# **AVIATION**

**DATA & DIGITAL** 

**WEBINAR SERIES** 

# **EPISODE 3 (PLAN RECOVERY)**

**LIVE WEBINAR WILL START SHORTLY...** 

Wednesday 13 May 2020 15:30 - 17:30 CEST DATA & DIGITAL CAPABILITIES DURING CRISIS



**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 





LIVE PRESENTATION IN PROGRESS

**Houman Goudarzi** Head of BI & Industry Engagement, IATA



### **Aviation Data & Digital Webinar Series**



27 April

6 May

13 May

**20 May** 

**26 May** 

15:30 - 17:30 CEST

**EPISODE 1: ANALYZE & DECIDE** 

**DATA & ANALYTICS TO OPTIMIZE CRITICAL DECISIONS DURING CRISIS** 

**EPISODE 3: PLAN RECOVERY** 

PREDICTIVE ANALYTICS ON **PASSENGER DEMAND & BUYING BEHAVIOR DURING & AFTER THE COVID-19 CRISIS** 

**EPISODE 5: ADAPT & GROW** 

DIGITAL FACILITATING **BUSINESSES TO PIVOT TO OVERCOME CHALLENGING TIMES** 

**EPISODE 2: HELP CUSTOMERS** 

**DATA & TECHNOLOGY RELIEVING THE PAIN OF CUSTOMER SERVICE OVERLOAD DURING TIMES OF CRISIS** 

**EPISODE 4: BUILD RESILIENCE** 

**TOOLS, TECHNOLOGIES & ANALYTICS TO INCREASE RESILIENCE OF FLIGHT &** AIRCRAFT OPS PLANNING

For more information & Registration go to: iata.org/addws





#### ► AVIATION DATA & DIGITAL WEBINAR SERIES EPISODE 3 SPEAKERS





**Alberto Rey Villaverde** Chief Data Officer, JUST EAT



**Brian Pearce**Chief Economist, IATA



**Charles De Gheldere** Director Aviation Data, IATA



**Frederik van Essen**Commercial Director, Digital Ops, KLM



**Houman Goudarzi** Head of BI & Industry Engagement, IATA



Nils Gelbjerg-hansen CEO, Infare



Nina Wittkamp Associate Partner, McKinsey & Company



Olivier Jager Co-founder & CEO, ForwardKeys



Phil Callow CEO, OAG



**Sébastien Texier** CEO, winglet.io



**Sebastien Touraine** Head Dynamic Offer, IATA



**Yanik Hoyles**Director Distribution, IATA



**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 





LIVE PRESENTATION IN PROGRESS

**Keynote: Welcome and Opening** 

**Charles De Gheldere** Director Aviation Data, IATA



#### ► ANALYTICS ON DEMAND & BUYING BEHAVIOR DURING & AFTER THE COVID-19 CRISIS



Wednesday 13 May 2020 15:30 - 17:30 CEST

Webinar Synopsis: It is difficult to know when the recovery will start for airlines and the wider aviation and travel industries. Data and analytics can provide insights associated with the various scenarios, demand and buying behavior. This webinar will focus on data & technology in the context of the COVID-19 crisis.

Moderator: Houman Goudarzi, Head of BI & Industry Engagement, IATA

15:30 - 15:40	Welcome and Opening	<b>Charles De Gheldere</b> Director Aviation Data, IATA
15:40 – 16:00	Keynote: COVID-19's impact on passenger demand, scenario analysis, and the expected recovery.	<b>Brian Pearce</b> Chief Economist, IATA
16:00 – 16:20	Keynote: Insights from KLM on how to maneuver during these uncertain times  Commercial Director, Digital Operation, KLM Royal Dutch Airlines	
16:20 – 16:40	Fireside Chat: Insights from a data guru, former Head of Data Science at easyJet.  Alberto Rey Villaverde Chief Data Officer, JUST EAT	
16:40 – 17:10	Panel: Insights to track demand rebound: how to leverage various data sources (schedule, shopping/pricing, customer behavior, social media etc.) to plan	-
	recovery?	Phil Callow Nils Gelbjerg-hansen CEO, OAG CEO, Infare
	Moderator: Sebastien Touraine, Head Dynamic Offer, IATA Co-	Olivier Jager Sébastien Texier founder & CEO, ForwardKeys CEO, winglet.io
17:10 – 17:30	Keynote: Air Travel Pulse, a new tool McKinsey & IATA have developed in partnership that will provide unique insights in demand rebound.	<b>Nina Wittkamp</b> Expert Associate Partner, McKinsey & Company
		<b>Yanik Hoyles</b> Director Distribution, IATA



**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 





LIVE PRESENTATION IN PROGRESS

Keynote: COVID-19's impact on passenger demand, scenario analysis, and the expected recovery.

**Brian Pearce**Chief Economist, IATA

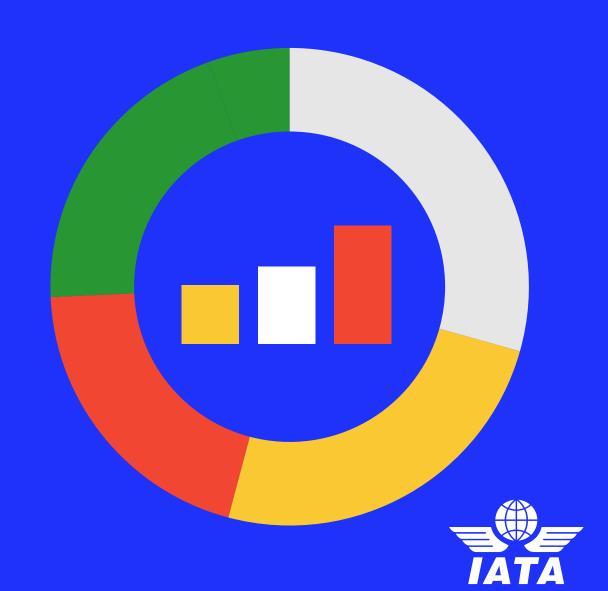


# COVID-19 Outlook for air travel in the next 5 years

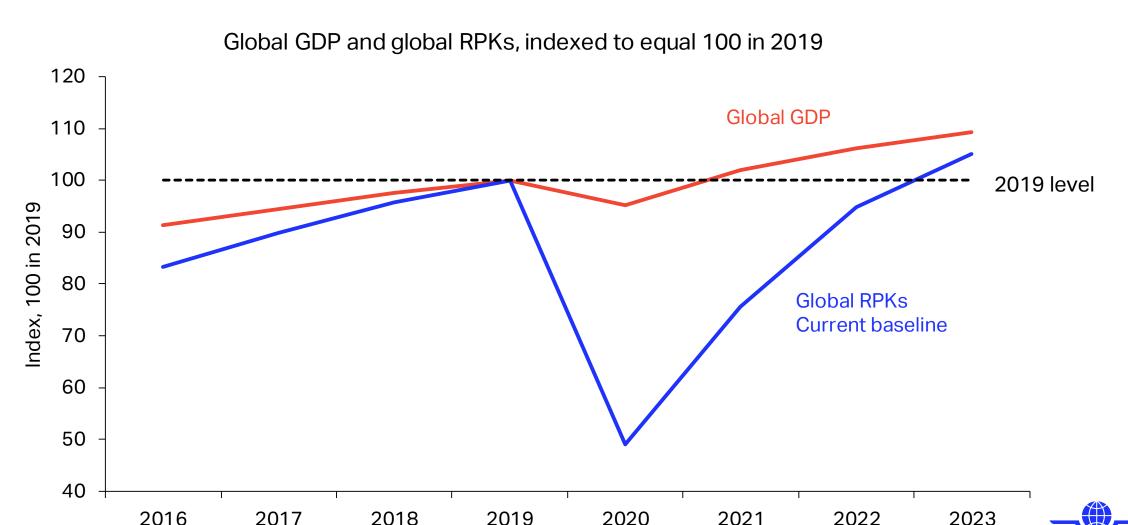
**Brian Pearce** 

**Chief Economist** 

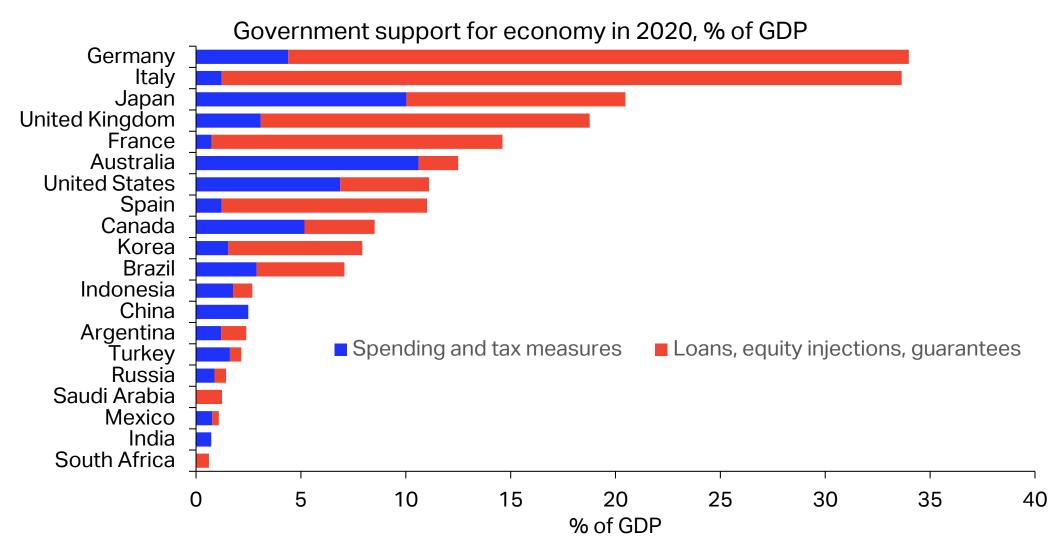
13<sup>th</sup> May 2020



# Air travel may recover more slowly than most of economy Global RPKs recover 2019 levels in 2023, 2 years behind GDP recovery

