



# COVID-19 UPDATE: With F-CAT peaking, 9 states near new highs (15% of US, vs 30% F-CAT). Total USA cases adjusted 55,000 down from 59,000 last Sunday

#### THIS MESSAGE IS BEING SENT SOLELY TO CLIENTS OF FS INSIGHT

The trend in US daily COVID-19 cases is improving, after plateauing about two weeks ago, we are seeing a sustained decline in COVID-19 cases nationally and also within the four states that are the current epicenter, FL, CA, AZ, TX, or F-CAT. So, the 8-week surge from early June to July is now over. But investors seem to be weighing a host of new issues, even as US COVID-19 cases are peaking:

- Will other states see a relapse/resurgence?
- What about "back to school"?
- CARES Act is moving slowly but not at pace market wants;
- 2020 elections is proving to be a contested race;
- MLB is seeing renewed outbreaks and postponed 33 games already, only a few weeks into the season;
- Is the vaccine safe and will enough Americans take it?

We discuss some of these topics in this commentary. As we move further into summer, we are starting to see additional but occasional delays in weekend data reporting. For Sunday, three states did not report data:

- Texas missing Sunday, Louisiana and Washington (missed Sat, but 2 days' worth yesterday)
- Of these, TX is arguably the only one that matters given the relatively high level of cases reported by that state which has been around 9,000 in the past few days.

But it seems like the DSHS is undergoing a system upgrade and this is resulting in a delay of results until Monday evening. So, the daily case figure reported yesterday is missing about 9.000 or so cases.

New data will not be posted on this dashboard on Sunday, August 2 due to a scheduled upgrade to the system that processes electronic lab reports. Data for Sunday will be posted with Monday's data update in the files on the Additional Data tab.

https://txdshs.maps.arcgis.com/apps/opsdashboard/index.html#/ed483ecd702b4298ab01e8b9cafc8b83



## STRATEGY: Everybody is watching the same high-frequency data, but path of cases is more important (but unknown)

One of our favorite weekend reads is Barron's (is it any wonder we wanted to bring their senior editor, Vito Racanelli to our firm?). The article below has a great headline:

"Ignore GDP. Here's What Investors Should Watch for Economic Insights During the Pandemic."

It is referring to the fact investors should focus less on the 2Q GDP print (reported last week) and focus on the high-frequency data. This indeed has been the lens the market has been using. And this data, from credit card, to OpenTable reservations, or Google/Apple mobility data has been slowing. It has been slowing because of the resurgence of cases nationally and the resulting caution.



Subscribe Today

Sign In

#### ECONOMY AND POLICY THE ECONOMY

Ignore GDP. Here's What Investors Should Watch for Economic Insights During the Pandemic.









By Lisa Beilfuss July 31, 2020 3:15 pm ET



Mark Wilson/Getty Images

Everyone knew it was coming, but the anticipation made it no less ugly: The U.S. economy shrank an annualized 32.9% in the second quarter from the first. Investors should dismiss the historic number—but not just because the worst of the pandemic's toll is over.

https://www.barrons.com/articles/ignore-gdp-heres-what-investors-should-watch-for-economic-insights-during-the-pandemic-51596222901?mod=hp\_LEAD\_1

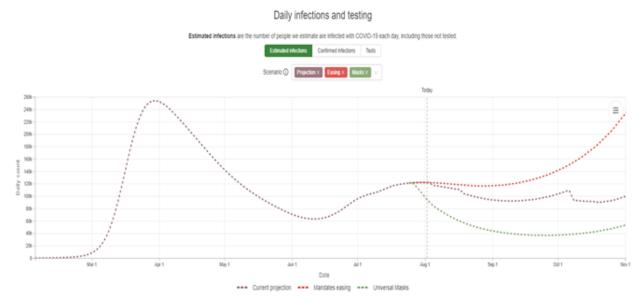


This high frequency data is very good at giving us a contemporaneous state of activity (and is a leading metric for GDP, which is measured quarterly). But this data itself is not predictive. Just because data is currently slowing, in response to surging cases, this does not tell us where the data will be if cases/infections fall sharply. Hence, while this high-frequency data is useful, there are limitations.

