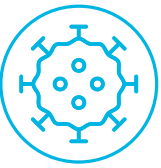
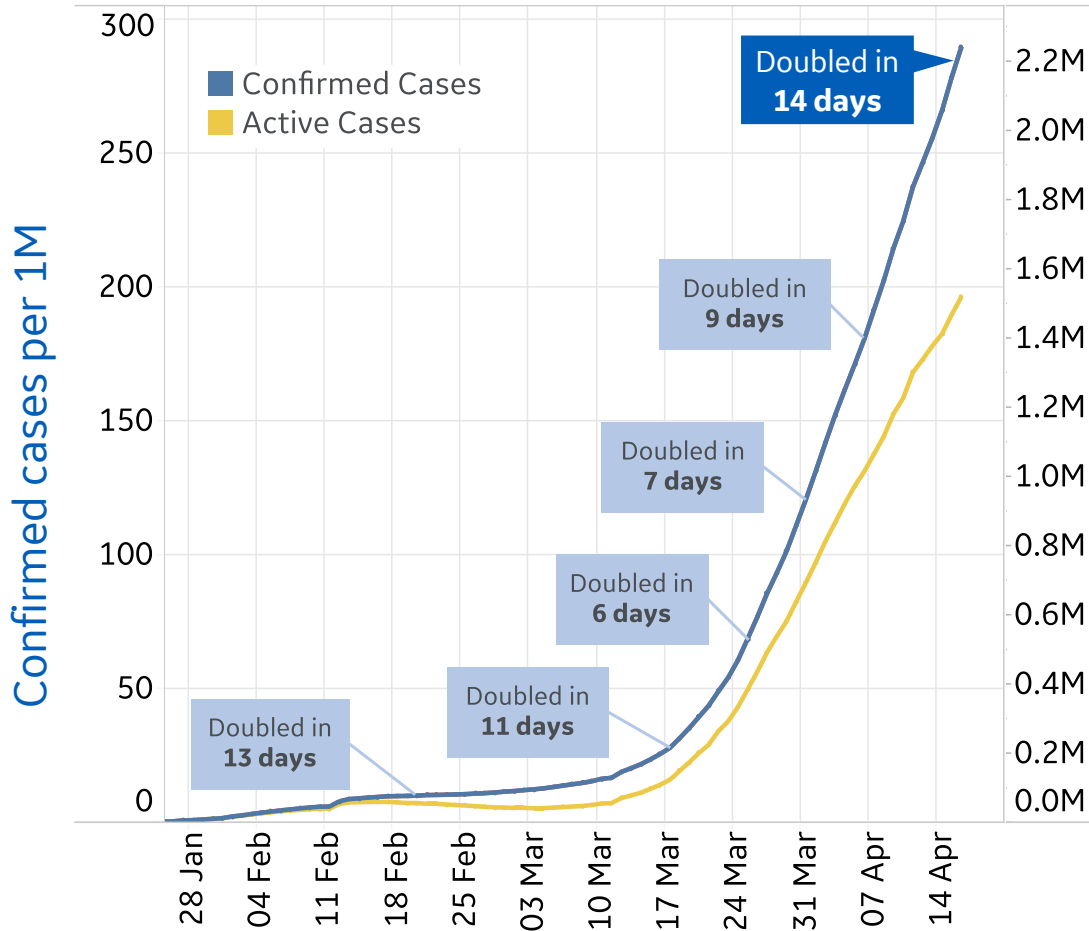


# Global Confirmed & Active Cases

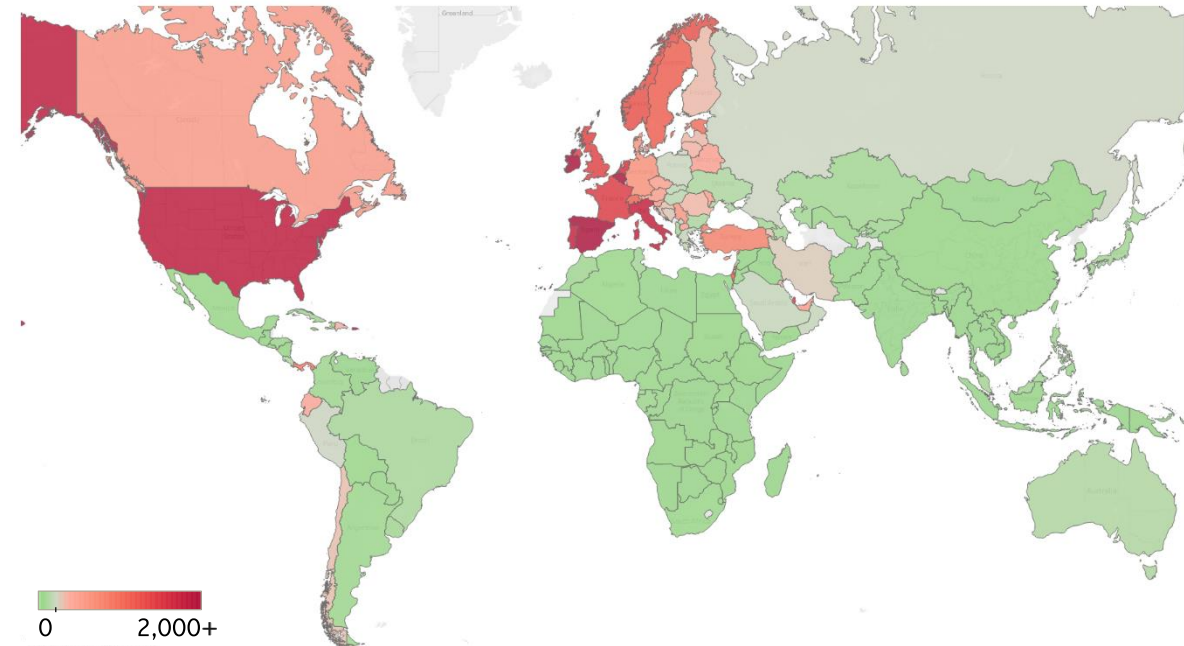


### Trend since 22 Jan



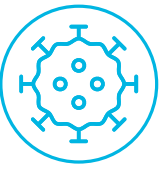
### Today per 1M

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



Per 1M:	Today	Change
Active Cases	196	+3%
Confirmed	11 new	+4%
Deaths	1 new	+7%
Recovered	3 new	+5%

# Global Summary



## Volume

	Active Cases	Today			Total since 22 Jan		
		Confirmed	Deaths	Recovered	Total Confirmed	Total Deaths	Total Recovered
US	604,388	31,905	3,857	3,842	699,706	36,773	58,545
Italy	106,962	3,493	575	2,563	172,434	22,745	42,727
Spain	96,040	5,891	687	0	190,839	20,002	74,797
France	95,421	2,039	762	1,679	149,130	18,703	35,006
UK	94,768	5,624	848	19	109,769	14,607	394
Turkey	68,146	4,353	126	1,542	78,546	1,769	8,631
Germany	53,931	3,699	300	6,114	141,397	4,352	83,114
Netherlands	26,833	1,236	144	4	30,619	3,471	315
Belgium	23,014	1,329	306	399	36,138	5,163	7,961
Canada	20,914	2,005	97	847	32,813	1,354	10,545
Iran	20,472	1,499	89	1,835	79,494	4,958	54,064
Portugal	17,846	181	28	26	19,022	657	519
Ireland	13,373	709	44	0	13,980	530	77
Sweden	11,266	676	67	0	13,216	1,400	550
Israel	9,705	224	9	308	12,982	151	3,126
Switzerland	9,351	346	46	500	27,078	1,327	16,400
Japan	8,662	1,161	12	34	9,787	190	935
Norway	6,744	41	9	0	6,937	161	32
Qatar	4,192	560	0	49	4,663	7	464
South Korea	2,576	22	1	72	10,635	230	7,829
China	1,572	357	1,290	N/A	83,760	4,636	77,552
Total World	1,518,026	87,544	10,021	26,236	2,240,190	153,821	568,343

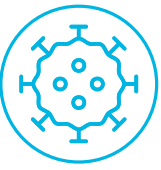
Iran has reported a 30% decrease in active cases over the past week