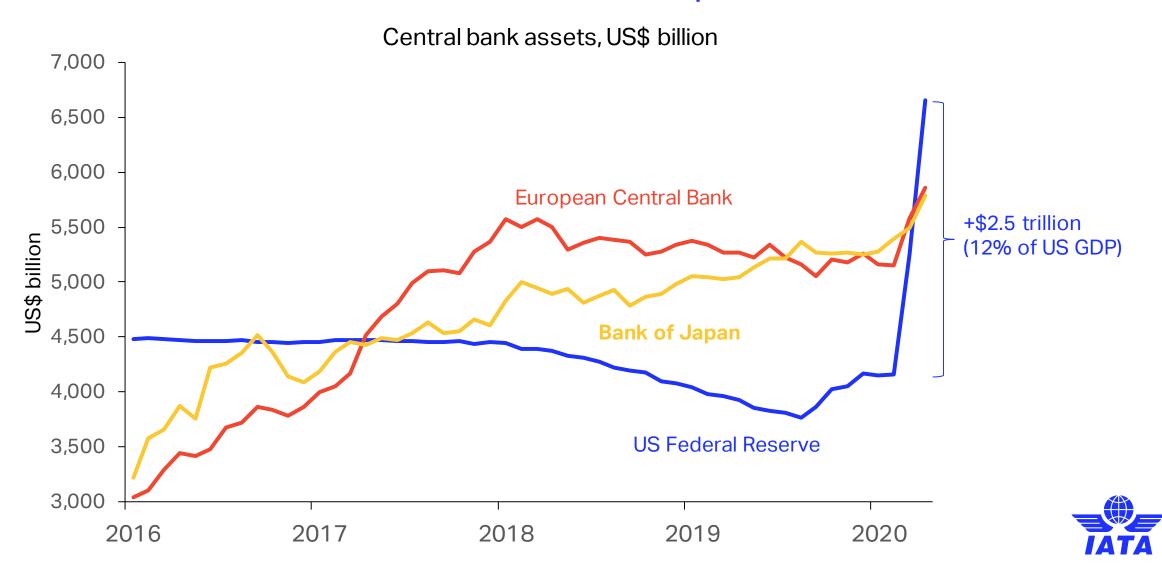


# Governments have provided unprecedented support Wage subsidies, grants and loans should allow strong GDP rebound

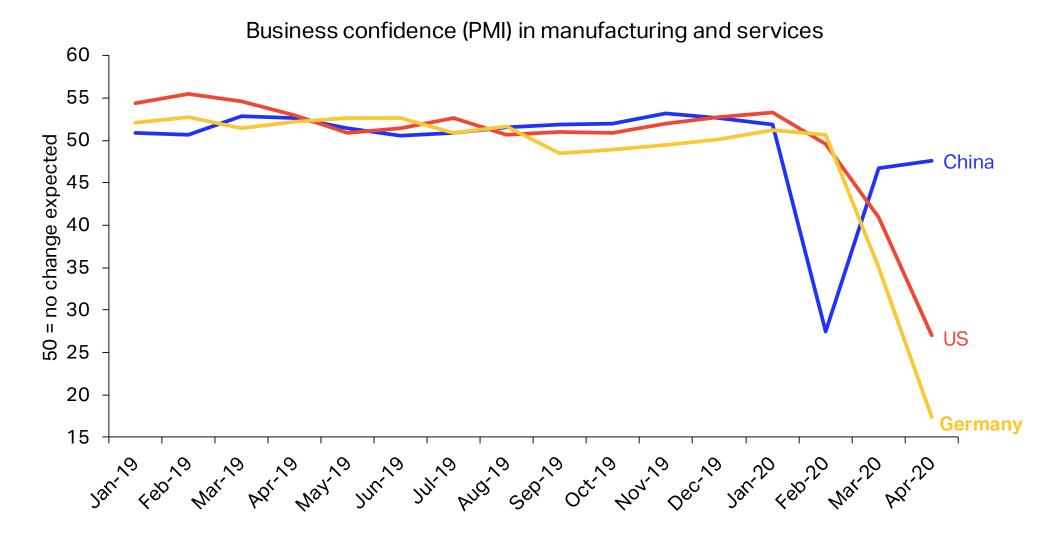




### Central banks have also injected cash into economies The US Federal Reserve has added cash equivalent to 12% of US GDP



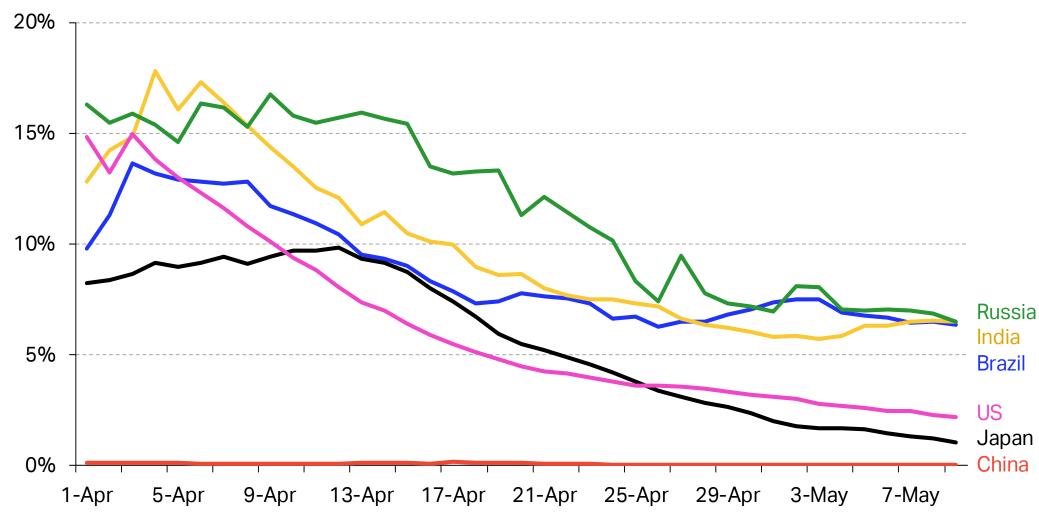
### Business confidence has rebounded in China As lock-down relaxed in China 'V-shaped' rise of business confidence





# Solving health challenge critical for international travel Until vaccine, opening borders to travel requires fall in COVID-19 risk

New COVID-19 cases, % of total cases, 7-day moving average

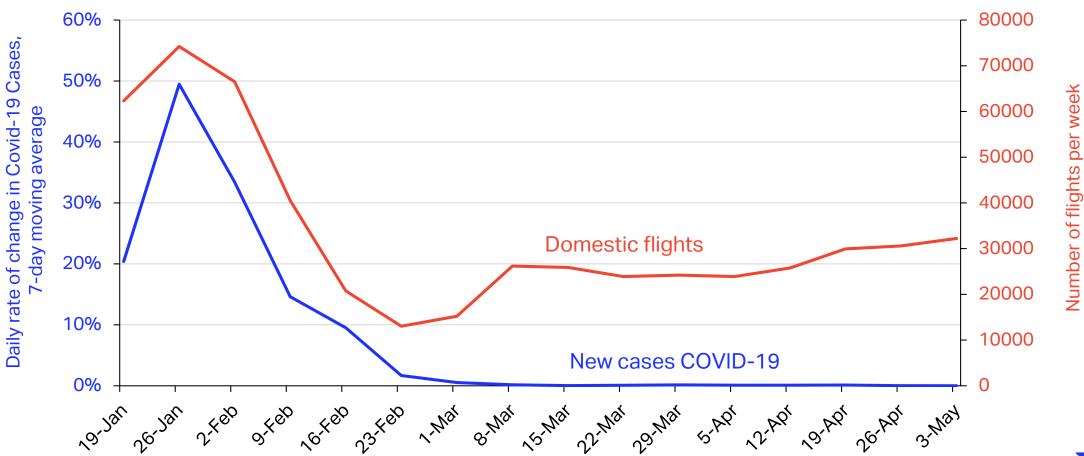




Source: IATA Economics using data from the World Health Organization (WHO)