- at the moment, the flattening of this data is causing investors to remain defensively positioned via bond proxies.

But perhaps the best leading for where the high-frequency data will trend is the forecast for COVID-19 infections. If infections are forecast to continue declining, this should restore a level of confidence among Americans and policymakers. In our view, the model for looking at future infection trends is the model by IHME (used by the White House).

- their model shows 3 paths for future cases.
- if masks remain in place, infections are forecast to decline rapidly
- the purple line (middle) is their projection and even that shows infections slowing



https://covid19.healthdata.org/united-states-of-america

So if the US tracks the IHME model, we should start to see cases fall in the next few weeks.



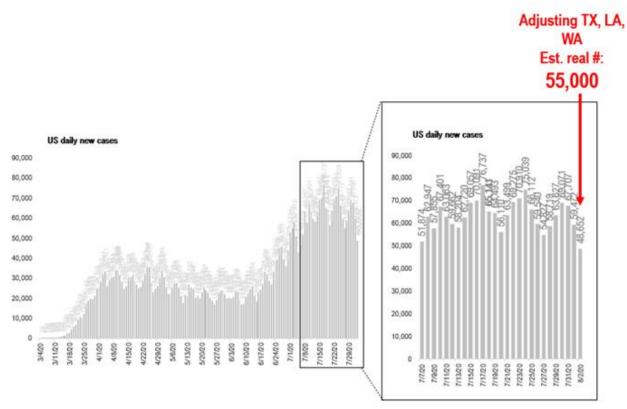
## POINT 1: USA COVID-19 cases come in at 48,652 but missing TX, est. real figure likely 55,000 better vs 7D ago...

Total USA COVID-19 cases came in at 48,652 but this is an unusually low weekend number because TX did not report Sunday (usually one or two states miss, but TX is a biggie).

- Texas has averaged 9,000 per day (missing)
- Louisiana reported Sat + Sunday combined today of 3,467 (-1,700)
- Washington reported Sat + Sunday combined today of 1,738 (-800)

So adjusting for this, the adjusted figure is likely around 55,000.

- Last Sunday, total daily new cases were 59,540, so this is an improvement vs 7D ago, the 13th consecutive day.

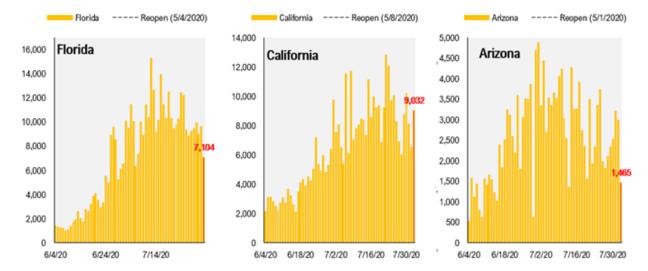


Source: COVID-19 Tracking Project

The trends in the other "epicenter" states has been good. Take a look at the rest of F-CAT:

- FL 7,104 is the best in 3 weeks
- CA 9,032 is well off the 13,000 peak
- AZ cases the lowest in 4 weeks





Source: COVID-19 Tracking Project

So even without Texas, the F-CAT states are seeing a significant easing in total cases.

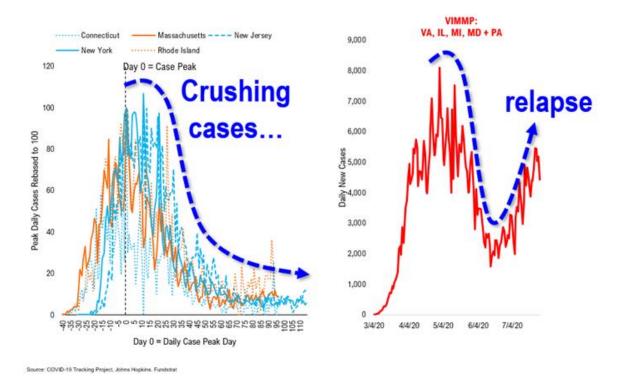
## Where will cases be in a few weeks? Will it follow NY tristate + MA + RI or will it follow VIMMP?

