0	63	0	751
70	Bosnia and Herzegovina	804	34	0	79	0	691
114	Countries < 800 cases	19.081	535	2,8%	3.132	16,4%	15.414
184	Total World	1.511.104	88.338	5,8%	328.661	21,7%	1.094.105

Development by country or region - World

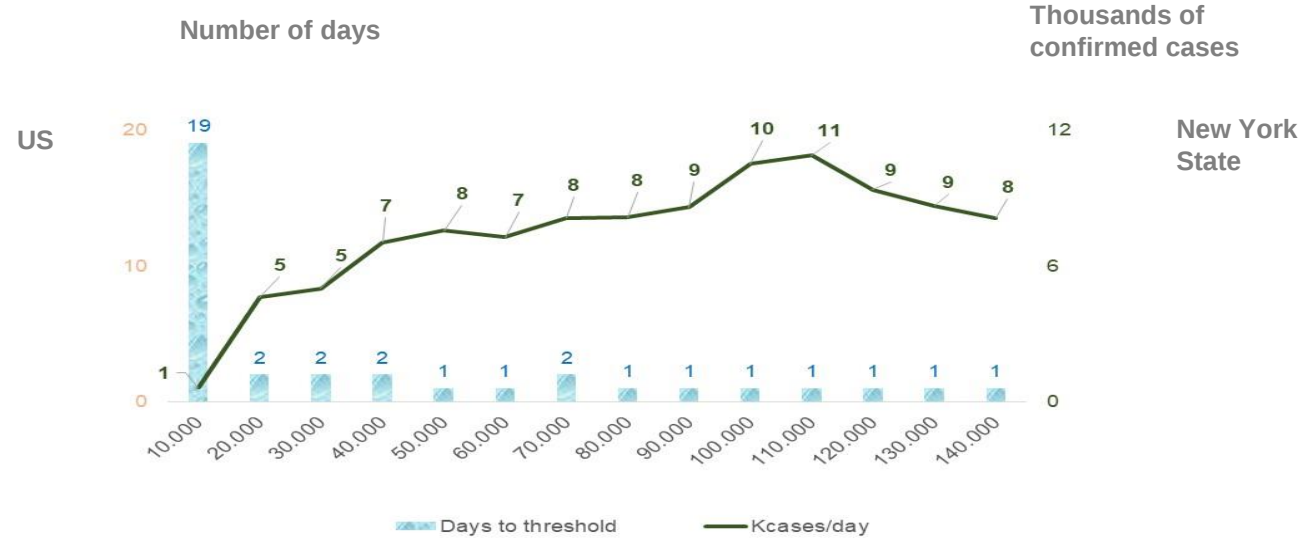
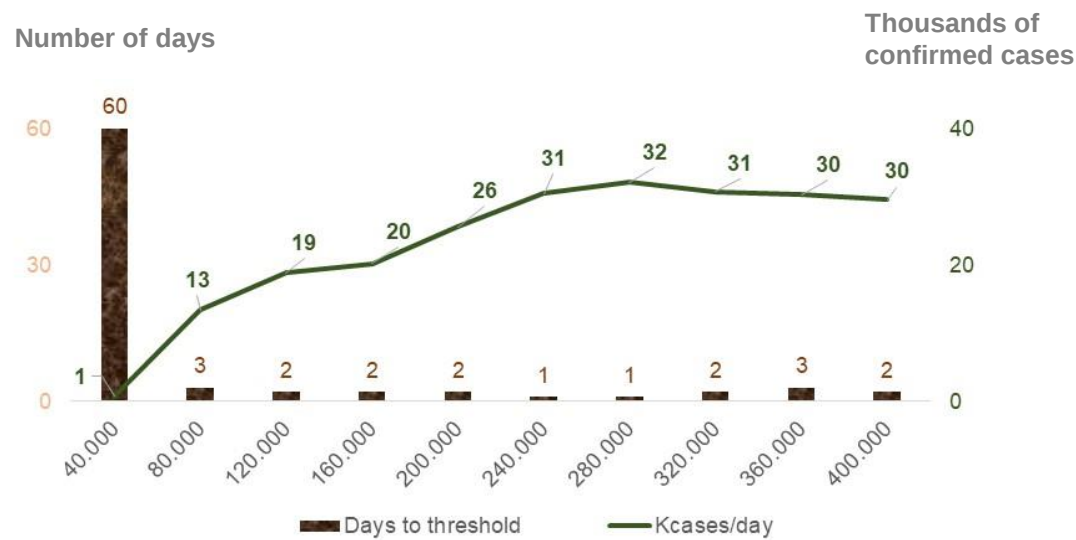
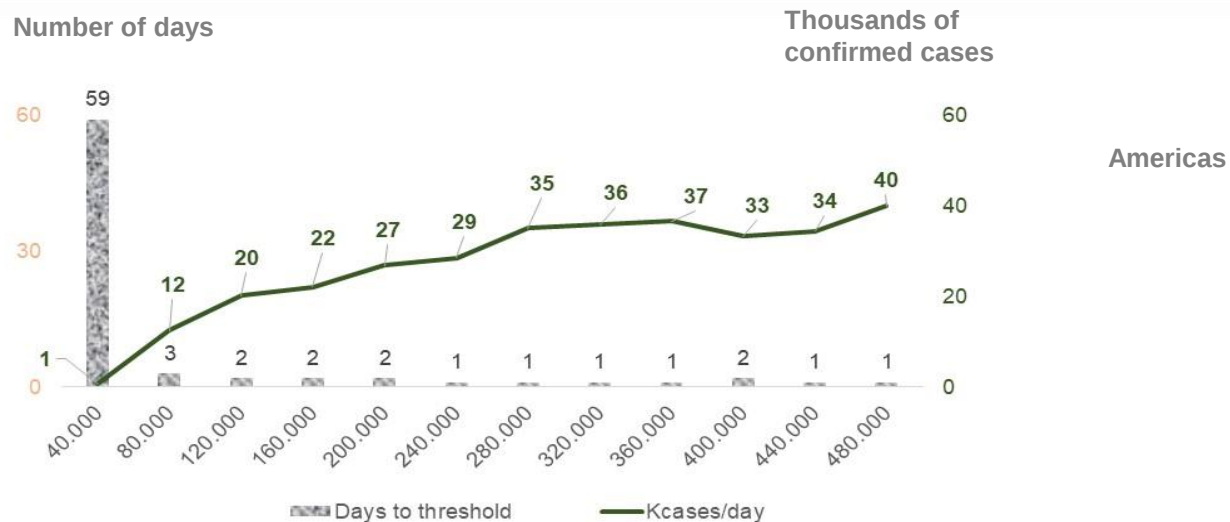
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State / Area	Country	WHO Region	Confirmed	Population (K Inhab.)	Area (000 Km2)	Density (In./Km2)	Available area (Km2/In.)
Austria	Austria	European Region	12.942	8.898	84	106	0,0094
Belgium	Belgium	European Region	23.403	11.358	31	372	0,0027
Brazil	Brazil	Region of the Americas	16.170	210.147	8.155	26	0,0388
Canada	Canada	Region of the Americas	19.141	37.477	9.897	4	0,2641
Quebec	Canada	Region of the Americas	10.031	8.326	1.542	5	0,1852
China	China	Western Pacific Region	83.188	1.433.784	9.596	149	0,0067
Hubei	China	Western Pacific Region	67.803	57.238	186	308	0,0032
France	France	European Region	112.950	68.303	675	101	0,0099
Germany	Germany	European Region	113.926	82.366	358	230	0,0043
Germany	Germany (data Robert Koch-Institut dashboard)	European Region	108.202	82.366	358	230	0,0043
Bayern	Germany (data Robert Koch-Institut dashboard)	European Region	28.827	12.930	71	183	0,0055
Nordrhein-Westfalen	Germany (data Robert Koch-Institut dashboard)	European Region	21.961	17.890	34	524	0,0019
Baden-Württemberg	Germany (data Robert Koch-Institut dashboard)	European Region	21.603	11.023	36	308	0,0032
Iran	Iran	Western Pacific Region	64.586	81.672	1.648	50	0,0202
Italy	Italy	European Region	139.422	60.359	302	200	0,0050
Italy	Italy (data Protezione Civile)	European Region	139.422	60.359	302	200	0,0050
Northern Italy	Italy (data Protezione Civile)	European Region	110.352	27.774	120	231	0,0043
Center Italy	Italy (data Protezione Civile)	European Region	18.652	13.997	69	203	0,0049
Korea, South	Korea, South	Western Pacific Region	10.384	50.600	100	505	0,0020
Netherlands	Netherlands	European Region	20.549	17.425	42	419	0,0024
Portugal	Portugal	European Region	13.141	10.255	92	111	0,0090
Spain	Spain	European Region	148.220	47.198	505	94	0,0107
Spain	Spain (data Gobierno de España)	European Region	146.690	47.198	505	94	0,0107
Comunidad de Madrid	Spain (data Gobierno de España)	European Region	42.450	6.662	8	830	0,0012
Cataluña	Spain (data Gobierno de España)	European Region	29.647	7.544	32	235	0,0043
Castilla La Mancha	Spain (data Gobierno de España)	European Region	11.788	2.043	79	26	0,0389
Castilla y León	Spain (data Gobierno de España)	European Region	10.058	2.553	94	27	0,0369
Switzerland	Switzerland	European Region	23.280	8.530	41	207	0,0048
Turkey	Turkey	European Region	38.226	82.004	784	105	0,0096
United Kingdom	United Kingdom	European Region	60.733	67.545	243	279	0,0036
United Kingdom	United Kingdom (data Public Heath England)	European Region	60.733	67.545	243	279	0,0036
London (NHS Region)	United Kingdom (data Public Heath England)	European Region	14.335	8.908	2	5.667	0,0002
US	US	Region of the Americas	429.052	329.311	9.834	33	0,0299
New York	US	Region of the Americas	151.061	19.745	141	140	0,0072
New Jersey	US	Region of the Americas	47.437	8.908	23	394	0,0025
Michigan	US	Region of the Americas	20.346	9.910	250	40	0,0253
California	US	Region of the Americas	18.897	39.557	424	93	0,0107
Louisiana	US	Region of the Americas	16.631	4.660	135	34	0,0291
Massachusetts	US	Region of the Americas	16.670	6.902	27	253	0,0040
Pennsylvania	US	Region of the Americas	16.631	12.764	119	107	0,0093
Florida	US	Region of the Americas	15.456	21.478	170	126	0,0079
Illinois	US	Region of the Americas	15.078	12.881	150	86	0,0116
Georgia	US	Region of the Americas	10.112	9.688	154	63	0,0159