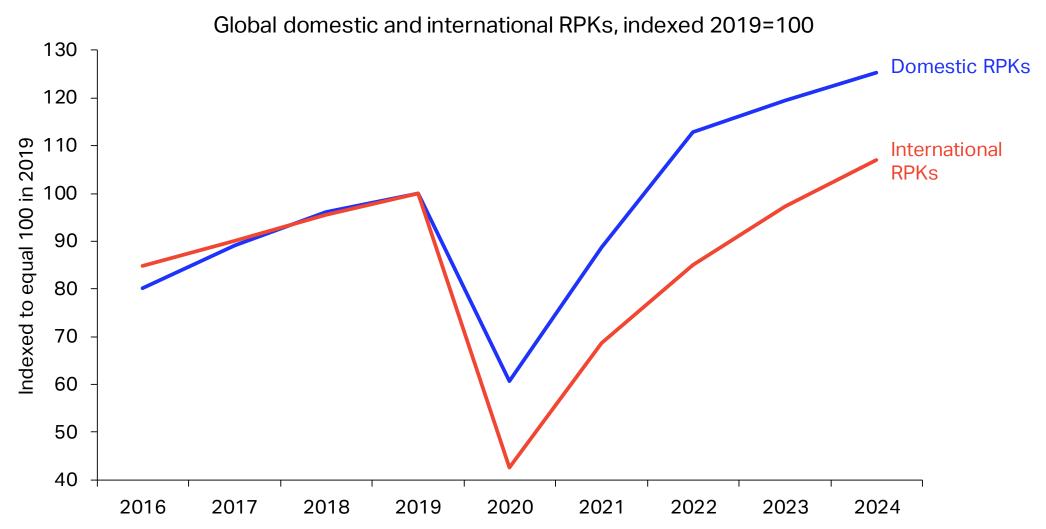
### China domestic air travel lagging business confidence Rise in flights with return to work & VFR, but discretionary travel weak

China domestic flights, COVID-19 new cases



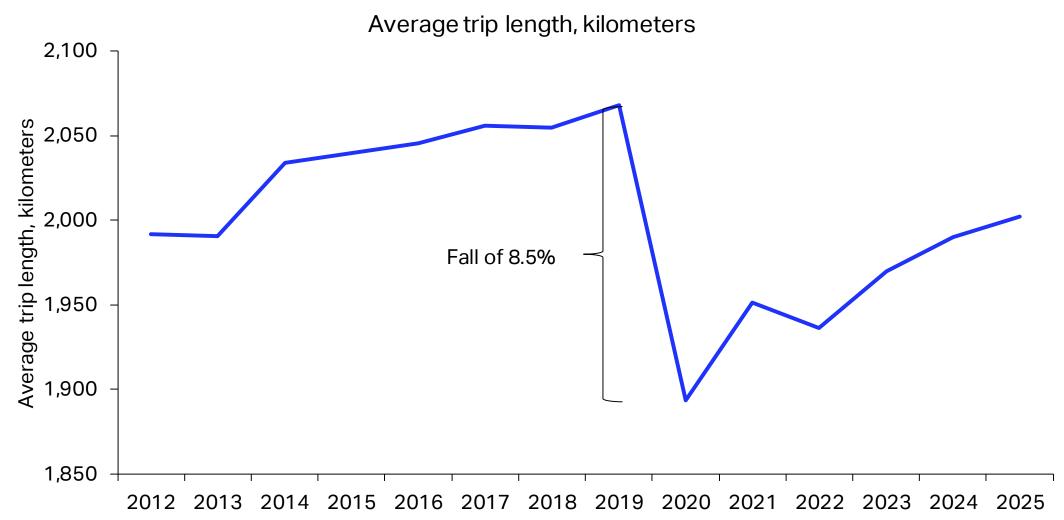


### International RPKs will lag domestic air travel markets International air travel may not recover 2019 levels until 2023-24



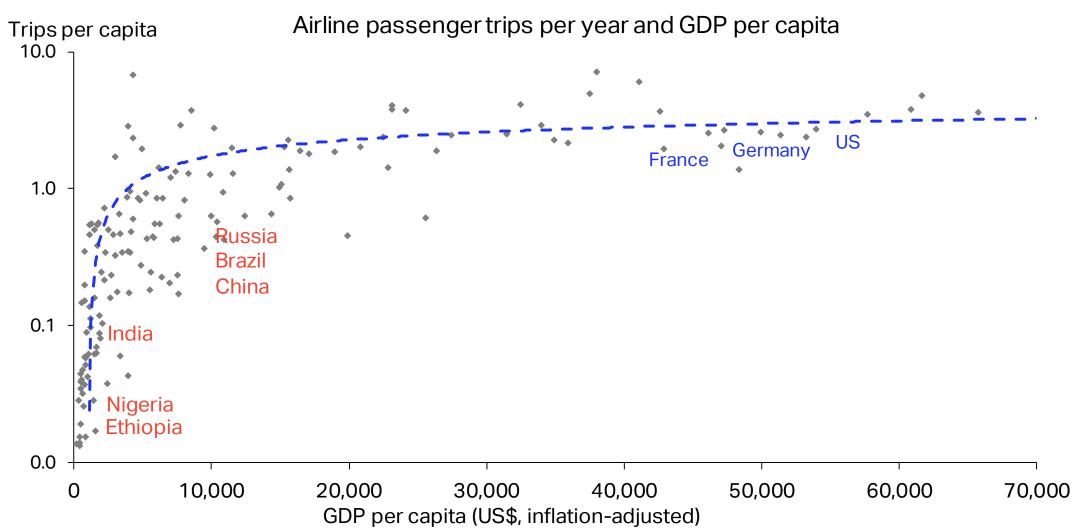


# Average trip length will fall sharply Domestic markets open first and initial preference for short-haul trips



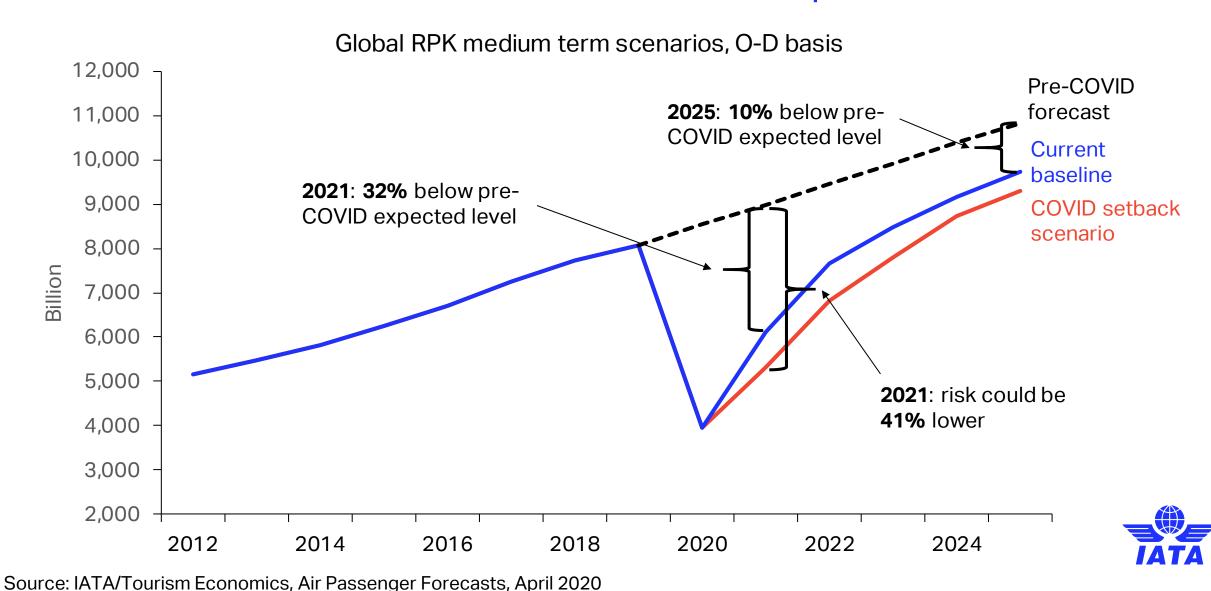


# Long-term drivers for expanded demand remain Populous emerging markets are still likely to want more air services





# Return to growth post-COVID but at a lower level Global RPKs forecast to be 32%-41% below expected levels in 2021



# Contacts

economics@iata.org www.iata.org/economics





**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 





LIVE PRESENTATION IN PROGRESS

Keynote: COVID-19's impact on passenger demand, scenario analysis, and the expected recovery.

