

Flying The Uncertain Skies -An Airline Industry Update



Sue Skowron
Corporate Sales Manager



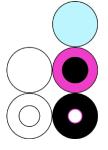


Agenda

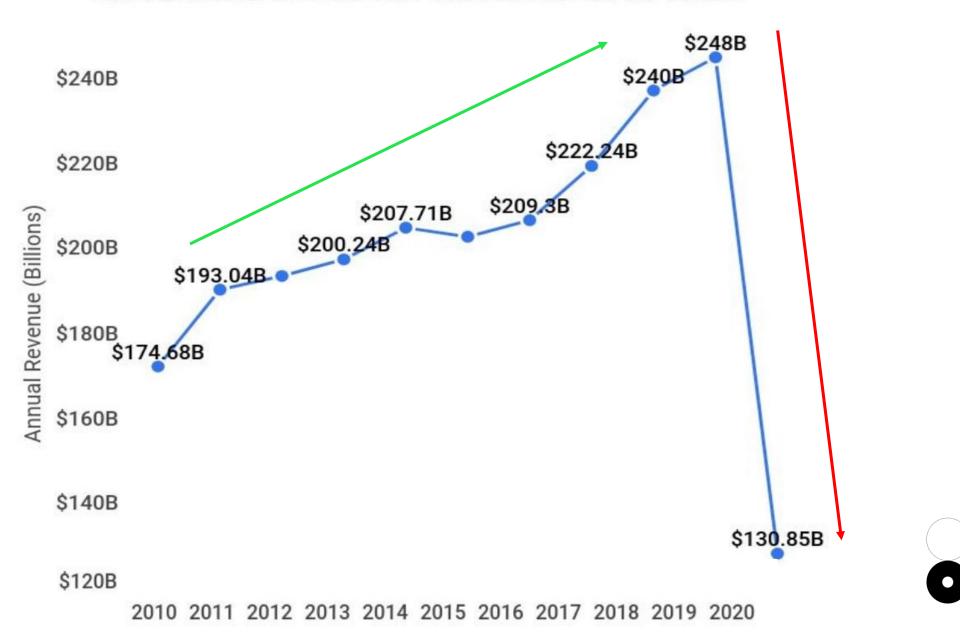
- Making Lemonade
- So, What We are Seeing Now
- Industry Issues
- What Does The Future Look Like?
- NDC
- Q & A

Making Lemonade





US AIRLINE INDUSTRY REVENUE 2010-2020



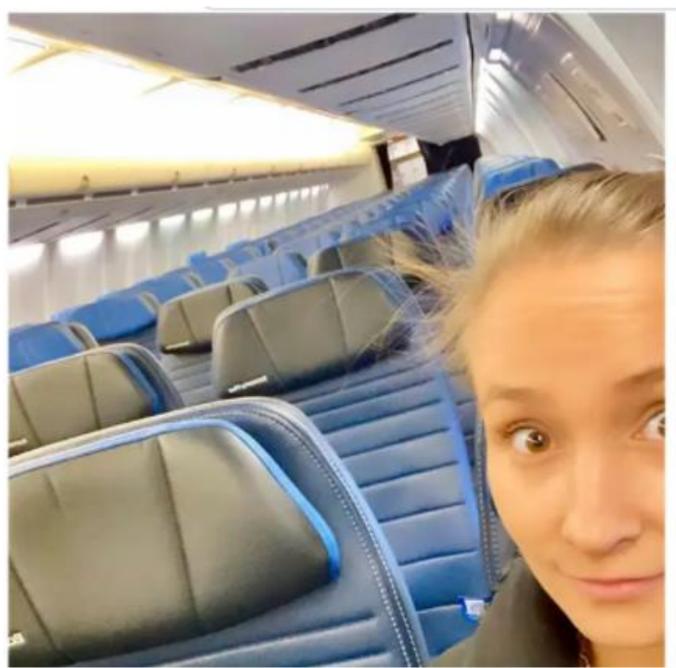












PRO 🔒

AIRLINES

U.S. airlines' 2020 losses expected to top \$35 billion as pandemic threatens another difficult year

PUBLISHED FRI, JAN 1 2021-7:30 AM EST | UPDATED FRI, JAN 1 2021-5:39 PM EST





KEY POINTS Analysts expect U.S. airlines' losses to top \$35 billion as the pandemic weighs on demand.