Editor's note; France Data to be checked

Sources: Elaborations on different sources (see slide 22 – Mixed Sources). Areas with more than 10,000 cases

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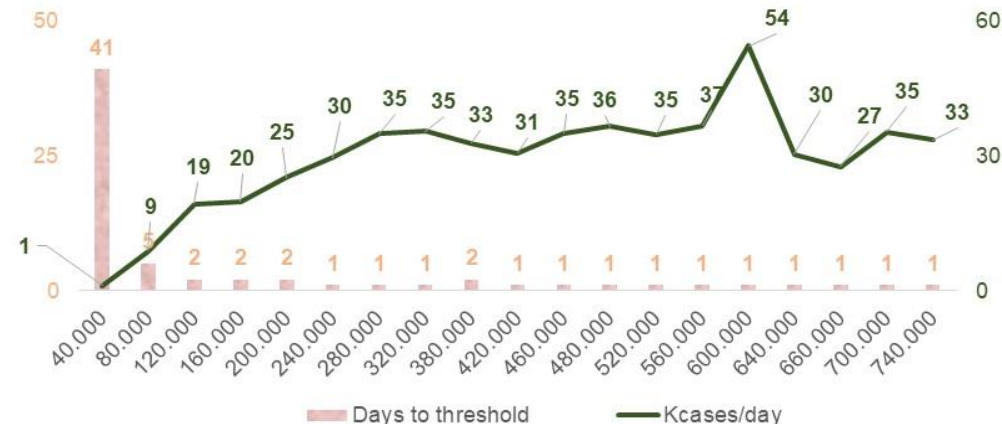
Rate of development in the Region of Americas: On the abscissa there are the thresholds in number of cases. The column represent the number of days to reach the threshold. The line represent the evolution of the average daily number (thousands) of cases confirmed between one threshold and another. The average number of cases depends on the values actually achieved, which do not coincide with the threshold value itself

Sources: Elaborations on Johns Hopkins CSSE data (dashboard infographics)

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Number of days

Thousands of confirmed cases



Rate of development in Europe: On the abscissa there are the thresholds in number of cases. The column represent the number of days to reach the threshold. The line represent the evolution of the average daily number (thousands) of cases confirmed between one threshold and another. The average number of cases depends on the values actually achieved, which do not coincide with the threshold value itself

#	Country/Region	Confirmed	Deaths	Deaths Ratio	Recovered	Recovered Ratio	Current Cases
27	European Union	635.941	52.826	8,3%	156.585	24,6%	426.530
17	Other European Contries	102.293	8.421	8,2%	11.417	11,2%	82.455
44	Total Europe	738.234	61.247	8,3%	168.002	22,8%	508.985

Date	Total Cases IT - WHO	Total Cases AU - WHO	Total Cases BE - WHO	Total Cases CZ - WHO	Total Cases DK - WHO	Total Cases DE - WHO	Total Cases ES - WHO	Total Cases FR - WHO	Total Cases IE - WHO	Total Cases NL - WHO	Total Cases NO - WHO	Total Cases PT - WHO	Total Cases SE - WHO	Total Cases SU - WHO	Total Cases UK - WHO
27-mar-20	80.539	7.029	6.235	2.062	1.877	42.288	56.188	42.073	1.819	7.431	3.156	3.544	2.806	10.714	11.662
28-mar-20	86.498	7.697	7.284	2.279	2.046	48.582	64.059	47.958	2.121	8.603	3.581	4.268	3.046	12.104	14.547
29-mar-20	92.472	8.291	9.134	2.663	2.201	52.547	72.248	51.275	2.415	9.762	3.845	5.170	3.447	13.152	17.093
30-mar-20	97.689	8.813	10.836	2.829	2.395	57.298	78.797	56.860	2.615	10.866	4.102	5.962	3.700	14.274	19.526
31-mar-20	101.739	9.618	11.899	3.002	2.577	61.913	85.195	66.532	2.910	11.750	4.226	6.408	4.028	15.412	22.145
01-apr-20	105.792	10.182	12.775	3.308	2.860	67.366	94.417	72.737	3.235	12.595	4.447	7.443	4.435	16.108	25.154
02-apr-20	110.574	10.711	13.964	3.589	3.107	73.522	102.136	75.437	3.447	13.614	4.665	8.251	4.947	17.070	29.478
03-apr-20	115.242	11.129	15.348	3.858	3.386	79.696	110.238	82.116	3.849	14.697	4.935	9.034	5.466	18.844	33.722
04-apr-20	119.827	11.525	16.770	4.190	3.757	85.778	117.710	90.848	4.273	15.723	5.208	9.886	6.078	19.706	38.172
05-apr-20	124.632	11.766	18.431	4.472	4.077	91.714	124.736	92.839	4.604	16.627	5.510	10.524	6.443	20.489	41.907
06-apr-20	128.948	11.983	19.691	4.587	4.369	95.391	130.759	98.010	5.111	17.851	5.640	11.278	6.830	21.065	47.810
07-apr-20	132.547	12.297	20.814	4.822	4.681	99.225	135.032	109.069	5.364	18.803	5.755	11.730	7.206	21.574	51.612
07 apr 20 JHCSSE	135.586	12.639	22.194	5.017	5.266	107.663	141.942	109.069	5.709	19.709	6.086	12.442	7.693	22.253	55.949
08 apr 20 JHCSSE	139.422	12.942	23.403	5.312	5.597	113.926	148.220	112.950	6.074	20.682	6.086	13.141	8.419	23.280	61.474

