IATA INNOVATION DAY

Geneva, Switzerland 28 June 2023







IATA INNOVATION DAY

Geneva, Switzerland 31 May 2023

Welcome Remarks

Muhammad Albakri

Senior Vice President, Financial Settlement and Distribution Services, IATA





Geneva, Switzerland 28 June 2023

Legal Briefing

Daniel Kanter Assistant Director Legal Services, IATA





Geneva, Switzerland 28 June 2023

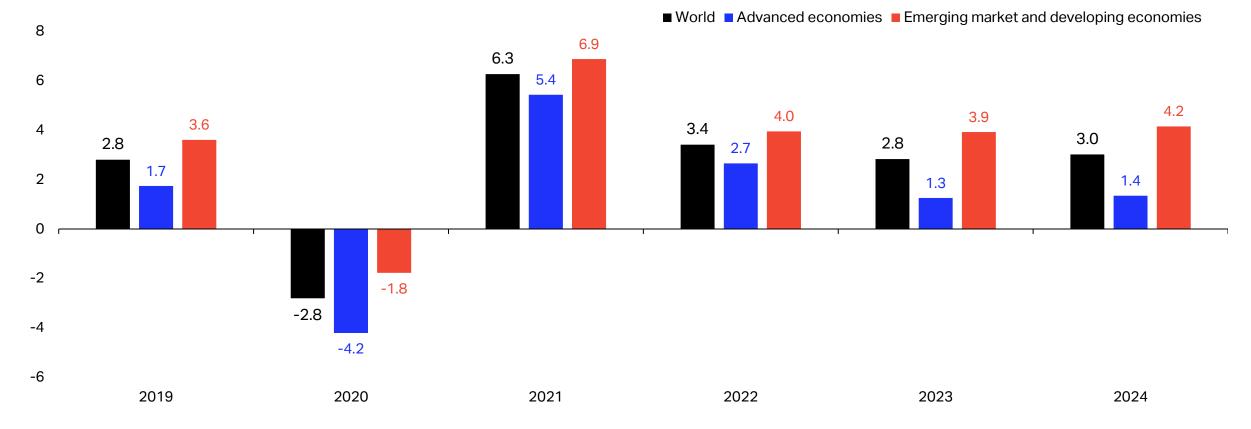
What does the Future Hold?

Bojun Wang

Economist IATA Sustainability & Economics



Global GDP growth slows to 2.8% in 2023 Advanced economies to slow down further, from 2.7% in 2022 to 1.3%



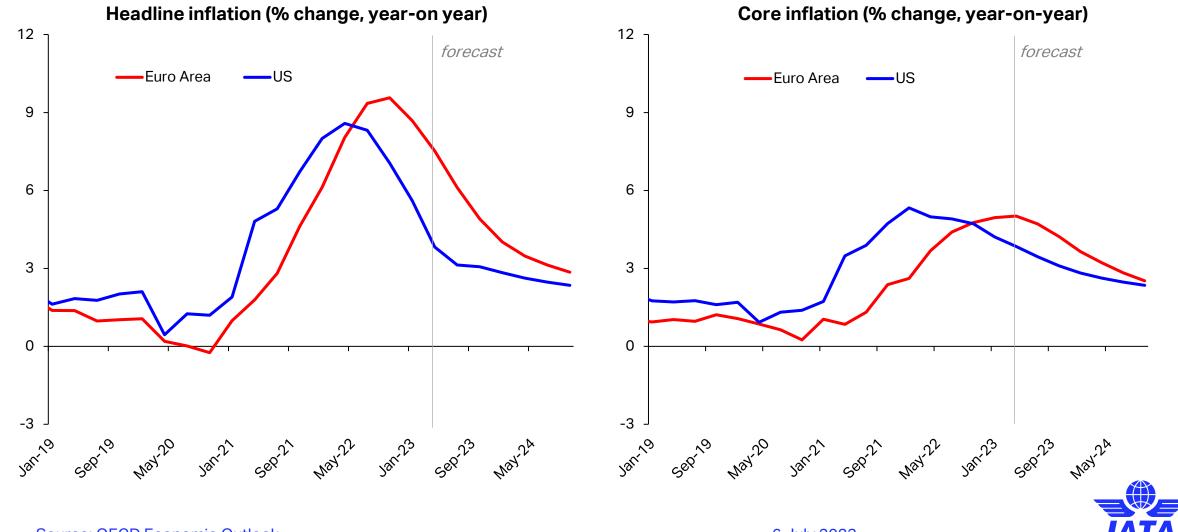
Real GDP growth (% change, year-on-year)