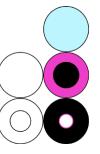




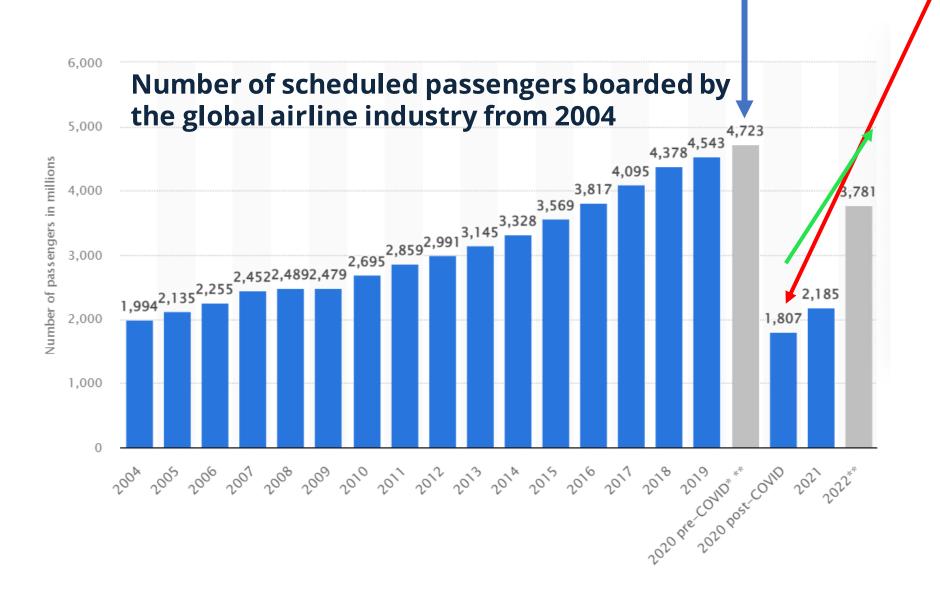
THIS WAY

So, What We Are Seeing Now?

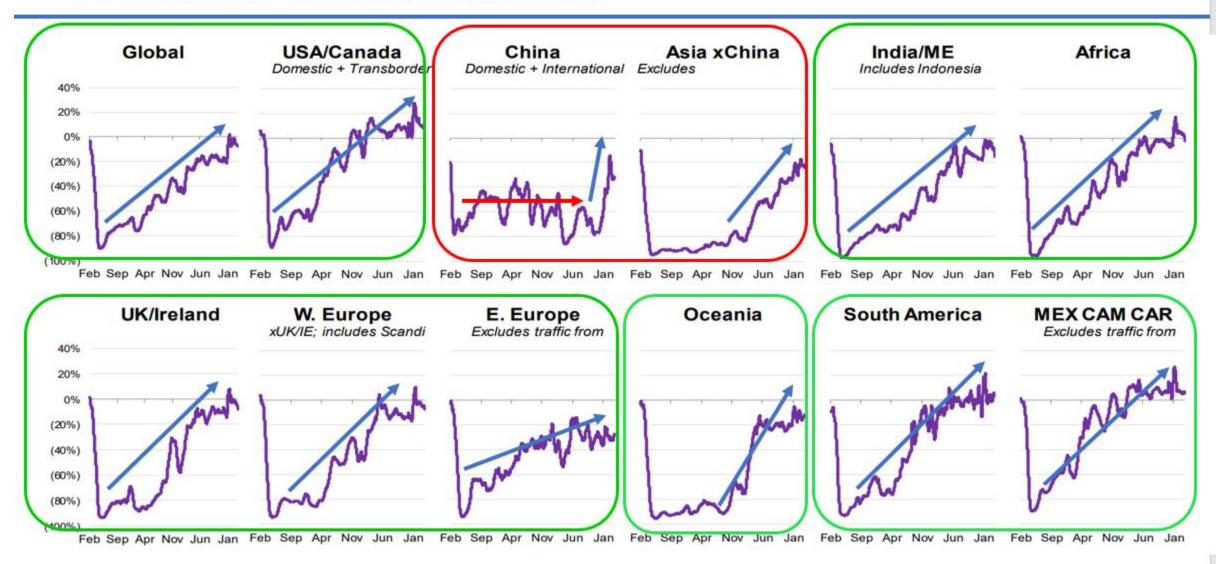




Demand



Global Air Travel Demand



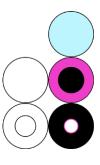
Demand Forecast

- Domestic traffic expected to get back to 2019 levels by late 2023*
- Leisure / "Bleisure" demand continues to be strong
- Global traffic will recover to 2019 levels by 2H 2024*
 - A year sooner than previously forecast
- Global business travel 85% of pre-pandemic levels
- IATA predicts that the industry will make a modest profit in 2023 first time since 2019



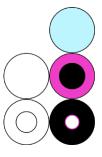
Industry Issues





While US Carriers Encouraged by 2022 Demand and Optimistic for a strong 2023.....

