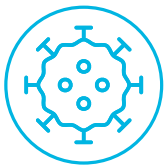
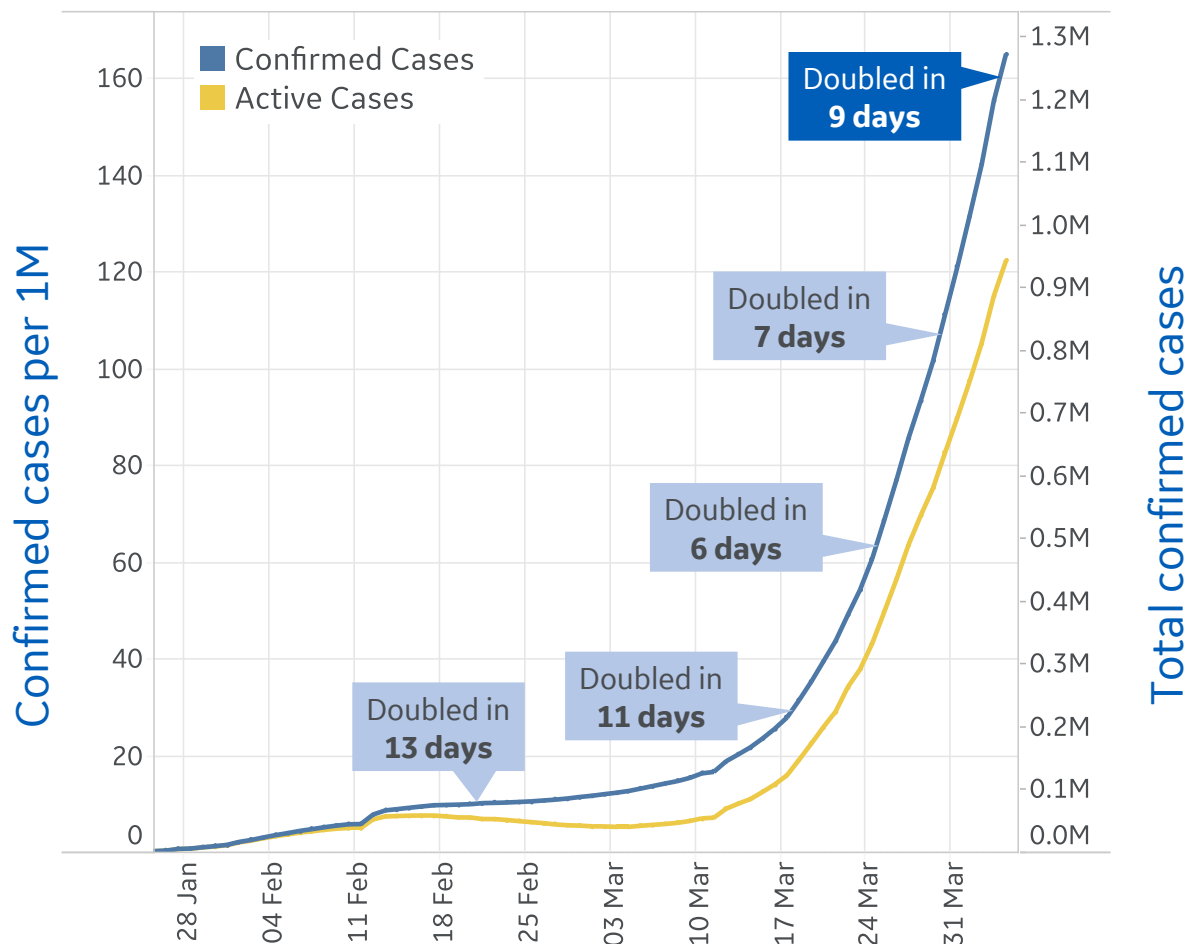


Global Confirmed & Active Cases

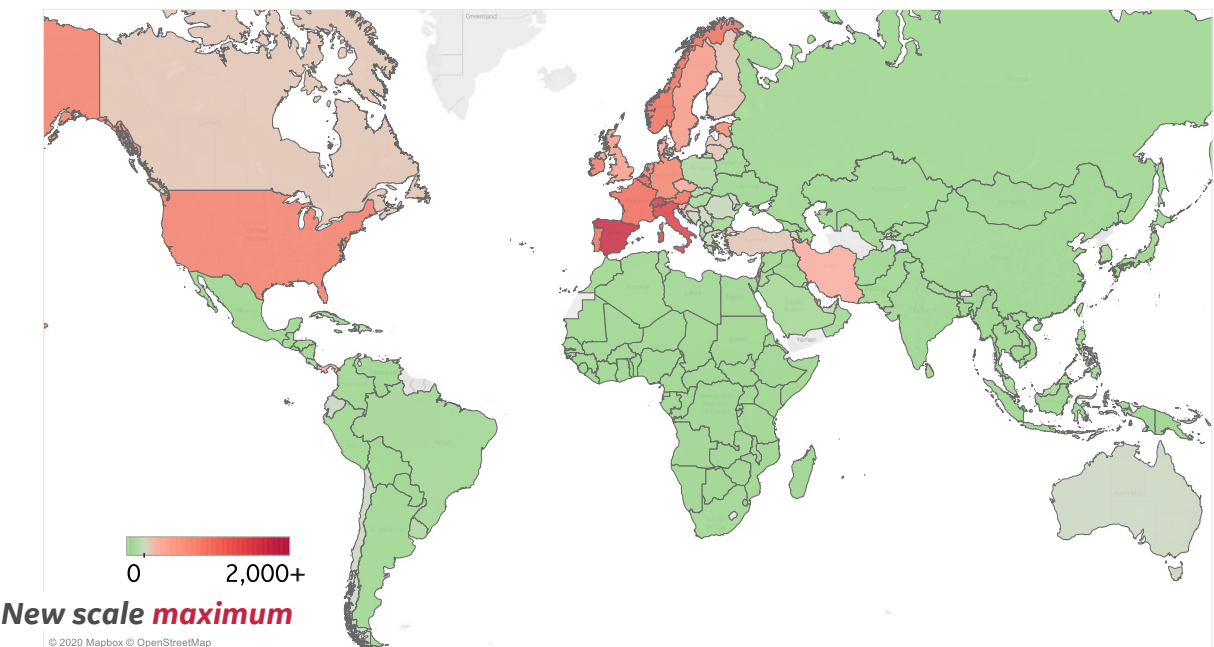


How quickly are confirmed cases doubling?



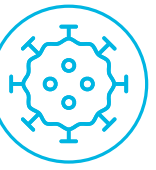
Global Snapshot: Active Cases per 1M

Active cases = Confirmed – Recovered – Deaths



Per 1M:	Today	Change
Active Cases	122	+ 6%
Confirmed Cases	10 new	+ 6%
Deaths	1 new	+ 7%
Recovered	2 new	+ 6%

Global Summary



Confirmed Case Volume

Country	Active Cases	New Today			Summary		
		Confirmed	Deaths	Recovered	Total Confirmed	Total Deaths	Total Recovered
US	310,005	28,222	1,212	2,796	337,072	9,619	17,448
Italy	91,246	4,316	525	819	128,948	15,887	21,815
Spain	80,925	5,478	694	3,861	131,646	12,641	38,080
Germany	69,839	4,031	140	2,300	100,123	1,584	28,700
France	69,331	2,925	519	777	93,773	8,093	16,349
UK	43,264	5,959	623	14	48,436	4,943	229
Iran	34,887	2,483	151	0	58,226	3,603	19,736
Turkey	25,453	3,135	73	256	27,069	574	1,042
Netherlands	15,925	1,226	115	n/a	17,953	1,771	257
Belgium	14,493	1,260	164	504	19,691	1,447	3,751
Switzerland	13,970	595	49	0	21,100	715	6,415
Canada	12,485	2,778	41	435	15,756	259	3,012
South Korea	3,591	81	6	138	10,237	183	6,463
China	2,062	59	3	261	82,602	3,333	77,207
Other	155,253	12,162	453	1,704	179,483	4,722	19,508

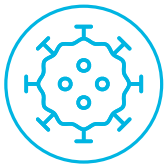
Active cases in **France** increased 50% compared to six days ago