5 Source: International Monetary Fund, World Economic Outlook, April 2023

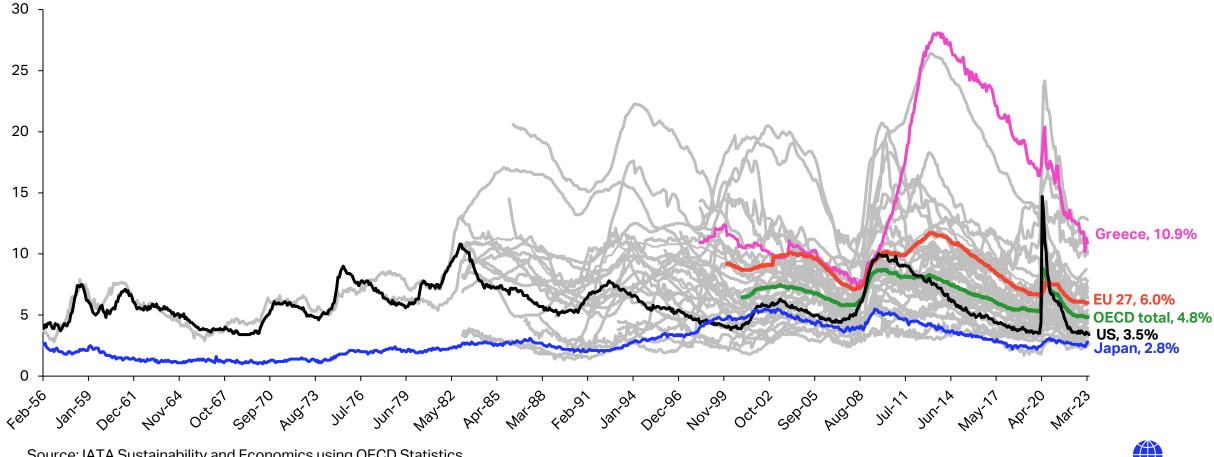
6 July 2023

Headline inflation likely peaked in 2022



Labor markets remain tight With the unemployment rate at historic lows

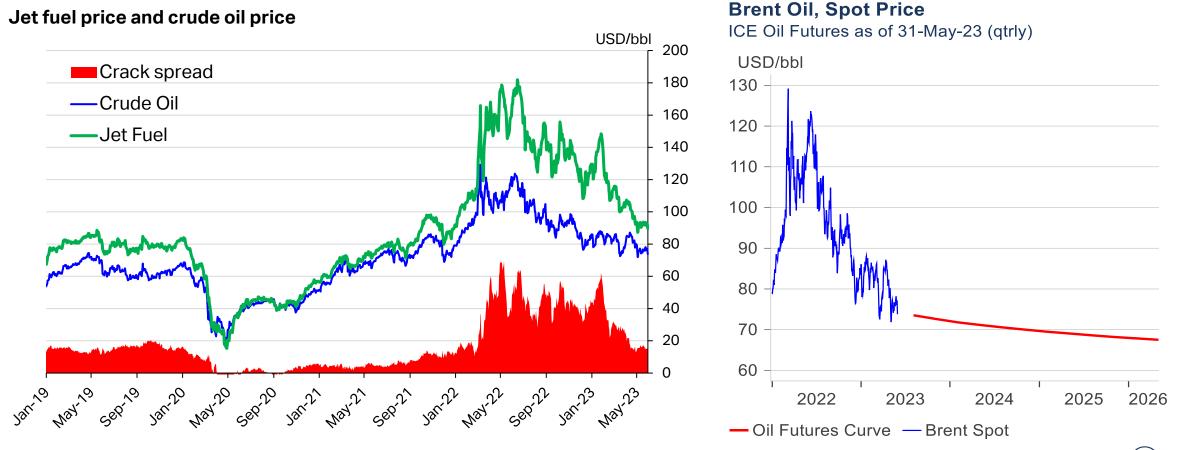
Unemployment rate, % share of labor force