## Per 1M

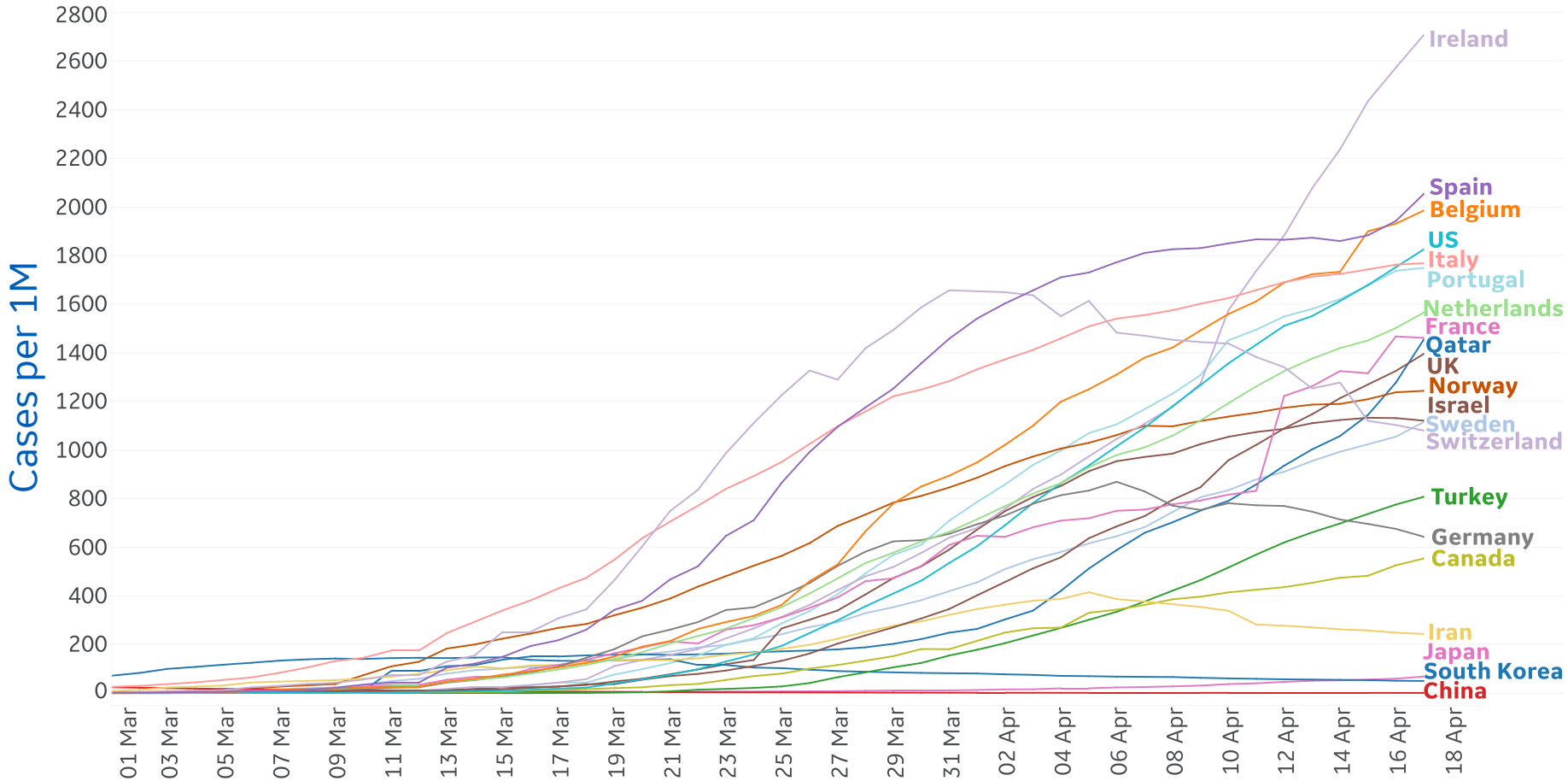
	Active Cases	Today			Total since 22 Jan		
		Confirmed	Deaths	Recovered	Total Confirmed	Total Deaths	Total Recovered
Ireland	2,708	144	9	0	2,831	107	16
Spain	2,054	126	15	0	4,082	428	1,600
Belgium	1,986	115	26	34	3,118	445	687
US	1,826	96	12	12	2,114	111	177
Italy	1,769	58	10	42	2,852	376	707
Portugal	1,750	18	3	3	1,866	64	51
Netherlands	1,566	72	8	0	1,787	203	18
France	1,462	31	12	26	2,285	287	536
Qatar	1,455	194	0	17	1,619	2	161
UK	1,396	83	12	0	1,617	215	6
Norway	1,244	8	2	0	1,280	30	6
Israel	1,121	26	1	36	1,500	17	361
Switzerland	1,080	40	5	58	3,129	153	1,895
Sweden	1,116	67	7	0	1,309	139	54
Turkey	808	52	1	18	931	21	102
Germany	644	44	4	73	1,688	52	992
Canada	554	53	3	22	869	36	279
Iran	244	18	1	22	946	59	644
Japan	68	9	0	0	77	2	7
South Korea	50	0	0	1	207	4	153
China	1	0	1	N/A	58	3	54
Total World	196	11	1	3	290	20	73

Since 14 April, active cases in **Japan** have increased 17%

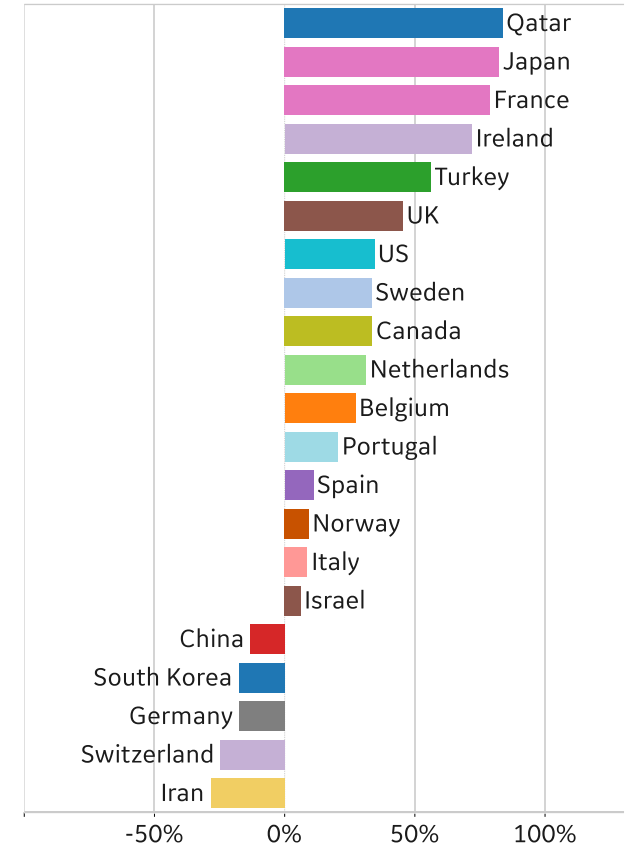
# Trends in Active Cases



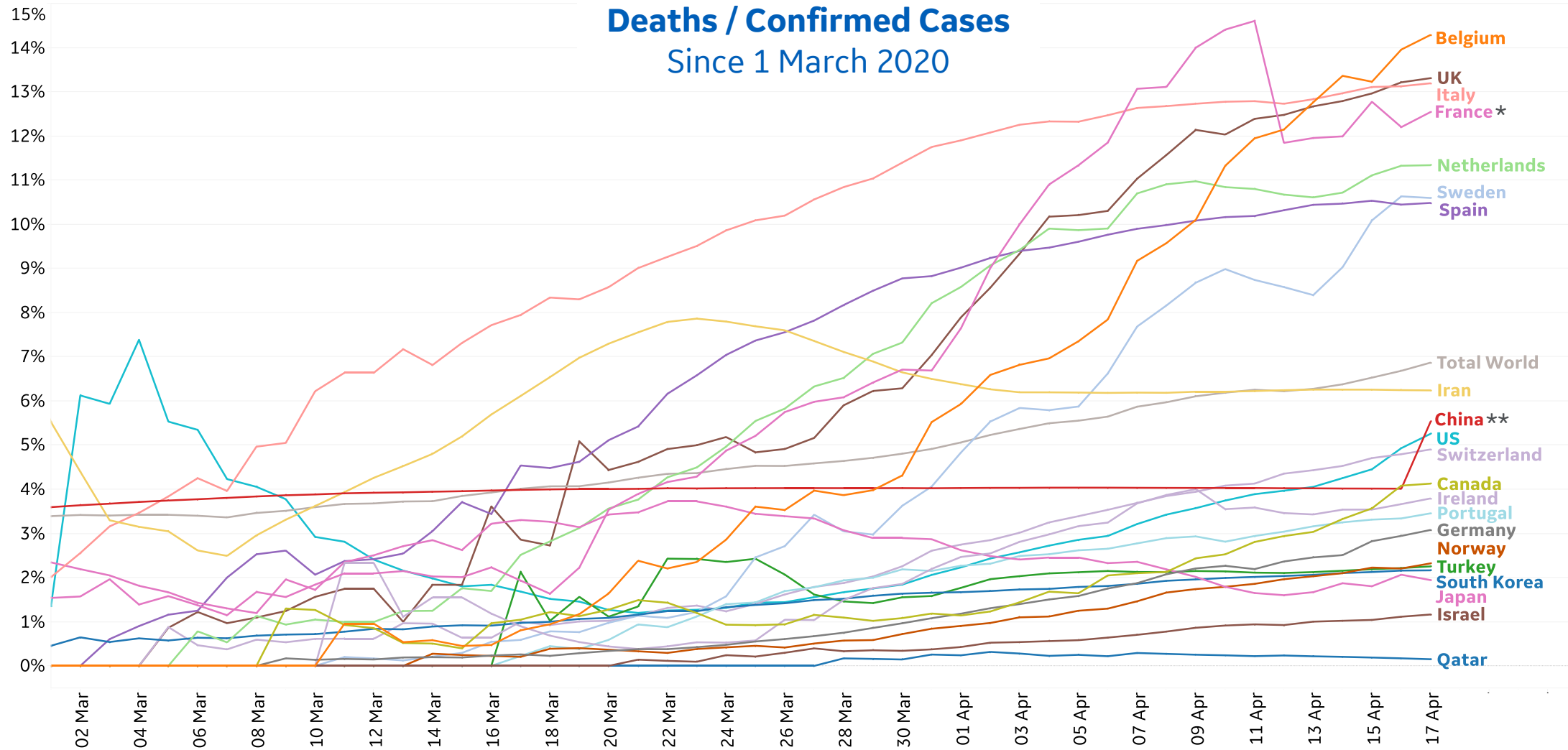
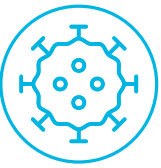
## Active Cases by Country Since 1 March 2020