But this leads us to think about where cases will be in a few weeks. As we wrote about in a few recent commentaries, there are two paths, the path of NY tristate (plus MA and RI) and the path of VA, IL, MI, MD and PA (VIMMP).

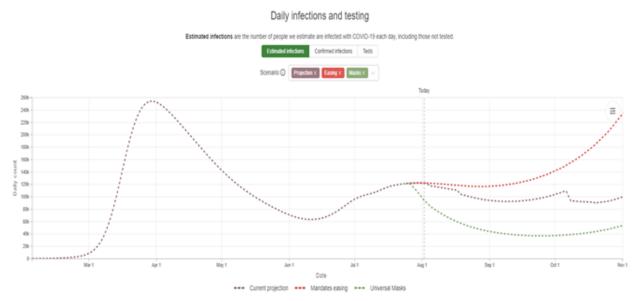


#### TWO PATHS: states that opened last have demonstrated two virus paths

NY, NJ, CT, MA and RI (left chart)have seen daily cases absolutely collapse since their respective peaks, while daily cases in VIMMP (VA, IL, MI, MD + PA) quadrupled, after falling 88% from their peaks.



But at the national level, the IHME forecast, particularly with masks is showing a pretty steep forecasted drop in infections within the next 4 weeks.

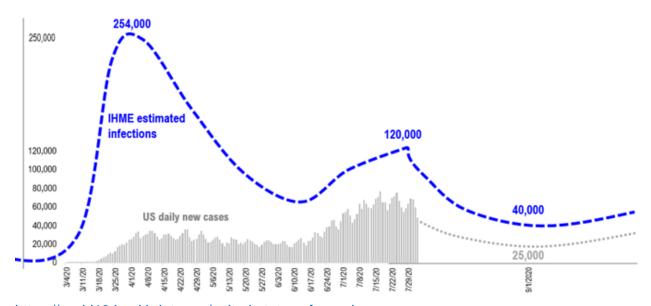


https://covid19.healthdata.org/united-states-of-america



If we add this IHME model to "detected" cases (confirmed via PCR + serology tests), this IHME forecast shows a few interesting things:

- USA infections probably recently peaked at 120,000 infections
- detected cases reached ~77,000, or about 64% of infections detected
- by September, the IHME forecast is 40,00 infections
- at 64% detection, this implies 25,000 cases within 4 weeks At that pace, we would view this as a steep drop-off.



#### https://covid19.healthdata.org/united-states-of-america

#### 6 states had sizable 3D increase

Louisiana	3,467 vs 1	1,799 (	Fri) +1,668
California	9,032 vs 8	3,086	+946
Washington	1,738 vs	818	+920
Puerto Rico	292 vs	77	+215
Alabama	2,095 vs	1,961	+134
Wisconsin	922 vs	832	+90
Total 6 state	S		+3,973

#### 6 states had sizable 3D declines

Florida	7,104 vs 9,007 (F	ri) -1,903
Arizona	1,465 vs 3,212	-1,747
Tennessee	1,443 vs 3,088	-1,645
Missouri	582 vs 1,489	-907
Georgia	3,165 vs 4,066	-901
North Carolina	1,341 vs 1,954	<u>-613</u>
Total 6 states		-7,716



#### Daily Case Increases (by State) (08/02)

% total new cases (state cases/ total US cases) % total US pop (state population/ total US population)

Sorted

CT and RI do not report over the weekend... LA and WA stats on Sunday reflect two-day change... TX did not report on Sunday due to system upgrade...

