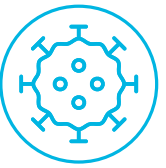
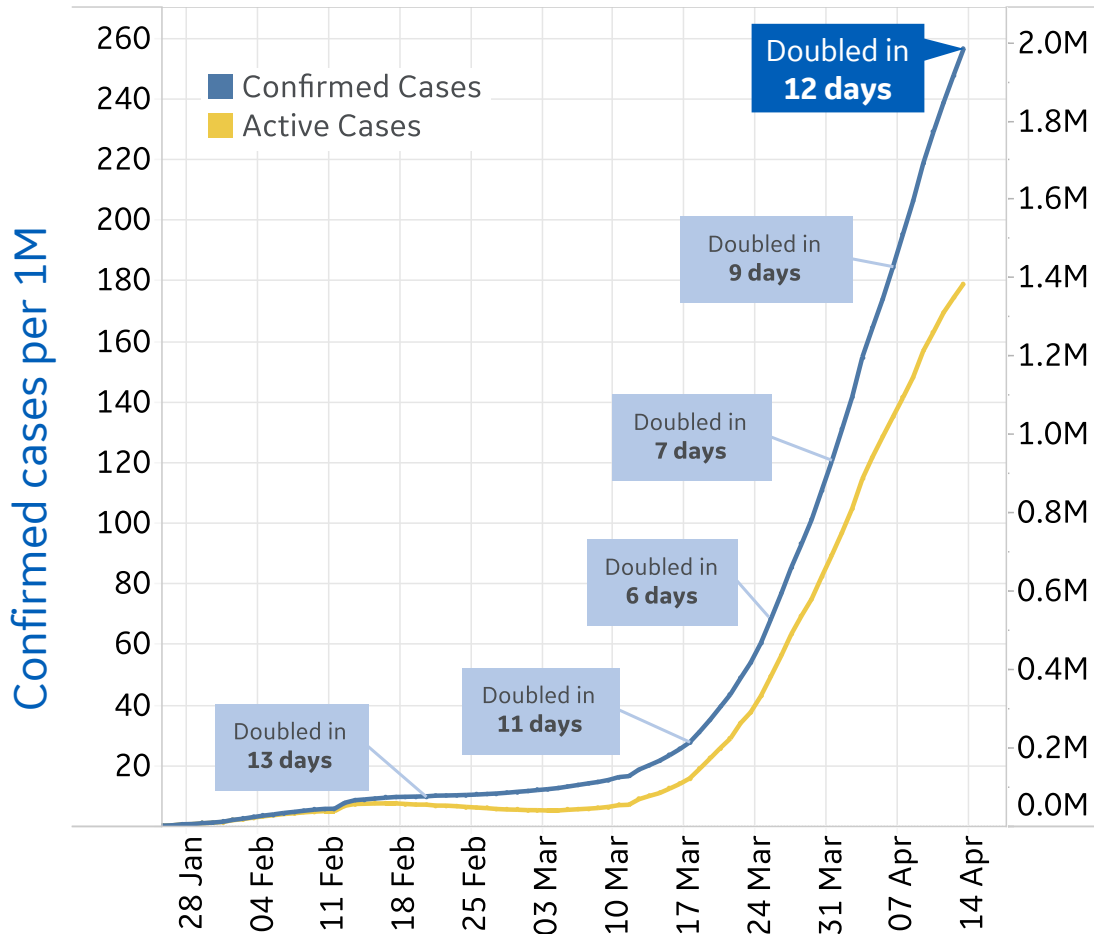


Global Confirmed & Active Cases



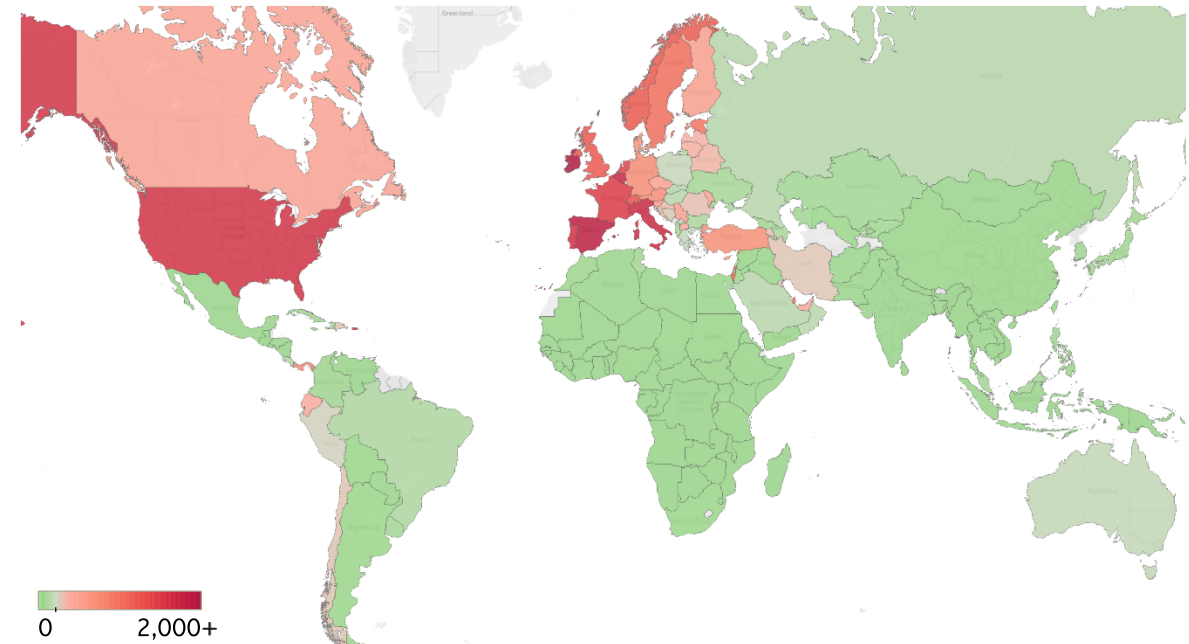
Trend since 22 Jan



Total confirmed cases

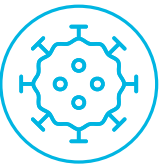
Today per 1M

$$\text{Active cases} = \text{Confirmed} - \text{Recovered} - \text{Deaths}$$



Per 1M:	Today	Change
Active Cases	178	+2%
Confirmed	9 new	+3%
Deaths	1 new	+5%
Recovered	3 new	+6%

Global Summary



Volume

	Active Cases	Today			Total since 22 Jan		
		Confirmed	Deaths	Recovered	Total Confirmed	Total Deaths	Total Recovered
US	531,673	24,574	2,228	4,281	605,193	25,757	47,763
Italy	104,291	2,972	602	1,695	162,488	21,067	37,130
France	98,769	5,428	743	804	143,303	15,729	28,805
Spain	86,981	2,442	300	2,777	172,541	18,056	67,504
UK	82,393	5,275	782	19	94,845	12,129	323
Germany	59,865	1,287	100	3,900	131,359	3,294	68,200
Netherlands	24,328	870	122	2	27,580	2,955	297
Iran	22,065	1,574	98	2,146	74,877	4,683	48,129
Belgium	20,094	530	254	161	31,119	4,157	6,868
Canada	17,925	1,355	120	452	27,034	899	8,210
Portugal	16,534	514	32	70	17,448	567	347
Switzerland	11,062	248	36	0	25,936	1,174	13,700
Ireland	11,048	832	41	0	11,479	406	25
Sweden	10,031	497	114	0	11,445	1,033	381
Israel	9,728	460	7	340	12,046	123	2,195
Norway	6,452	20	5	0	6,623	139	32
Panama	3,317	72	7	32	3,472	94	61
Qatar	3,048	197	0	39	3,428	7	373
South Korea	2,808	27	5	87	10,564	222	7,534
China	1,761	93	0	161	83,306	3,345	78,200
Estonia	1,227	41	3	13	1,373	31	115
Total World	1,373,544	56,395	6,427	25,606	1,973,714	125,909	474,261

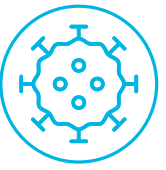
There are nearly 475,000 recovered cases **globally**