Confirmed Cases per 1M

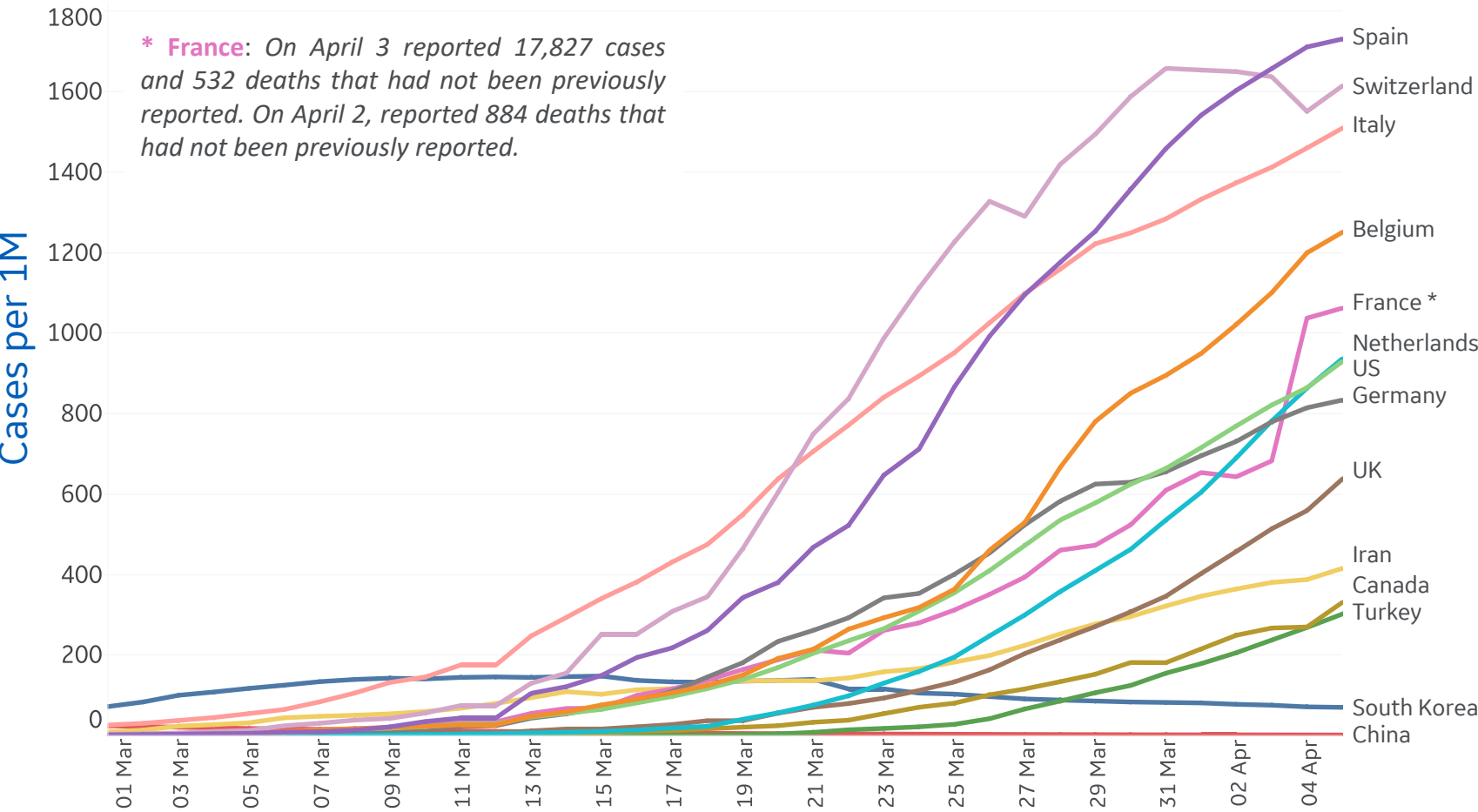
Country	Active Cases	New Today			Summary		
		Confirmed	Deaths	Recovered	Total Confirmed	Total Deaths	Total Recovered
Spain	1,731	117	15	83	2,816	270	814
Switzerland	1,614	69	6	0	2,438	83	741
Italy	1,509	71	9	14	2,133	263	361
Belgium	1,251	109	14	43	1,699	125	324
France	1,062	45	8	12	1,437	124	250
US	937	85	4	8	1,018	29	53
Netherlands	929	72	7	0	1,048	103	15
Germany	834	48	2	27	1,195	19	343
UK	637	88	9	0	713	73	3
Iran	415	30	2	0	693	43	235
Canada	331	74	1	12	417	7	80
Turkey	302	37	1	3	321	7	12
South Korea	70	2	0	3	200	4	126
China	1	0	0	0	57	2	54
Other	29	2	0	0	34	1	4

In **Spain**, total recovered cases per million doubled compared to four days ago

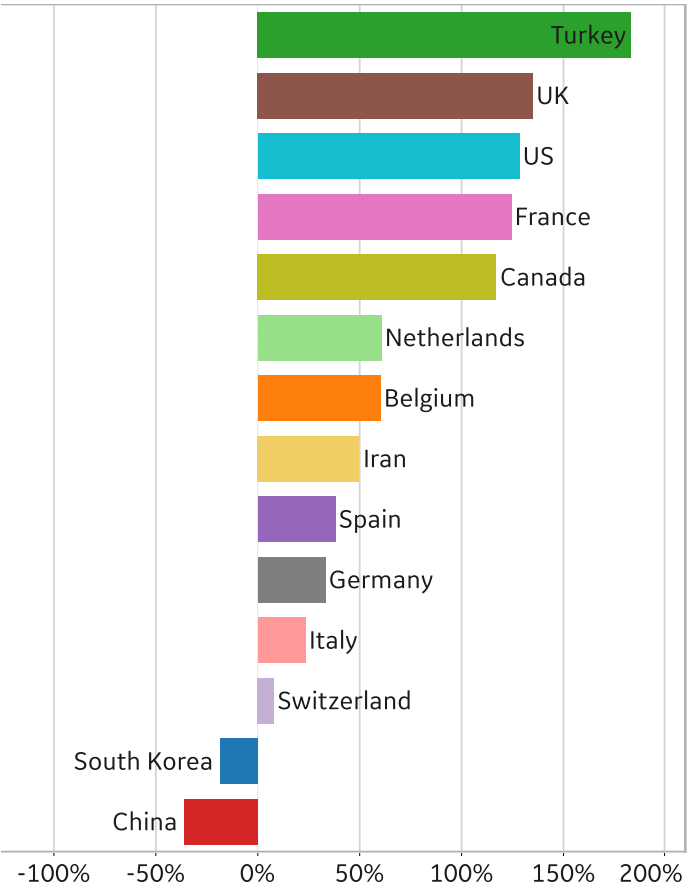
Trends in Active Cases



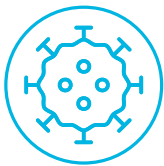
Active Cases by Country
Since 1 March 2020



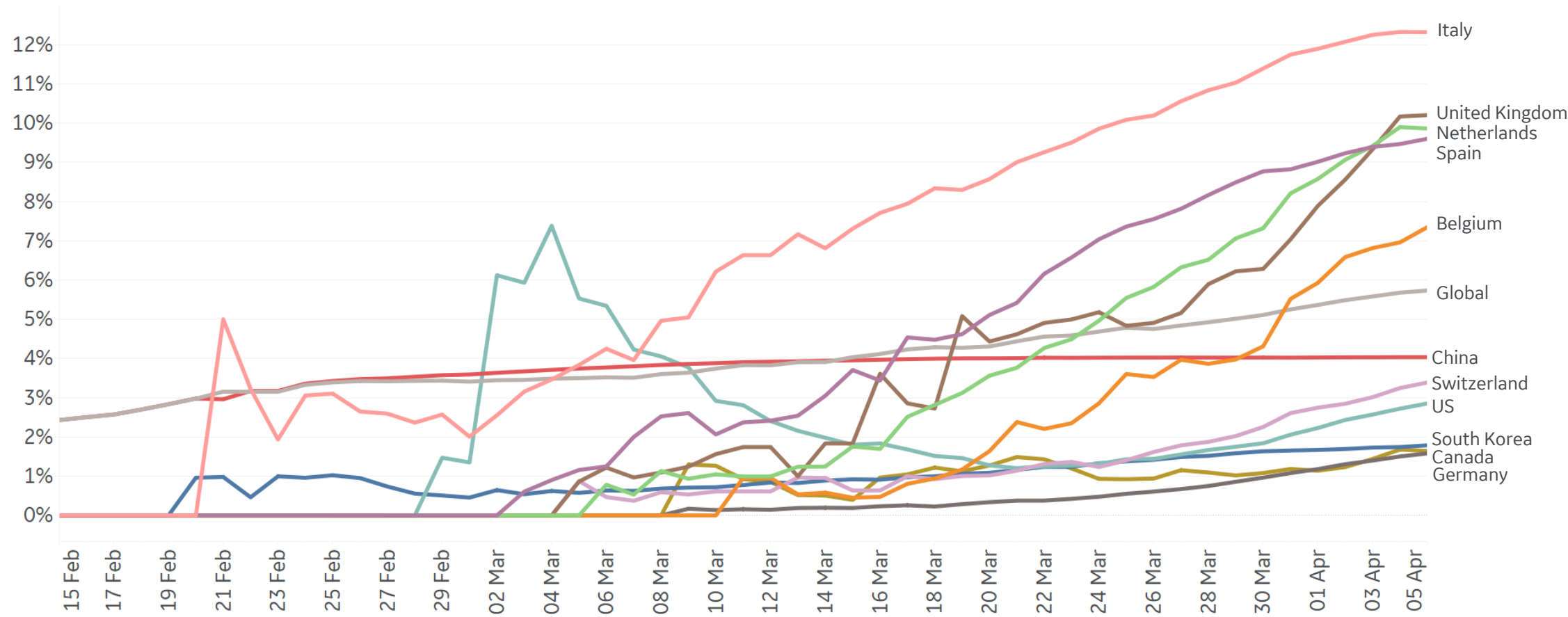
Percent Change in Active Cases
Over Previous 7 Days



