

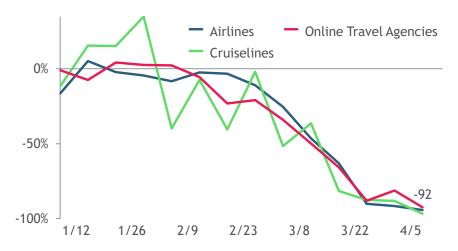
JUNE 2020

Transportation: Near term impact on revenue and employment followed by slower than average recovery due to social distancing and behavioral changes

Short term impact

- ~90% decline in air travel, 65-80% decline in NY mass transit ridership, 80% decline in rideshare
- +2,432% spike in unemployment claims

Credit card sales change YoY in NY State (%, 2019-2020)



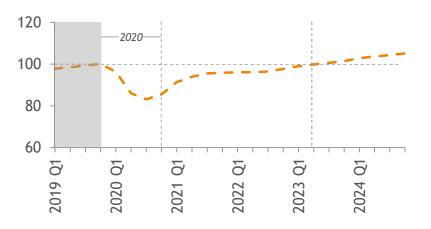
Recovery path

- In recent recessions, recovery in line with avg
- For C-19, likely slower recovery as consumers shift to teleconference vs. in person, and avoid crowded planes / trains

Total impact: 21.7% of pre-recession industry GDP

• 2020 impact: 10.4%

• Longer term impact: 11.3%



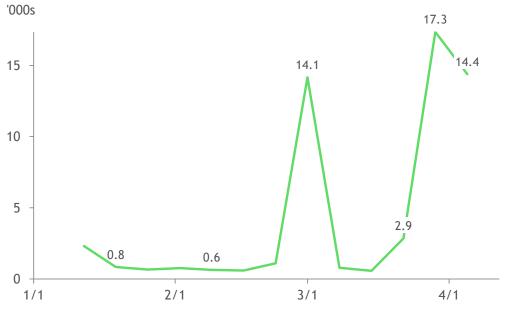
Source: Credit card sales data by Earnest Research. BCG analysis.

Deep dive: transportation and logistics

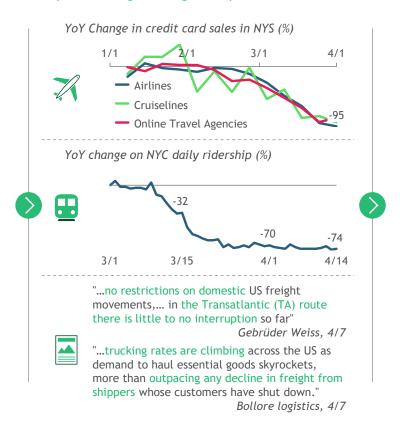
Covid-19 is significantly hurting state-wide demands on passenger transportation, while limited impact on logistic transportation

14.4k unemployment claims from T&L employees in NY State during week of 4/5

of weekly NY State unemployment insurance claims from T&L employees ('000s - 2020)



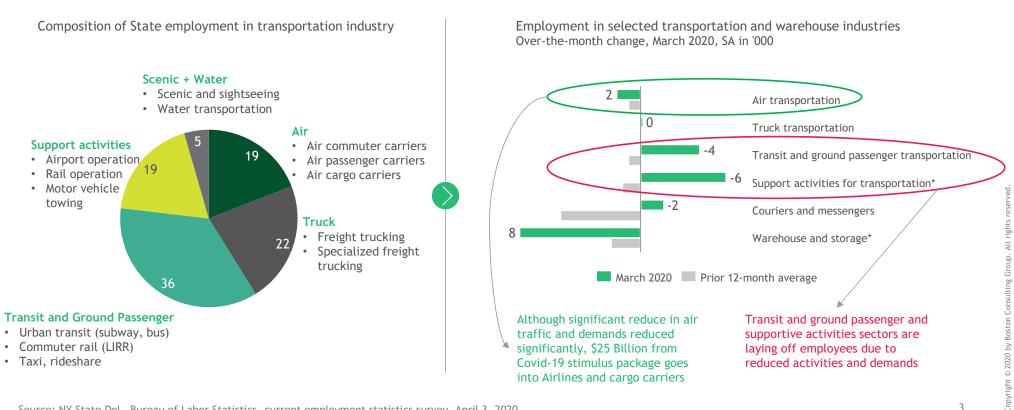
Airline & local transportation have been severely impacted; freight & cargo transport remain resilient