Per 1M

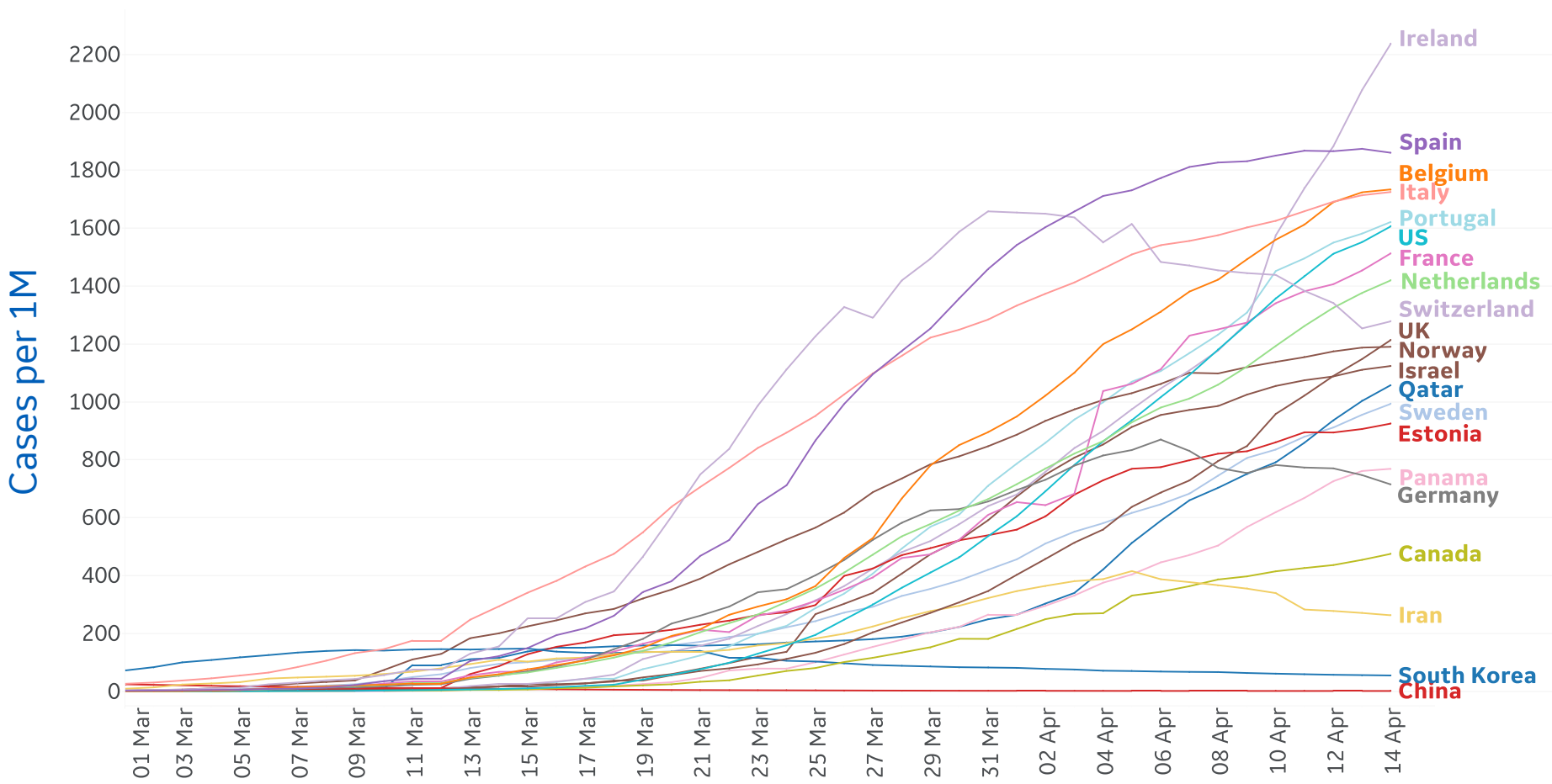
	Active Cases	Today			Total since 22 Jan		
		Confirmed	Deaths	Recovered	Total Confirmed	Total Deaths	Total Recovered
Ireland	2,237	168	8	0	2,325	82	5
Spain	1,860	52	6	59	3,690	386	1,444
Belgium	1,734	46	22	14	2,685	359	593
Italy	1,725	49	10	28	2,687	348	614
Portugal	1,622	50	3	7	1,711	56	34
US	1,606	74	7	13	1,828	78	144
France	1,513	83	11	12	2,195	241	441
Netherlands	1,420	51	7	0	1,610	172	17
Switzerland	1,278	29	4	0	2,997	136	1,583
UK	1,214	78	12	0	1,397	179	5
Norway	1,190	4	1	0	1,222	26	6
Israel	1,124	53	1	39	1,392	14	254
Qatar	1,058	68	0	14	1,190	2	129
Sweden	993	49	11	0	1,133	102	38
Estonia	925	31	2	10	1,035	23	87
Panama	769	17	2	7	805	22	14
Germany	715	15	1	47	1,568	39	814
Canada	475	36	3	12	716	24	218
Iran	263	19	1	26	891	56	573
South Korea	55	1	0	2	206	4	147
China	1	0	0	0	58	2	54
Total World	178	7	1	3	255	16	61

In the last 7 days, active case volume in **Germany** decreased by 14%

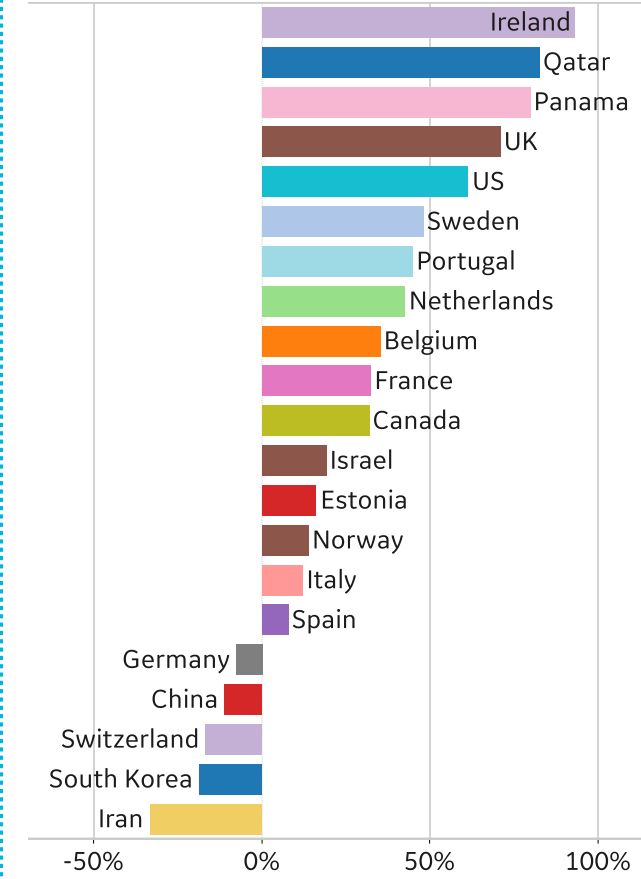
Trends in Active Cases



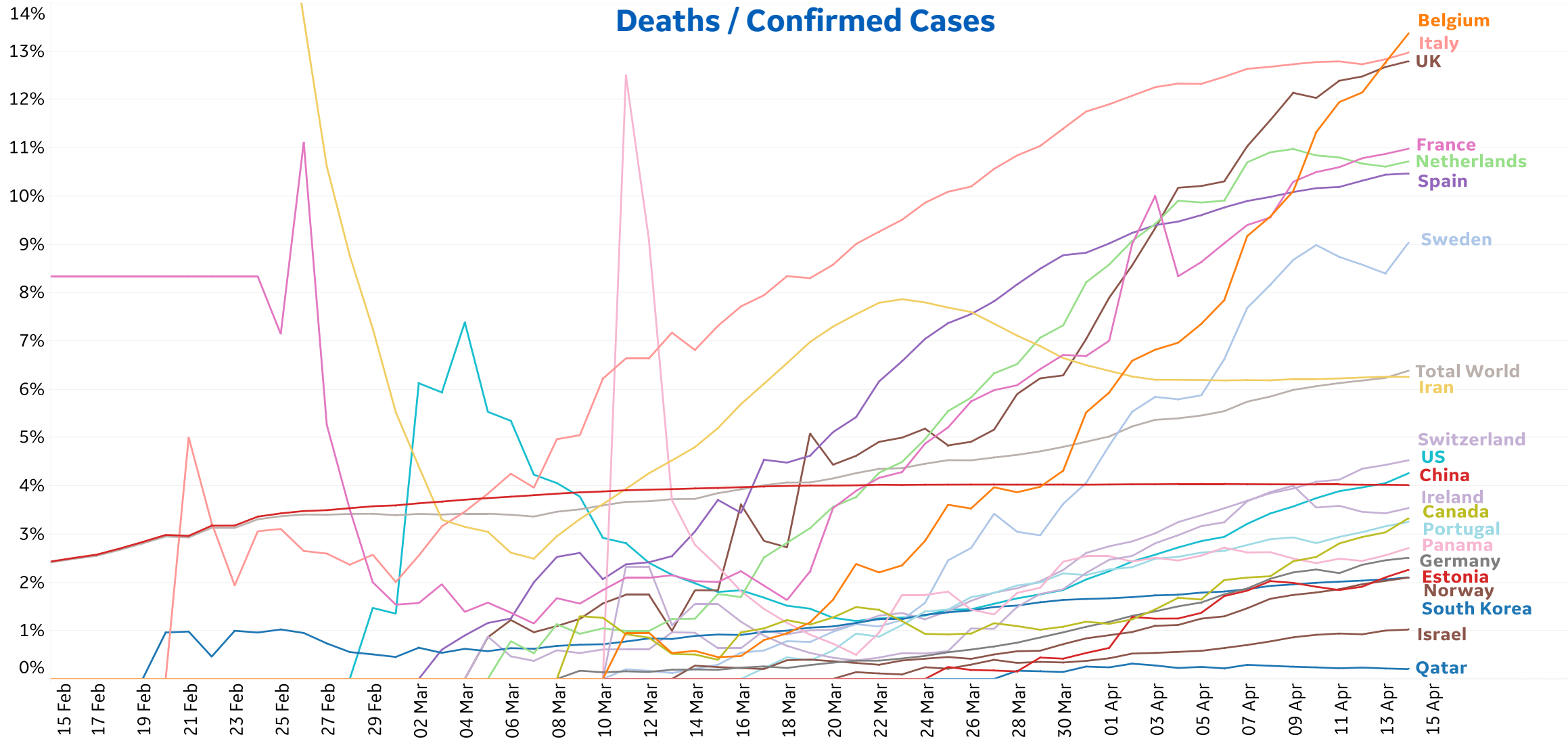
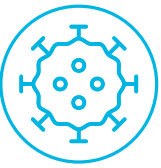
Active Cases by Country Since 1 March 2020