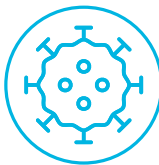
Fatality Rate over time by Country



Deaths / Confirmed Cases



Feature: How much capacity did canceling elective surgery create?



Case Study: Teaching Hospital

350 beds

Inpatient Beds

72 ICU

278 Acute

92% Inpatient occupancy

10 Operating Rooms

96% Blocked, 4% Open

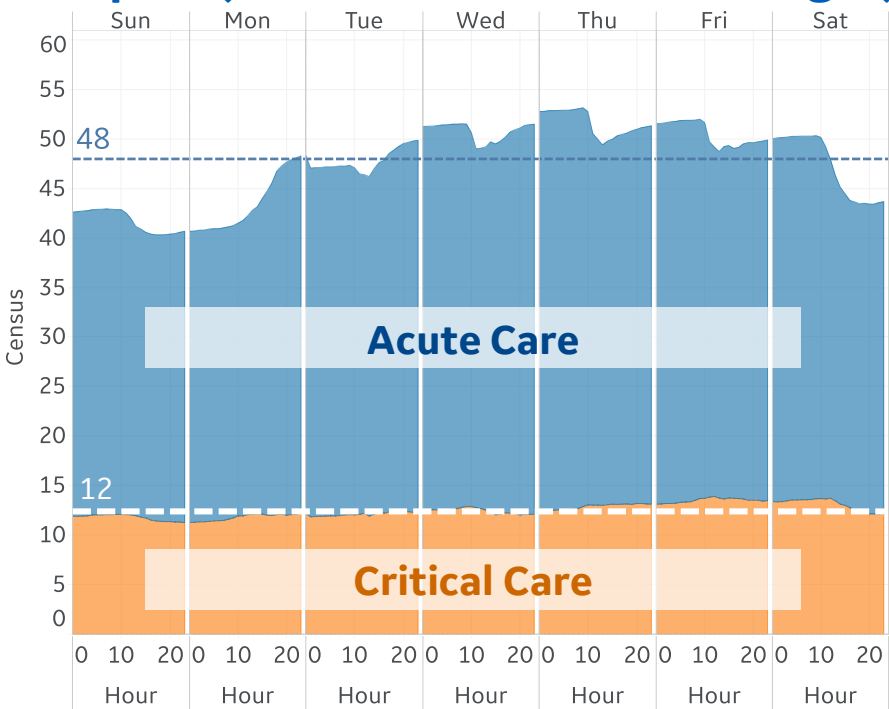
73% Utilization

76% Elective

24% Urgent/Emergent

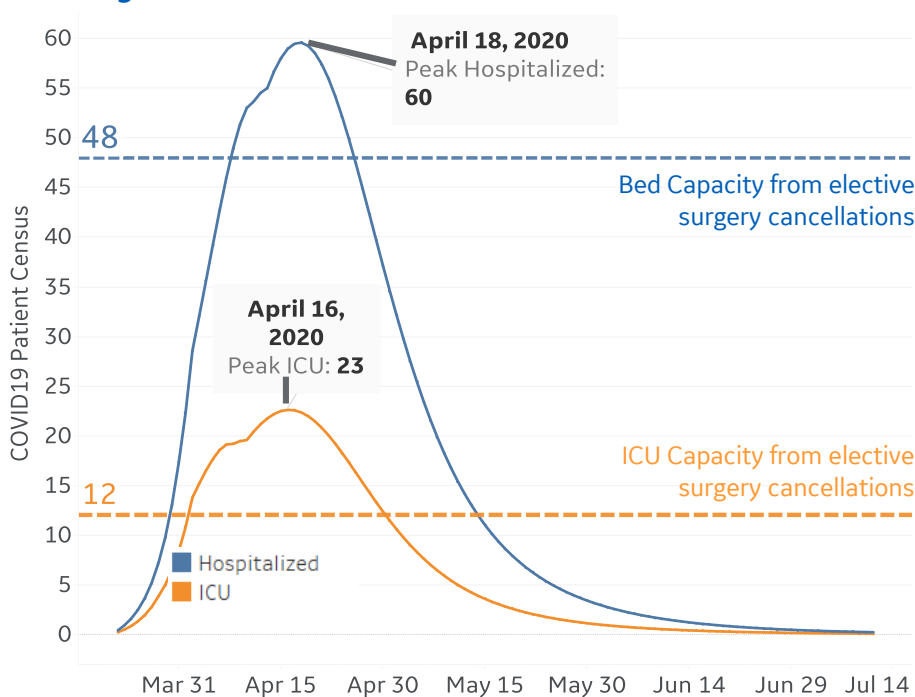
Source:
GE Healthcare Command Centers data

IP Capacity created from Elective Surgery



- Canceling elective surgery will free up an average of **48 inpatient beds** for COVID19 patients
- 121 patients per week are having surgeries postponed
- Need 310 hours per week of surgery time to catch up

Projected Census of COVID19 Patients



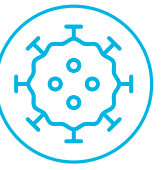
Elective surgery beds free up 50% of needed ICU capacity and 80% of total bed capacity. Additional capacity is created by other cancelled procedures and fewer non-COVID19-related visits.

16 April: Peak ICU census, 23 beds

18 April: Peak census of COVID19 patients, 60 beds

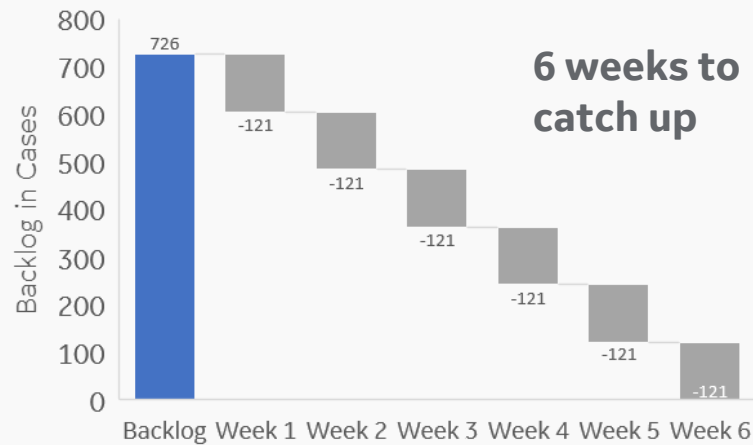
16 May: 10 patients still hospitalized

Feature: How long will it take to catch up on elective surgeries?