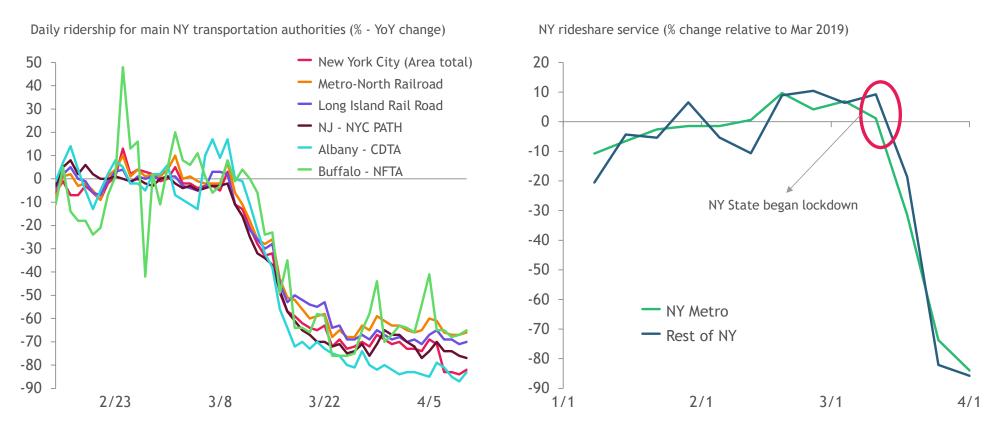


Source: NY State DoL, TSA, MTA, Transitapp, Earnest / BCG credit card sales data

Transit and ground passenger, truck, air and support activities consists of over 90% of state employment in transportation industry

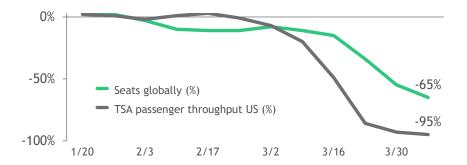
National employment statistics in transportation sector show that transit and ground passenger transportation and supportive activities were mostly impacted in March 2020





Notes: Ridership data is measured as usage of the "Transit" app, a proxy for demand. Rideshare service based on credit card data from Earnest Research and BCG Analytics.

Weekly global seats and US TSA passenger throughput YoY change against COVID-19 cases reported weekly globally



Covid-19 economic impact forecast - IATA

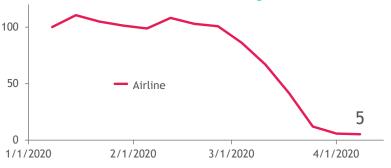
Region of airline registration	Revenue Passenger Kilometers 2020 (% YoY)	Passenger revenue \$ Bn 2020 vs. 2019 levels
Asia-Pacific	-37%	-88
North America	-27%	-50
Europe	-46%	-76
Middle East	-39%	-19
Africa	-32%	-4
Latin America	-41%	-15