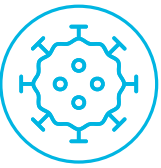
% Change in Active Cases Over Previous 7 Days



Fatality Rate over time by Country



Feature: Surgery Bounce Back



Sample Hospital Elective Surgery Profiles

Facilities vary in:

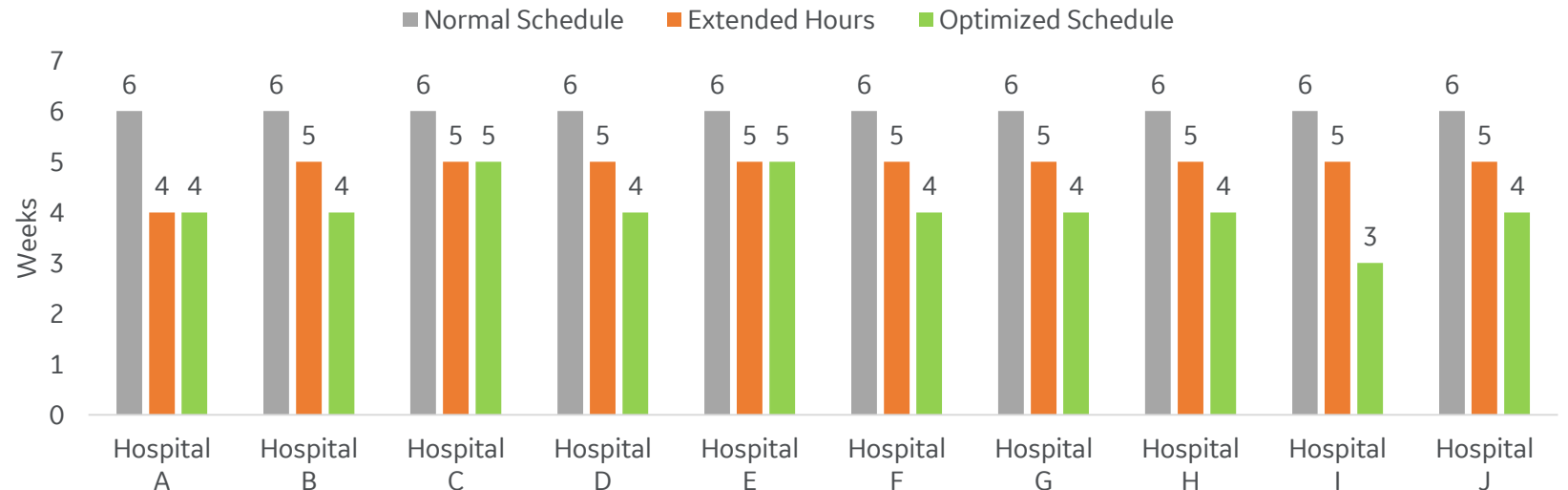
- Mix of case type (elective/non-elective)
- Mix of patient type (Inpatient/Outpatient)
- Open time in block schedule
- Normal room utilization
- Latent capacity
- Inpatient bed capacity
- Amount of elective backlog (surgery and other procedural areas)
- Duration of elective restrictions

Hospital	Hospital Type	# of ORs	Elective Cases/Week	Elective Hrs/Week	Avg IP Census	% of Total Vol	Elective Cases/Week (per OR)	OR Hrs/Week (per OR)
Hospital A	AMC	50	338	1413	135	70%	6.8	28
Hospital B	AMC	35	393	1143	157	92%	11.2	33
Hospital C	AMC	27	267	1207	107	91%	9.9	45
Hospital D	AMC	24	209	809	84	74%	8.7	34
Hospital E	Teaching	18	193	671	77	81%	10.7	37
Hospital F	Teaching	17	148	529	59	85%	8.7	31
Hospital G	Teaching	11	96	301	38	80%	8.7	27
Hospital H	Teaching	10	121	310	48	74%	12.1	31
Hospital I	Community	8	75	199	30	80%	9.4	25
Hospital J	Community	8	120	224	48	87%	15	28

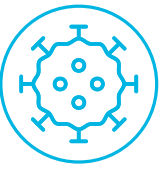
Factors impacting time to recover to normal operations:

- Backlog of elective cases
- Expected urgent and emergent volume
- Ongoing COVID-19 demand
- Capacity
 - Operating Rooms
 - PACU
 - Inpatient beds
- Allocation of time in surgical schedule
- Surgeon and Staff availability
- Patient acuity

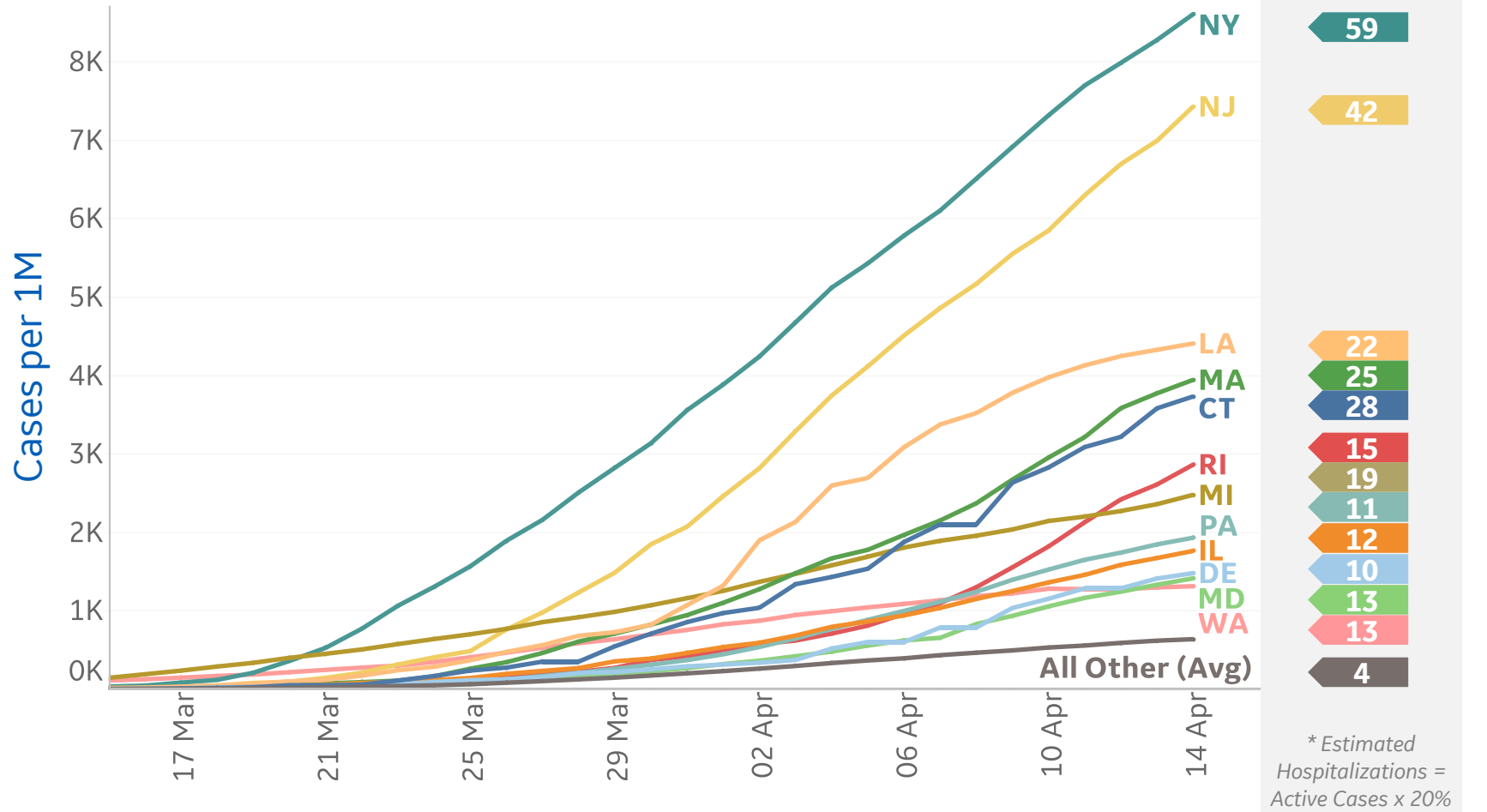
Completion of Backlog by Scheduling Strategy, assuming 6 week shutdown