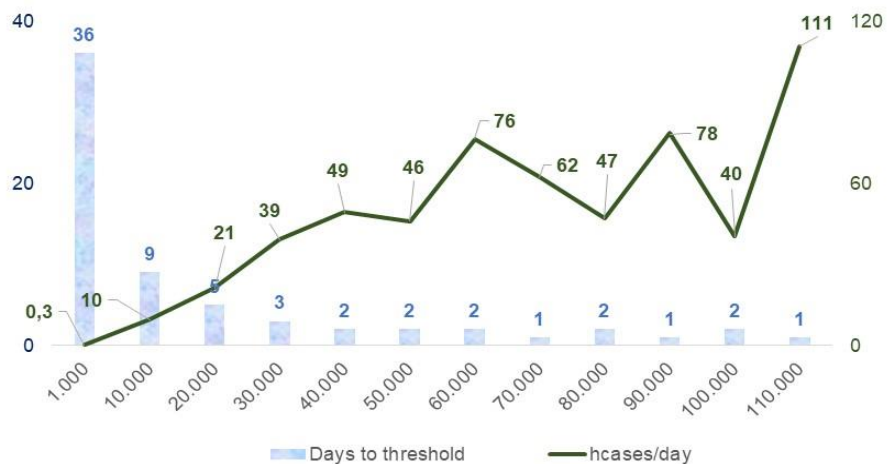
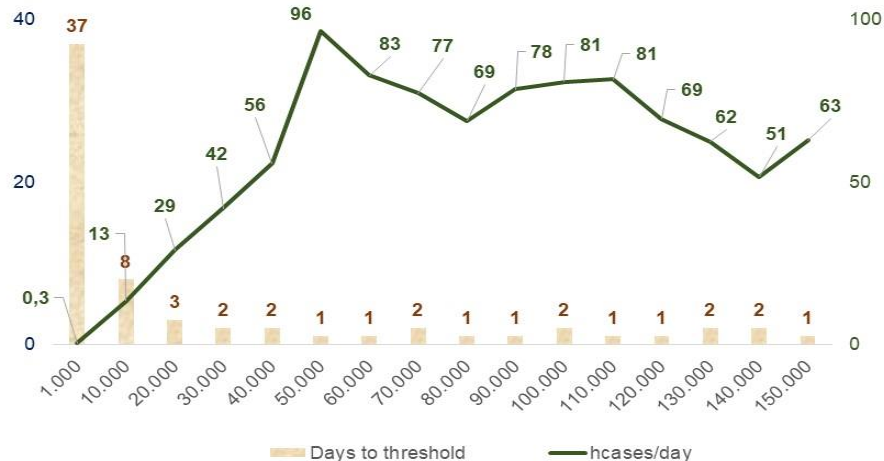
Sources: Elaborations on data from the World Health Organization and JHCSSE. Data in red are from in JHCSSE and Italian Civil Protection. Data sequence for France is estimated. Countries with over 5,000

cases

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Number of days

Thousands of confirmed cases

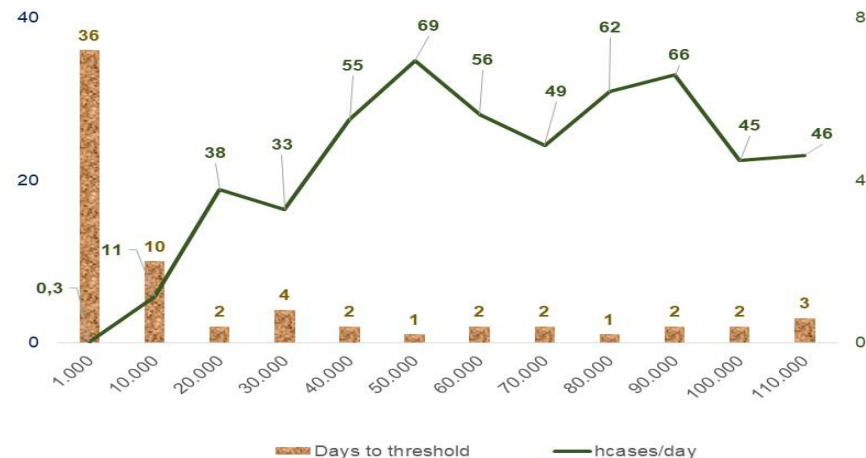


France

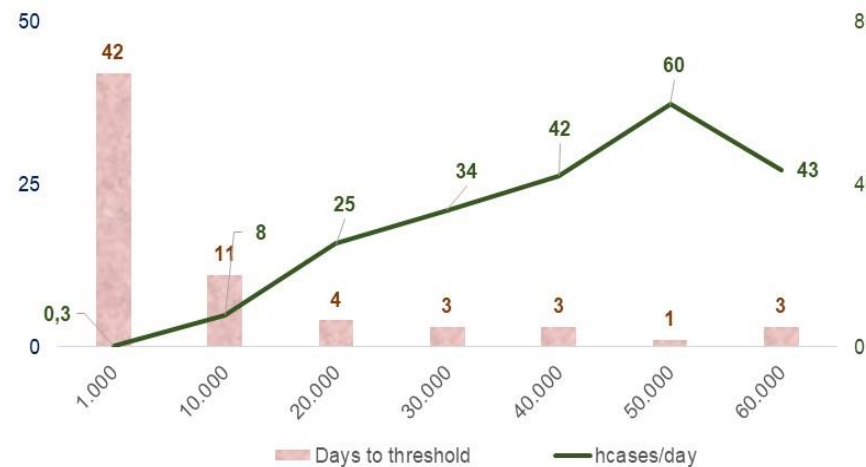
Editor's note; Data sequence for France is estimated

Number of days

Thousands of confirmed cases



Germany



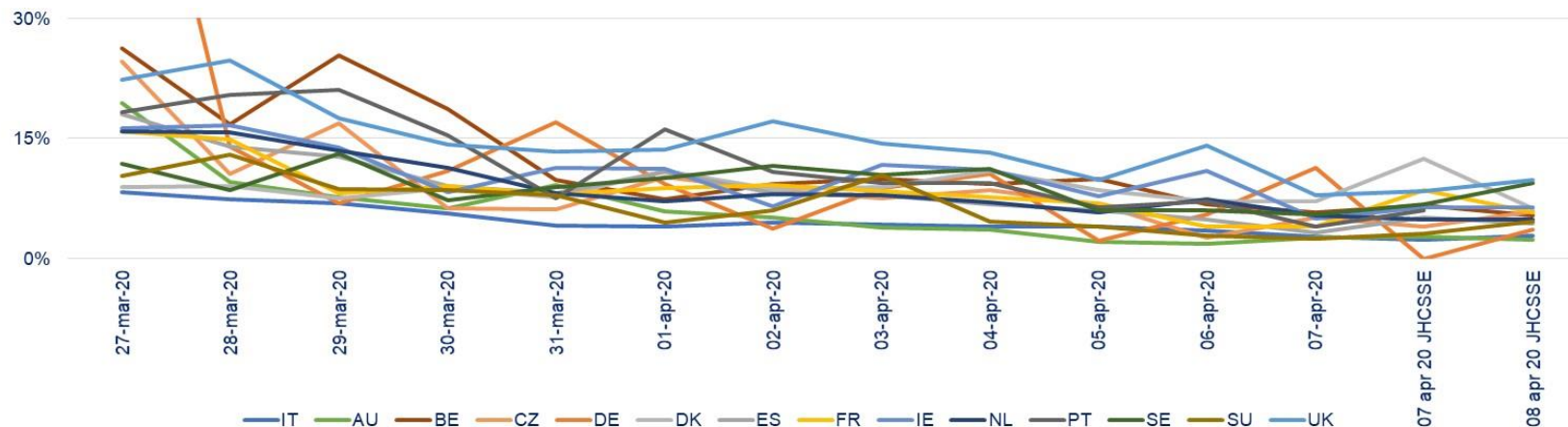
UK

Sources: Elaborations on data from the World Health Organization and JHCSSE.