## % Change in Active Cases Over Previous 7 Days



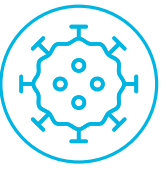
# Fatality Rate over time by Country



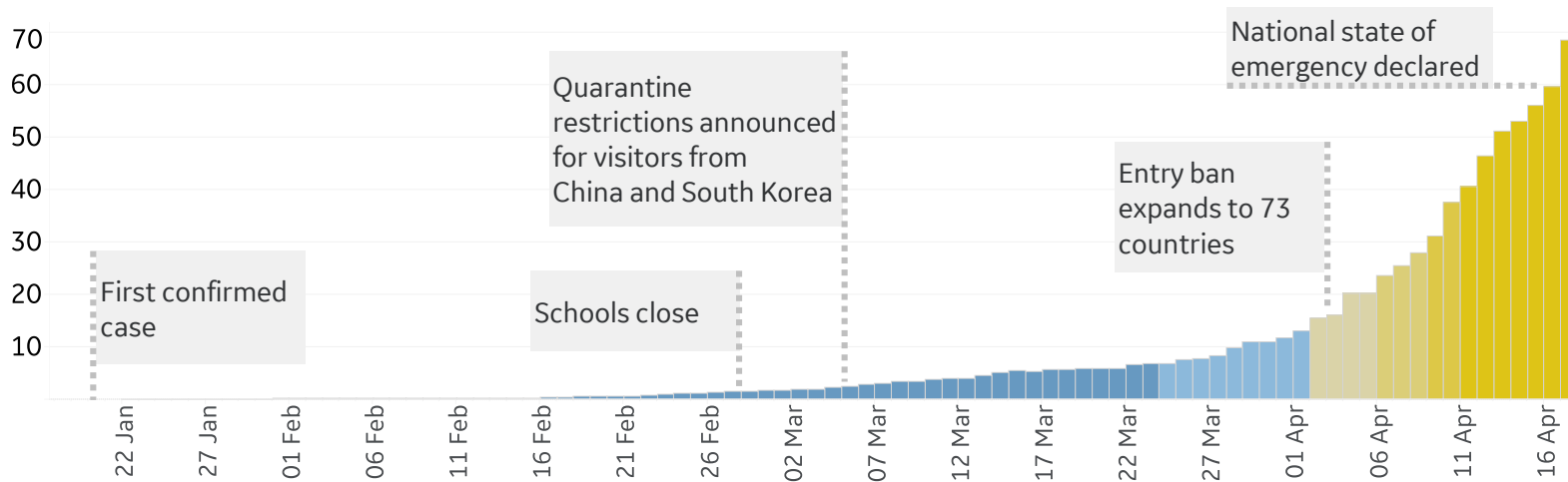
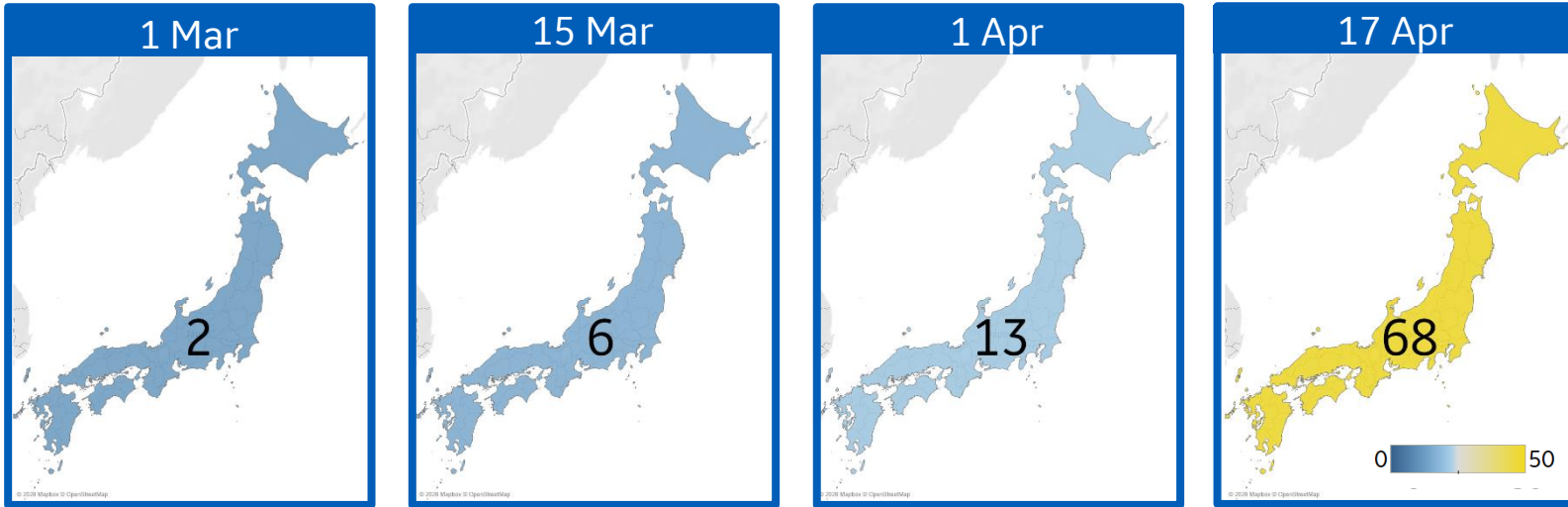
\* Large fluctuations in the French fatality rate curve during early April are believed to be caused by batched reporting from nursing homes and catch-up reporting from the Easter holiday weekend

\*\* The sharp rise in the Chinese fatality rate curve on 17 April is due to an official revision which adds previously unaccounted for COVID deaths in Wuhan during the early days of the outbreak

# Feature: Japan

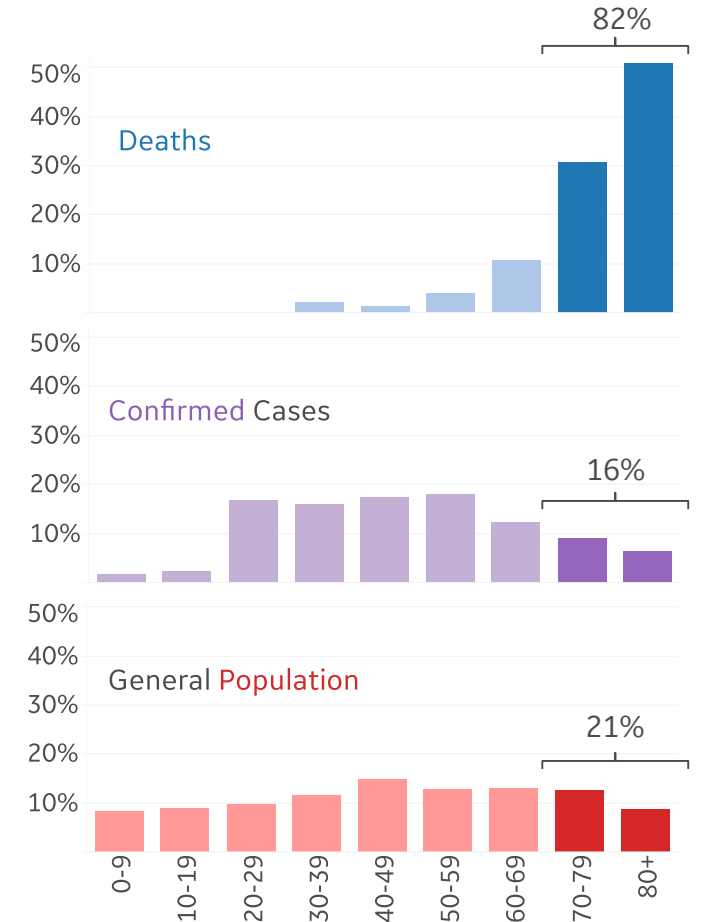


## Active Cases per 1M Over Time

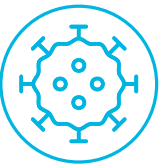


## Age Profiles

Over one-fifth of Japan's population is > 70 y/o. Elders are underrepresented in the number of confirmed cases, but overrepresented in the number of deaths.