		7/31/20	8/1/20	8/2/20	
	United States	67,707	59,472	48,652	-10,820
	States:				
1	California	8,086	6,542	9.032	
2	Florida	9.007	9,642	7,104	
3	Louisiana	1,799	. 0	3,467	<higher< td=""></higher<>
4	Georgia	4,066	3,660	3,165	_
5	Alabama	1,961	1,626	2,095	
6	Washington	818	. 0		<higher< td=""></higher<>
7	Illinois	1,980	1.639	1,467	, i
8	Arizona	3,212	2,992	1,465	
9	Tennessee	3,088	2,225	1,443	
10	North Carolina	1,954	1,730	1,341	
11	South Carolina	1,444	1,583	1,189	
12	Nevada	1,264	986	1,131	
13	Virginia	984	913	981	
14	Ohio	1,533	928	944	
15	Wisconsin	832	1,062	922	
16	Maryland	1,169	1,019	909	
17	Minnesota	771	725	759	
18	Indiana	901	968	735	
19	Mississippi	1,168	1,134	672	
20	Pennsylvania	970	888	654	
21	Arkansas	752	662	637	
22	Missouri	1,489	935	582	
23	New York	644	753	531	
24	lowa	544	394	516	
25	Oklahoma	747	1,244	494	
26	Utah	500	506	473	
27	Kentucky	765	572	462	
28	Colorado	605	458	449	
29	Michigan	734	735	426	
30	Massachusetts	514	428	418	
31	New Jersey	690	369	321	
32	Nebraska	445	180	311	
33	Puerto Rico	77	546	292	
34	Oregon	361	325	280	
35	Idaho	475	393	230	
36	New Mexico	212	196	220	
37	Alaska	112	146	144	
38	West Virginia	220	93	119	
39	Montana	151	115	113	
40	South Dakota	79	103	88	
41	Delaware	99	89	72	
42	District of Columbia	69	79	69	
43	North Dakota	168	133	58	
44	Hawaii	122	86	45	
45	Wyoming	40	43	39	
46	New Hampshire	39	30	21	
47	Maine	24	25	21	
48	Vermont	7	7	5	
49	Northern Mariana Islands	0	0	3	
50	U.S. Virgin Islands	21	15	0	
51	Texas	8,839	9,539	0	
52	Rhode Island	72	0	0	
53	Kansas	942	0	0	
54	Guam	2	11	0	
55	Connecticut	140	0	0	
56	American Samoa	0	0	0	

Source: COVID-19 Tracking Project



#### POINT 2: New heatmaps to track outbreaks by state --> Slide 3 + 4

With F-CAT seeing a plateau in cases, the good news is that about 60%-70% of the US has seen a large enough outbreak in cases (>12,500 cases per 1mm residents) to see infection rates slow (infection break point?). But this does not mean other states will not see a relapse, particularly those with lower prevalence rates.

So we are adding a few new heatmaps to track this across the US. These are now slide 3 and 4 in the attached chartbook (updated daily).

#### Slide 3 Heatmaps:

- Daily New cases (absolute number)
- 7D delta in daily cases (absolute number)
- Daily New cases per 1mm residents (common-size)
- 7D delta in daily new cases per 1mm residents (common-size)

The more "red" the state, the larger its contribution. Thus, watch for "red"

#### Slide 4 Heatmap:

- # days since a peak in daily cases
- if days 0-7, these states are making new highs...

Taking a look at this case heat map, I marked states that stand out in each of these 4 maps. Looking at these 4 heatmaps, few states are seeing a surge in cases enough to overtake F-CAT:

top-left --> Maybe GA cases are large enough to overtake AZ, but this is not a large state overall

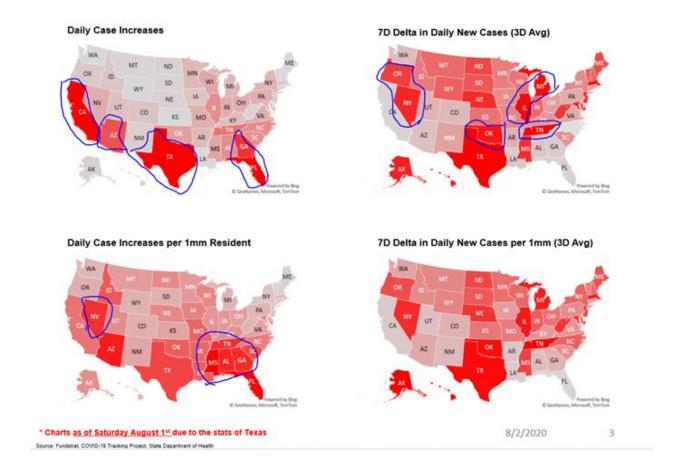
top-right --> Increases in daily cases (7D delta) is shown by these states:

- OR
- NV
- MI
- IL
- TN - OK



#### #2: USA COVID-19 Heat Map\*...

### fundstrat



# 9 states are seeing new highs in COVID-19 daily cases, and these are 15% of US population, half of F-CAT

The charts below highlight how many days since a state made an all-time high. The more "green" the longer since a new high. We marked those states with the most recent new highs. I think OR remains interesting. This is the state that is having widespread protests and even had the intervention of Federal officers.