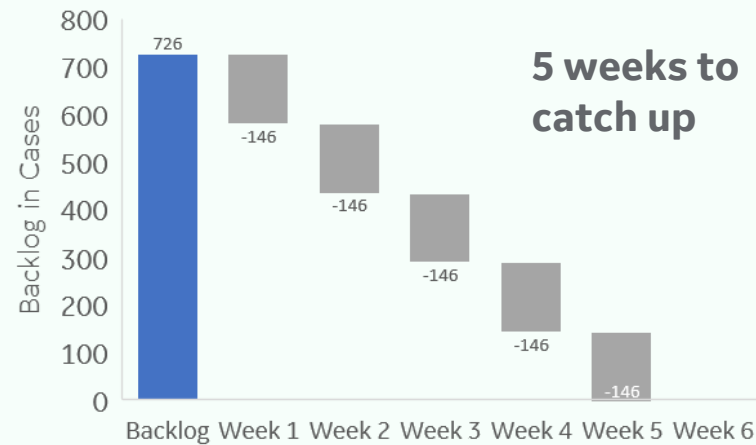
Completion of Backlog by Week (assuming 6 week shutdown)

Scenario 1: Standard Operating Schedule



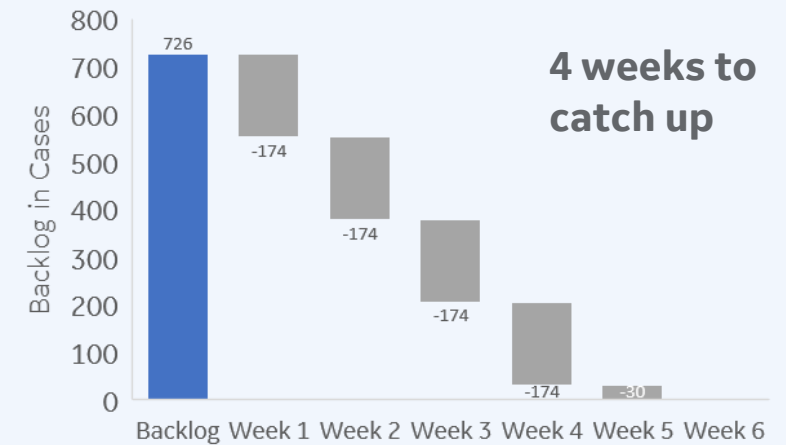
- Current block schedule has very little open time to accommodate additional volume
- It will take at least 6 weeks to exhaust the backlog of 726 cases
- Surgeons' availability may be limited as clinic schedule was likely impacted

Scenario 2: Extend Hours with Same Block



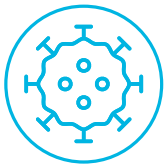
- Same schedule with extended hours can shorten the time to recover to 5 weeks
- Hours at the end of the day are not as well-utilized due to unpredictability of schedule
- Surgeon, staff, and inpatient bed availability are additional factors to be considered
- Inpatient capacity may be limited during the first month

Scenario 3: Optimize Block Schedule

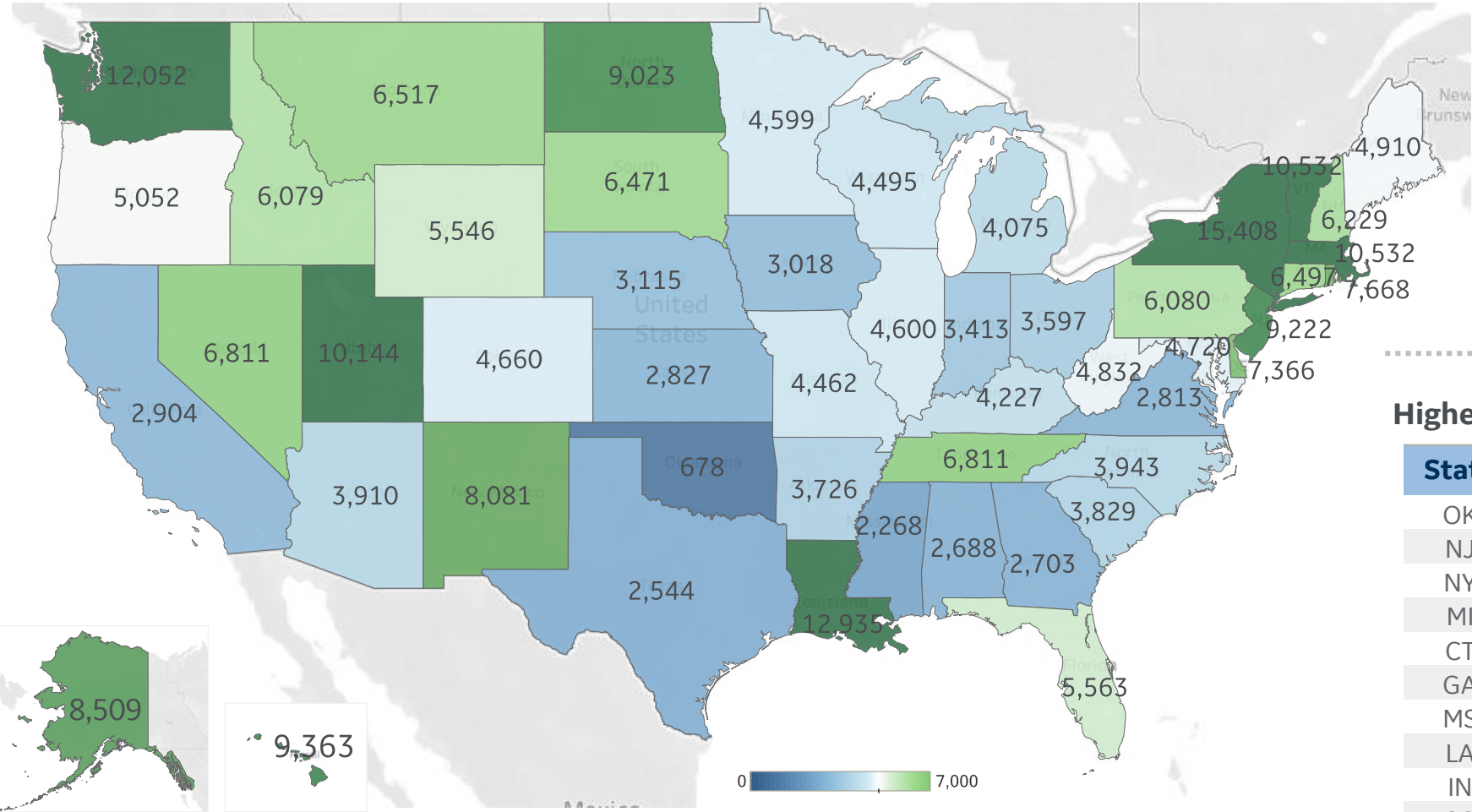


- Work with surgeons and staff to inventory backlog and demand
- Identify surgeon day-of-week constraints, given likely disruption of clinic schedule
- Model impact to downstream capacity
- Modify the block schedule to allocate based on demand while leaving sufficient open time for urgent/emergent cases and incremental case volume
- An optimized schedule can help eliminate 6 week backlog in 4 weeks

Feature: US COVID19 Testing by State



Number of Tests Performed per 1M



Global Benchmarks

Country	Tests per 1M	Positive
Italy	10,896	19%
South Korea	8,920	2%
US Overall	5,385	19%

US State Highlights

Highest Positive Rates

State	Positive
OK	47%
NJ	46%
NY	40%
MI	34%
CT	24%
GA	24%
MS	23%
LA	22%
IN	19%
CO	19%