**Brian Pearce**Chief Economist, IATA



**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 



Audience: Live Poll (Relevant Data Sources)





#### ► ANALYTICS ON DEMAND & BUYING BEHAVIOR DURING & AFTER THE COVID-19 CRISIS



Wednesday 13 May 2020 15:30 - 17:30 CEST

Webinar Synopsis: It is difficult to know when the recovery will start for airlines and the wider aviation and travel industries. Data and analytics can provide insights associated with the various scenarios, demand and buying behavior. This webinar will focus on data & technology in the context of the COVID-19 crisis.

Moderator: Houman Goudarzi, Head of BI & Industry Engagement, IATA

15:30 - 15:40	Welcome and Opening	<b>Charles De Gheldere</b> Director Aviation Data, IATA
15:40 – 16:00	Keynote: COVID-19's impact on passenger demand, scenario analysis, and the expected recovery.	<b>Brian Pearce</b> Chief Economist, IATA
16:00 – 16:20	Keynote: Insights from KLM on how to maneuver during these uncertain times  Commercial Director, Digital Operation, KLM Royal Dutch Airlines	
16:20 – 16:40	Fireside Chat: Insights from a data guru, former Head of Data Science at easyJet.  Alberto Rey Villaverde Chief Data Officer, JUST EAT	
16:40 – 17:10	Panel: Insights to track demand rebound: how to leverage various data sources (schedule, shopping/pricing, customer behavior, social media etc.) to plan	-
	recovery?	Phil Callow Nils Gelbjerg-hansen CEO, OAG CEO, Infare
	Moderator: Sebastien Touraine, Head Dynamic Offer, IATA Co-	Olivier Jager Sébastien Texier founder & CEO, ForwardKeys CEO, winglet.io
17:10 – 17:30	Keynote: Air Travel Pulse, a new tool McKinsey & IATA have developed in partnership that will provide unique insights in demand rebound.	<b>Nina Wittkamp</b> Expert Associate Partner, McKinsey & Company
		<b>Yanik Hoyles</b> Director Distribution, IATA



**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 





LIVE PRESENTATION IN PROGRESS

**Keynote:** Insights from KLM on how to maneuver during these uncertain times

**Frederik van Essen**Commercial Director, Digital Operation, KLM







### Agenda: Data & digital in post-COVID recovery





## Virus evolution & govt. response

National government action for citizens with specific impact on travel

- Virus severity and spread
- Specific travel restrictions
- Announced or expected duration of restrictions
- Conditions for reopening (for example, health screening)











## **Demand** recovery scenarios

Consumer sentiment and behavior

- Overall, by segment (business vs. leisure and short-haul vs. long-haul) and by market
- Impact of COVID-19 on megatrends, such as ways of working and sustainability
- Level of trust and safety concerns

## Market structure scenarios

Financial health of airlines at onset and actions taken to manage through the crisis (for example, liquidity management)

for airlines to influence

Level and type of financial support by governments, banks, investors

M&A, joint ventures, and partnerships

# Flight plan to emerge stronger

Design for the new normal

- Optimizing/restructuring network and fleet
- Whole-airline transformation using a zero-based approach

With vision for end state in mind, prepare for rebound

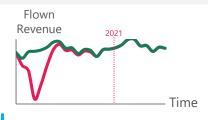
**Digital & data capabilities** 

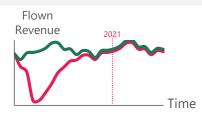


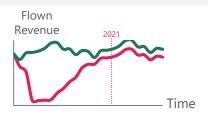


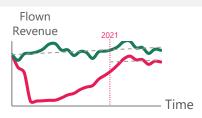
# Five possible airline demand scenarios in a highly uncertain future

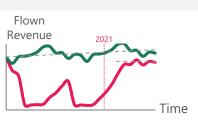
As of mid April











Scenario

#### V-shape

#### U-shape

#### Prolonged U-shape L-shape

#### W-shape

#### Likelihood

### Reduction in

rev. vs 2019

Return to 2019 level<sup>1</sup>

and spread
Government
action for

Virus severity

Consumer sentiment and behaviors

citizens

#### Very unlikely

- 2020: \$100B-\$200B
- 2021: -
- ~6 months
- Quick containment (rapid drop in new cases and deaths)
- Successful containment; relax policies and reassure public
- Leisure and business traffic bounce back quickly
- Consumer confidence recovers quickly
- No structural change to behavior

#### Very unlikely

- 2020: \$250B-\$325B
- 2021: -
- ~10-18 months
- Gradual decrease in rate of new cases and deaths
- Lockdown for ~2 months; borders gradually reopen
- Consumer confidence returns quickly
- Business and short-haul leisure travel first, followed by long-haul leisure
- Travel distributors ramp up operations

#### High likelihood

- 2020: \$325B-\$400B
- 2021: \$25B-\$75B
- ~24 months
- Slow, gradual decrease in rate of new cases and deaths
- Lockdown for several months; travel discouraged; borders reopen slowly
- Consumer confidence does return - slowly
- Businesses restrict business travel temporarily
- Economic recession
- Travel distributor failures

#### High likelihood

- 2020: \$400B-\$450B
- 2021: \$100B-\$200B
- ~48+ months
- Slow, gradual decrease in rate of new cases and deaths
- Lockdown policies in place and limitation on nonessential travel for rest of 2020
- Leisure travel reduced by fear & sustainability issues
- New ways of working persist; permanent drop in group and large meetings
- Economic depression
- Widespread failures in travel distribution

### Medium likelihood

- 2020: \$400B-\$450B
- 2021: \$200B-\$250B
- ~48+ months
- Spread of virus decreases but then rapidly increases (new strain)
- Policies relaxed then rapidly reinstated at sign of resurgence
- Confidence returns only to be hit once more, for a more prolonged period, as safety concerns persist

<sup>1.</sup> Return to 2019 level is the first month of a forwarding looking twelve month rolling window where monthly average RPKs are at or above 2019 monthly average RPKs



# Tracking selected indicators key to determine which scenario is most likely and where in the recovery we are



Key questions

How does COVID-19 evolve in hubs and outstation countries?

What are government restrictions; how and when are they softened?



COVID-19 Development (by country)

Government travel restrictions between countries



#### For both leisure & business consumers:

Are they optimistic about the current economy?

Are they interested in traveling again?

Are they planning to fly?



**Ability to Travel** 

Economic sentiment (by region)

- Consumer sentiment (by region)
  - Change vs previous survey
- vs. other categories



GDS search data (ARC & 3 Victors)

By POS/O&D

Web traffic data (by country)

- vs. other industries
- Changes vs. previous period



Transaction data (by country) (e.g. booking, refunds)

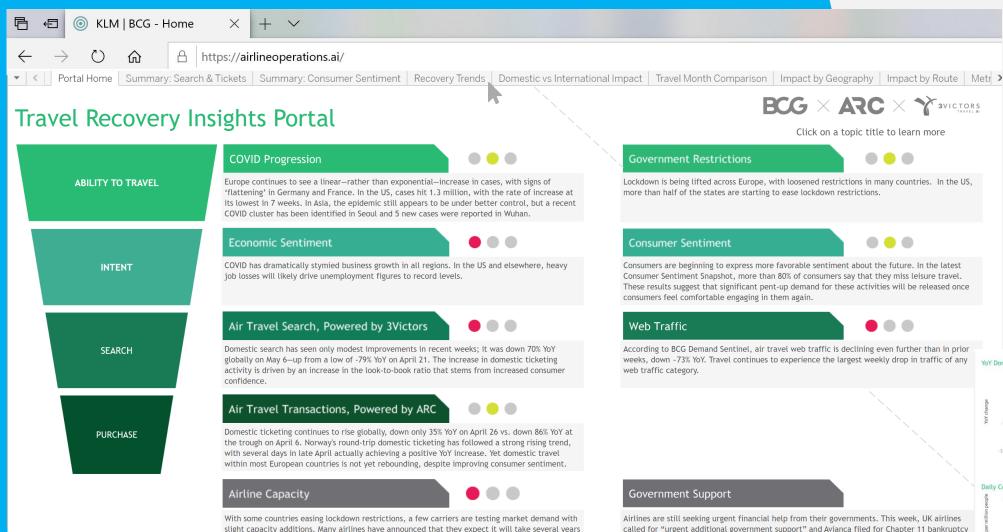
· Changes vs. previous period

#### OAG schedules

- By O&D
- Changes vs. previous period
- Impact of market structure changes

# Signals that will point to airline industry recovery: TRIP tool





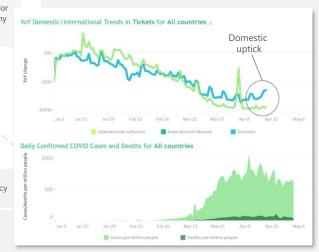
for capacity to return 2019 levels. Domestic flights currently 85% of total global capacity.

FREE link on:

AirlineOperations.ai

Click on a topic title to learn more

protection in the US to protect their essential air transport services.