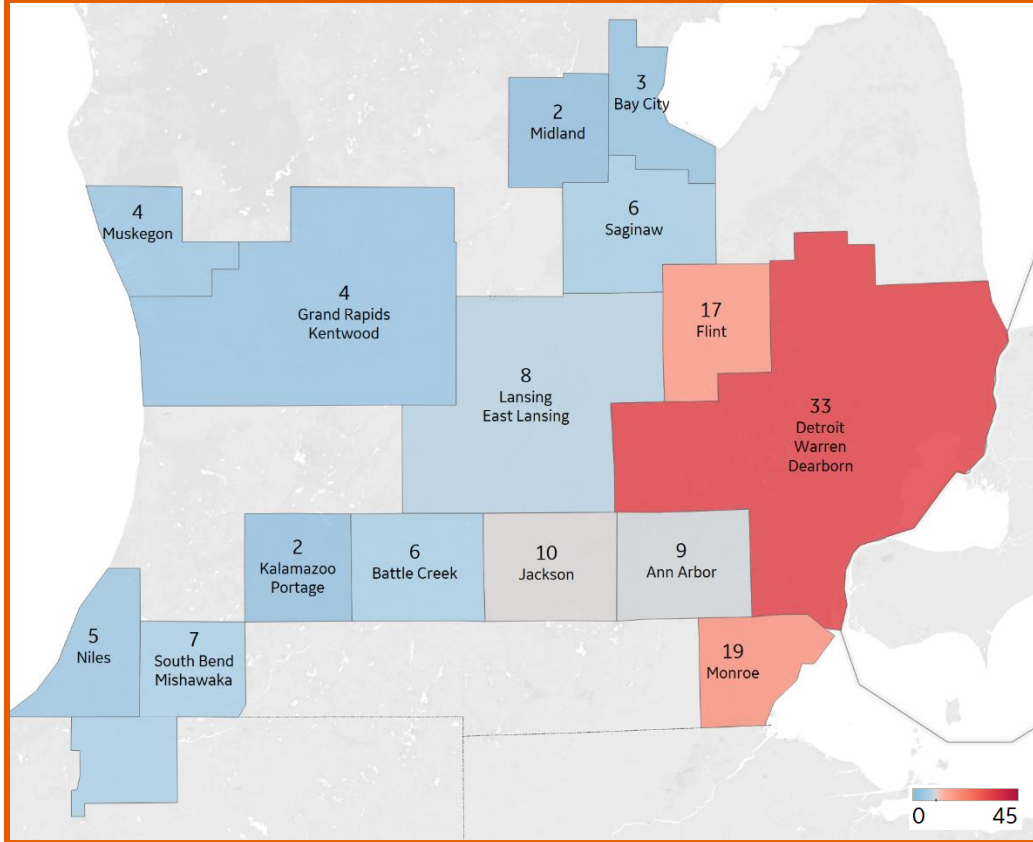


# Feature: US Hospitalization Trends

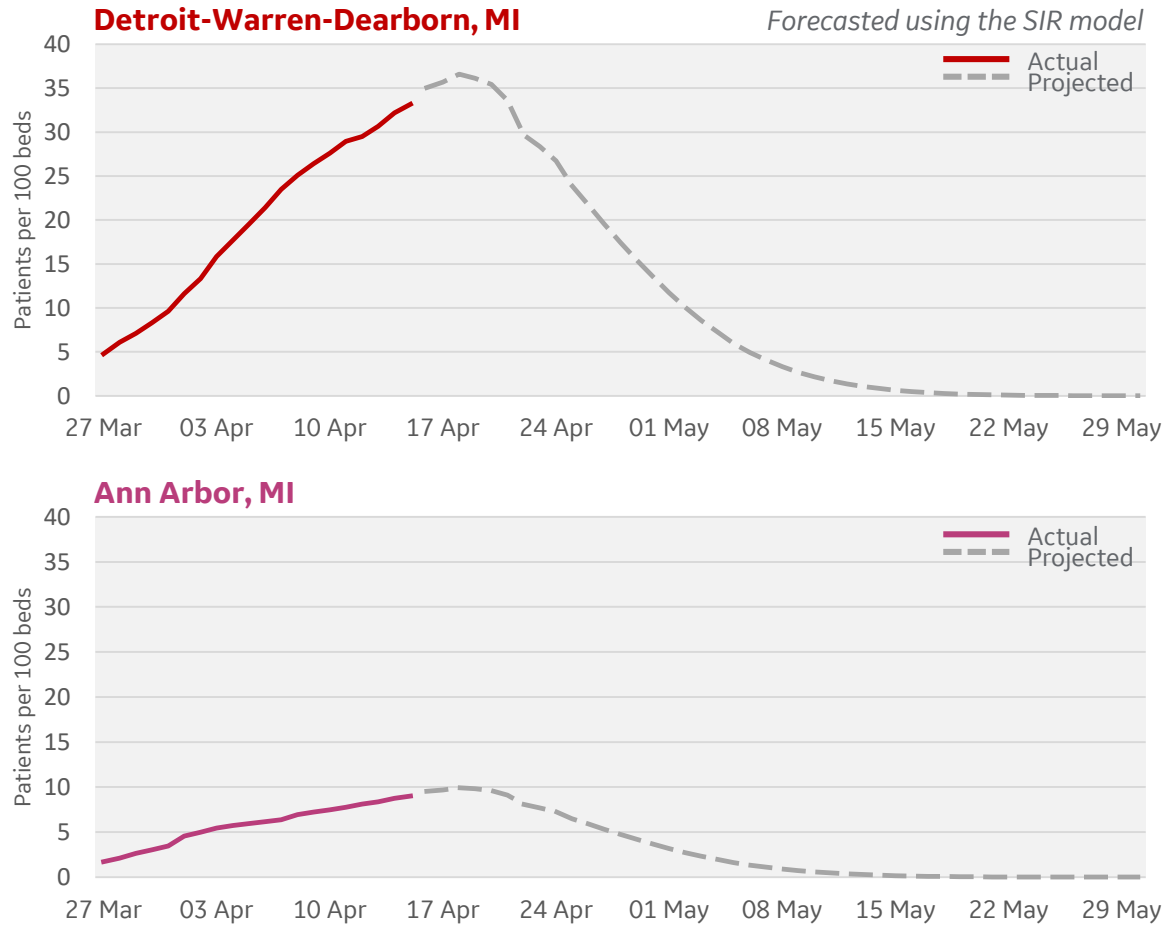


## Hospitalized Cases\* per 100 Beds

### Detroit / Ann Arbor



## Projected Hospitalizations



**\*Assumptions:** Hospitalized Cases<sub>MSA</sub> = % Hospitalized<sub>STATE</sub> × Active Cases<sub>MSA</sub>  
 Active Cases = Confirmed Cases - Deaths - Recovered

Data on Recovered cases not available at MSA level, so recoveries estimated:  
 Estimated Recovered<sub>MSA</sub> = Recovered Cases<sub>STATE</sub> × (Confirmed Cases<sub>MSA</sub> / Confirmed Cases<sub>STATE</sub>)

**Data sources:** (1) COVID Tracking Project  
 (2) Homeland Infrastructure Foundation-Level Data

# Europe & Middle East

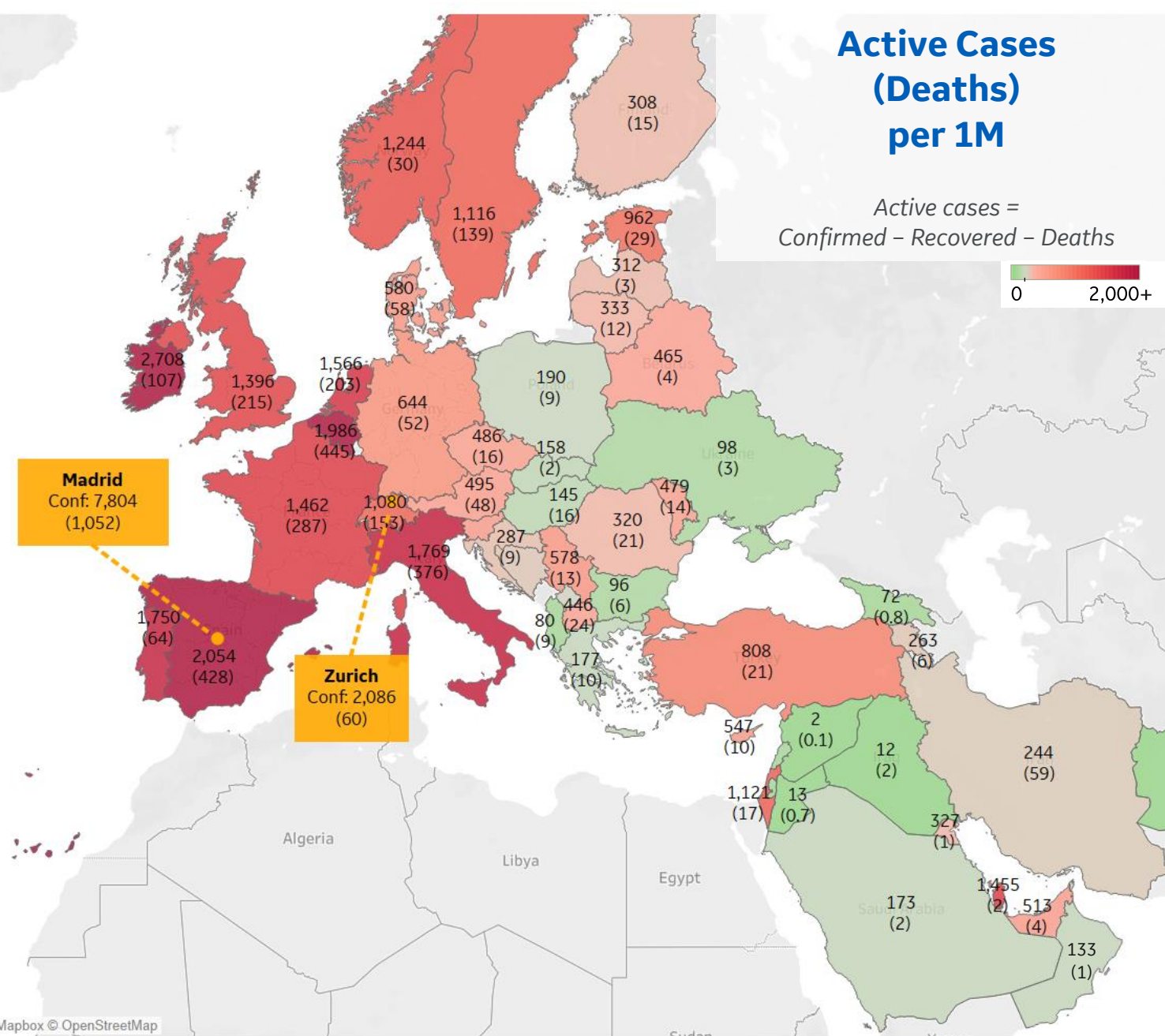
## Per 1M in Region

	Today	Change
Active Cases	764	+2%
Confirmed	38 new	+3%
Deaths	4 new	+4%
Recovered	19 new	+5%