Source: IATA Sustainability and Economics using OECD Statistics

Pressures on operating costs peaked in 2022 Jet crack spread also narrows

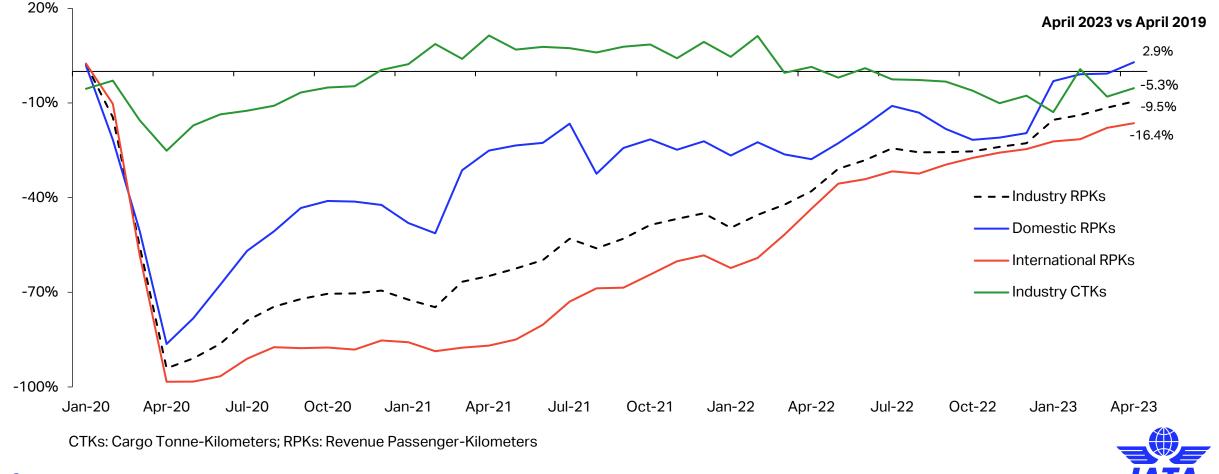


Source: IATA Sustainability and Economics, Platts – S&P Global, Macrobond

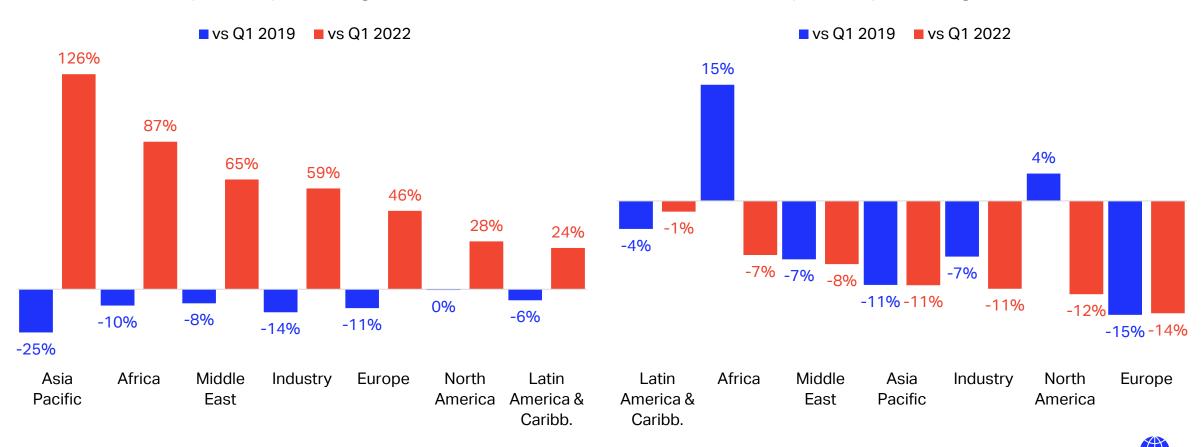
MACROBOND

International RPKs on the rise and domestic recovered Industry-wide CTKs are currently 5.3% below 2019 levels





Global recovery momentum pursued in Q1 2023 Asia Pacific passenger traffic surged, mixed outcome for cargo for all regions