Feature: US States

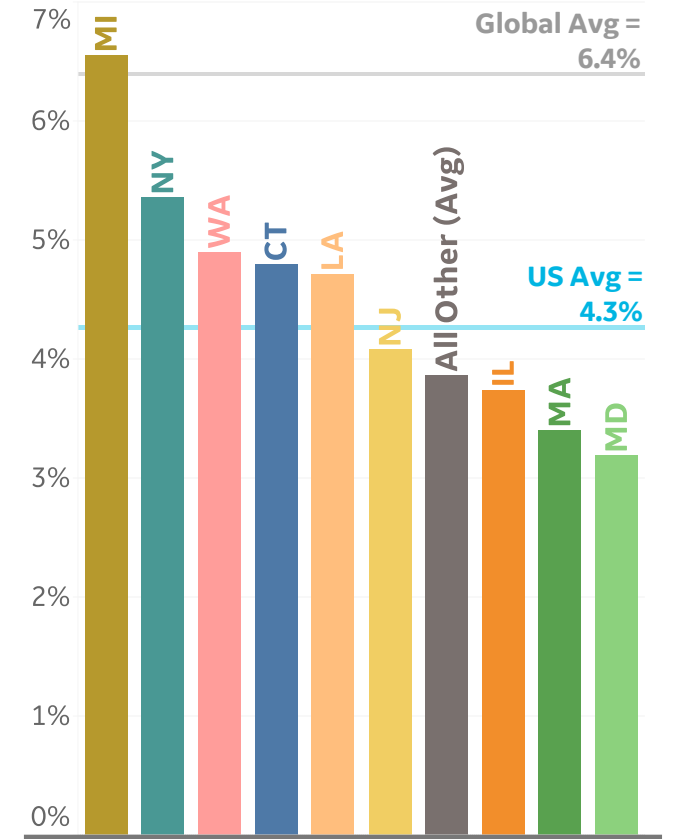


States with Most Active Cases per 1M



Fatality Rate by State

Deaths / Confirmed Cases



The **median** state fatality rate is 3.0%.
 The **lowest** state fatality rates are reported by UT, SD, and WY (all < 1%).

Europe & Middle East

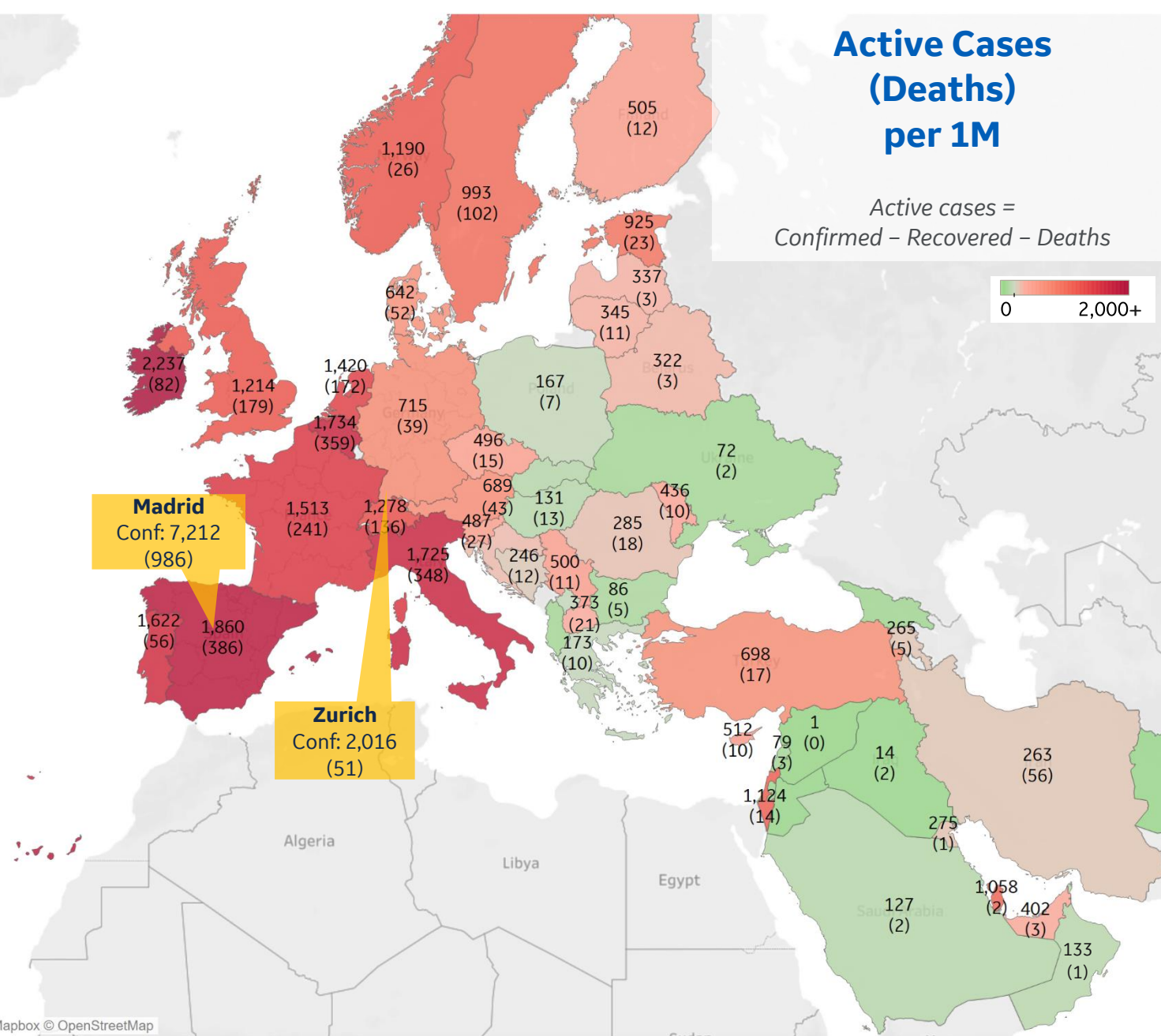
Per 1M in Region

	Today	Change
Active Cases	724	+2%
Confirmed	33 new	+3%
Deaths	4 new	+4%
Recovered	15 new	+5%

Most Active Cases per 1M

Ireland	2,237
Spain	1,860
Belgium	1,734
Italy	1,725
Portugal	1,622
France	1,513
Netherlands	1,420
Switzerland	1,278
UK	1,214
Norway	1,190

* Excludes regions with population < 1M



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Updated 15 April 2020, 1:00 GMT