. Countries with over 40,000 cases

Rate of development in Europe: On the abscissa there are the thresholds in number of cases. The column represent the number of days to reach the threshold. The line represent the evolution of the average daily number (thousands) of cases confirmed between one threshold and another. The average number of cases depends on the values actually achieved, which do not coincide with the threshold value itself

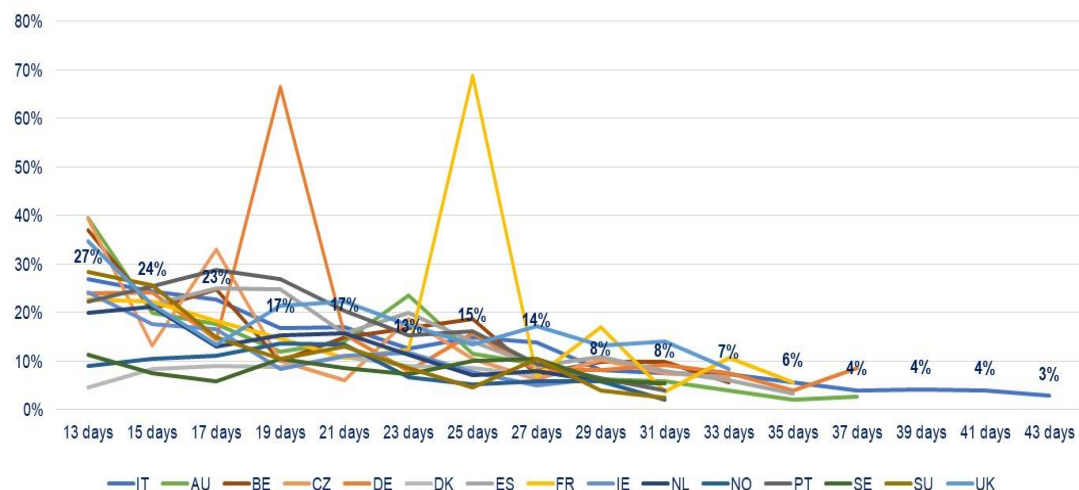
Percentage growth of cumulative cases compared to the total recorded in the previous day - main EU countries



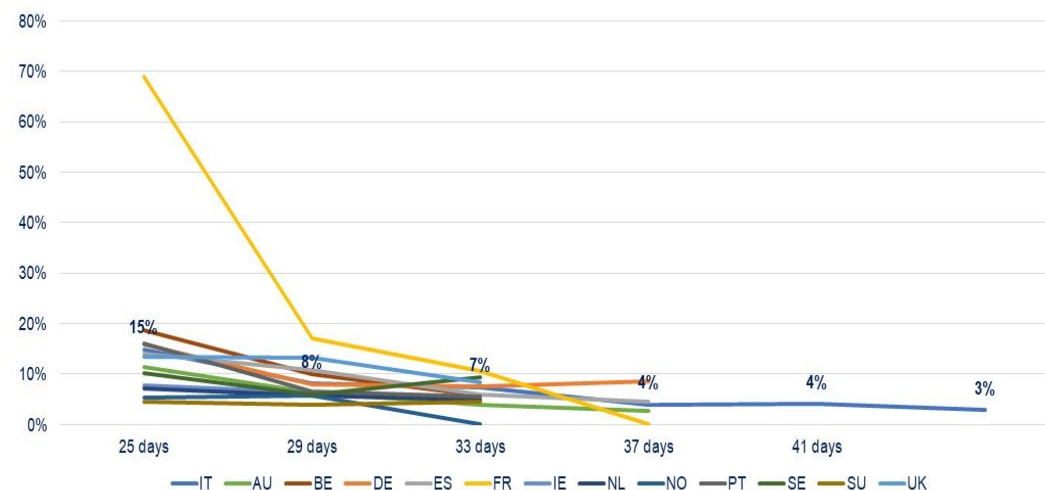
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The situation in Europe, especially in Italy and on the Italian borders, **highlights critical elements**

Percentage growth of cases cumulated from the first day with cases > 99 to n subsequent days - main EU countries



Percentage growth of cases cumulated from the first day with cases > 99 to n subsequent days - main EU countries



The evolution of COVID-19 in other European countries shows trends similar to the Italian ones, with a delay of about 10/15 days.

Sources: Elaborations on data from the World Health Organization and JHCSSE... EU countries with over 5,000 cases

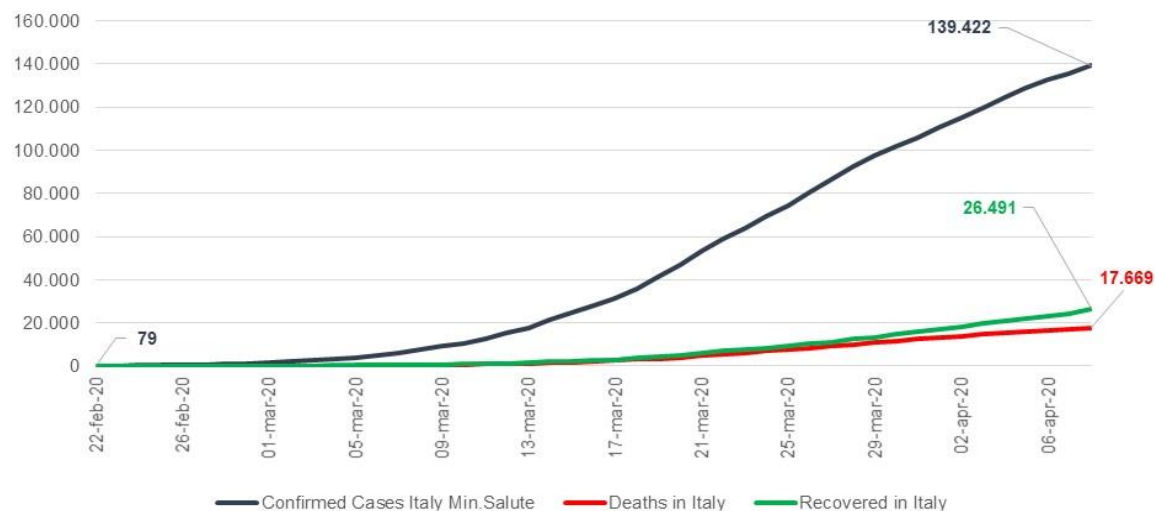
Italy is the third country in the world for confirmed case, the first for deaths and the fourth for recovered

- ❑ Official national sources (Italian Ministry of Health) indicate 139,422 cases, 17,669 deaths, 26,491 recovered
- ❑ Official international sources (WHO) indicate 135,586 cases, 17,127 deaths
- ❑ Other sources (JHCSSE) indicate 139,422 cases, 17,669 deaths, 26,491 recovered
- ❑ Recovered Ratio – ratio between the number of recovery and confirmed cases (Italian Ministry of Health): 19.0%
- ❑ Avg. Death Ratio – relationship between number of deaths and confirmed cases (Italian Ministry of Health): 12.7%

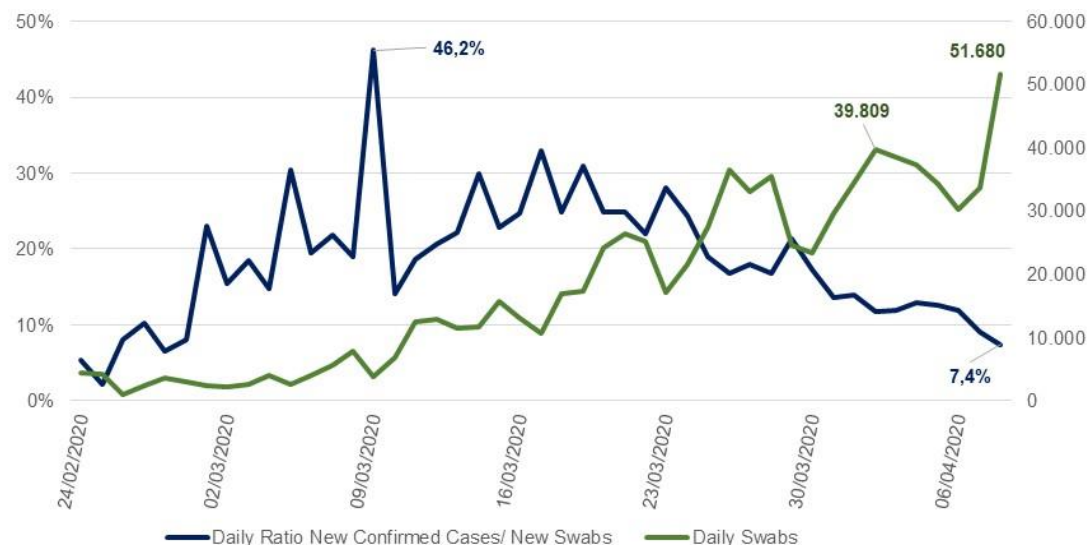
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Healing rates are improving
Mortality rate is steady
The new cases identified are constantly reducing compared to the swabs performed