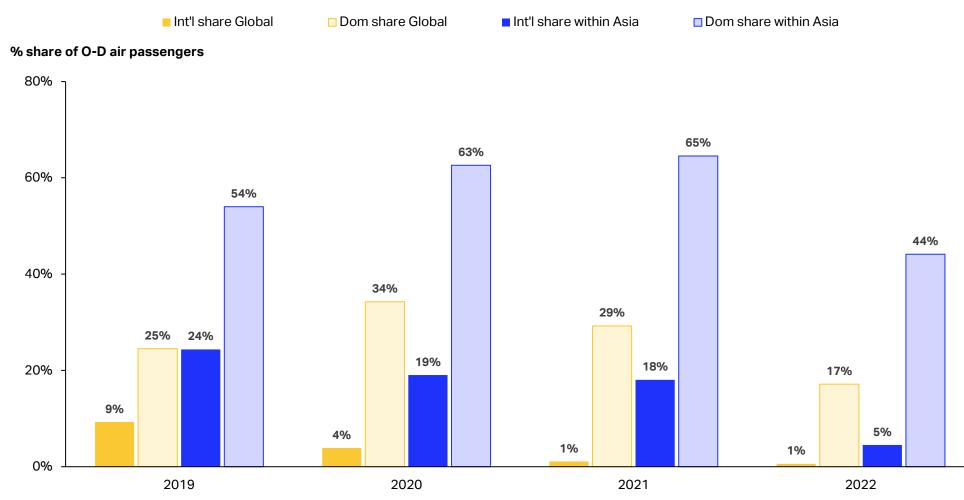
Q1 2023 total RPKs, year-on-year change (%)

Q1 2023 total CTKs, year-on-year change (%)

10 Source: IATA S&E Economics, IATA Monthly Statistics

6 July 2023

China's share of air passenger markets

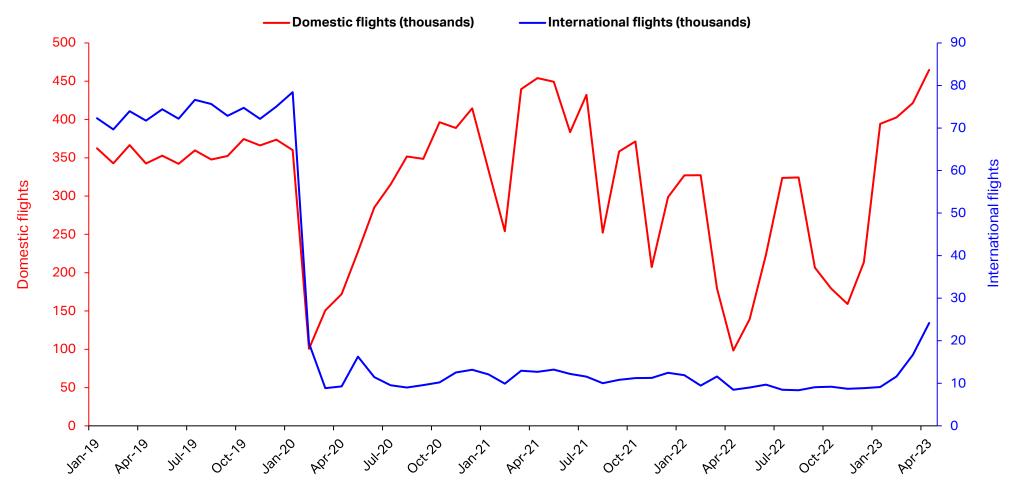


Source: IATA Sustainability and Economics, using data from DDS for inbound and outbound origin-destination (O-D) passengers Note: Based on OAG data, scheduled seat capacity shares of China in 2019 were 9% of global international, 22% of global domestic, 17% of international within Asia, and 51% of domestic within Asia.



11 IATA Sustainability & Economics

China's domestic and international monthly flights



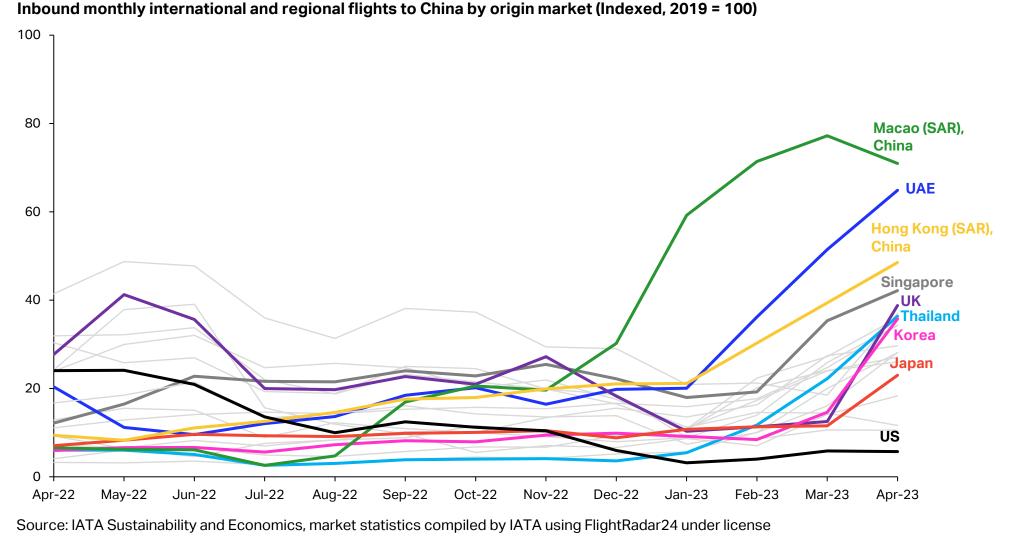
Source: IATA Sustainability and Economics, market statistics compiled by IATA using FlightRadar24 under license