## Most Active Cases per 1M

Ireland	2,708
Spain	2,054
Belgium	1,986
Italy	1,769
Portugal	1,750
Netherlands	1,566
France	1,462
Qatar	1,455
UK	1,396
Norway	1,244

\* Excludes regions with population < 1M



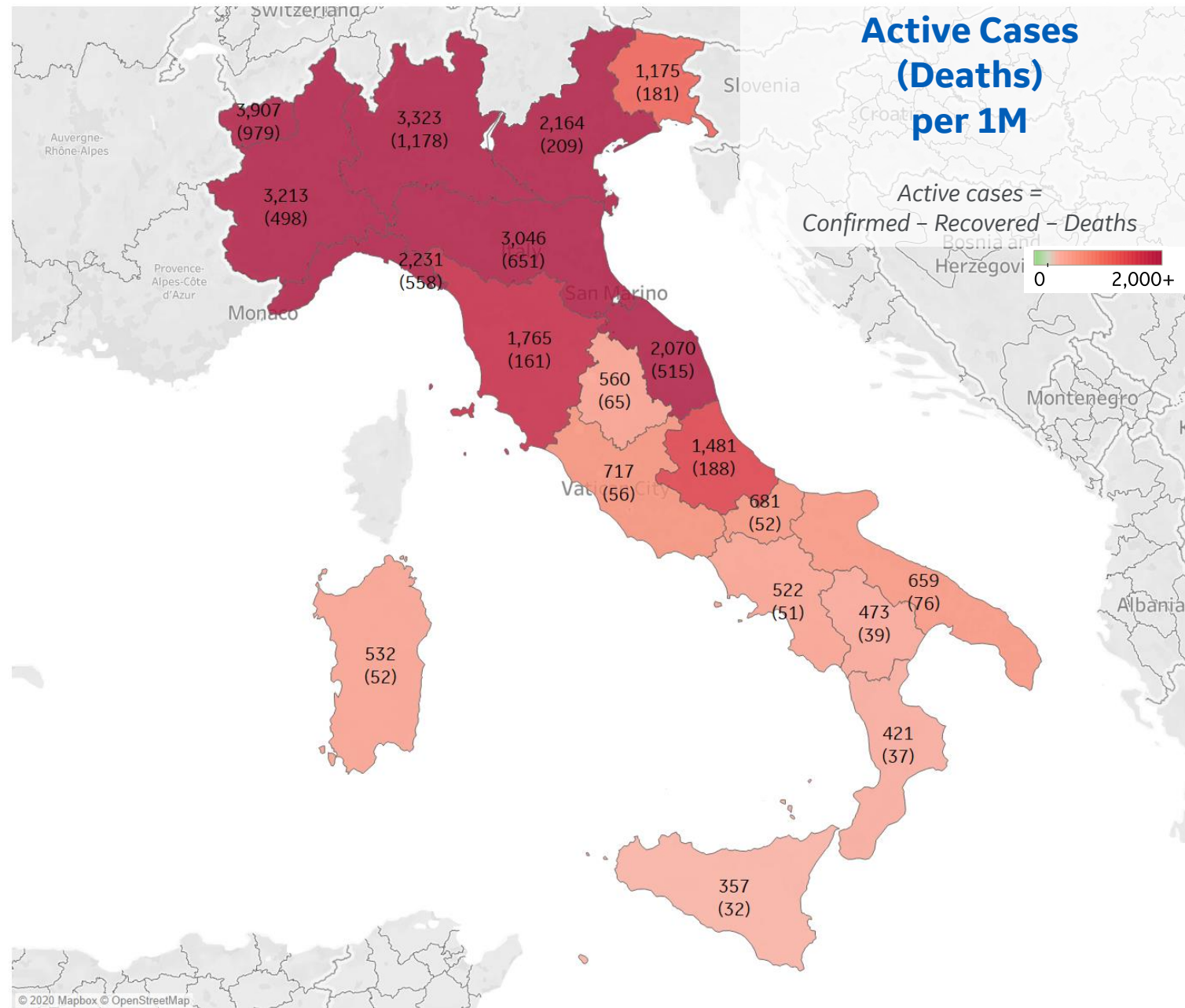
# Italy

## Per 1M in Region

	Today	Change
Active Cases	1,769	+0.3%
Confirmed	58 new	+4%
Deaths	10 new	+7%
Recovered	42 new	+4%

## Most Active Cases per 1M

Lombardia	3,323
Piemonte	3,213
Emilia-Romagna	3,046
Liguria	2,231
Veneto	2,164
Marche	2,070
Trentino-Alto Adi..	1,856
Toscana	1,765
Abruzzo	1,481
Sudtirolo	1,475





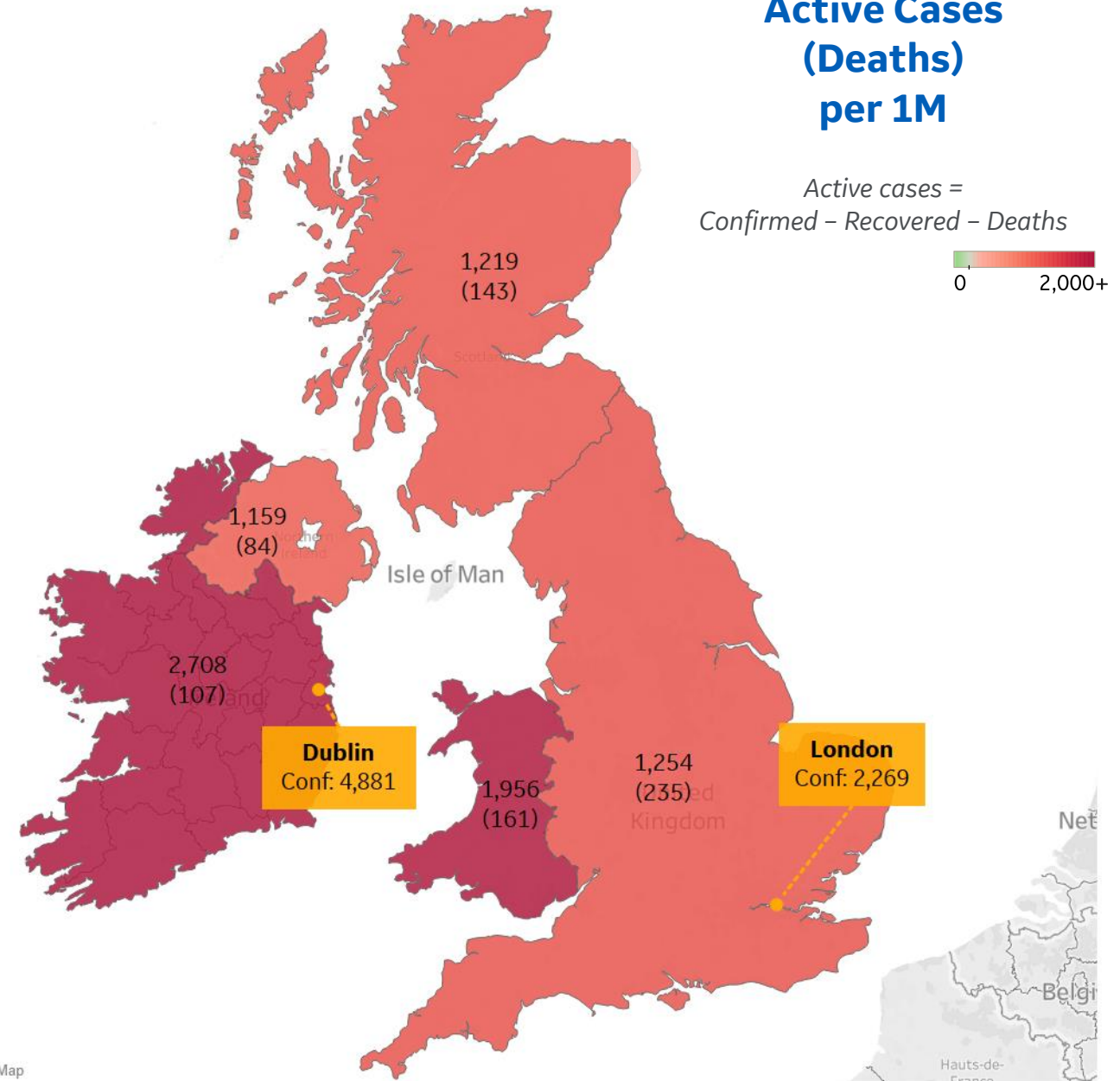
# UK & Ireland

## Per 1M in Region

	Today	Change
Active Cases	1,485	+5%
Confirmed	87 new	+5%
Deaths	12 new	+6%
Recovered	0.3 new	+4%