Italy

Per 1M in Region

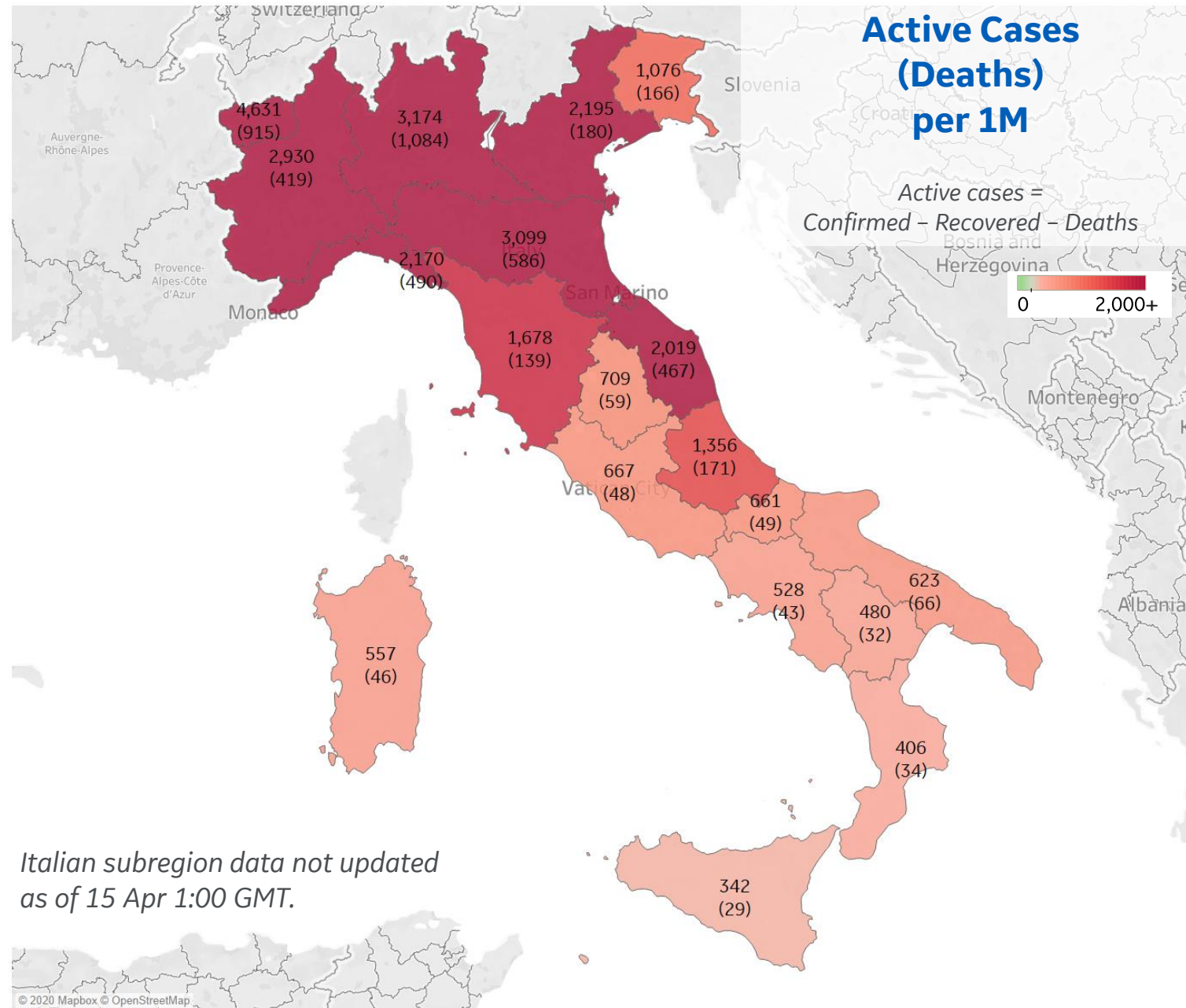
	Today	Change
Active Cases	1,725	+1%
Confirmed	49 new	+3%
Deaths	10 new	+5%
Recovered	28 new	+6%

* Data through 15 Apr

Most Active Cases per 1M

Lombardia	3,174
Emilia-Romagna	3,099
Piemonte	2,930
Veneto	2,195
Liguria	2,170
Marche	2,019
Trentino-Alto Adi..	1,940
Toscana	1,678
Sudtirolo	1,433
Abruzzo	1,356

Italian subregion data not updated
as of 15 Apr 1:00 GMT.



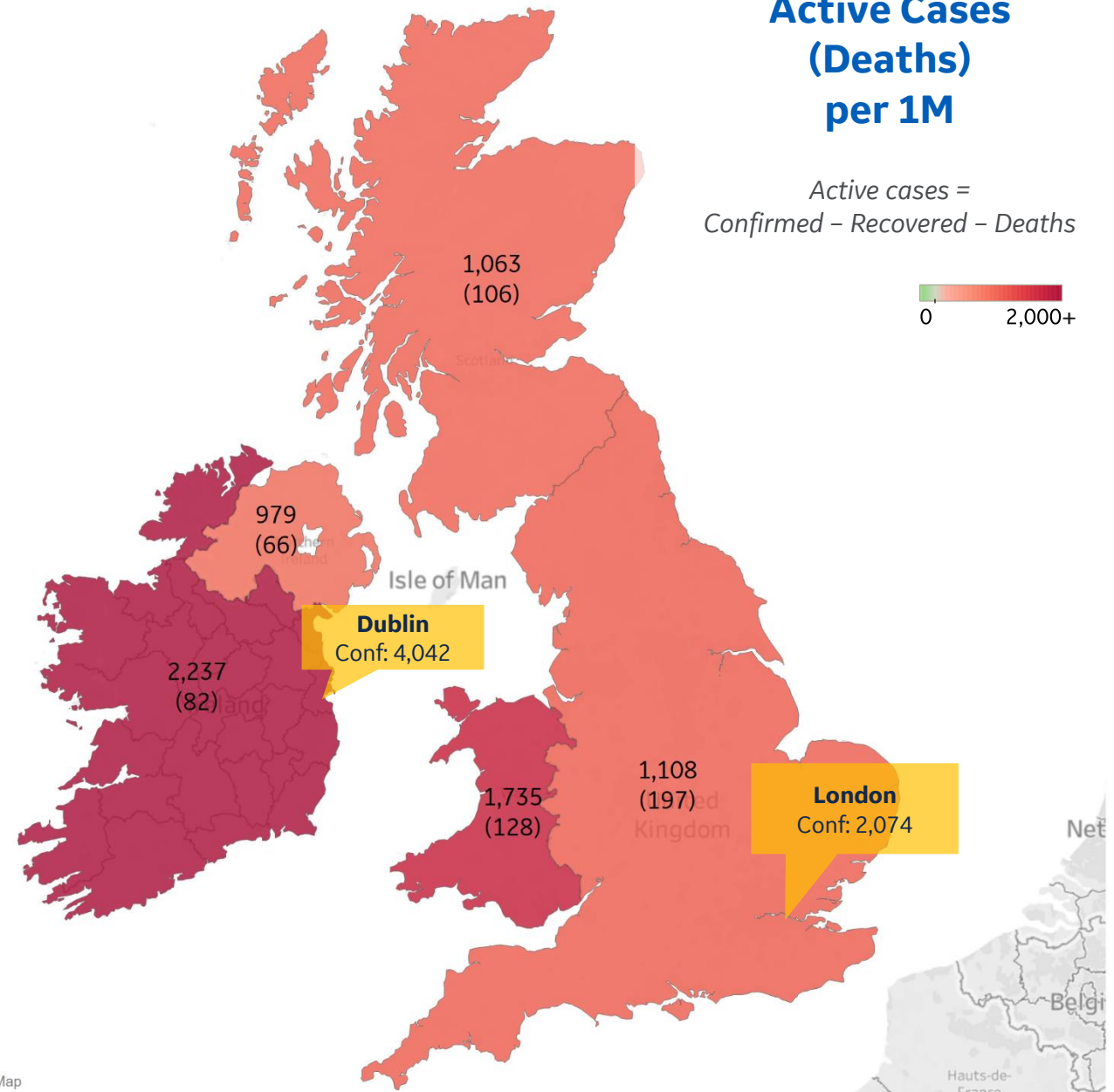
UK & Ireland

Per 1M in Region

	Today	Change
Active Cases	1,283	+6%
Confirmed	84 new	+6%
Deaths	11 new	+7%
Recovered	0.3 new	+6%