# Digital & data will play a key role in the new normal enabling better, more granular, integrated decisions from planning-to-execution

#### Start with determining target size and shape

- Reset and resize Network & Fleet
  - Adjust based on expected demand recovery & sequence (business/leisure, short/longhaul) and market structure scenarios
  - Adjust fleet strategy for efficiency, e.g. less types, smaller and more efficient gauges
  - Optimize for free cash flows/ profit

#### Stimulate demand to drive top-line recovery

- Address shifting traveler needs and behaviors (e.g. health & safety and sustainability; new shopping/booking behaviors)
- Use advanced analytics to boost performance (e.g. personalization, next gen RM, marketing effectiveness)
- Revisit distribution strategy: increase focus on digital channels; re-size re-shape and re-purpose sales force
- Pursue new partnership and M&A opportunities—within the core and beyond

### Apply zero-based design for lean, flexible operations

- Design and implement "at scale" health and distancing measures in customer and employee journeys and practices
- Resize operations and fundamentally shift to more variable staff and operations, e.g. with different labor contracts
- Leverage AI and bionic opportunities to maximize resource utilization, flexibility, efficiency from planning-to-execution
- Prepare to rebound and adjust quicker than competitors; build capabilities to deal with more frequent, extreme disruptions
- Drive sustainability as a core business objective to stimulate demand and achieve competitive advantage, e.g. integrate into metrics across business

#### Implement the organization to deliver

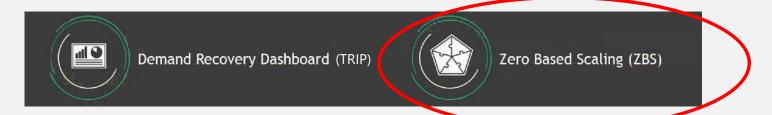
- 11 Rebuild more agile and digitally enhanced organization; e.g. cross-functional and cross-hierarchical teams, new ways of working
- 12 Embrace diversity and protect top talents, ensure to avoid "last-in first-out" as a standard mechanism to reduce workforce
- 13 Drastically reduce technology budget by radical shift to value-based technology approach incl reducing legacy IT systems, costs
- 14 Strengthen focus on free cash flow and liquidity throughout the recovery including digital procurement



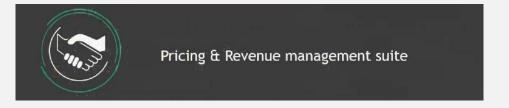


# Digital & data will play a key role in the new normal two examples

Start with determining target size and shape



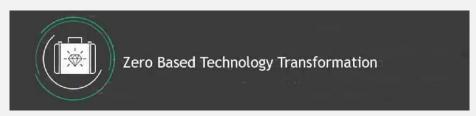
Stimulate demand to drive top-line recovery



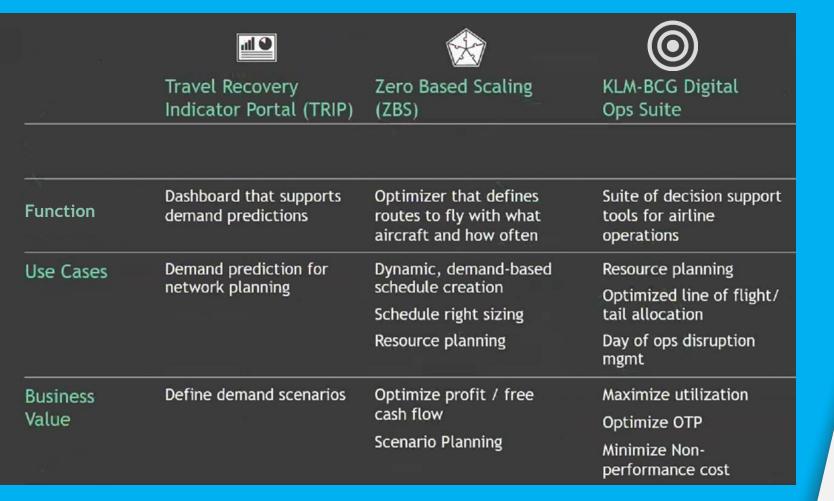
Apply zero-based design for lean, flexible ops



Implement the organization to deliver



# Prescriptive solutions go beyond predictive







Zero Based Scaling for post-COVID **rebound** 





Rapidly defines what the routes to fly, with what aircraft and how often based on constantly evolving world demand forecast aiming for optimal profitability/free cash flow

Focus on multiple months before DoO



for the new

normal



Demand forecasts to develop multiple scenario's

Assessment of schedule viability

Overview of key features/ use cases

Adjust schedule to maximize network planning and fleet management



Increased flight profitability through lower variable operating costs & higher captured revenues

Value

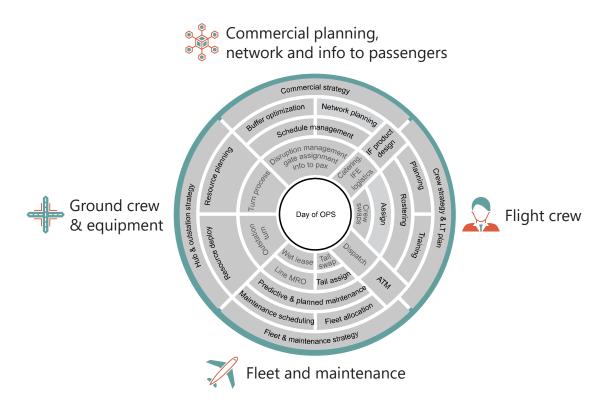
Enhanced customer benefits through avoiding schedule changes & enhanced employee benefits through assistance in scheduling process



### **Digital Operations**

### Integrated, quantified decision making across silos and planning horizons

#### WE APPLY A HOLISTIC FRAMEWORK...

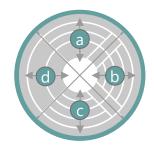


#### ... TO DRIVE INTEGRAL DECISION MAKING



Covering 3 planning cycle horizons including feedback loops between them

- 1) **Strategic:** ~12-4 months before Day of Operation
- 2) Robustness: ~3 months until day before DoO
- 3) Execution, managing disruptions: DoO

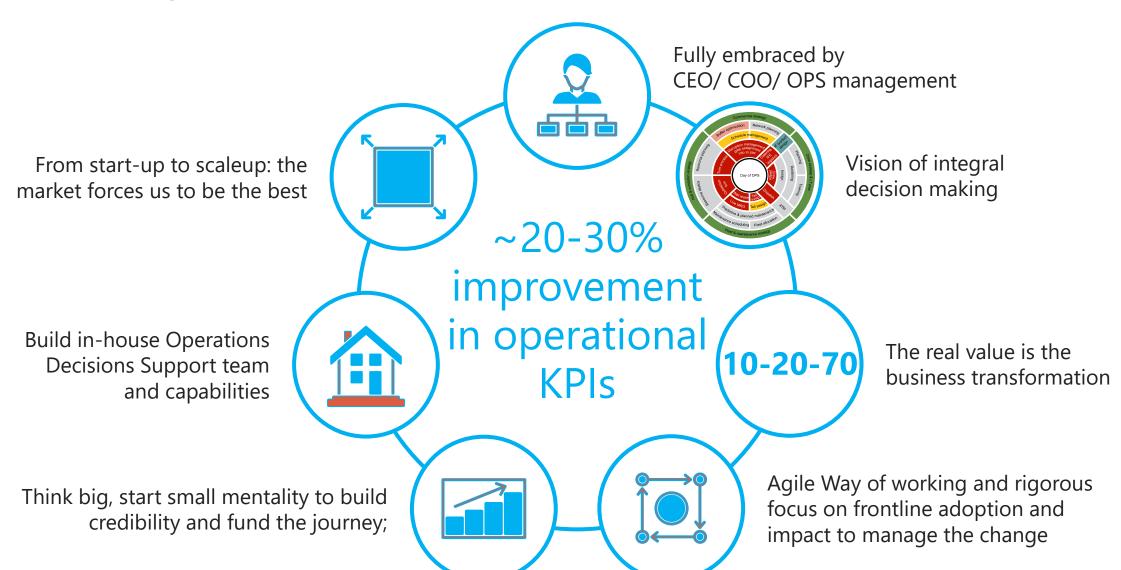


Covering all contributors needed to deliver every day, every flight

- a) Commercial planning, network and info to passengers
- b) Flight crew
- c) Fleet and maintenance
- d) Ground crew and equipment



### 's digital OPS transformation





www.airlineoperations.ai



IATA

**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 





LIVE PRESENTATION IN PROGRESS

**Keynote:** Insights from KLM on how to maneuver during these uncertain times

**Frederik van Essen**Commercial Director, Digital Operation, KLM



#### ► ANALYTICS ON DEMAND & BUYING BEHAVIOR DURING & AFTER THE COVID-19 CRISIS



Wednesday 13 May 2020 15:30 - 17:30 CEST

Webinar Synopsis: It is difficult to know when the recovery will start for airlines and the wider aviation and travel industries. Data and analytics can provide insights associated with the various scenarios, demand and buying behavior. This webinar will focus on data & technology in the context of the COVID-19 crisis.