12 IATA Sustainability & Economics

6 July 2023

Status of China's international inbound capacity



13 IATA Sustainability & Economics

6 July 2023

Outlook for China's international aviation market

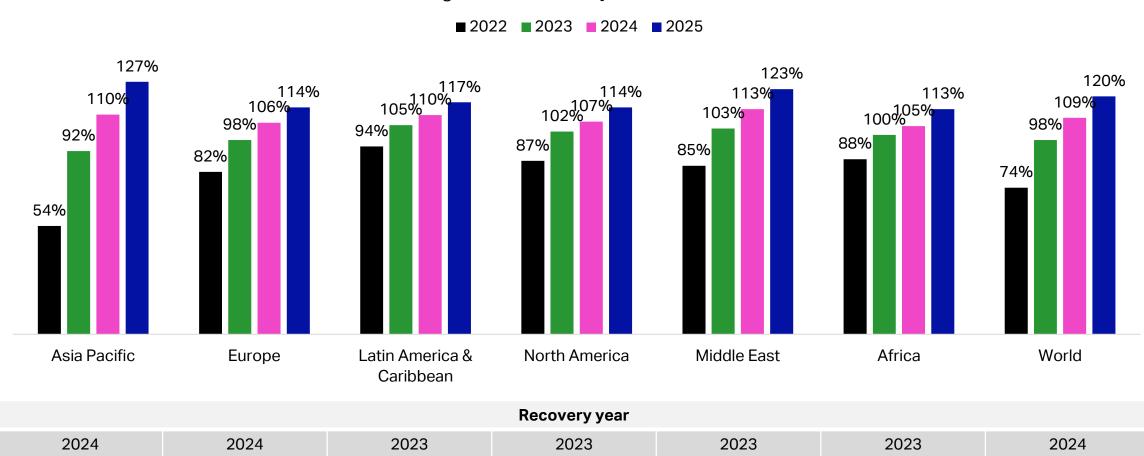


Recovery profiles	Apr 2023	Jul 2023	Sep 2023	Dec 2024	Mar 2024	Sep 2024	Average daily flights added each month for full recovery
Scheduled-based recovery trend	34%	53%	65%	87%	>100%	>100%	95+ flights
Downside risk	19%	26%	32%	43%	53%	>100%	60+ flights



14 Source: IATA Sustainability & Economics, FlightRadar24 under license, OAG

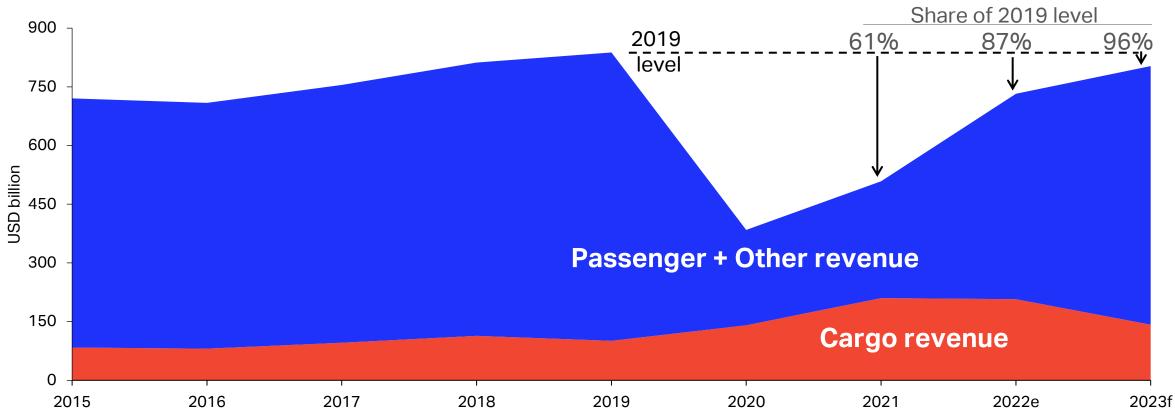
Forecast upgrades reflecting recent developments Africa, Middle East and Americas to recover in 2023