Most Active Cases per 1M

Ireland	2,237
Wales	1,735
England	1,108
Scotland	1,063
Northern Ireland	979



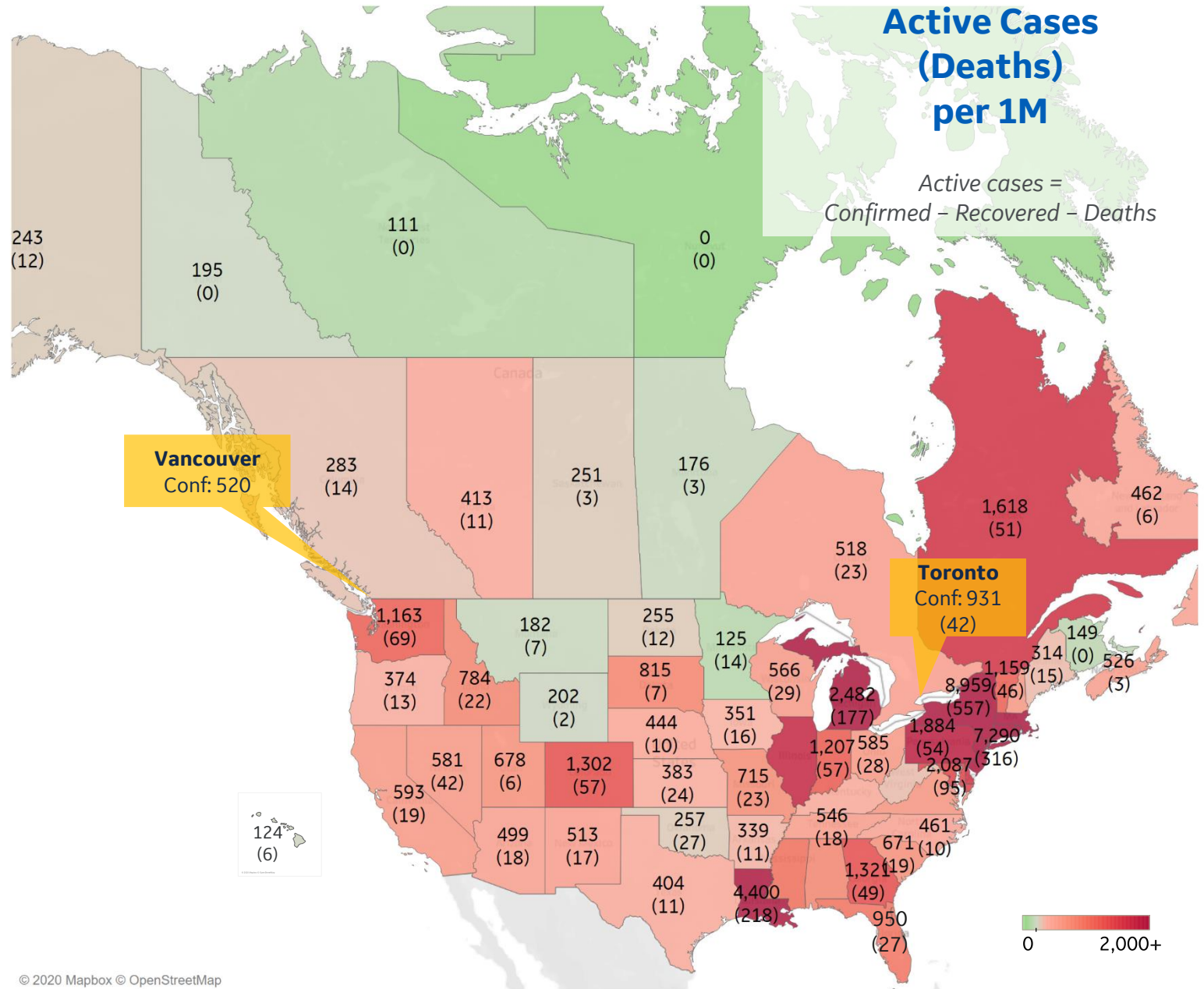
US & Canada

Per 1M in Region

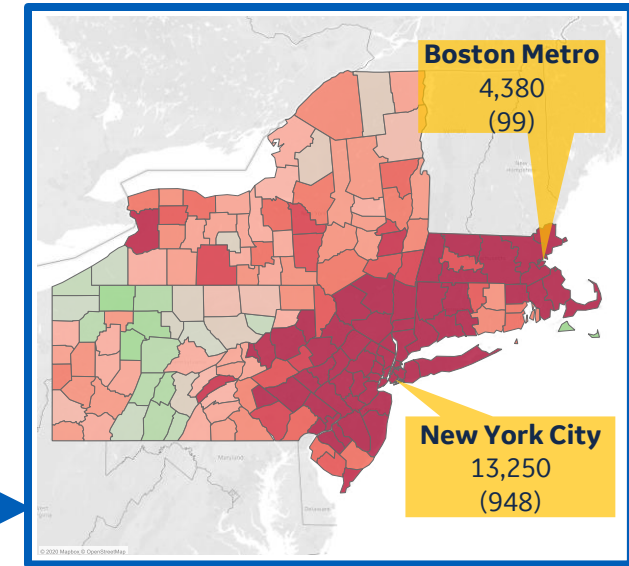
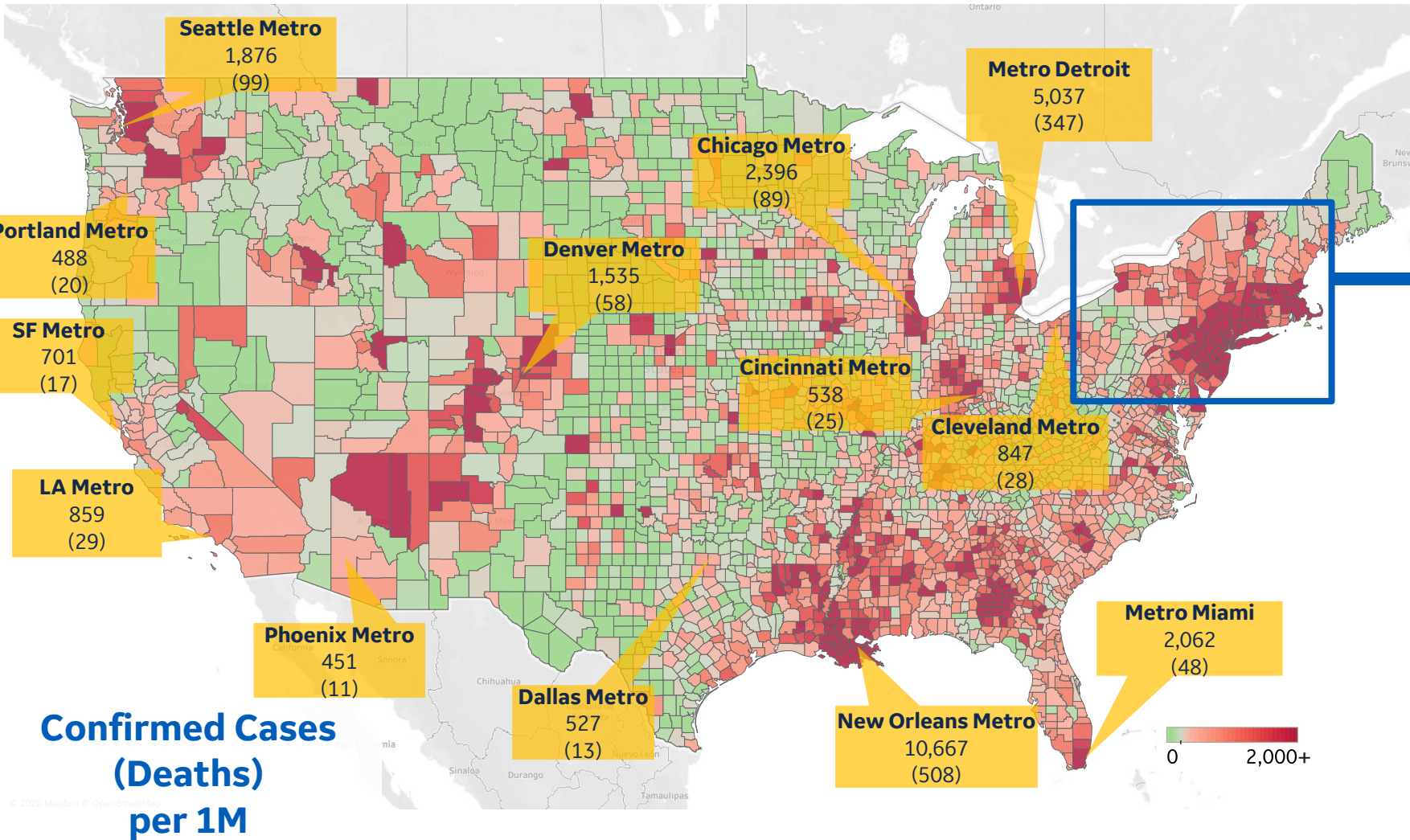
	Today	Change
Active Cases	1,490	+4%
Confirmed	70 new	+4%
Deaths	6 new	+10%
Recovered	13 new	+9%

Most Active Cases per 1M

New York	8,959
New Jersey	7,290
Louisiana	4,400
Massachusetts	3,841
Connecticut	3,717
Rhode Island	2,984
Michigan	2,482
DC	2,087
Pennsylvania	1,884
Illinois	1,762



US by County & Metro Area



Counties* with Most Confirmed Cases per 1M

Nassau County	NY	18,608
Suffolk County	NY	15,367
New York City**	NY	13,250
Wayne County	MI	6,979
Philadelphia County	PA	4,501
Oakland County	MI	4,265
Middlesex County	MA	3,880
Cook County	IL	3,169
Miami-Dade County	FL	2,838
King County	WA	2,019