Moderator: Houman Goudarzi, Head of BI & Industry Engagement, IATA

15:30 - 15:40	Welcome and Opening	<b>Charles De Gheldere</b> Director Aviation Data, IATA			
15:40 – 16:00	Keynote: COVID-19's impact on passenger demand, scenario analysis, and the expected recovery.	<b>Brian Pearce</b> Chief Economist, IATA			
16:00 – 16:20	Keynote: Insights from KLM on how to maneuver during these uncertain times  Commercial Director, Digital Operation, KLM Royal Dutch A				
16:20 – 16:40	Fireside Chat: Insights from a data guru, former Head of Data Science at easyJet.  Alberto Rey Villave Chief Data Officer, JUST				
	Panel: Insights to track demand rebound: how to leverage various data sources (schedule, shopping/pricing, customer behavior, social media etc.) to plan	<b>Nina Wittkamp</b> Expert Associate Partner, McKinsey & Company			
16:40 – 17:10	recovery?	<b>Phil Callow</b> CEO, OAG  Nils Gelbjerg-hansen CEO, Infare			
	Moderator: Sebastien Touraine, Head Dynamic Offer, IATA Co-	Olivier Jager Sébastien Texier founder & CEO, ForwardKeys CEO, winglet.io			
17:10 – 17:30	Keynote: Air Travel Pulse, a new tool McKinsey & IATA have developed in partnership that will provide unique insights in demand rebound.	<b>Nina Wittkamp</b> Expert Associate Partner, McKinsey & Company			
		<b>Yanik Hoyles</b> Director Distribution, IATA			



IATA

**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 

• LIVE PRESENTATION IN PROGRESS

Fireside Chat: Insights from a data guru, former Head of Data Science at easyJet.







Alberto Rey Villaverde Chief Data Officer, JUST EAT

Houman Goudarzi Head of BI & Industry Engagement, IATA



#### ► ANALYTICS ON DEMAND & BUYING BEHAVIOR DURING & AFTER THE COVID-19 CRISIS



Wednesday 13 May 2020 15:30 - 17:30 CEST

Webinar Synopsis: It is difficult to know when the recovery will start for airlines and the wider aviation and travel industries. Data and analytics can provide insights associated with the various scenarios, demand and buying behavior. This webinar will focus on data & technology in the context of the COVID-19 crisis.

Moderator: Houman Goudarzi, Head of BI & Industry Engagement, IATA

15:30 - 15:40	Welcome and Opening	<b>Charles De Gheldere</b> Director Aviation Data, IATA			
15:40 – 16:00	Keynote: COVID-19's impact on passenger demand, scenario analysis, and the expected recovery.	<b>Brian Pearce</b> Chief Economist, IATA			
16:00 – 16:20	Keynote: Insights from KLM on how to maneuver during these uncertain times  Commercial Director, Digital Operation, KLM Royal Dutch A				
16:20 – 16:40	Fireside Chat: Insights from a data guru, former Head of Data Science at easyJet.  Alberto Rey Villave Chief Data Officer, JUST				
	Panel: Insights to track demand rebound: how to leverage various data sources (schedule, shopping/pricing, customer behavior, social media etc.) to plan	<b>Nina Wittkamp</b> Expert Associate Partner, McKinsey & Company			
16:40 – 17:10	recovery?	<b>Phil Callow</b> CEO, OAG  Nils Gelbjerg-hansen CEO, Infare			
	Moderator: Sebastien Touraine, Head Dynamic Offer, IATA Co-	Olivier Jager Sébastien Texier founder & CEO, ForwardKeys CEO, winglet.io			
17:10 – 17:30	Keynote: Air Travel Pulse, a new tool McKinsey & IATA have developed in partnership that will provide unique insights in demand rebound.	<b>Nina Wittkamp</b> Expert Associate Partner, McKinsey & Company			
		<b>Yanik Hoyles</b> Director Distribution, IATA			





EPISODE 3 (Plan Recovery)





**Sébastien Touraine**Head Dynamic Offer, IATA
(Moderator)



Phil Callow CEO, OAG



Nina Wittkamp Expert Associate Partner, McKinsey & Company



Olivier Jager Co-founder & CEO, ForwardKeys

#### LIVE PANEL IN PROGRESS

Panel: Insights to track demand rebound: how to leverage various data sources (schedule, shopping, pricing, customer behavior, social media etc.) to plan recovery?



Nils Gelbjerg-hansen CEO, Infare



**Sébastien Texier** CEO, winglet.io





# OAG CHANGING SCHEDULES IN A COVID-19 WORLD





- The pace of change in capacity has never been more dramatic.
- → To date, 489,000 flights scheduled to operate in January have been dropped by airlines.
- Some 76.5 million seats that were to have been operated since January have been dropped.
- We've tracked everyone of those schedule changes, capacity changes, timing changes and distributed them around the globe.

	"Then" (20 <sup>th</sup> January)	"Now" (11 <sup>th</sup> May)	
Weekly Capacity	106.4m	29.8m	
Weekly Flights	712,871	226,005	
Number of Airlines Flying	709	537	
Number of Airport Pairs	47,756	25,237	

Schedule Files Deleted	2019	2020	% Change	Source: OAG Schedules Analyser
January	193,534	208,293	7.6%	
February	202,250	324,133	60.2%	
March	214,801	849,362	395%	
April	223,544	750,521	335%	

Source: OAG Schedules Analyser



### NO TWO AIRLINES ACT AT THE SAME TIME....

Many of the major global airlines file schedule changes everyday, some on multiple occasions.

And every airline has a different way in handling schedule changes.

- Some want their flights removed straight away
- Some want to re-protect passengers first
- Some want to continue showing the flight but close out sales via the GDS's
- Some want to wait until their codeshare partners services are aligned
- Some want to make adjustments well in advance
- Some want to make adjustments at the very last minute in case sudden demand occurs

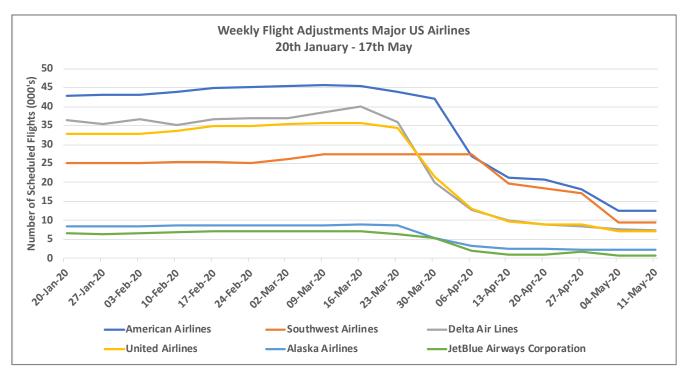
Last Saturday **Delta Air Lines** made some **89,000** schedule changes in one filing submitted to OAG

Diving into the COVID-19 event has seen huge with unprecedented levels of schedule change.

Coming back out we expect to see even more changes as airlines seek a way forward.

### OAG

### A US MARKET EXAMPLE....



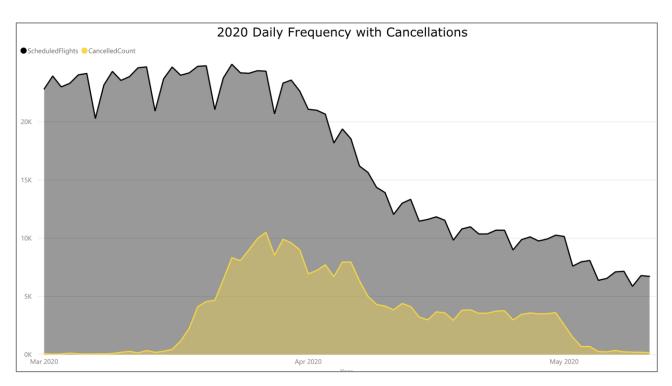
- DL & UA started adjusting schedules on the 23<sup>rd</sup> March.
- AA on the 30<sup>th</sup> March
- WN on the 6<sup>th</sup> April
- Every major US carrier has made multiple changes to their schedules in the last eight weeks as they work through what's happening.

Source: OAG Schedules Analyser

But schedule changes only tell half of the story.

## DRAMATIC CANCELLATION SPIKE ACROSS US DOMESTIC **OAG** NETWORKS

- Cancellation rates reached 40% in late March as airlines grappled with schedule changes, network adjustments and falling demand.
- Only in the last week have we seen cancellation rates back at near normal levels.
- We could see similar rates of cancellations if too much capacity is added back too quickly such is the careful balancing required in the next few months.