## Most Active Cases per 1M

Ireland	2,708
Wales	1,956
England	1,254
Scotland	1,219
Northern Ireland	1,159



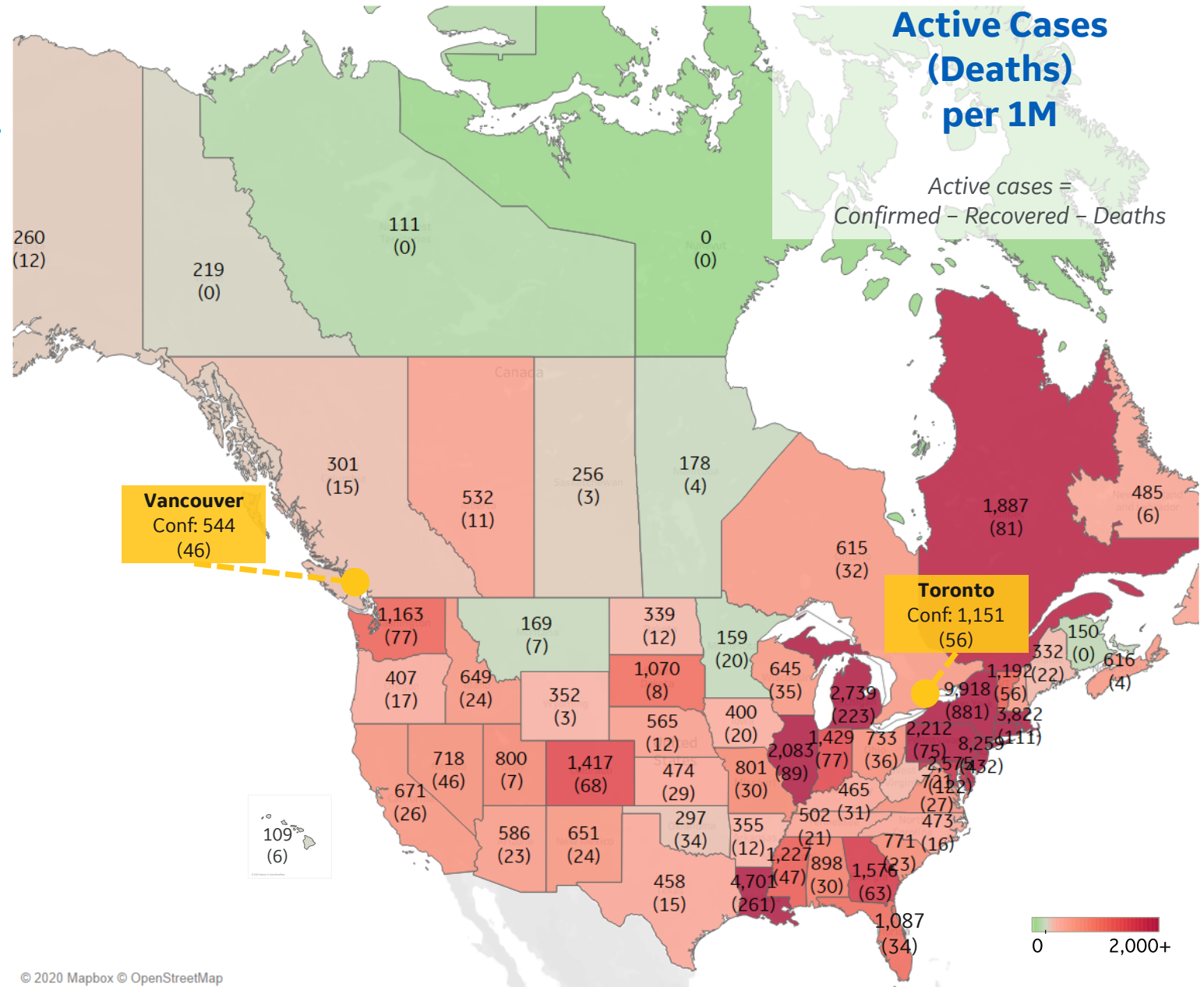
# US & Canada

## Per 1M in Region

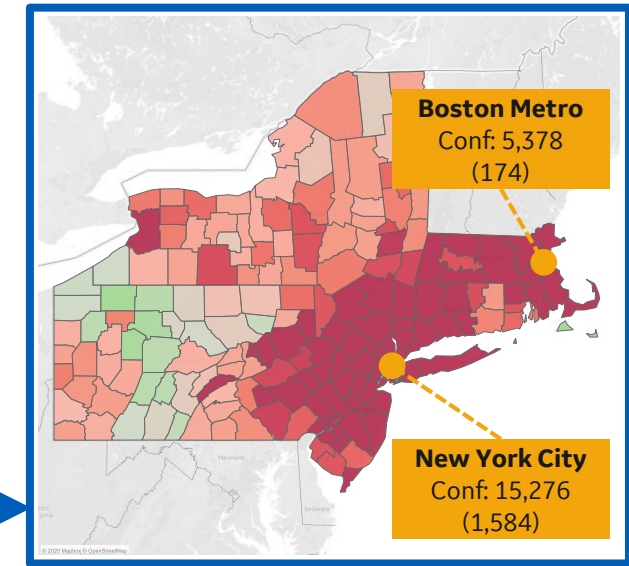
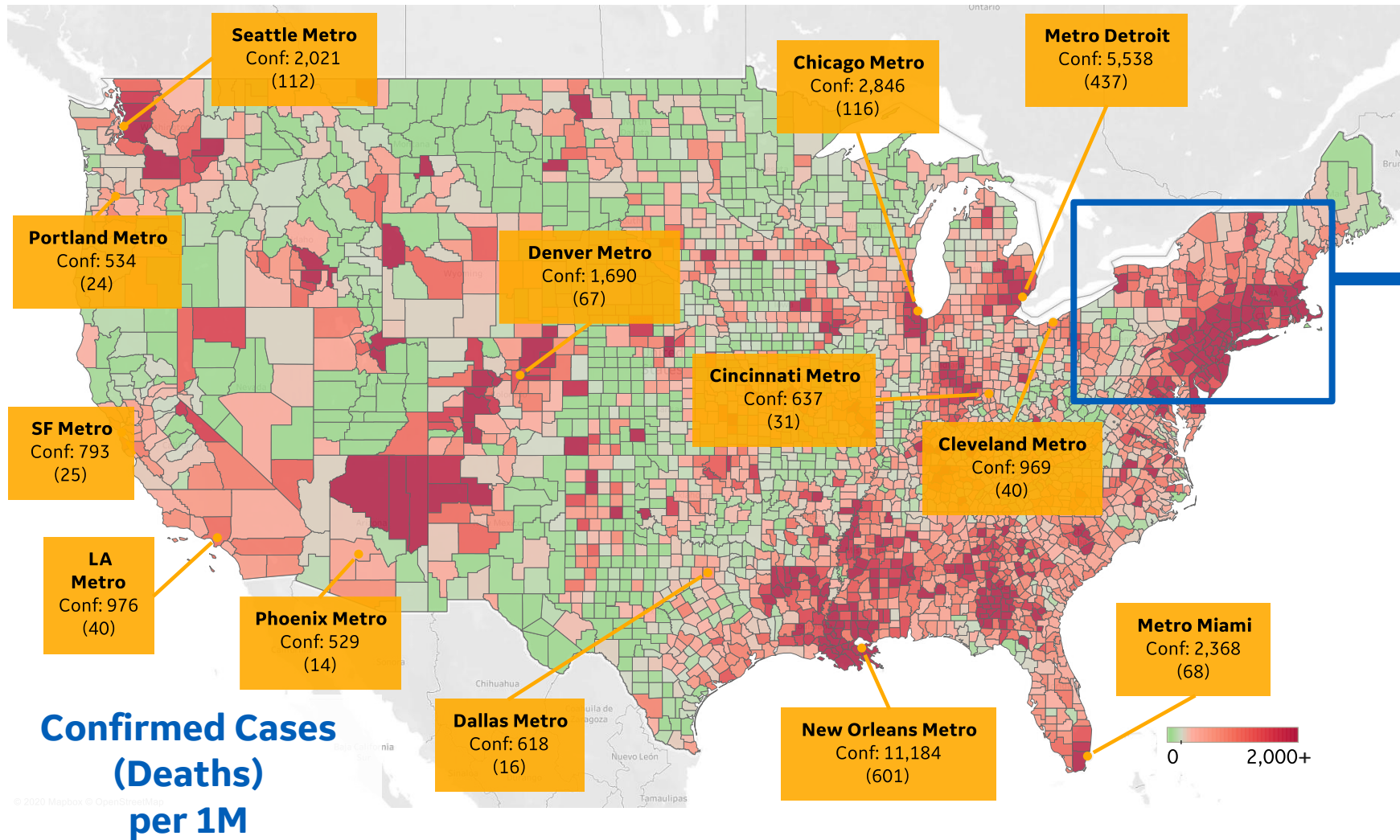
	Today	Change
Active Cases	1,696	+4%
Confirmed	92 new	+5%
Deaths	11 new	+12%
Recovered	13 new	+7%