* Includes counties with ≥ 1M population and ≥ 800 confirmed cases
 ** New York City counties aggregated into one reporting area

Oceania

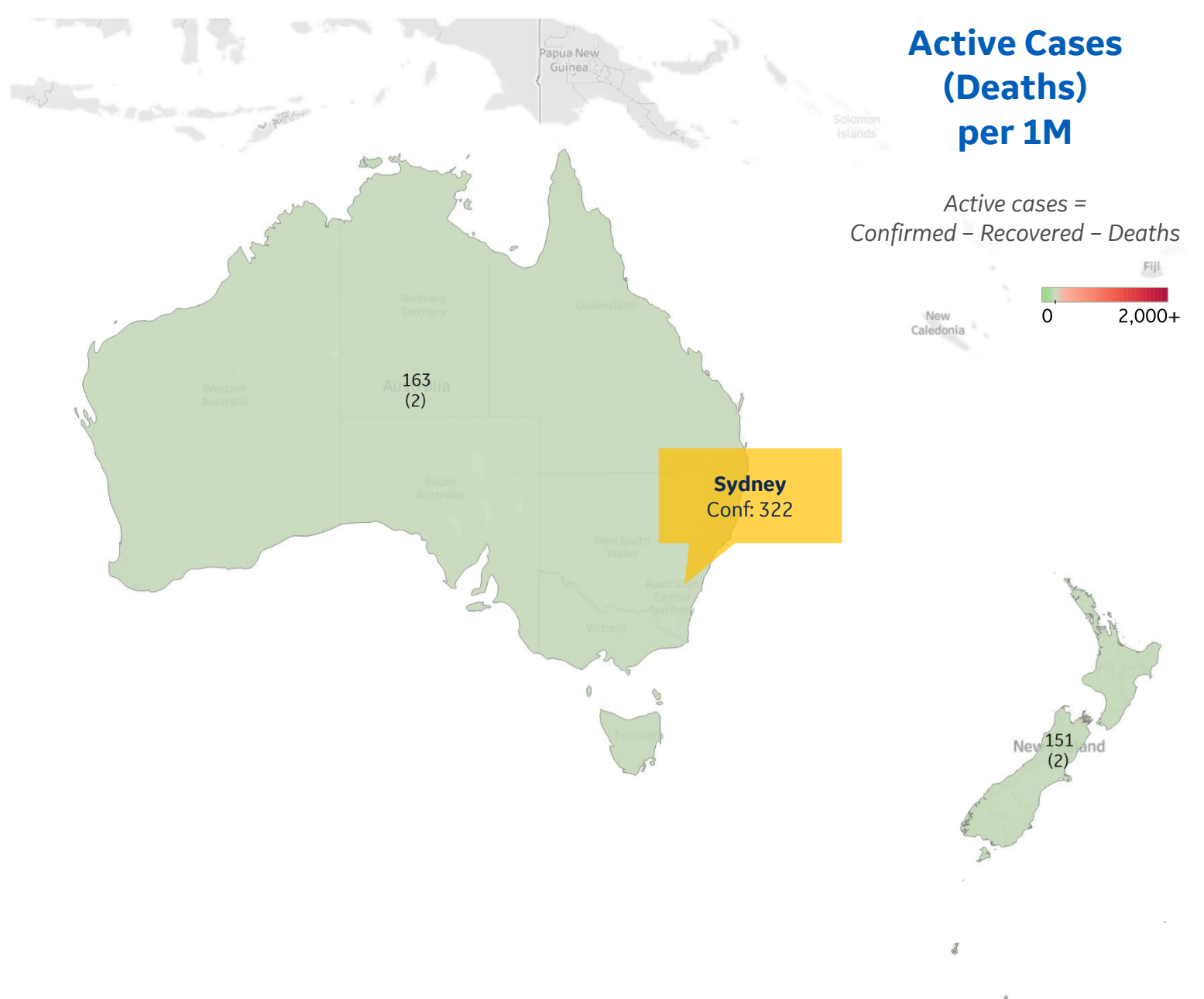
Per 1M in Region

	Today	Change
Active Cases	157	-7%
Confirmed	3 new	+1%
Deaths	0.2 new	+8%
Recovered	15 new	+20%

Most Active Cases per 1M

Australia	163
New Zealand	151

* Excludes regions with population < 1M



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Latin & South America

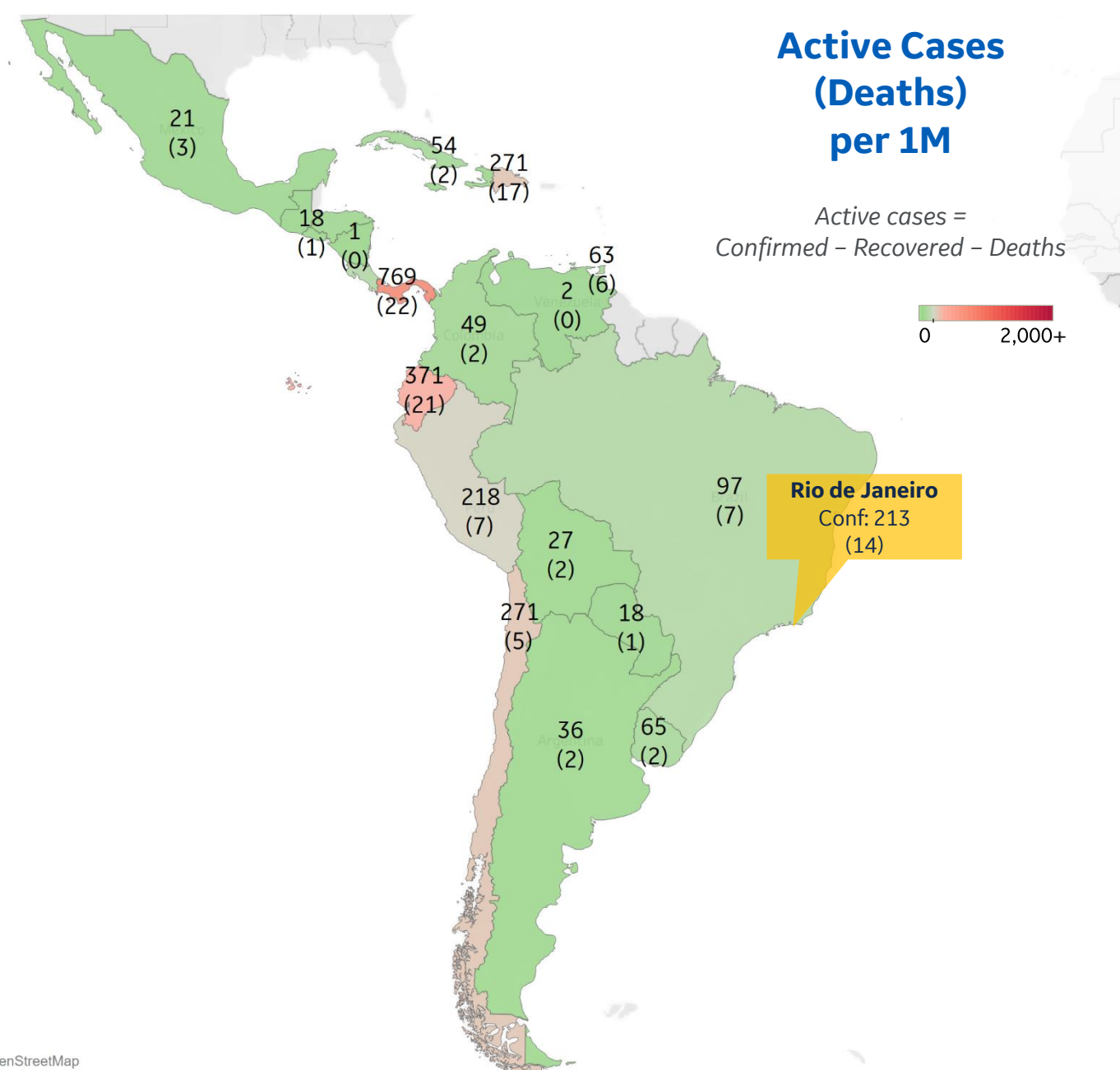
Per 1M in Region

	Today	Change
Active Cases	86	-1%
Confirmed	6 new	+5%
Deaths	0.5 new	+11%
Recovered	6 new	+40%

Most Active Cases per 1M

Panama	769
Ecuador	371
Dominican Repub..	271
Chile	271
Peru	218
Costa Rica	108
Brazil	97
Uruguay	65
Trinidad and Toba..	63
Cuba	54