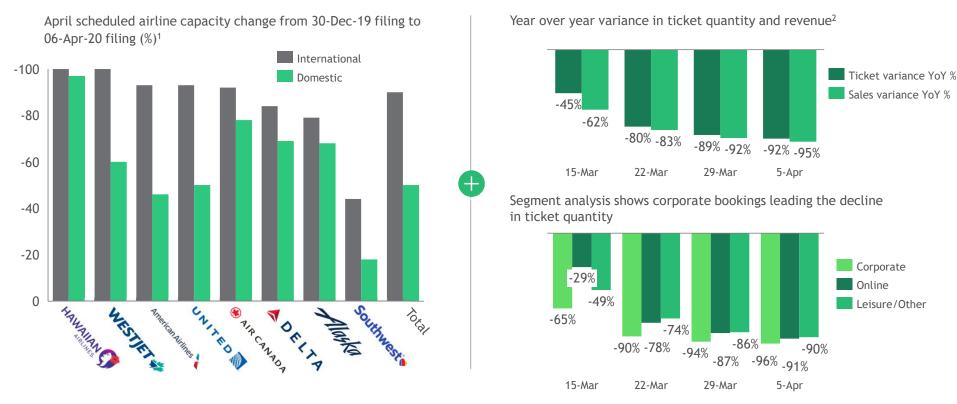
As one of the busiest air hubs world-wide, NY State's air transportation is closely associated with global air traffic changes

- JFK and Newark are among the top 10 airports globally)
- 2 LaGuardia is among the top 10 airports globally)
- 138.8 millions passenger traffic as of 2018
- Over **80,000** employees supporting airports operations



Credit card sales made in NYS on airlines dropped over 95% in March due to travel restrictions and flight reductions

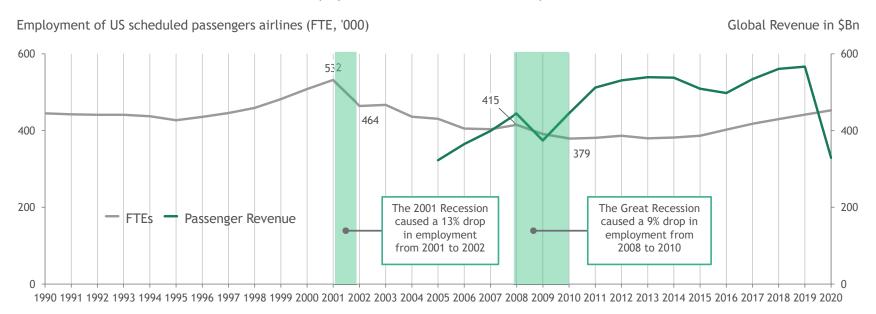




Air transportation is facing declining revenue causing employment uncertainty

As of February 2020, 34.9K NY State workforces are employed in air transportation sector

Employment vs. Revenue in Airline transportation



Note: FTE calculations count two part-time employees as one full-time employee; Estimated passenger revenue loss provided by IATA in their latest COVID-19 Updated Impact Assessment on March 24

Source: IATA; US BTS

Transportation network severely disrupted which compromised logistics / cargo operations



<u>Airlines</u> shutting down routes and part of their operations...

- International air cargo capacity might be affected
 - Multiple US and international airlines reduced or suspended all passenger flights to mainland China, Europe, Japan, and others, directly affecting 3PLs and companies that leveraged these flights to fly their parcels
- However some airlines already shifting passenger flights to cargo-only flights which could be a relief to parcel companies



... affecting service level and capacity to serve demands

- Reduced capacity: Passenger flight cancellations reduce total air cargo capacity (e.g., commercial airlines as freight forwarders)
- Increased demand: FedEx and others complain they cannot handle increased demand for its international express-delivery services due to the reduction in commercial airlines (less capacity available); American Airlines, Korean Air, and others, already shifting passengers flight to cargo-only flight mode



Ocean cargo rerouted around Asia...

- Under-capacity ships are taking on cargo en-route, at times exiting Chinese ports at 10% capacity
- 26% YoY increase in withdrawn capacity from canceled Asia to NAMR routes

- Lost trips leading to lost backhaul: Reduction in Asia-to-Europe shipping routes resulting in decreased shipping capacity on return trips
- Cross border e-Com suffering Parcel companies and e-Tailers hostage of delays and cancellations from Ocean cargo transportation

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