## Most Active Cases per 1M

New York	9,918
New Jersey	8,259
Louisiana	4,701
Connecticut	4,406
Rhode Island	3,822
Massachusetts	3,610
Michigan	2,739
DC	2,575
Pennsylvania	2,212
Illinois	2,083



# US by County & Metro Area



Counties* with Most Confirmed Cases per 1M		
Nassau County	NY	21,032
Suffolk County	NY	16,954
New York City**	NY	15,276
Wayne County	MI	7,565
Philadelphia County	PA	5,406
Middlesex County	MA	4,805
Oakland County	MI	4,692
Cook County	IL	3,765
Miami-Dade County	FL	3,248
King County	WA	2,176

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

# Oceania

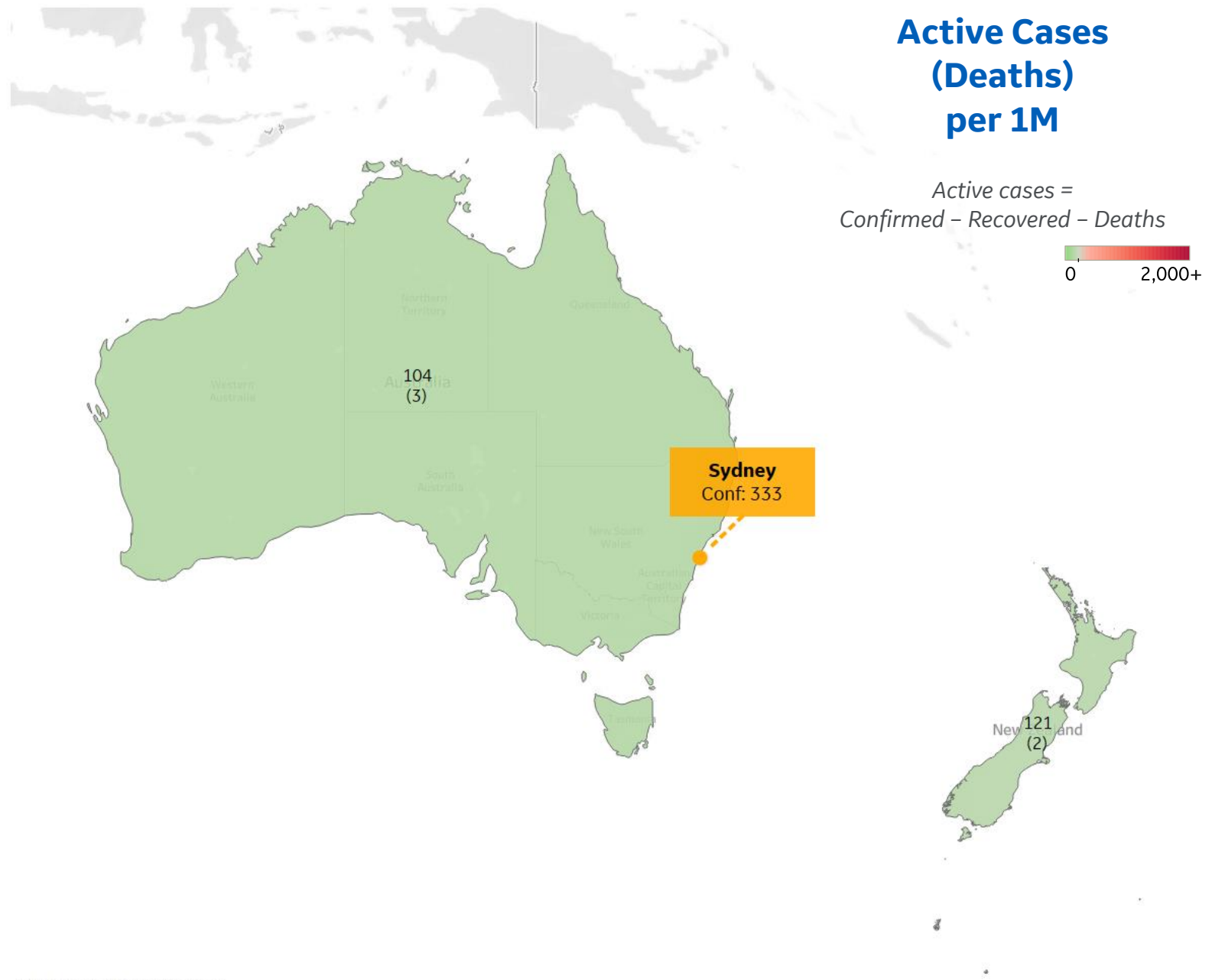
## Per 1M in Region

	Today	Change
Active Cases	104	-31%
Confirmed	2 new	+1%
Deaths	0.2 new	+7%
Recovered	48 new	+48%

## Most Active Cases per 1M

New Zealand	121
Australia	104

\* Excludes regions with population < 1M



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# Latin & South America

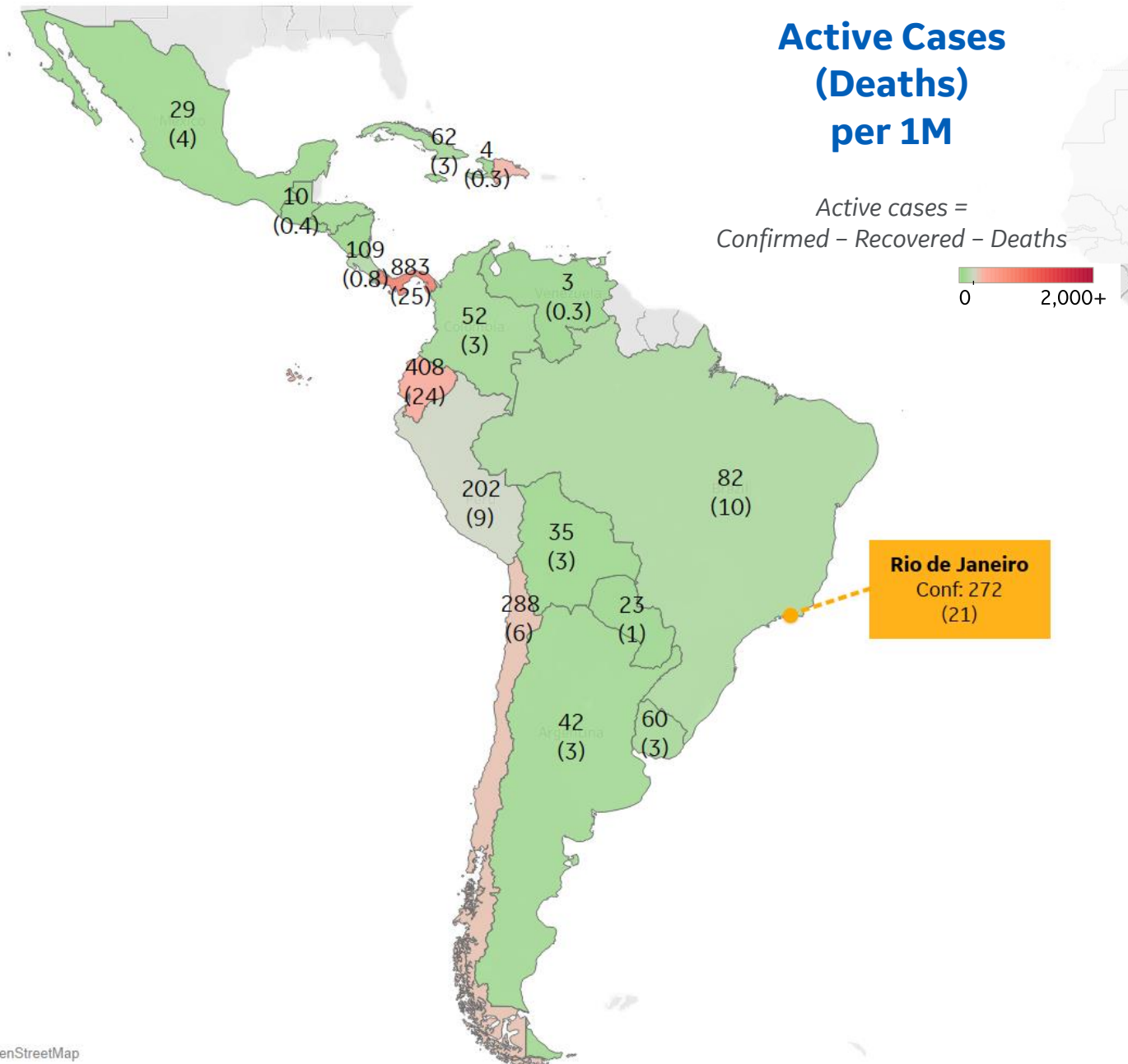
## Per 1M in Region

	Today	Change
Active Cases	86	+10%
Confirmed	10 new	+8%
Deaths	0.5 new	+9%
Recovered	2 new	+3%