Lowest Positive Rates

State	Positive
OR	5%
UT	5%
MT	4%
SD	4%
WV	4%
MN	3%
NM	3%
ND	3%
AK	3%
HI	3%

Europe & Middle East

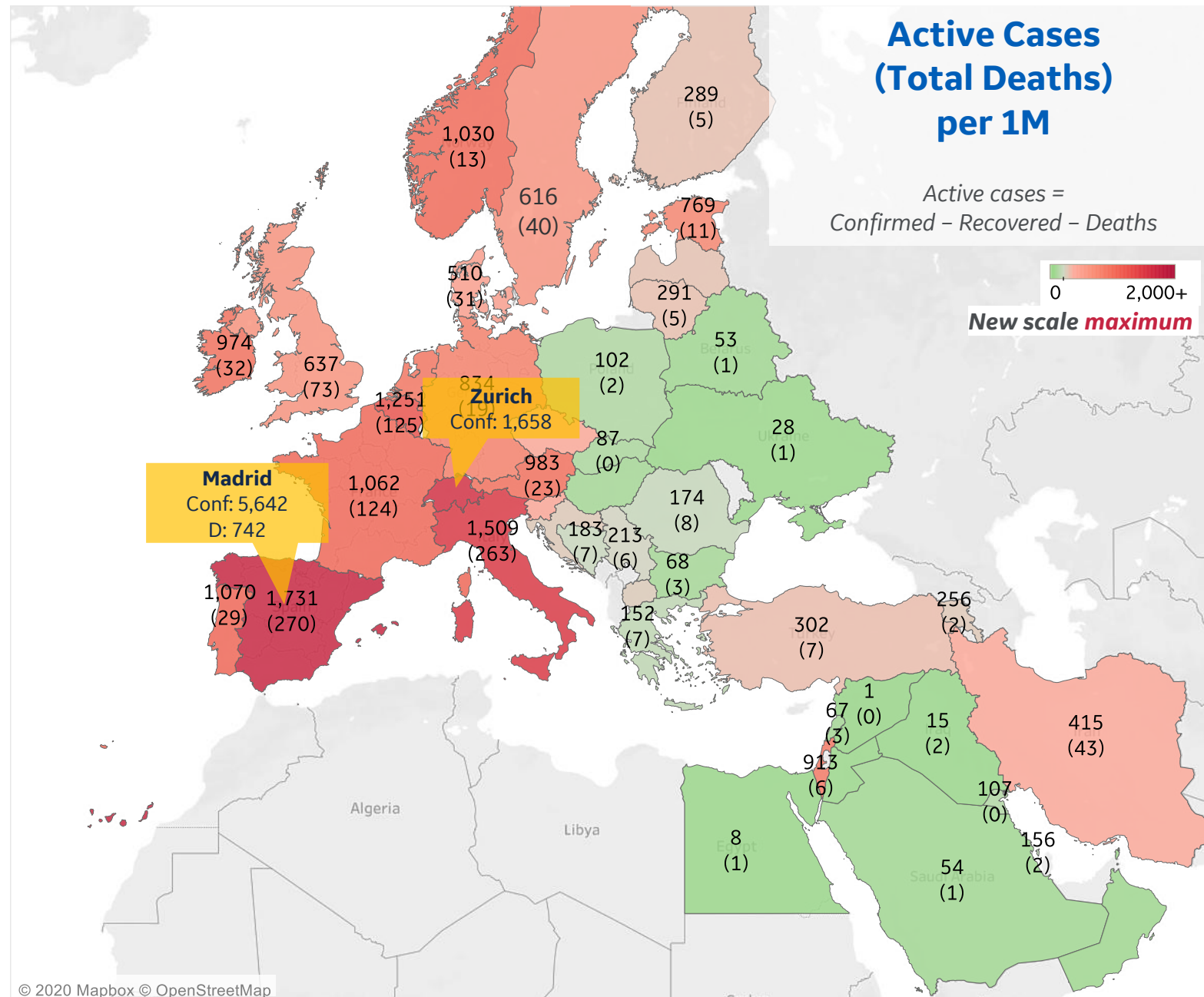
Per 1M in Region

	Today	Change
Active Cases	540	+ 5%
Confirmed Cases	37 new	+ 5%
Deaths	3 new	+ 7%
Recovered	9 new	+ 7%

Most Active Cases per 1M

Spain	1,731
Switzerland	1,614
Italy	1,509
Belgium	1,251
Portugal	1,070
Norway	1,030
Austria	983
Ireland	974
Netherlands	929
Israel	913

* Excludes regions with population < 1M



Italy

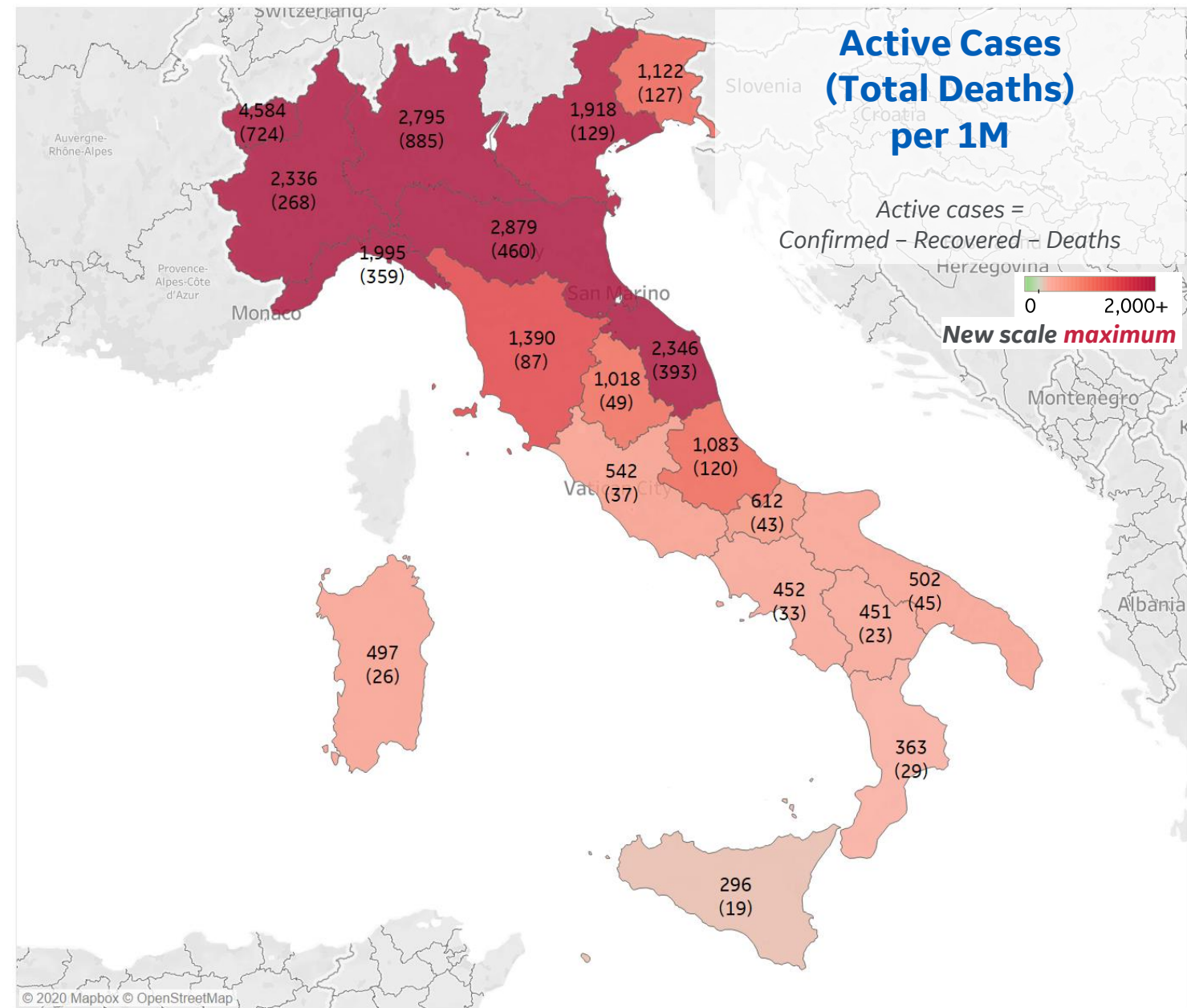
Per 1M in Region

	Today	Change
Active Cases	1,509	+ 3%
Confirmed Cases	71 new	+ 3%
Deaths	9 new	+ 3%
Recovered	14 new	+ 4%

Most Active Cases per 1M

Emilia-Romagna	2,879
Lombardia	2,795
Marche	2,346
Piemonte	2,336
Liguria	1,995
Veneto	1,918
Trentino-Alto Adige	1,674
Toscana	1,390
Sudtirol	1,143