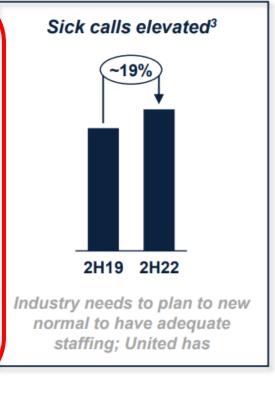
Recession Staffing Infrastructure Supply Issues Geo-political Issues Inflation **Labor and Fuel Costs**



Current industry capacity outlook for 2023 is unachievable, similar to 2022¹

Multiple constraints restricting industry capacity





Airbus, Boeing Aircraft Delivery Delays Slow Airline Recovery CFM struggles to pull Leap deliveries back on track, as supply chain woes persist Airbus CEO says supply chain still 'very complex' Industry experiencing OEM delivery delays; planes will be late

Many airlines and ATC have outgrown tech infrastructure

"We've talked a little bit over the last year about the need to modernize the operation and invest. This is why. We can't be our size and scope and have a lack of tools. So, you'll be hearing even more about how we invest to fix the issues that confront us as an airline." – airline CEO

Airlines have underinvested in their systems; United has a large head start

² Demand figures include U.S. airlines UAL, DAL, AAL, LUV, ALK, JBLU, SAVE and ULCC based on carrier commentary, supply figure estimated based on average Airline Transport Pilot License issuance 2015-2019; ³ Sick rates reflect United frontline employee sick rates for 2H19 and 2H22



¹ Initial outlooks reflect FY22 capacity guidance from December 2021 through May 2022 in which the industry missed initial guidance by estimated ~7 pts on average;

Critical Industry Need for Pilots

- Pipeline issue that pre-dated Covid
- FAR 117 / 1,500 Hours

Critical need for 12,000 new pilots in the US by 2023.

• Global need for 34,000 new pilots by 2025

• The "Perfect Storm"



How is this being addressed?

- Regional Carriers Bonuses / Better wages
- Cadet flow-thru programs initiative by major carriers
- Partnerships with major universities aviation programs
- Flight training academies
 - United Airlines Aviate Academy



Another "Perfect Storm" brewing as well....

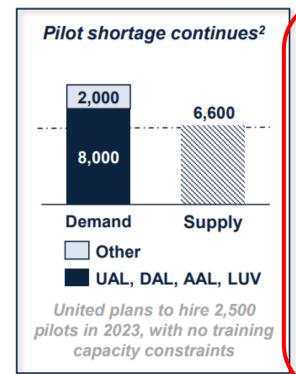
- Airline Mechanics
 - 14,400 openings per year over the decade / 192,000 between now and 2039
 - 20% currently 64 or older / 35% turnover w/i next 2-5 years

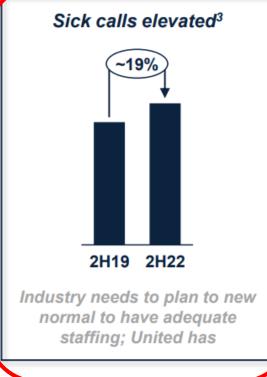




Current industry capacity outlook for 2023 is unachievable, similar to 2022¹

Multiple constraints restricting industry capacity





OEMs are behind

Airbus, Boeing Aircraft Delivery Delays Slow Airline Recovery

CFM struggles to pull Leap deliveries back on track, as supply chain woes persist

Airbus CEO says supply chain still 'very complex'

Industry experiencing OEM delivery delays; planes will be late

Many airlines and ATC have outgrown tech infrastructure

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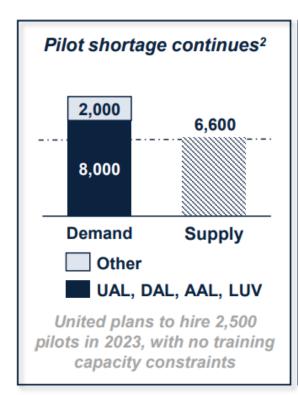
Covid wiped out 15 years of capacity growth

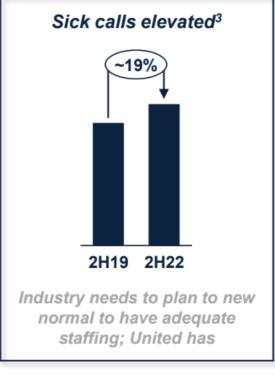
• Pre-Covid – 2,000 aircraft in storage, today close to 5,000