Source: OAG Schedules Analyser



EPISODE 3 (Plan Recovery)





**Sébastien Touraine**Head Dynamic Offer, IATA
(Moderator)



Phil Callow CEO, OAG



Nina Wittkamp Expert Associate Partner, McKinsey & Company



Olivier Jager Co-founder & CEO, ForwardKeys

#### LIVE PANEL IN PROGRESS

Panel: Insights to track demand rebound: how to leverage various data sources (schedule, shopping, pricing, customer behavior, social media etc.) to plan recovery?



Nils Gelbjerg-hansen CEO, Infare



**Sébastien Texier** CEO, winglet.io



#### ► ANALYTICS ON DEMAND & BUYING BEHAVIOR DURING & AFTER THE COVID-19 CRISIS



Wednesday 13 May 2020 15:30 - 17:30 CEST

Webinar Synopsis: It is difficult to know when the recovery will start for airlines and the wider aviation and travel industries. Data and analytics can provide insights associated with the various scenarios, demand and buying behavior. This webinar will focus on data & technology in the context of the COVID-19 crisis.

Moderator: Houman Goudarzi, Head of BI & Industry Engagement, IATA

15:30 - 15:40	Welcome and Opening	<b>Charles De Gheldere</b> Director Aviation Data, IATA			
15:40 – 16:00	Keynote: COVID-19's impact on passenger demand, scenario analysis, and the expected recovery.	<b>Brian Pearce</b> Chief Economist, IATA			
16:00 – 16:20	Keynote: Insights from KLM on how to maneuver during these uncertain times  Commercial Director, Digital Operation, KLM Royal Dutch A				
16:20 – 16:40	Fireside Chat: Insights from a data guru, former Head of Data Science at easyJet.  Alberto Rey Villave Chief Data Officer, JUST				
	Panel: Insights to track demand rebound: how to leverage various data sources (schedule, shopping/pricing, customer behavior, social media etc.) to plan	<b>Nina Wittkamp</b> Expert Associate Partner, McKinsey & Company			
16:40 – 17:10	recovery?	<b>Phil Callow</b> CEO, OAG  Nils Gelbjerg-hansen CEO, Infare			
	Moderator: Sebastien Touraine, Head Dynamic Offer, IATA Co-	Olivier Jager Sébastien Texier founder & CEO, ForwardKeys CEO, winglet.io			
17:10 – 17:30	Keynote: Air Travel Pulse, a new tool McKinsey & IATA have developed in partnership that will provide unique insights in demand rebound.	<b>Nina Wittkamp</b> Expert Associate Partner, McKinsey & Company			
		<b>Yanik Hoyles</b> Director Distribution, IATA			



IATA

**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 







• LIVE PRESENTATION IN PROGRESS

Keynote: Air Travel Pulse, a new tool McKinsey & IATA have developed in partnership that will provide unique insights in demand rebound.

Nina Wittkamp
Expert Associate Partner, McKinsey & Company
Yanik Hoyles
Director Distribution, IATA



## Air Travel Pulse includes a selection of leading indicators for air travel demand rebound

### **Dashboard** description

#### **Summary: Recovery Scorecard**

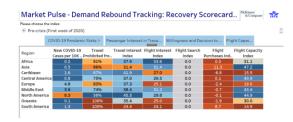
Overview of leading indicators, demand and capacity trends

### Sample questions addressed by page

Where do we see early signals for changes in air travel demand?

Which regions/ countries should be positioning themselves for an increase in capacity?

How is consumer sentiment, search and booking behavior changing by country?



#### Sentiment and Web Analytics dashboard

View of COVID-19 developments and travel interest using Google search trends as a proxy

Where along the COVID-19 curve is a certain region/ country standing on?

How much have travel-related Google searches increased/ decreased over time?

What travel search terms are people looking for (hotel, car rental, etc.)?



#### Search and booking trends dashboard

Searches and bookings by country/ region and their corresponding trends

Which countries/ regions are seeing the greatest demand in searches?

Are people booking domestic or international travel?

What kind of travel are people searching for/booking (one-way, weekend, etc.)?



#### Air travel capacity dashboard

Comparison of current air travel demand and supply

How much has capacity been cut across different countries/ regions?

How have countries/ regions adjusted their capacity relative to shifts in demand?

Is there high/ low saturation in a particular market?





## Recovery scorecard captures selected leading indicators along the demand funnel

Please choose the index:

Pre-crisis (First week of 2020)

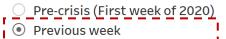
) Previous week

	COVID-19 Pandemic State >		Passenger Interest in Travel >		Willingness and Decision to Travel >		Flight Capacity >
Region	New COVID-19 Cases per 10K People (Last Week Avg)	Travel Prohibited from x% of Countries	Travel Interest Index	Flight Interest Index	Flight Search Index	Flight Purchases Index	Flight Capacity Index
Africa	0,2	81%	37,9	33,6		0,0	31,1
Asia	0,5	86%	31,4	31,4		11,3	47,2
Caribbean	1,6	67%	41,9	27,0		-6,8	15,5
<b>Central America</b>	0,8	75%	37,0	29,5		0,1	40,9
Europe	4,8	83%	37,3	25,1	Coming soon	-2,4	19,0
Middle East	3,6	74%	38,4	31,2		-0,7	43,4
North America	8,3	56%	45,3	29,8		-0,1	44,9
Oceania	0,1	100%	35,4	25,0		-1,9	30,0
South America	1,3	100%	24,4	24,1		8,7	14,9



## Recovery scorecard captures selected leading indicators along the demand funnel

Please choose the index:



	COVID-19 Pandemic State >		Passenger Interest in Travel >		Willingness and Decision to Travel >		Flight Capacity >
Region	New COVID-19 Cases per 10K People (Last Week Avg)	Travel Prohibited from x% of Countries	Travel Interest Index	Flight Interest Index	Flight Search Index	Flight Purchases Index	Flight Capacity Index
Africa	0,2	81%	113,0	111,8		-124,2	98,3
Asia	0,5	86%	81,9	107,5		8,5	105,3
Caribbean	1,6	67%	127,2	101,2		72,6	53,9
<b>Central America</b>	0,8	75%	88,2	70,5	Coming soon	159,5	72,2
Europe	4,8	83%	104,5	102,0		-166,6	78,5
Middle East	3,6	74%	107,6	126,4		-18,6	98,0
North America	8,3	56%	99,7	101,5		84,6	79,3
Oceania	0,1	100%	97,8	84,6		-327,3	66,2
South America	1,3	100%	104,9	98,7		85,2	70,9



### Europe is interesting since summer holiday destinations get ready for inbound tourism

Market Pulse - Demand Rebound Tracking Model: Sentiment Analysis (Powered by: Google, IATA, JHU)

McKinsey & Company

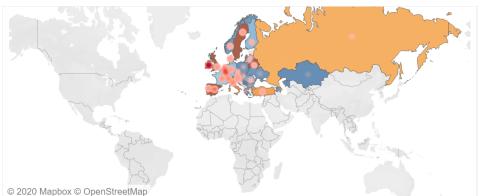
Air Travel Composite Score



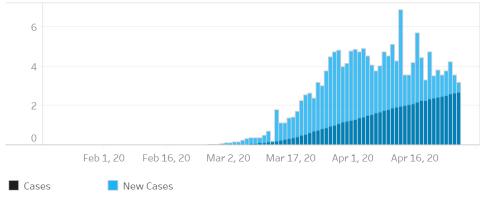
Region

Middle E..

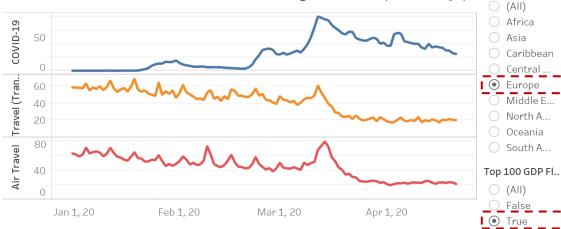
State of the Pandemic: New Cases per 100K persons vs. Total Cases 10K persons (Source: JHU)



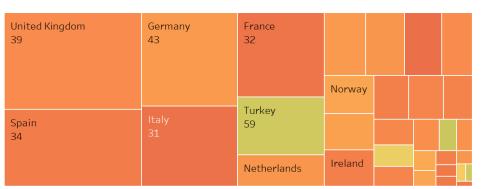
Phase of the Pandemic: (Total) Cases per 10K vs. (Daily) New Cases per 100K (Source: JHU)



Public Sentiment: COVID-19 vs. Travel and Changes in Trends (Source: Google)



Travel Demand Rebound Signal: Opportunities for Demand Rebound Based on Sentiments and Flown Passengers (Source: IATA, Google)





SOURCE: Air Travel Pulse by IATA and McKinsey & Company

# Europe is interesting since summer holiday destinations get ready for inbound tourism

Market Pulse - Demand Rebound Tracking Model: Sentiment Analysis (Powered by: Google, IATA, JHU)