## Most Active Cases per 1M

Panama	883
Ecuador	408
Dominican Repub..	337
Chile	288
Peru	202
Costa Rica	109
Brazil	82
Cuba	62
Trinidad and Toba..	61
Uruguay	60

\* Excludes regions with population < 1M



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# Asia

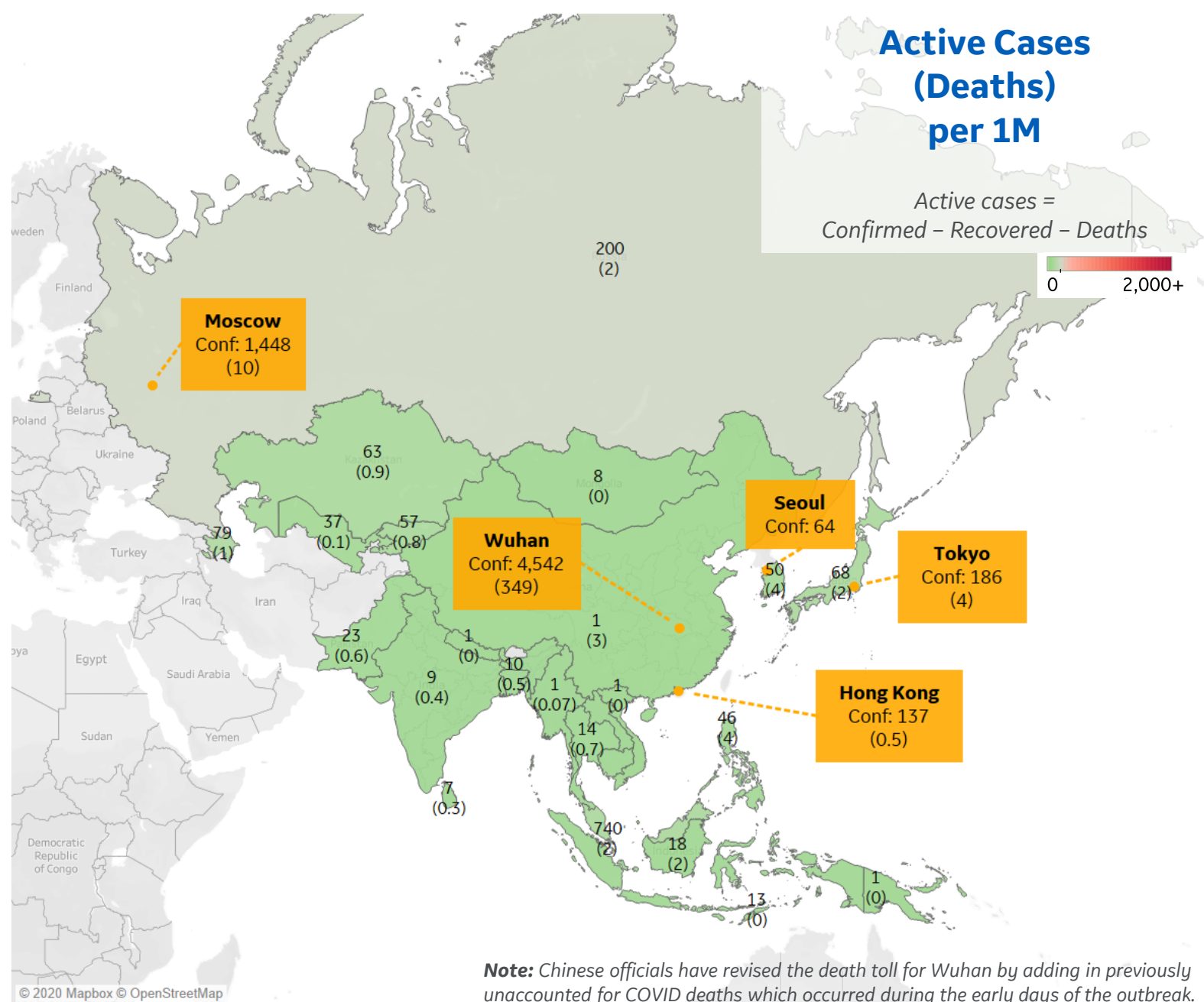
## Per 1M in Region

	Today	Change
Active Cases	19	+9%
Confirmed	2 new	+5%
Deaths	0.3 new	+26%
Recovered	0.1 new	+1%

## Most Active Cases per 1M

Singapore	740
Russia	200
Azerbaijan	79
Japan	68
Malaysia	68
Kazakhstan	63
Kyrgyzstan	57
South Korea	50
Philippines	46
Uzbekistan	37

\* Excludes regions with population < 1M



**Note:** Chinese officials have revised the death toll for Wuhan by adding in previously unaccounted for COVID deaths which occurred during the early days of the outbreak.

# Africa

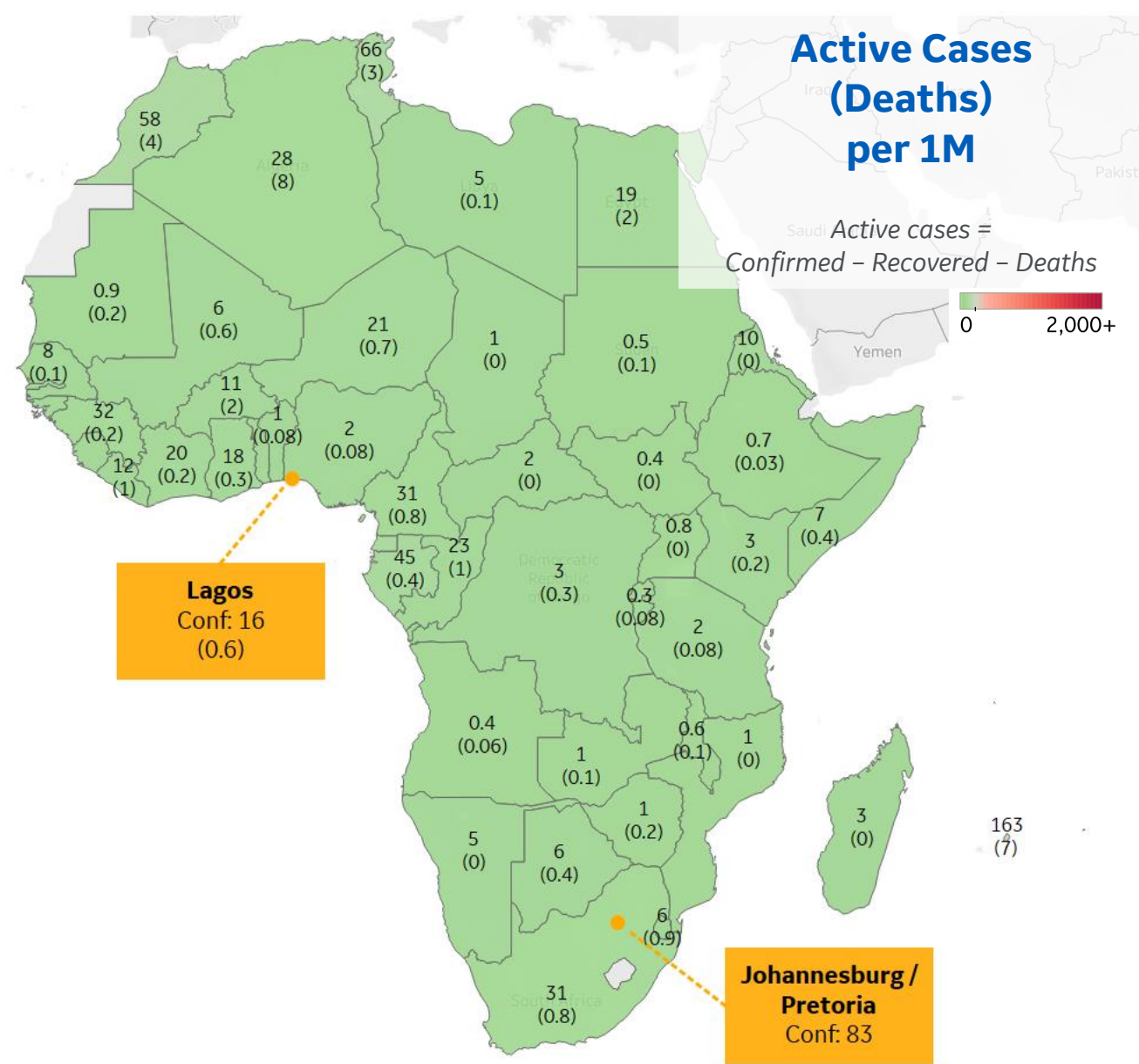
## Per 1M in Region

	Today	Change
Active Cases	11	+8%
Confirmed	1 new	+8%
Deaths	0.04 new	+5%
Recovered	0.2 new	+8%

## Most Active Cases per 1M

Mauritius	163
Tunisia	66
Morocco	58
Equatorial Guinea	53
Gabon	45
Guinea	32
South Africa	31
Cameroon	31
Algeria	28
Congo (Brazzavil..)	23

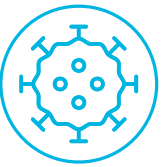
\* Excludes regions with population < 1M



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