Cumulative number of confirmed cases, deaths and healings in Italy

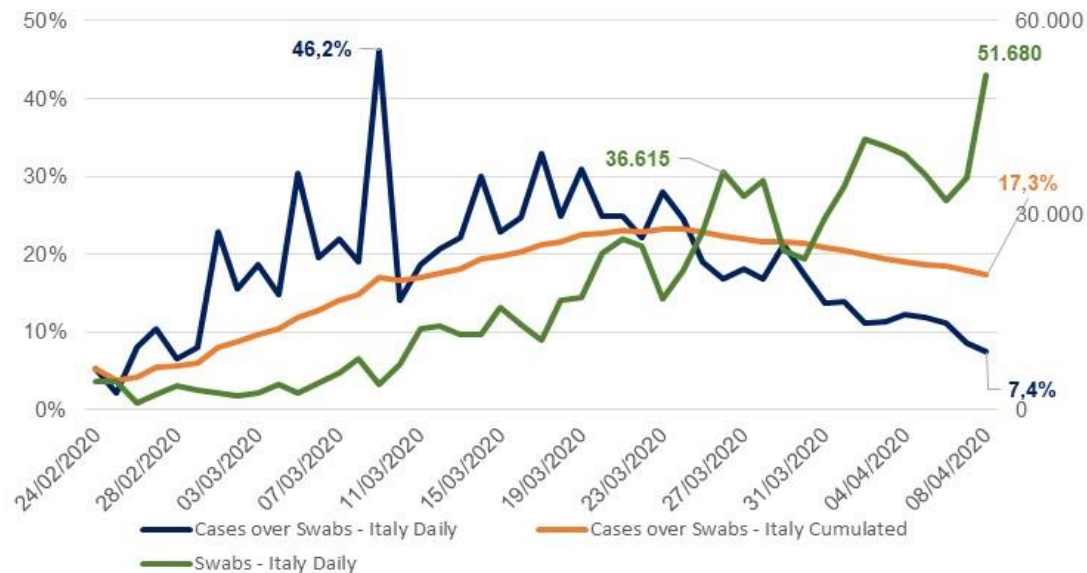


% confirmed cases over swabs



Daily swabs performed

Italy



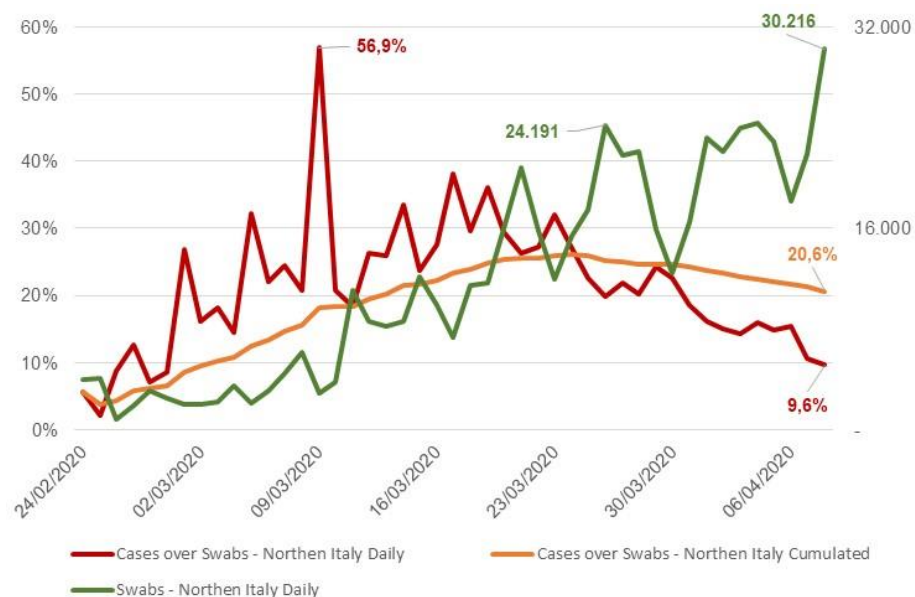
Update: 08 Apr. 2020 – h. 24:00 CEST

Sources: Elaborations on Italian Health Ministry and Civil Protection cases

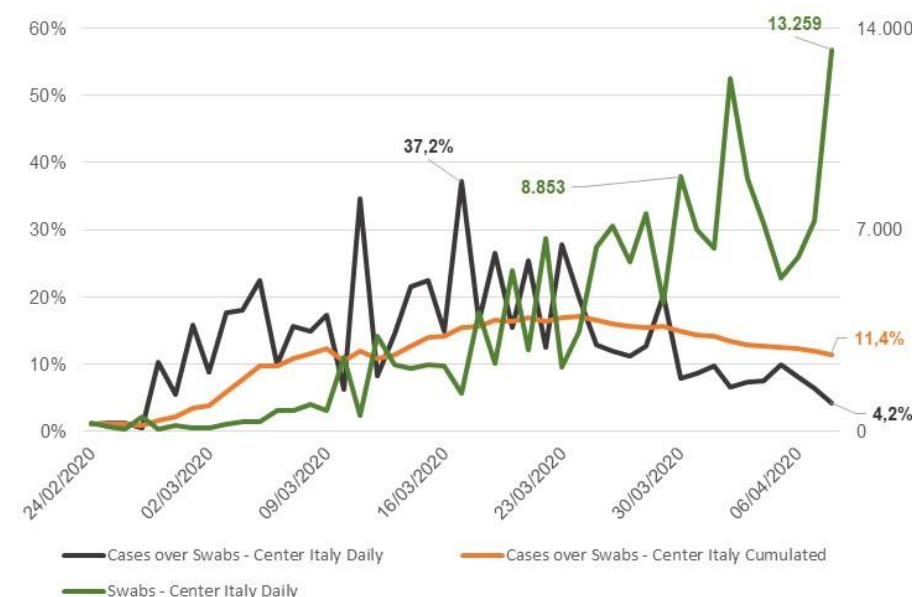
Development of daily performed swabs, relation of daily confirmed cases over performed swab and relation of cumulated cases over performed swab in different Italian geographical areas

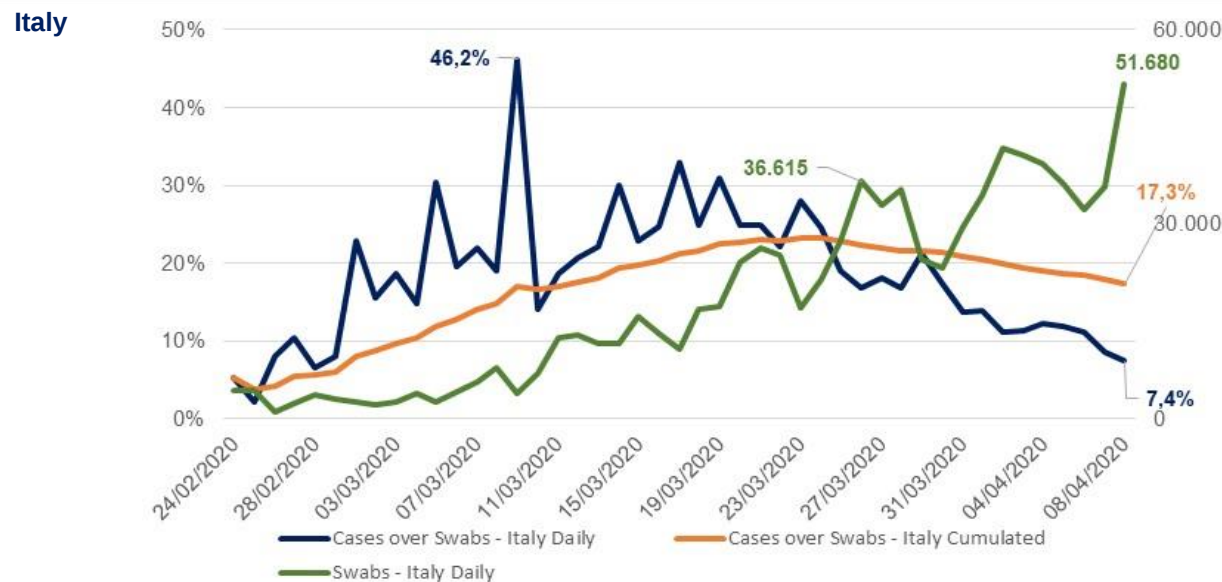
Zone	Confirmed Cases	Swabs performed
Northern Italy Cumulated	110.352	535.061
Center Italy Cumulated	18.652	163.581
Southern Italy Cumulated	7.284	72.552
Islands Italy Cumulated	3.134	35.931
Italy Cumulated	139.422	807.125