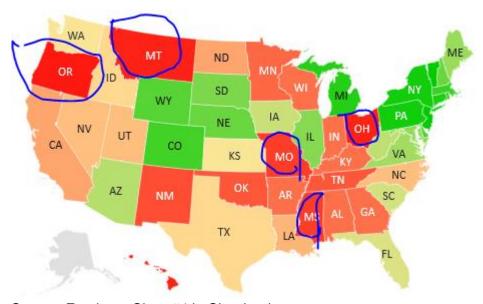
- OR is another argument pointing to protests as having a role in the resurgence of cases

In total 9 states made a new high within the past week and this is about 15% of the US. So even if the case prevalence in these states surge ala F-CAT, their amplitude will be half of F-CAT:

- F-CAT peaked at 40,000 cases
- these 9 states might peak at 20,000 cases

Overall, these states do not likely lead to a new high in overall US cases





Source: Fundstrat Chart #4 in Chartbook
# Days since Daily Cases (3D Avg) Peak (as of 8/2)

		Sorted				Sorted	
	Peak Date	8/2/20	% US Pop		Peak Date	8/2/20	% US Pop
United States	7/17/20	16	100%	United States	7/17/20	16	100%
States:				States:			
Northem Mariana Is	4/3/20	121	0.0%	Kansas	7/15/20	18	0.9%
Vermont	4/5/20	119	0.2%	Texas	7/17/20	16	8.7%
New Jersey	4/5/20	119	2.7%	Idaho	7/17/20	16	0.5%
Pennsylvania	4/10/20	114	3.9%	Utah	7/18/20	15	1.0%
New York	4/10/20	114	5.9%	Neva da	7/18/20	15	0.9%
Connecticut	4/22/20	102	1.1%	North Carolina	7/18/20	15	3.2%
Michigan	4/24/20	100	3.0%	Louisiana	7/21/20	12	1.4%
Rhode Island	4/25/20	99	0.3%	North Dakota	7/24/20	9	0.2%
Massachusetts	4/25/20	99	2.1%	California	7/24/20	9	11.9%
Colorado	4/26/20	98	1.7%	Wisconsin	7/25/20	8	1.8%
Delaware	4/28/20	96	0.3%	Kentucky	7/25/20	8	1.3%
Wyoming	4/29/20	95	0.2%	Indiana	7/25/20	8	2.0%
New Hampshire	5/2/20	92	0.4%	Georgia	7/25/20	8	3.2%
Nebraska	5/2/20	92	0.6%	Arkansas	7/25/20	8	0.9%
District of Columbia	5/3/20	91	0.2%	Ala bama	7/25/20	8	1.5%
South Dakota	5/9/20	85	0.3%	Minnesota	7/26/20	7	1.7%
Illinois	5/14/20	80	3.8%	Tennessee	7/28/20	5	2.1%
Maryland	5/21/20	73	1.8%	Oklahoma	7/28/20	5	1.2%
Maine	5/22/20	72	0.4%	New Mexico	7/29/20	4	0.6%
Virginia	5/27/20	67	2.6%	Mississippi	7/30/20	3	0.9%
Guam	6/20/20	43	0.0%	Missouri	7/30/20	3	1.8%
Arizona	7/2/20	31	2.2%	Ohio	7/31/20	2	3.5%
West Virginia	7/10/20	23	0.5%	Montana	7/31/20	2	0.3%
Iowa	7/11/20	22	1.0%	Hawaii	7/31/20	2	0.4%
South Carolina	7/12/20	21	1.6%	Oregon	8/1/20	1	1.3%
Florida	7/13/20	20	6.5%	Puerto Rico	8/2/20	0	1.0%
Washington	7/15/20	18	2.3%	American Samoa	8/2/20	0	0.0%
U.S. Virgin Islands	7/15/20	18	0.0%				l J