* Excludes regions with population < 1M



UK & Ireland

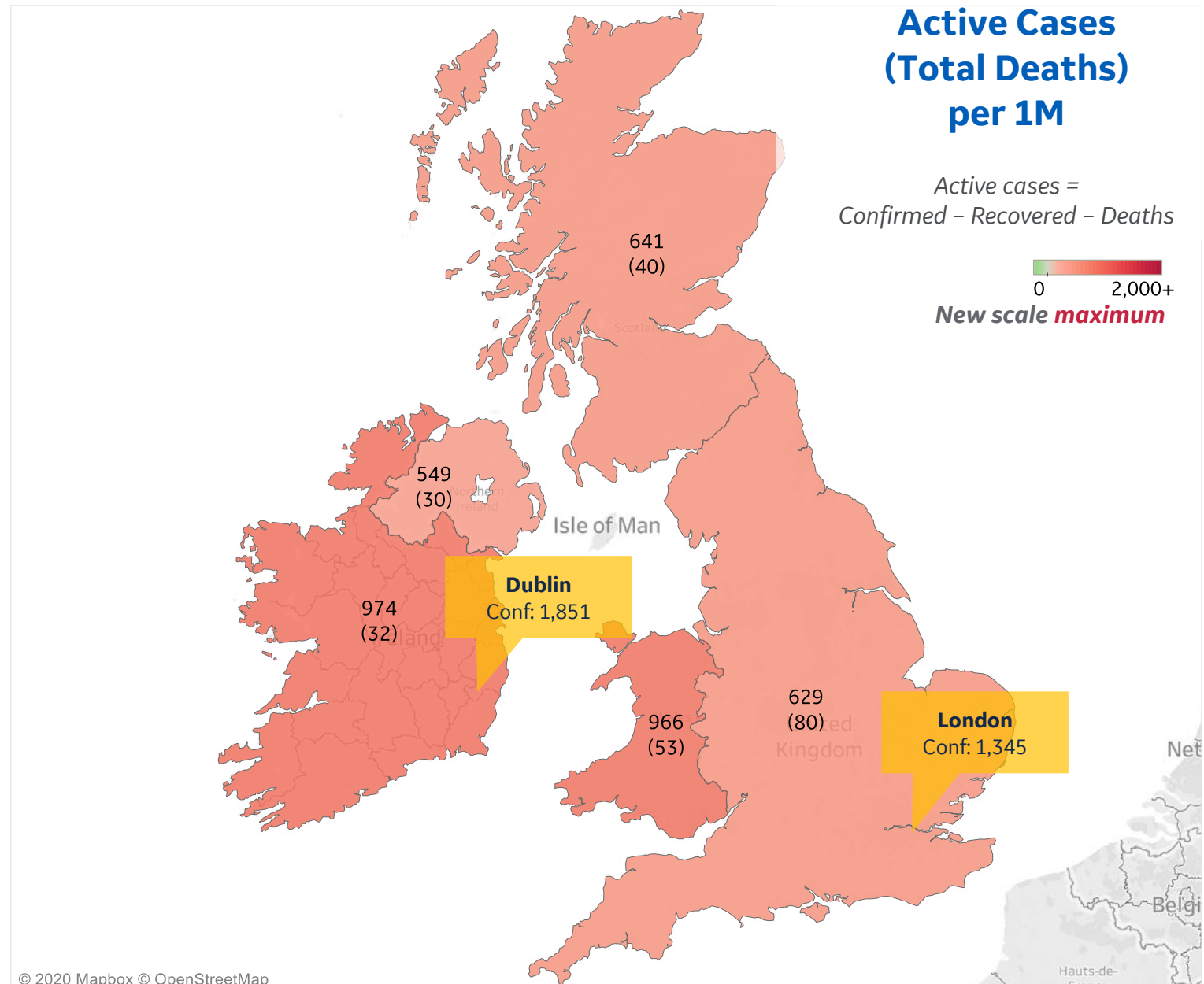
Per 1M in Region

	Today	Change
Active Cases	660	+ 13%
Confirmed Cases	87 new	+ 13%
Deaths	9 new	+ 14%
Recovered	0.2 new	+ 6%