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OEMs are behind Airbus, Boeing Aircraft Delivery Delays Slow Airline Recovery CFM struggles to pull Leap deliveries back on track, as supply chain woes persist Airbus CEO says supply chain still 'very complex' Industry experiencing OEM delivery delays; planes will be late

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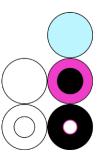
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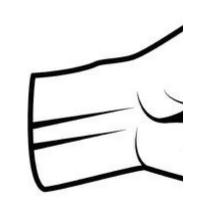
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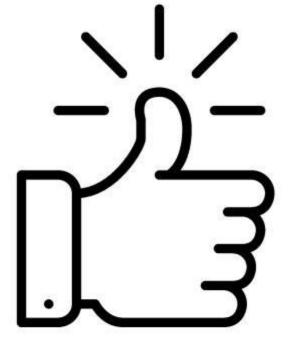
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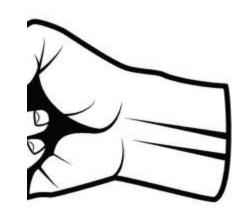
Infrastructure Issues



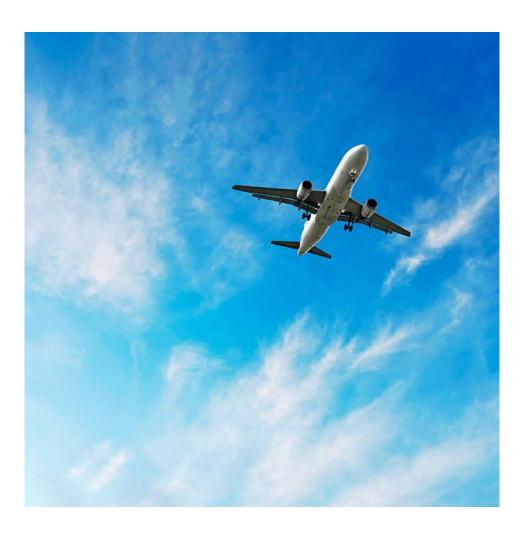




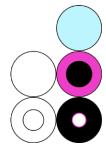




Watch This Space.....

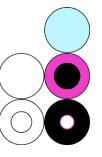


- Demand will outpace supply in the near term
- Operating costs will climb
- Periods of over-scheduling and capacity adjustments
- Operational execution will vary
- Geo-political tensions
- Congressional approval of needed technology
- Return to profitability



What Does the Future Look Like?















United Announces \$5 Million Investment in Carbon Capture Company Svante



Airline looks to turn

CO₂ removed from the
atmosphere into
sustainable aviation fuel
United has invested in
more future SAF production
than any other airline in the
world ¹

"Carbon capture technology has the potential to be a critical solution in the fight to stop climate change and has the added benefit of helping us scale the production of SAF," said United CEO Scott Kirby. "And at United we're building on that approach by investing in both companies that can capture CO₂ and others that can turn it into fuel. There's no question that this carbon utilization is in its infancy today, but as a leader in sustainable flying we must help build the foundation to deploy this technology of the future as expediently as possible. This is truly a global imperative, and United's investment in Svante reflects our dedication to making sustainable travel a reality."



United NDC



United's best content via the world's most efficient distribution systems

United Airlines Content: Our Safe Harbor Message

- United is channel agnostic
- We do not advocate or promote any one channel more than another
- We provide content through the major GDS's
- We do not provide incentives to any customer for choosing one channel over another
- Where you consume schedule, price and inventory from an airline is a business & cultural decision each customer, agency, travel management company must make on their own