* Excludes regions with population < 1M



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Asia

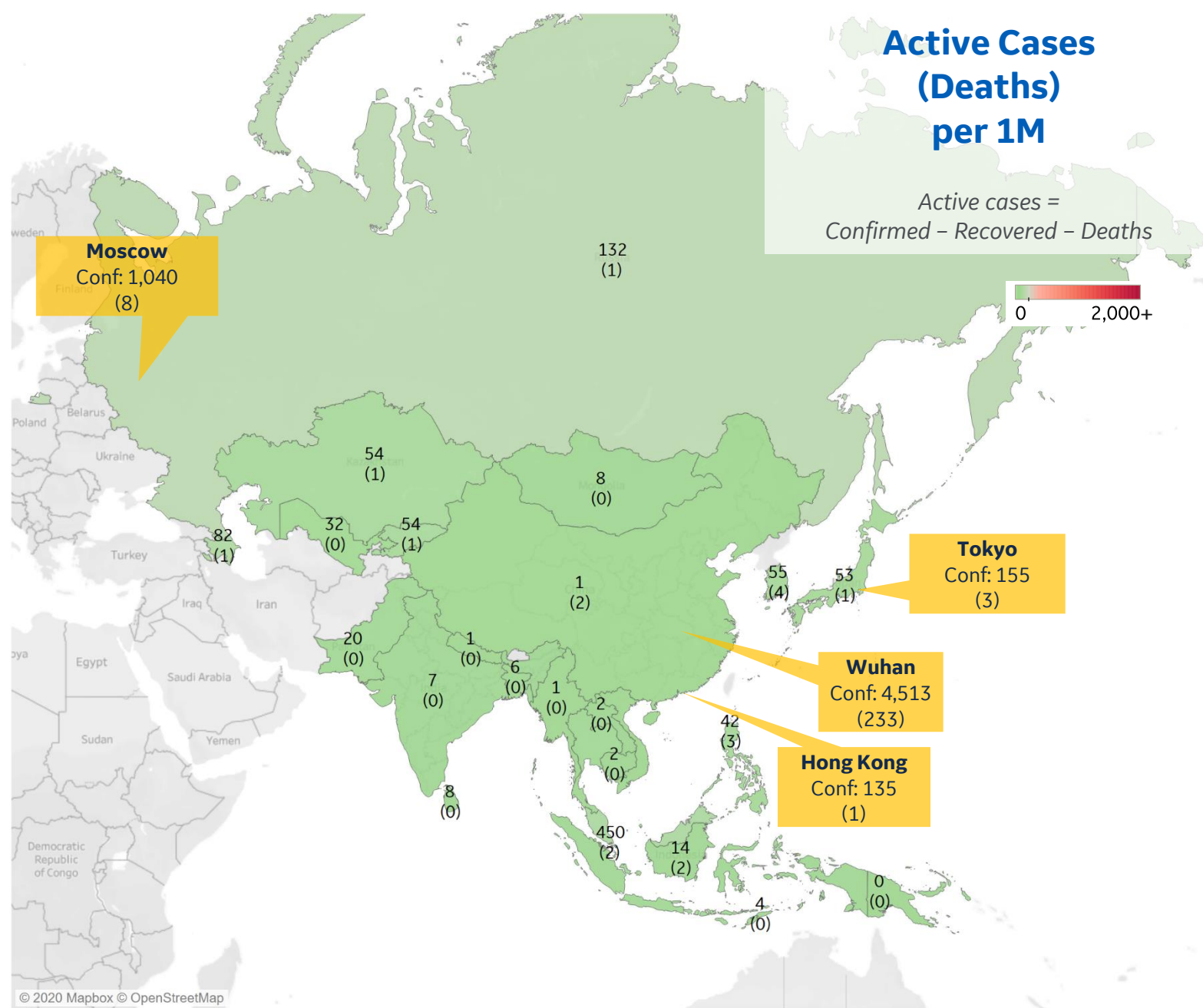
Per 1M in Region

	Today	Change
Active Cases	15	+8%
Confirmed	1 new	+4%
Deaths	0.04 new	+3%
Recovered	0.4 new	+2%

Most Active Cases per 1M

Singapore	450
Russia	132
Azerbaijan	82
Malaysia	75
South Korea	55
Kyrgyzstan	54
Kazakhstan	54
Japan	53
Philippines	42
Uzbekistan	32

* Excludes regions with population < 1M



Africa

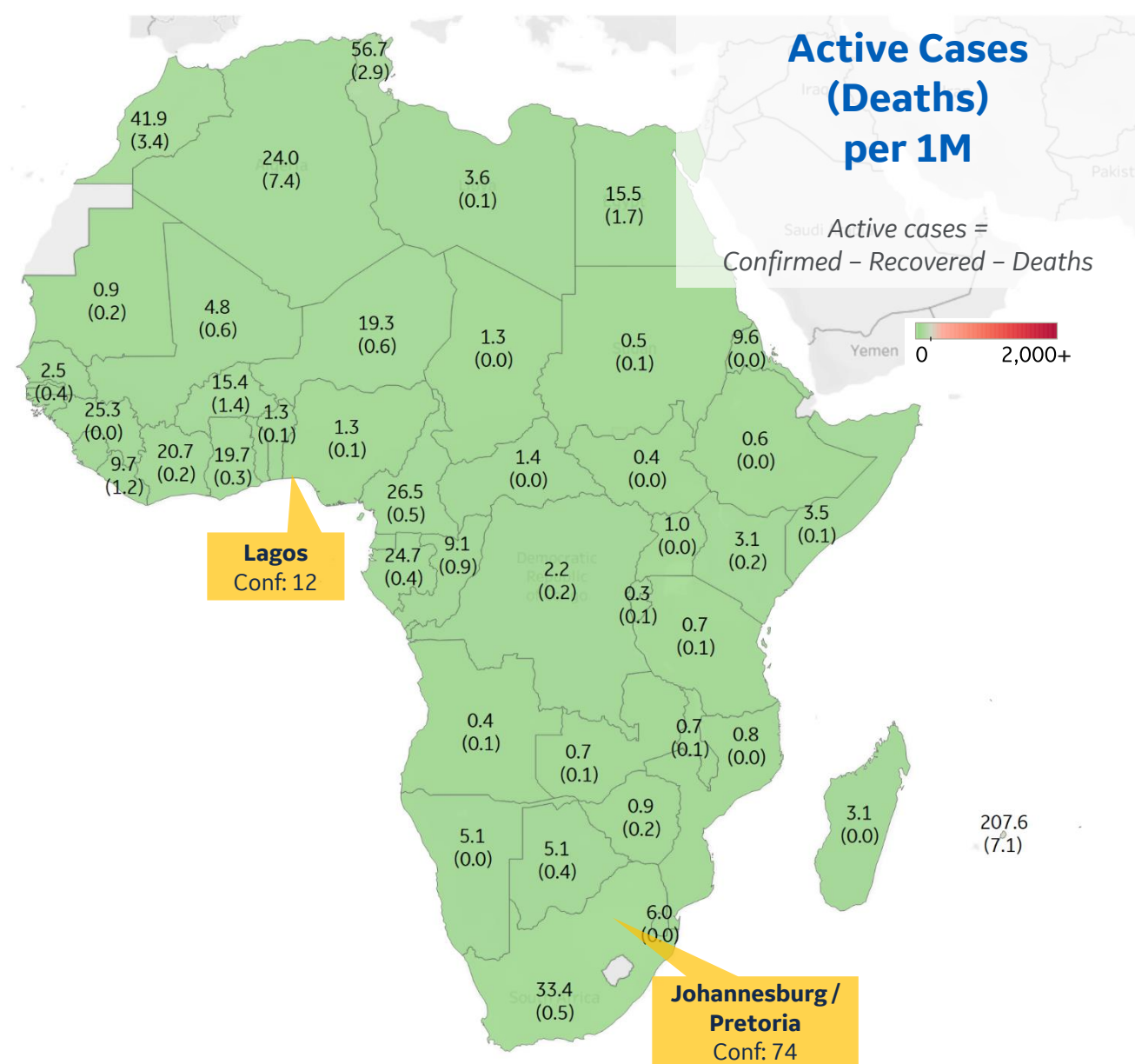
Per 1M in Region

	Today	Change
Active Cases	9	+5%
Confirmed	1 new	+6%
Deaths	0.03 new	+5%
Recovered	0.2 new	+10%

Most Active Cases per 1M

Mauritius	208
Tunisia	57
Morocco	42
South Africa	33
Cameroon	27
Equatorial Guinea	26
Guinea	25
Gabon	25
Algeria	24
Cote d'Ivoire	21

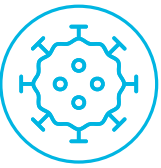
* Excludes regions with population < 1M



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