Most Active Cases per 1M

Ireland	974
Wales	966
Scotland	641
England	629
Northern Ireland	549

* Excludes regions with population < 1M



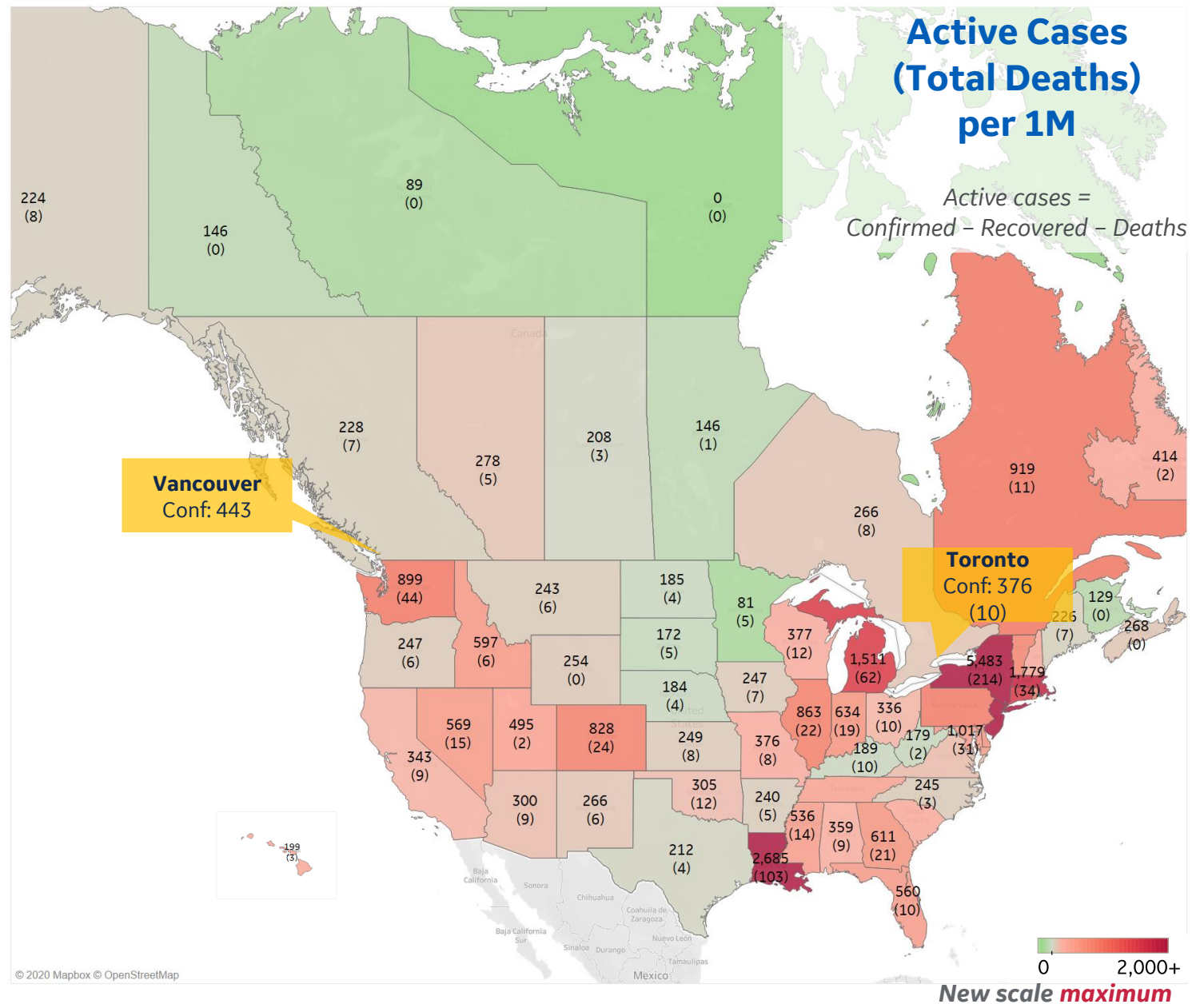
US & Canada

Per 1M in Region

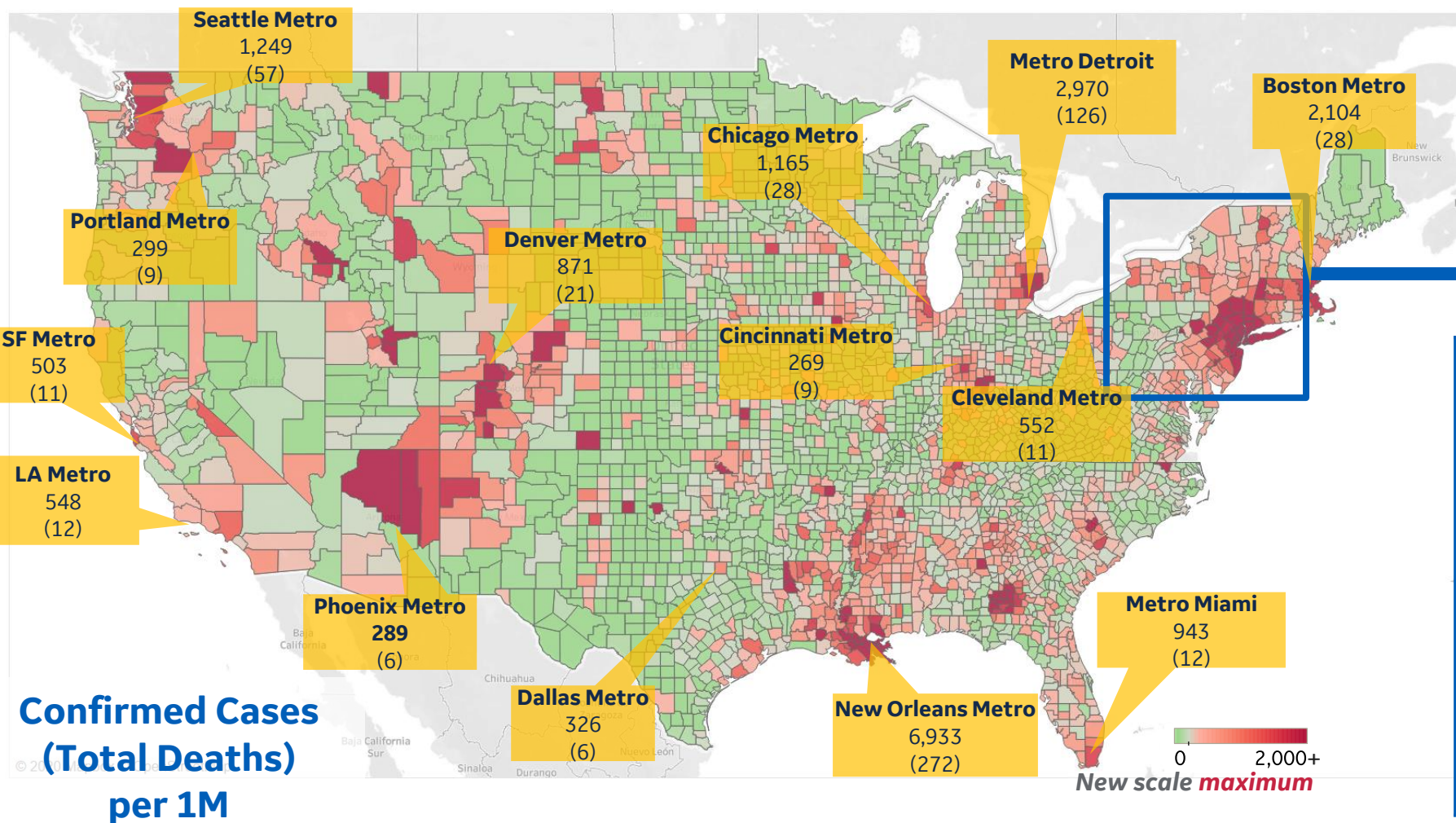
	Today	Change
Active Cases	875	+ 9%
Confirmed Cases	84 new	+ 10%
Deaths	3 new	+ 15%
Recovered	9 new	+ 19%

Most Active Cases per 1M

New York	5,483
New Jersey	4,109
Louisiana	2,685
Massachusetts	1,779
Connecticut	1,525
Michigan	1,511
DC	1,017
Washington	899
Illinois	863
Colorado	828



US by County & Metro Area



Counties* with Most Confirmed Cases per 1M

Nassau County	NY	10,611
Suffolk County	NY	8,891
New York City **	NY	8,139
Wayne County	MI	4,298
Oakland County	MI	2,413
Philadelphia County	PA	2,013
Middlesex County	MA	1,633
Cook County	IL	1,560
Miami-Dade County	FL	1,526
King County	WA	1,406

* Includes counties with at least 1M population and at least 800 confirmed cases

** New York City counties aggregated into one reporting area

Oceania

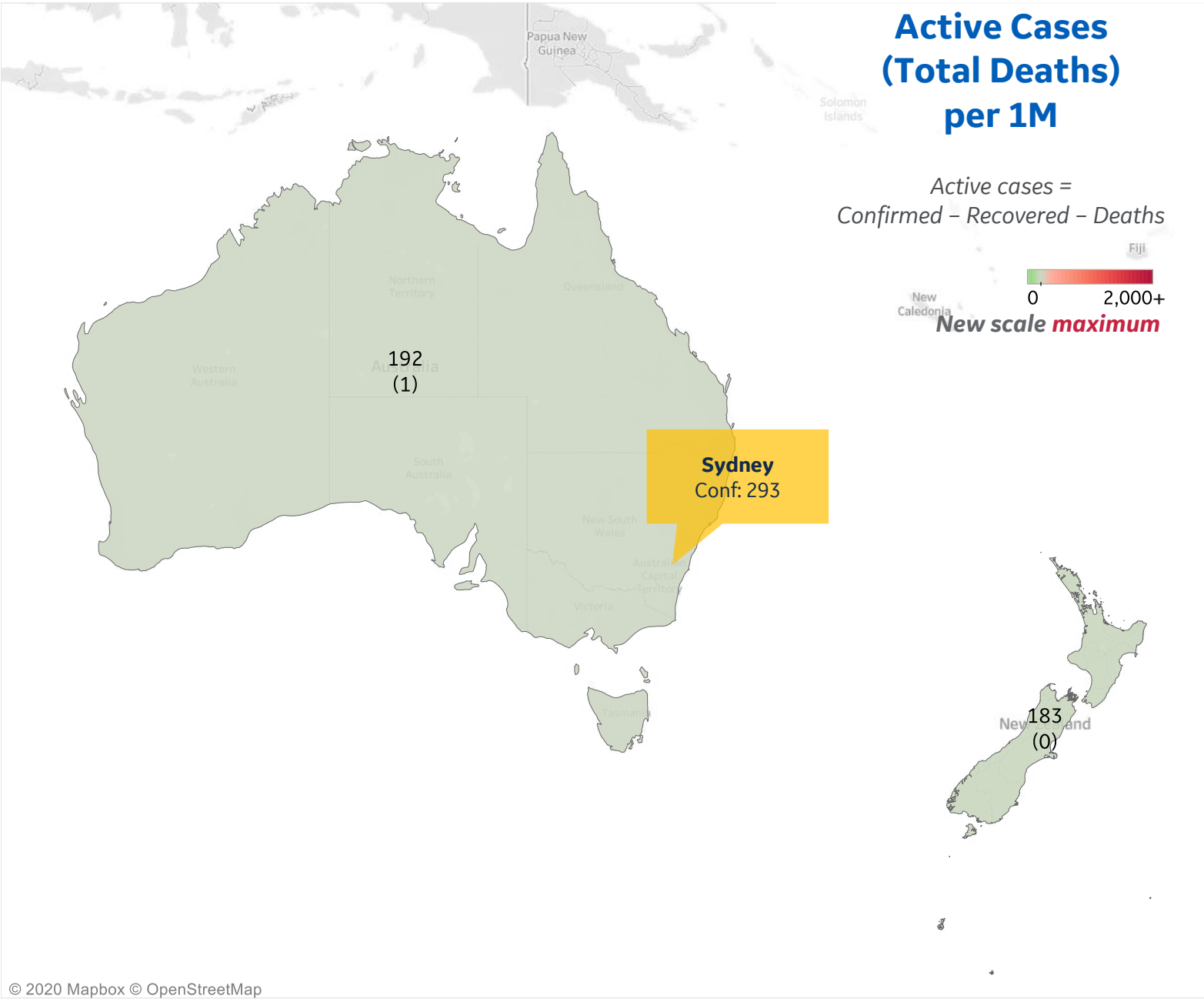
Per 1M in Region

	Today	Change
Active Cases	191	+ 2%
Confirmed Cases	7 new	+ 3%
Deaths	0.16 new	+ 16%
Recovered	3 new	+ 10%

Most Active Cases per 1M

Australia	192
New Zealand	183

* Excludes regions with population < 1M



Latin & South America

Per 1M in Region

	Today	Change
Active Cases	42	+ 8%
Confirmed Cases	4 new	+ 8%
Deaths	0.2 new	+ 11%
Recovered	0.3new	+ 6%

Most Active Cases per 1M

Panama	404
Chile	200
Ecuador	191
Uruguay	87
Costa Rica	86
Trinidad and Tobago	69
Brazil	49
Peru	37
Colombia	27
Argentina	25