McKinsey & Company

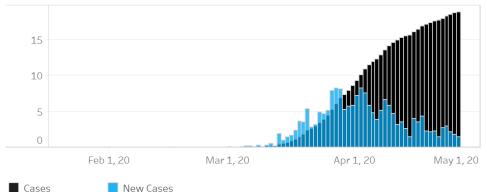


Region

**State of the Pandemic:** New Cases per 100K persons vs. Total Cases 10K persons (Source: JHU)



Phase of the Pandemic: (Total) Cases per 10K vs. (Daily) New Cases per 100K (Source: JHU)



**Public Sentiment:** COVID-19 vs. Travel and Changes in Trends (Source: Google)



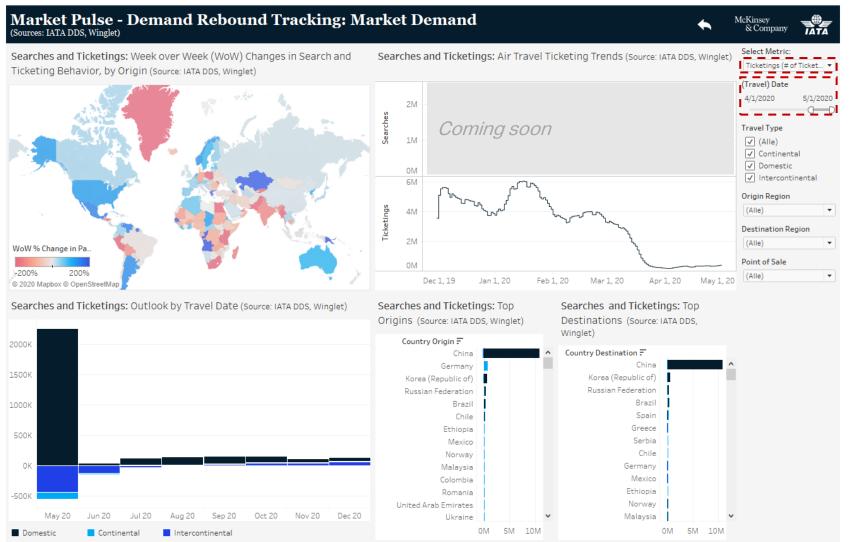
Travel Demand Rebound Signal: Opportunities for Demand Rebound Based on Sentiments and Flown Passengers (Source: IATA, Google)





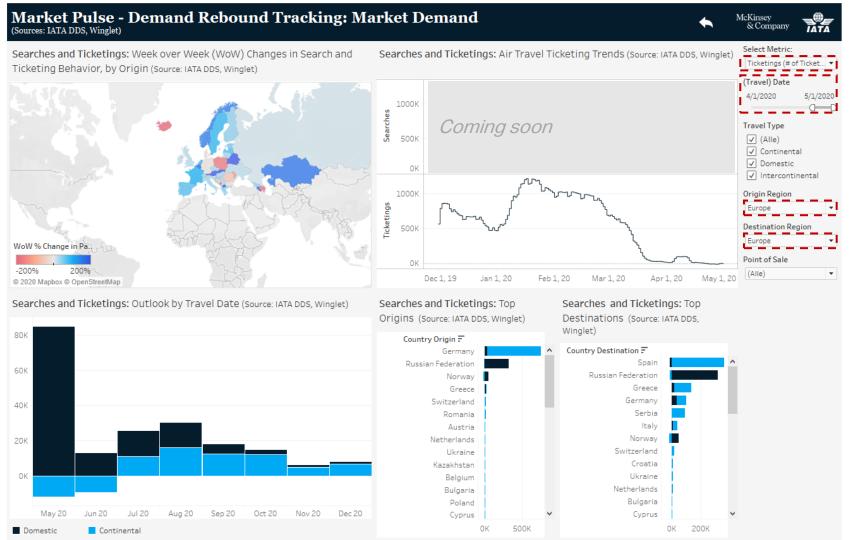
SOURCE: Air Travel Pulse by IATA and McKinsey & Company

## In the short-term, we observe a high number of cancellations of cross-border flights



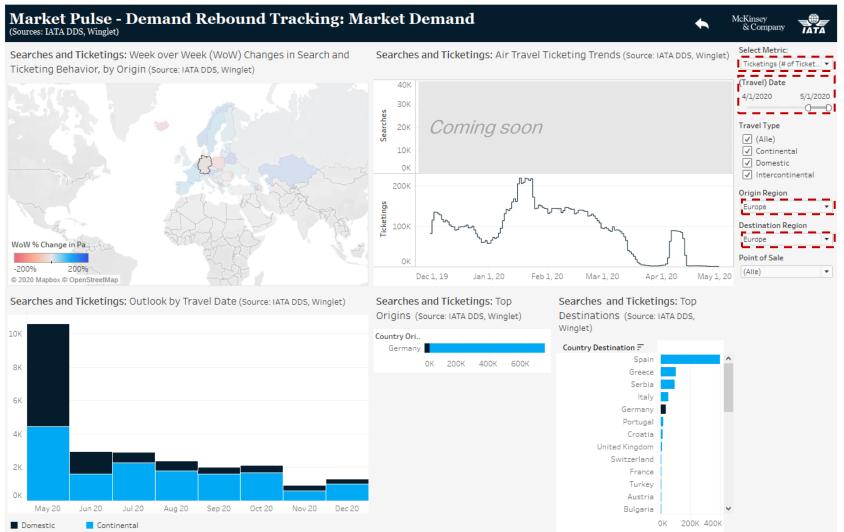


# Bookings in Europe start to pick up slightly for travel during summer holiday season



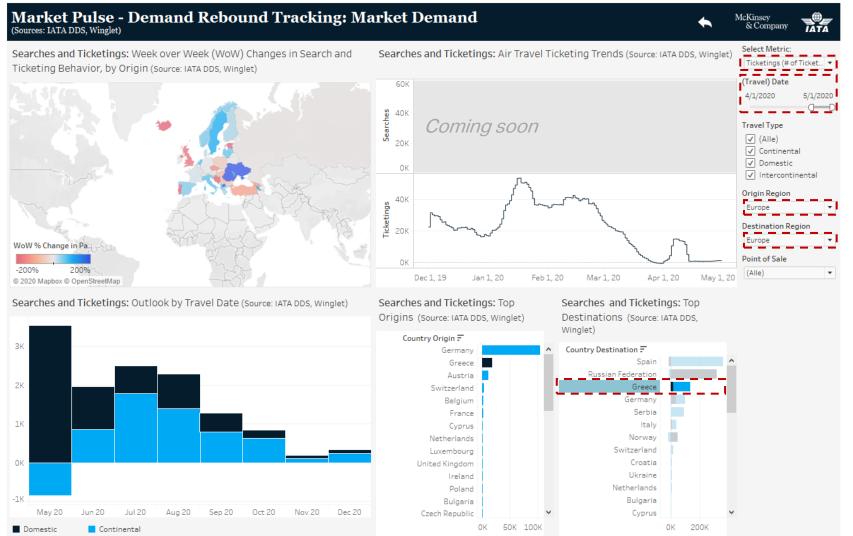


# Bookings in Europe start to pick up slightly for travel during summer holiday season





# Bookings in Europe start to pick up slightly for travel during summer holiday season





## Sign up to our publications



www.iata.org/optin

...and subscribe to the **HUB** newsletter



IATA

**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 







• LIVE PRESENTATION IN PROGRESS

Keynote: Air Travel Pulse, a new tool McKinsey & IATA have developed in partnership that will provide unique insights in demand rebound.

Nina Wittkamp
Expert Associate Partner, McKinsey & Company
Yanik Hoyles
Director Distribution, IATA



IATA

**AVIATION** 

**DATA & DIGITAL** 

**WEBINAR SERIES** 

**EPISODE 3 (PLAN RECOVERY)** 



Audience: Live Poll (Demand in 2021)





### **Aviation Data & Digital Webinar Series**



27 April

6 May

13 May

**20 May** 

**26 May** 

15:30 - 17:30 CEST

**EPISODE 1: ANALYZE & DECIDE** 

**DATA & ANALYTICS TO OPTIMIZE CRITICAL DECISIONS DURING CRISIS** 

**EPISODE 3: PLAN RECOVERY** 

PREDICTIVE ANALYTICS ON **PASSENGER DEMAND & BUYING BEHAVIOR DURING & AFTER THE COVID-19 CRISIS** 

**EPISODE 5: ADAPT & GROW** 

DIGITAL FACILITATING **BUSINESSES TO PIVOT TO OVERCOME CHALLENGING TIMES** 

**EPISODE 2: HELP CUSTOMERS** 

**DATA & TECHNOLOGY RELIEVING THE PAIN OF CUSTOMER SERVICE OVERLOAD DURING TIMES OF CRISIS** 

**EPISODE 4: BUILD RESILIENCE** 

**TOOLS, TECHNOLOGIES & ANALYTICS TO INCREASE RESILIENCE OF FLIGHT &** AIRCRAFT OPS PLANNING

For more information & Registration go to: iata.org/addws







Thank you, and see you soon!