Northern Italy



Center Italy





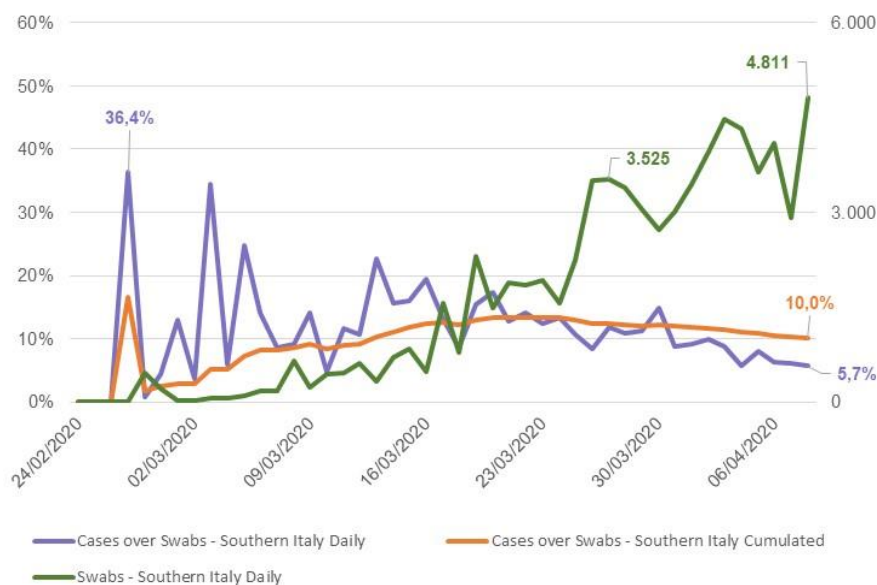
Update: 08 Apr. 2020 – h. 24:00 CEST

Sources: Elaborations on Italian Health Ministry and Civil Protection cases

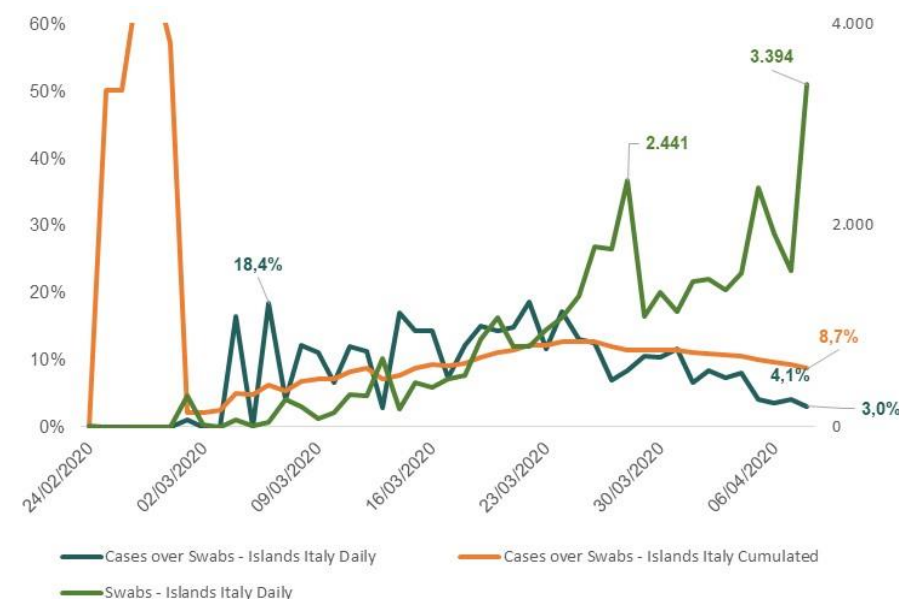
Development of daily performed swabs, relation of daily confirmed cases over performed swab and relation of cumulated cases over performed swab in different Italian geographical areas

Zone	Confirmed Cases	Swabs performed
Northern Italy Cumulated	110.352	535.061
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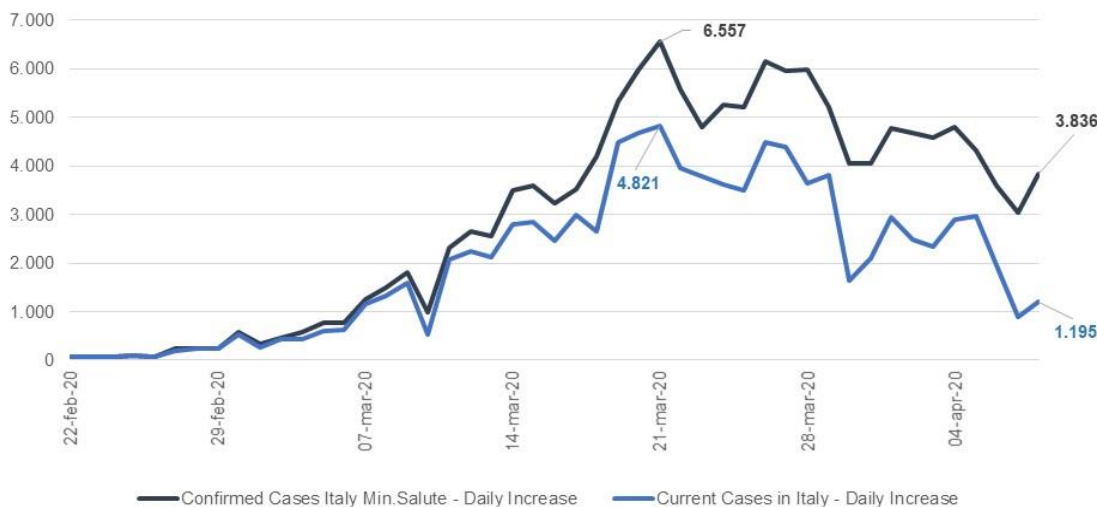
Southern Italy



Italy Islands

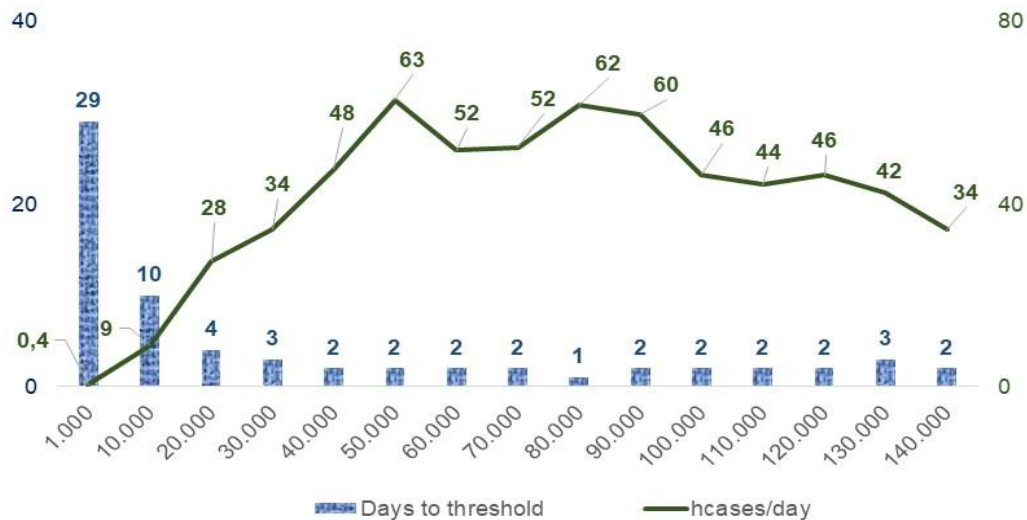


Daily number of confirmed cases and number of people currently ill in Italy



Number of days

Hundreds of confirmed cases



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Map for Italy and data update:
<http://opendatadpc.maps.arcgis.com/apps/opsdashboard/index.html#/b0c68bce2cce478eaac82fe38d4138b1>