* Excludes regions with population < 1M



Asia

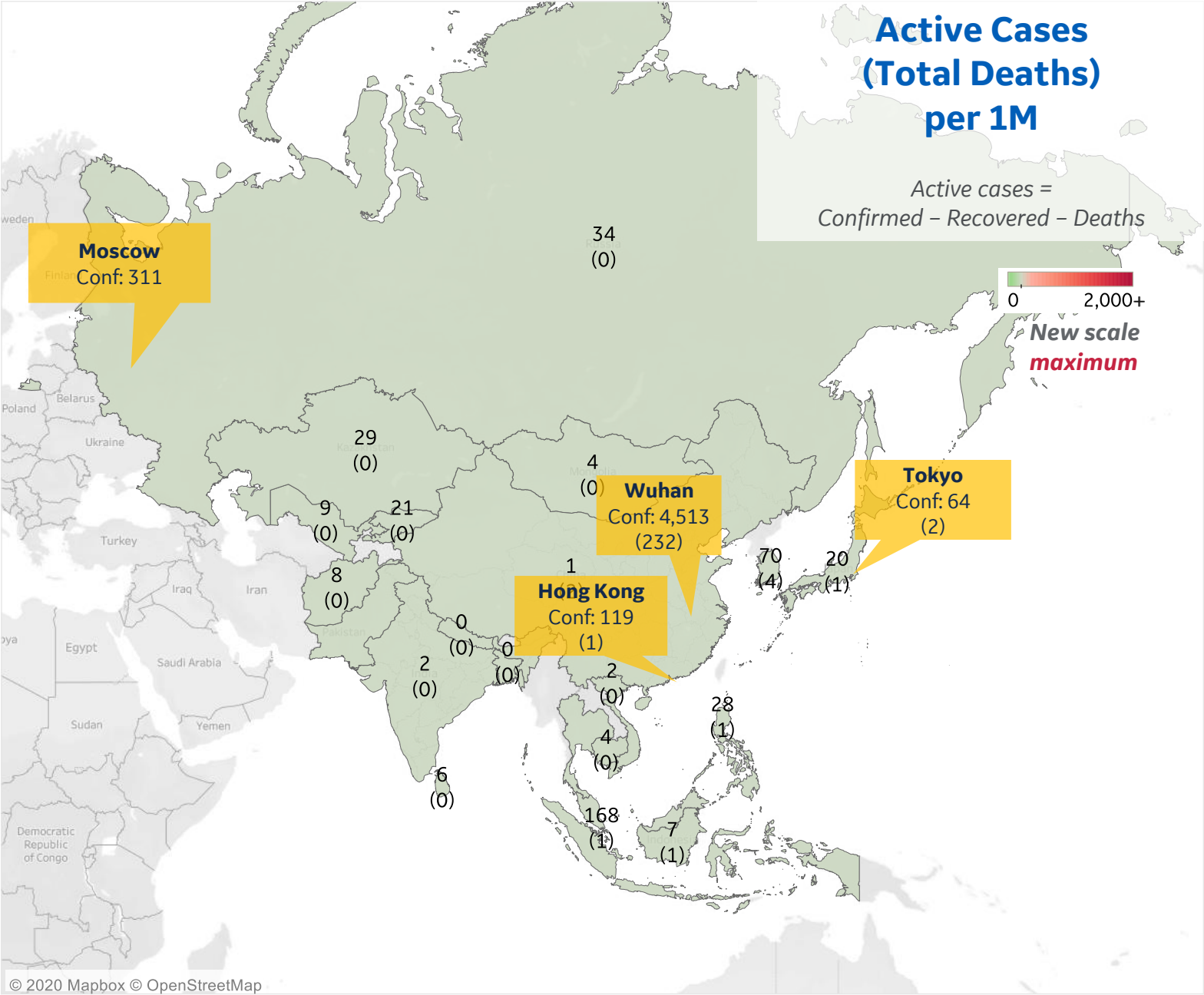
Per 1M in Region

	Today	Change
Active Cases	7	+ 9%
Confirmed Cases	1 new	+ 2%
Deaths	0.01 new	+ 1%
Recovered	0.2 new	+ 1%

Most Active Cases per 1M

Singapore	168
Malaysia	80
South Korea	70
Russia	34
Kazakhstan	29
Philippines	28
Kyrgyzstan	21
Japan	20
Thailand	19
Pakistan	13

* Excludes regions with population < 1M



Africa

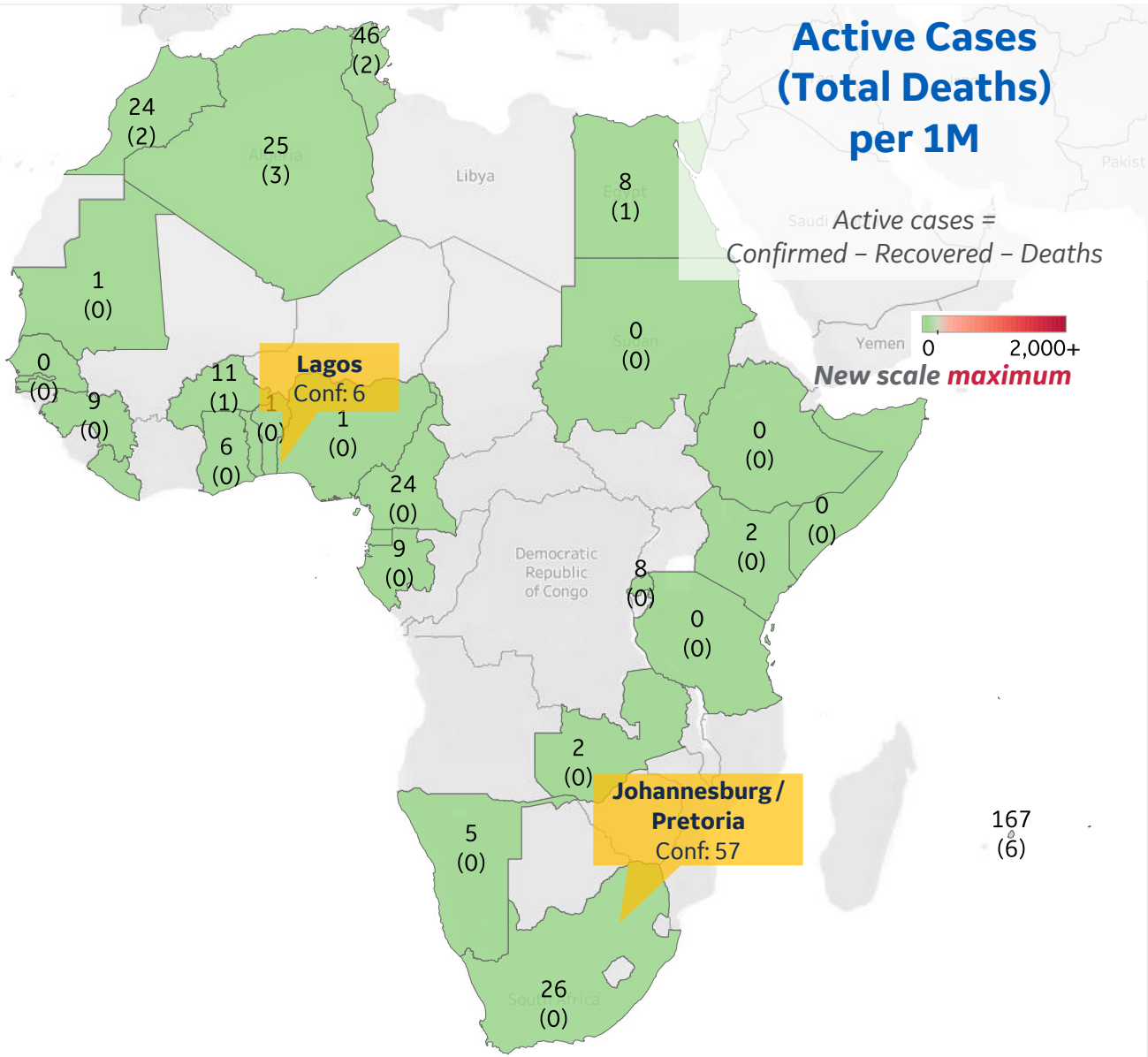
Per 1M in Region

	Today	Change
Active Cases	7	+ 7%
Confirmed Cases	1 new	+ 8%
Deaths	0.05 new	+ 16%
Recovered	0.08 new	+ 12%

Most Active Cases per 1M

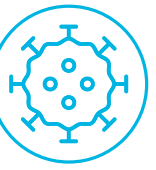
Mauritius	167
Tunisia	46
South Africa	26
Algeria	25
Morocco	24
Cameroon	24
Burkina Faso	11
Equatorial Guinea	11
Gabon	9
Senegal	8

* Excludes regions with population < 1M



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Sources



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