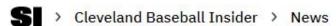
Source: Fundstrat Chart #4 in Chartbook



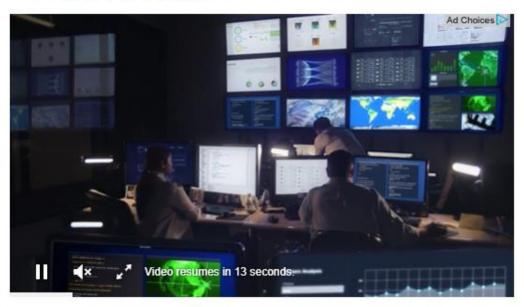
#### POINT 3: MLB, a live experiment of a fully open economy

So far, a few weeks into Major League Baseball season, 33 games have been postponed due to coronavirus cases, primarily within two teams -- Miami Marlins (20 players) and St Louis Cardinals (6 players). In total, more than 30 players and team staff have tested positive for COVID-19 so far.





## MLB Now at 33 Postponed Games After a Week of Chaos and Positive Covid-19 Tests





Major League Baseball is now sitting at 33 postponed games as of 10am ET Sunday morning after the Milwuakee Brewers announced their scheduled doubleheader with the St.Louis Cardinals has been shelved.

https://www.si.com/mlb/indians/news/mlb-now-at-33-postponed-games-after-a-week-of-chaos-and-positive-covid-19-tests



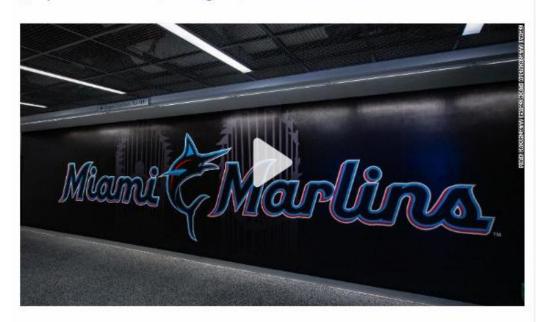
In fact, the MLB Commissioner Rob Manfred warned that he may shut down the shortened season if players and team do not do a better job of managing existing protocols.



## Baseball commissioner warns he might end season if coronavirus isn't managed better, ESPN reports

By David Close and Jason Hanna, CNN

① Updated 7:33 AM ET, Sat August 1, 2020



Miami Marlins cancel game over Covid-19 concerns 01:25

(CNN) — Major League Baseball Commissioner Rob Manfred warned union leader Tony Clark in a Friday call that if the league and players don't do a better job of following Covid-19 protocols and managing the virus, Manfred could shut down the shortened season, ESPN reported.

On Friday, the league and the MLB Players Association announced that 29 players and team staff have tested positive for Covid-19 this week.

https://www.cnn.com/2020/07/31/us/mlb-coronavirus-cardinals-brewers/index.html



Here is a selection of games postponed in the past few days stemming from the outbreak seen at these two teams. Because teams play at other cities (serially) and these games are multi-day series, a postponement creates a daisy chain cascade of delays.

Date	Postponed Games
7/27/20	Yakees at Phillies
	Orioles at Marlins
7/28/20	Yakees at Phillies
	Orioles at Marlins
7/29/20	Phillies at Yankees
7720720	Orioles at Marlins
	Offices at Marinis
7/30/20	Phillies at Yankees
	Orioles at Marlins
	V 1 .011
	Yankees at Orioles
7/31/20	Cardinals at Brewers
	Phillies at Blue Jays
	Nationals at Marlins
Weekend	Phillies at Blue Jays
(Sat and Sun)	Nationals at Marlins

Source: ESPN

## An obvious observation, but the MLB is a microcosm of the US economy, and MLB will be useful to monitor...

There is obvious disappointment with the postponement and COVID-19 outbreaks within the teams, particularly for sports fans and sponsors. The outbreaks are a reminder that COVID-19 is highly contagious and like the economy overall, every person needs to play a role in mitigation of spread. Fortunately, most cases so far have been asymptomatic.