Travelers expect tailored products based on their needs and wants



Loyalty cabin upgrades

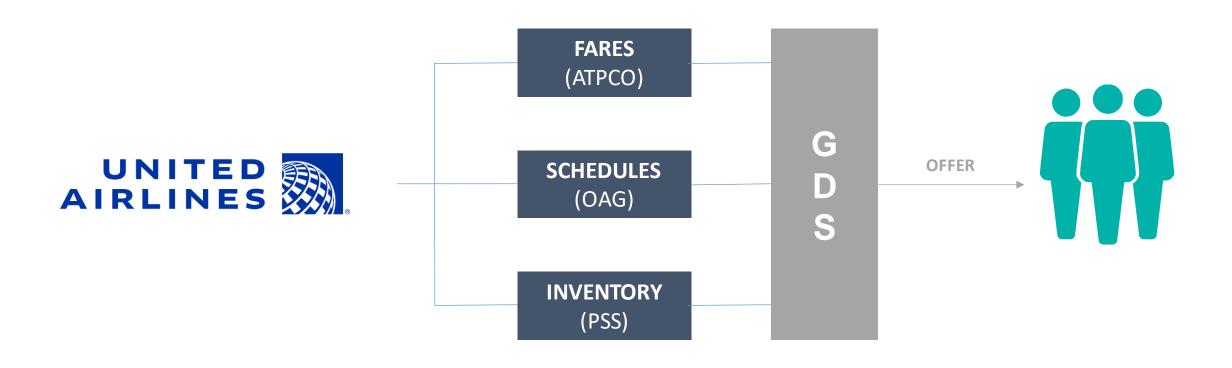


United Club access



Pre-paid checked bags

But older GDS technology limits the shopping experience and available products



NDC offers direct access to a full suite of products as well as enhanced capability



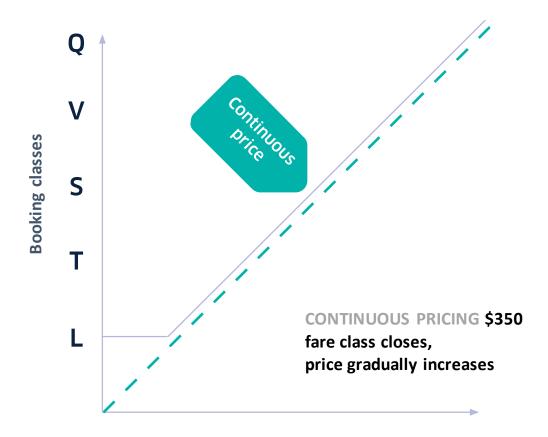
Dynamic Bundled Fares: Our portfolio

Bundle	Economy Plus	Bag	United Club	Premier Access	Miles	Priority Boarding	Wifi Day Pass
B01	•						
B02		•					
В03			•				
B04				•			
В05			•		•		
В06		•	•				
В07			•				
В08	•		•				
В09	•						
B10	•	•					
B11	•		•				
B12		•	•	•	•		
B13	•	•	•				

Continued...

Continuous Pricing: Concept

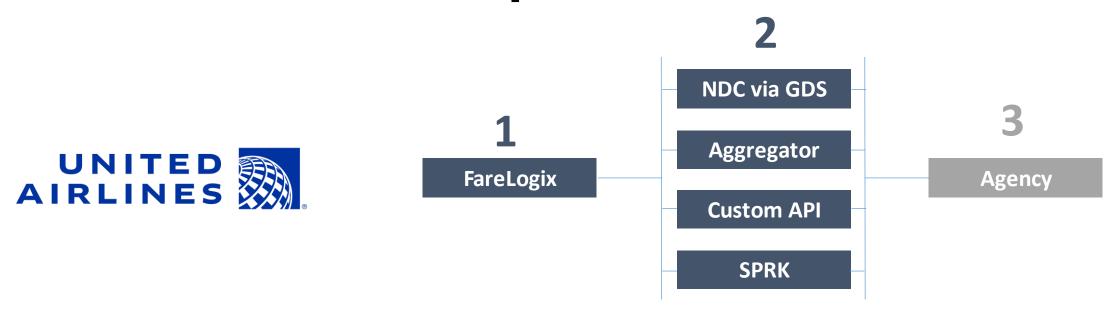




Continuous pricing: Price Point Facts

- Can only be deployed using modern technology standards
- Legacy systems require us to use fare increments that are much larger than we desire
- Fares generated using continuous pricing will often be lower than fares using legacy technology
- Continuous pricing will not be higher than any published service class fare in traditional pricing model
- Continuous pricing system effectively opens a bucket that would otherwise be closed
- Offered to the GDS, but they are unable to display like NDC
- All fare rules apply on continuous price points

NDC Connection Options



- 1. United works with **Farelogix** to enable our NDC content for agency customers
- 2. Agencies should select an **NDC connection strategy** based on their business and cultural needs
- 3. Agencies must consider an agent desktop tool to service bookings via an NDC channel

Process for connecting to NDC services

- NDC is available to agencies worldwide via direct connect, aggregator or GDS
- United's Distribution team is available to assist United Sales and agencies in the NDC journey

1. Initial NDC conversation

Agency-United conversation about United's NDC services

2. Agency registers at united.com/NDC

NDC Program agreement: register for access to the NDC development sandbox

3. Agency development

Agency connects its applications to NDC services

4. Go live!

Test implementation, get ready and go live for customers

United NDC commercial discussion





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- Q & A
- Thank You!