Rate of development in Italy: On the abscissa there are the thresholds in number of cases. The column represent the number of days to reach the threshold. The line represent the evolution of the average daily number (thousands) of cases confirmed between one threshold and another. The average number of cases depends on the values actually achieved, which do not coincide with the threshold value itself

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Confirmed Cases	05-apr-20	06-apr-20	07-apr-20	08-apr-20	Deaths	08-apr-20	Recovered	08-apr-20	Current Cases	08-apr-20
Italia	128.948	132.547	135.586	139.422	Italia	17.669	Italia	26.491	Italia	95.262
Abruzzo	1.703	1.721	1.799	1.859	Abruzzo	179	Abruzzo	146	Abruzzo	1.534
Basilicata	278	287	291	297	Basilicata	14	Basilicata	13	Basilicata	270
Calabria	795	817	833	859	Calabria	60	Calabria	44	Calabria	755
Campania	2.960	3.058	3.148	3.268	Campania	221	Campania	188	Campania	2.859
Emilia Romagna	17.089	17.556	17.825	18.234	Emilia Romagna	2.234	Emilia Romagna	2.890	Emilia Romagna	13.110
Friuli Venezia Giulia	2.048	2.103	2.153	2.218	Friuli Venezia Giulia	169	Friuli Venezia Giulia	634	Friuli Venezia Giulia	1.415
Lazio	3.880	4.031	4.149	4.266	Lazio	244	Lazio	574	Lazio	3.448
Liguria	4.449	4.549	4.757	4.906	Liguria	654	Liguria	1.007	Liguria	3.245
Lombardia	50.455	51.534	52.325	53.414	Lombardia	9.722	Lombardia	15.147	Lombardia	28.545
Marche	4.464	4.614	4.710	4.859	Marche	652	Marche	645	Marche	3.562
Molise	224	224	224	226	Molise	13	Molise	32	Molise	181
Piemonte	12.362	12.924	13.343	13.883	Piemonte	1.378	Piemonte	1.516	Piemonte	10.989
Puglia	2.317	2.444	2.514	2.634	Puglia	219	Puglia	177	Puglia	2.238
Sardegna	907	922	935	975	Sardegna	59	Sardegna	76	Sardegna	840
Sicilia	1.994	2.046	2.097	2.159	Sicilia	133	Sicilia	133	Sicilia	1.893
Toscana	5.847	6.001	6.173	6.379	Toscana	392	Toscana	430	Toscana	5.557
Trentino Alto Adige	3.929	4.070	4.287	4.437	Trentino Alto Adige	438	Trentino Alto Adige	778	Trentino Alto Adige	3.221
Umbria	1.239	1.253	1.263	1.289	Umbria	50	Umbria	416	Umbria	823
Valle d'Aosta	782	805	835	850	Valle d'Aosta	102	Valle d'Aosta	142	Valle d'Aosta	606
Veneto	11.226	11.588	11.925	12.410	Veneto	736	Veneto	1.503	Veneto	10.171

Region	Province	Confirmed Cases	Region	Province	Confirmed Cases	Region	Province	Confirmed Cases	Region	Province	Confirmed Cases
Abruzzo	Chieti	361	Friuli Venezia Giulia	Gorizia	121	Marche	Ancona	1455	Sicilia	Agrigento	113
Abruzzo	L'Aquila	197	Friuli Venezia Giulia	Pordenone	497	Marche	Ascoli Piceno	236	Sicilia	Caltanissetta	107
Abruzzo	Pescara	771	Friuli Venezia Giulia	Trieste	763	Marche	Fermo	334	Sicilia	Catania	646
Abruzzo	Teramo	530	Friuli Venezia Giulia	Udine	830	Marche	Macerata	714	Sicilia	Enna	296
Abruzzo	Da definire	0	Friuli Venezia Giulia	Da definire	7	Marche	Pesaro e Urbino	2001	Sicilia	Messina	376
Basilicata	Matera	145	Lazio	Frosinone	425	Marche	Da definire	119	Sicilia	Palermo	329
Basilicata	Potenza	152	Lazio	Latina	364	Molise	Campobasso	166	Sicilia	Ragusa	56
Basilicata	Da definire	0	Lazio	Rieti	269	Molise	Isernia	43	Sicilia	Siracusa	122
P.A. Bolzano	Bolzano	1835	Lazio	Roma	2910	Molise	Da definire	17	Sicilia	Trapani	114
P.A. Bolzano	Da definire	0	Lazio	Viterbo	263	Piemonte	Alessandria	2016	Sicilia	Da definire	0
Calabria	Catanzaro	169	Lazio	Da definire	35	Piemonte	Asti	643	Toscana	Arezzo	398
Calabria	Cosenza	266	Liguria	Genova	2785	Piemonte	Biella	600	Toscana	Firenze	1871
Calabria	Crotone	113	Liguria	Imperia	799	Piemonte	Cuneo	1227	Toscana	Grosseto	290
Calabria	Reggio di Calabria	248	Liguria	La Spezia	605	Piemonte	Novara	1146	Toscana	Livorno	349
Calabria	Vibo Valentia	61	Liguria	Savona	654	Piemonte	Torino	6595	Toscana	Lucca	954
Calabria	Da definire	2	Liguria	Da definire	63	Piemonte	Verbano-Cusio-	719	Toscana	Massa Carrara	769
Campania	Avellino	378	Lombardia	Bergamo	9931	Piemonte	Vercelli	678	Toscana	Pisa	592
Campania	Benevento	133	Lombardia	Brescia	9909	Piemonte	Da definire	259	Toscana	Pistoia	450
Campania	Caserta	349	Lombardia	Como	1542	Puglia	Bari	861	Toscana	Prato	345
Campania	Napoli	1668	Lombardia	Cremona	4422	Puglia	Barletta-Andria-	212	Toscana	Siena	361
Campania	Salerno	489	Lombardia	Lecco	1755	Puglia	Brindisi	284	Toscana	Da definire	0
Campania	Da definire	251	Lombardia	Lodi	2347	Puglia	Foggia	652	P.A. Trento	Trento	2602
Emilia-Romagna	Bologna	2758	Lombardia	Mantova	2216	Puglia	Lecce	389	P.A. Trento	Da definire	0
Emilia-Romagna	Ferrara	538	Lombardia	Milano	12039	Puglia	Taranto	201	Umbria	Perugia	941
Emilia-Romagna	Forlì-Cesena	1058	Lombardia	Monza e della Brianza	3264	Puglia	Da definire	35	Umbria	Terni	303
Emilia-Romagna	Modena	2811	Lombardia	Pavia	2823	Sardegna	Cagliari	151	Umbria	Da definire	45
Emilia-Romagna	Parma	2395	Lombardia	Sondrio	636	Sardegna	Nuoro	67	Valle d'Aosta	Aosta	850
Emilia-Romagna	Piacenza	2980	Lombardia	Varese	1348	Sardegna	Oristano	29	Valle d'Aosta	Da definire	0
Emilia-Romagna	Ravenna	746	Lombardia	Da definire	1182	Sardegna	Sassari	654	Veneto	Belluno	602
Emilia-Romagna	Reggio nell'Emilia	3352				Sardegna	Sud Sardegna	74	Veneto	Padova	3056
Emilia-Romagna	Rimini	1596				Sardegna	Da definire	0	Veneto	Rovigo	232
Emilia-Romagna	Da definire	0							Veneto	Treviso	1863
									Veneto	Venezia	1630
									Veneto	Verona	2920
									Veneto	Vicenza	1782
									Veneto	Da definire	325

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Sources: Elaborations on Italian Health Ministry and Civil Protection data – Data subject to verification

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The government has issued some extraordinary measures (cfr. <http://www.governo.it/it/approfondimento/coronavirus/13968>)

In summary:

- Resolution of the Council of Ministers January 31, 2020 "Declaration of the state of emergency"
- Ministry of Health Ordinance of 21 February 2020 (press release n.85)
- Law Decree 23 February 2020 n. 6 which introduces urgent measures regarding the containment and management of the epidemiological emergency from COVID-19 (converted into law)
- DPCM 23 February 2020 n. 6 of implementation of the provisions of Legislative Decree 6/2020
- Ministry of Economy and Finance Decree 24 February 2020 for the suspension of the terms for the fulfillment of tax obligations in favor of taxpayers affected by the epidemiological emergency from COVID-19
- Prime Ministerial Decree of 25 February 2020 for further implementing provisions of Legislative Decree no. 6/2020 times to contrast and prevent the further spread of the COVID-19 virus
- Law Decree 2 March 2020 n. 9 which introduces urgent support measures for families, workers and businesses related to the epidemiological emergency from COVID-19
- Prime Ministerial Decree of 1st March 2020 which extends some measures already adopted for the containment and management of the epidemiological emergency from COVID-19, and introduces new measures
- Prime Ministerial Decree of 4 March 2020 for further measures for the containment and management of the epidemiological emergency from COVID-19 (suspension of teaching activities throughout Italy, ban on meetings, etc.)
- Additional fund definition, from the Fund for national emergencies, for the implementation of containment and contrast measures against the spread of the disease the broadcast - 5 March 2020
- DPCM 8 March 2020 containing further measures for the containment and contrast of the spread of the Covid-19 virus throughout the national territory (red areas quarantine, in Italy suspension of activities that involve gatherings, closure of services that involve gatherings)

(follows)

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(follows)

Main measures issued by the Italian government

- OCDPC - Civil Protection Ordinance for clarifications on DPCM 08 March 2020
- DPCM 9 March 2020 of extension to the whole national territory of the measures of the DPCM 8 March 2020
- Ministry of Internal Affairs - Directives to Prefects and Self-declaration form for travel
- Law Decree n. 14 of 9 March 2020 containing urgent provisions for the strengthening of the National Health Service
- Prime Ministerial Decree of 11 March 2020 - Urgent measures to contain contagion throughout the national territory - suspension of activities except for specific exceptions
- Law Decree n. 18 of 17 March 2020 «Curitalia» - new economic and financial measures to support families, workers, businesses
- Prime Ministerial Decree of 22 March 2020 - Additional measures regarding the containment and management of the epidemiological emergency from COVID-19 on the whole national territory
- Ministry of Health and Ministry of the Interior of 22 March 2020 - Prohibition of movement of individuals between municipalities
- Ministry of the Interior circular 15350 of 24 March 2020 for clarifications on the Prime Minister's Decree of 22 March 2020
- Law Decree n. 19 of 25 March 2020 - Urgent measures to deal with the epidemiological emergency from COVID-19
- Prime Ministerial Decree of 01 April 2020 - Urgent provisions regarding the containment of the infection – Extension up to 13th April 2020

Specific measures have been adopted by the Regions

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1. Piemonte [Toll free number 800.333.444 - <https://www.regione.piemonte.it/web/temi/sanita>]
2. Veneto [Toll free number 800.462.340 - <https://www.regione.veneto.it/article-detail?articleId=4275256>]
3. Lombardia [Toll free number 800.894.545 - <https://www.regione.lombardia.it/wps/portal/istituzionale/HP/DettaglioRedazionale/servizi-e-informazioni/cittadini/salute-e-prevenzione/Prevenzione-e-benessere/red-coronavirusnuoviaggiornamenti/red-coronavirusnuoviaggiornamenti>]
4. Liguria [Public Service/Utility Number 1500 - <https://www.regione.liguria.it/eventi-live/coronavirus.html>]
5. Emilia Romagna [Toll free number 800.033.033 - <https://www.regione.emilia-romagna.it/notizie/primo-piano/sospesa-attivita-scuole-nidi-e-manifestazioni-tutte-le-misure-adottate-contro-il-coronavirus>]
6. Friuli Venezia Giulia [Toll free number 800.500.300 - <https://www.regione.fvg.it/rafvvg/cms/RAFVG/>]
7. Trentino Alto Adige [Toll free number 800.751.751 – 800.867.388- ...]
8. Lazio [Toll free number 800.118.800 - http://www.regione.lazio.it/rl_main/?vw=newsDettaglio&id=5335]
9. Toscana [Toll free number 800.556.060 - <https://www.regione.toscana.it/-/coronavirus>]
10. Puglia [800.713.931 - <http://www.regione.puglia.it/coronavirus>]
11. Basilicata [800.996.688 - <https://www.regione.basilicata.it/giunta/site/Giunta/detail.jsp?otype=1012&id=3063428>]
12. Abruzzo [Public Service/Utility Number 1500 - <https://www.regione.abruzzo.it/content/coronavirus-la-situazione-abruzzo>]
13. Marche [Toll free number 800.936.677 - <https://www.regione.marche.it/Regione-Utile/Salute/Coronavirus>]
14. Campania [Toll free number 800.909.699 - <http://www.regione.campania.it/regione>]
15. Molise: [Numbers 0874/313000-409000 - <http://www3.regione.molise.it/flex/cm/pages/ServeBLOB.php/L/IT/IDPagina/17083>]
16. Valle d'Aosta: Toll free number 800.122.121 - https://www.regione.vda.it/pressevda/Eventi/coronavirus_i.aspx
17. Umbria: Toll free number 800.636.363 <http://www.regione.umbria.it/coronavirus>
18. Sicilia: Toll free number 800.458.787- http://pti.regione.sicilia.it/portal/page/portal/PIR_PORTALE/
19. Sardegna: Toll free number 800.311.377 http://www.regione.sardegna.it/argomenti/sanita/igiene_pubblica.html
20. Calabria Toll free number 800.767.676 - <https://www.regione.calabria.it/website/>

World Health Organization

<https://www.who.int/emergencies/diseases/novel-coronavirus-2019>

<https://www.who.int/emergencies/diseases/novel-coronavirus-2019/situation-reports/>

<http://who.maps.arcgis.com/apps/opsdashboard/index.html#/c88e37cfc43b4ed3baf977d77e4a0667>

<https://www.who.int/csr/sars/en/>

https://www.who.int/csr/sars/country/table2004_04_21/en/

National Health Commission of the People's Republic of China

<http://en.nhc.gov.cn/index.html>

Johns Hopkins University's Center for Systems Science and Engineering map that follows coronavirus cases across the world

<https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6>

<http://www.centerforhealthsecurity.org/resources/2019-nCoV/>

European Centre for Disease Prevention and Control

<https://www.ecdc.europa.eu/en/home>

<https://www.ecdc.europa.eu/en/geographical-distribution-2019-ncov-cases>

Centers for Disease Control and Prevention

<https://www.cdc.gov/>

<https://www.cdc.gov/coronavirus/2019-ncov/index.html>

The Global Health Network

<https://tghn.org/>

<https://coronavirus.tghn.org/>

DXY.cn - online community for physicians, health care professionals, pharmacies and facilities

<https://ncov.dxy.cn/ncovh5/view/pneumonia?scene=2&clicktime=1579582238&enterid=1579582238&from=singlemessage&isappinstalled=0>

Abdul Latif Jameel Institute for Disease and Emergency Analytics

<https://www.imperial.ac.uk/jameel-institute/>

Science Alert

<https://www.sciencealert.com/these-5-tools-provide-up-to-date-tracking-of-the-coronavirus>

Health Map

<https://www.healthmap.org/wuhan/>

Ministero della Salute

<http://www.salute.gov.it/nuovocoronavirus>

Protezione Civile

<http://www.protezionecivile.gov.it/home>

<http://opendatadpc.maps.arcgis.com/apps/opsdashboard/index.html#/b0c68bce2cce478eaac82fe38d4138b1>

Wikipedia

<https://www.wikipedia.org/>

Mixed Sources

<https://www.gouvernement.fr/info-coronavirus/carte-et-donnees>

<https://coronavirus.politologue.com/coronavirus-france.FR>

https://experience.arcgis.com/experience/478220a4c454480e823b17327b2bf1d4/page/page_0/

<https://covid19.isciii.es/>

<https://www.arcgis.com/apps/opsdashboard/index.html#/f94c3c90da5b4e9f9a0b19484dd4bb14>

<http://opendatadpc.maps.arcgis.com/apps/opsdashboard/index.html#/b0c68bce2cce478eaac82fe38d4138b1>

<https://gisanddata.maps.arcgis.com/apps/opsdashboard/index.html#/bda7594740fd40299423467b48e9ecf6>

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