But at the same time, the league is a mini-economy, in the sense that teams interact with other teams across various cities. So, there is a lot to be gained from monitoring how the league manages these outbreaks and we expect them to ultimately mitigate these spreads. But among the things we think will prove to be worthy useful insights:

- what percentage of cases prove to be asymptomatic --> MLB is testing far more regularly than the overall US
- what will contact tracers determine to be the primary source of spread --> still not known --> clubhouse, the ball, travel
- what protocols limit spread and infection?
- can a player be infected twice?
- if cases continue to spread, what will be the "herd immunity" for the league?

In other words, the MLB is a fully open US mini economy.



#### **Disclosures**

This research is for the clients of FS Insight only. For additional information, please contact your sales representative or FS Insight at <a href="http://www.fsinsight.com/">http://www.fsinsight.com/</a>.

#### **Conflicts of Interest**

This research contains the views, opinions and recommendations of FS Insight. At the time of publication of this report, FS Insight does not know of, or have reason to know of any material conflicts of interest.

#### **General Disclosures**

FS Insight is an independent research company and is not a registered investment advisor and is not acting as a broker dealer under any federal or state securities laws.

FS Insight is a member of IRC Securities' Research Prime Services Platform. IRC Securities is a FINRA registered broker-dealer that is focused on supporting the independent research industry. Certain personnel of FS Insight (i.e. Research Analysts) are registered representatives of IRC Securities, a FINRA member firm registered as a broker-dealer with the Securities and Exchange Commission and certain state securities regulators. As registered representatives and independent contractors of IRC Securities, such personnel may receive commissions paid to or shared with IRC Securities for transactions placed by FS Insight clients directly with IRC Securities or with securities firms that may share commissions with IRC Securities in accordance with applicable SEC and FINRA requirements. IRC Securities does not distribute the research of FS Insight, which is available to select institutional clients that have engaged FS Insight.

As registered representatives of IRC Securities our analysts must follow IRC Securities' Written Supervisory Procedures. Notable compliance policies include (1) prohibition of insider trading or the facilitation thereof, (2) maintaining client confidentiality, (3) archival of electronic communications, and (4) appropriate use of electronic communications, amongst other compliance related policies.

FS Insight does not have the same conflicts that traditional sell-side research organizations have because FS Insight (1) does not conduct any investment banking activities, (2) does not manage any investment funds, and (3) our clients are only institutional investors.

This research is for the clients of FS Insight only. Additional information is available upon request. Information has been obtained from sources believed to be reliable, but FS Insight does not warrant its completeness or accuracy except with respect to any disclosures relative to FS Insight and the analyst's involvement (if any) with any of the subject companies of the research. All pricing is as of the market close for the securities discussed, unless otherwise stated. Opinions and estimates constitute our judgment as of the date of this material and are subject to change without notice. Past performance is not indicative of future results. This material is not intended as an offer or solicitation for the purchase or sale of any financial instrument. The opinions and recommendations herein do not take into account individual client circumstances, risk tolerance, objectives, or needs and are not intended as recommendations of particular securities, financial instruments or strategies. The recipient of this report must make its own independent decision regarding any securities or financial instruments mentioned herein. Except in circumstances where FS Insight expressly agrees otherwise in writing, FS Insight is not acting as a municipal advisor and the opinions or views contained herein are not intended to be, and do not constitute, advice, including within the meaning of Section 15B of the Securities Exchange Act of 1934. All research reports are disseminated and available to all clients simultaneously through electronic publication to our internal client website, fsinsight.com. Not all research content is redistributed to our clients or made available to third-party aggregators or the media. Please contact your sales representative if you would like to receive any of our research publications.

The Yellow Thunderlight over the "BLAST" logo is designed by rawpixel.com / cited from Freepik.

Copyright 2020 FS Insight LLC. All rights reserved. No part of this material may be reprinted, sold or redistributed without the prior written consent of FS Insight LLC.