Passenger traffic recovery (%, share of 2019)

Source: Tourism Economics/IATA Sustainability and Economics Air Passenger Forecasts as of June 2023

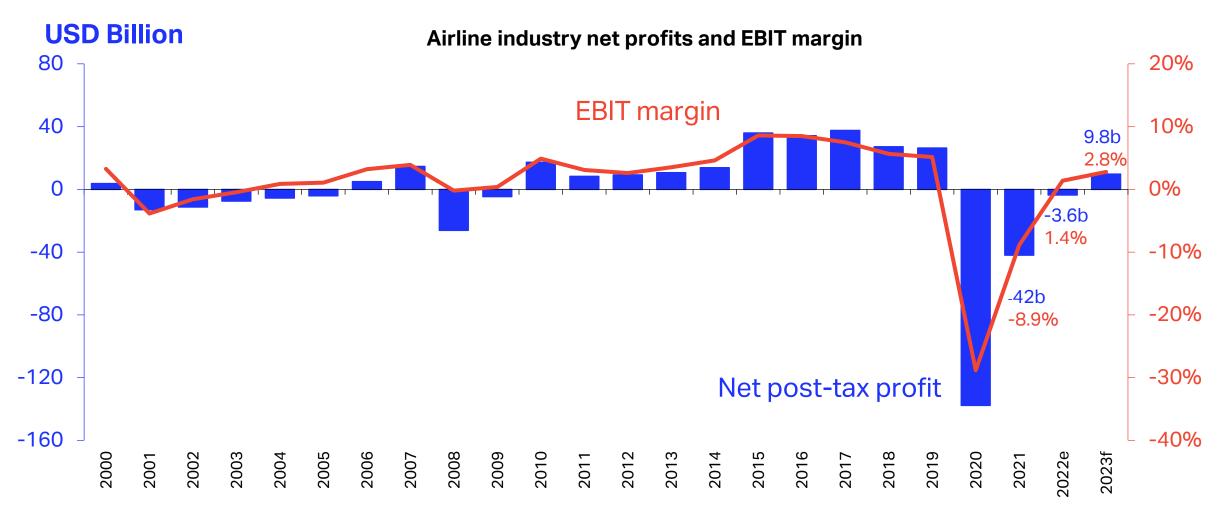
Global airline revenue, USD billion



Global airline revenue, USD billion

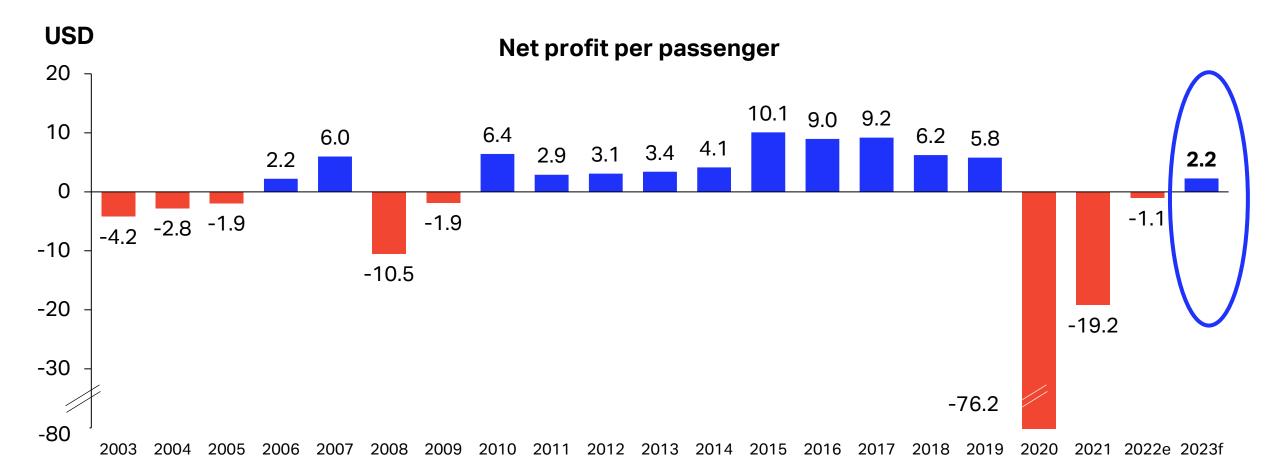


Net profit of USD 9.8bn forecast in 2023



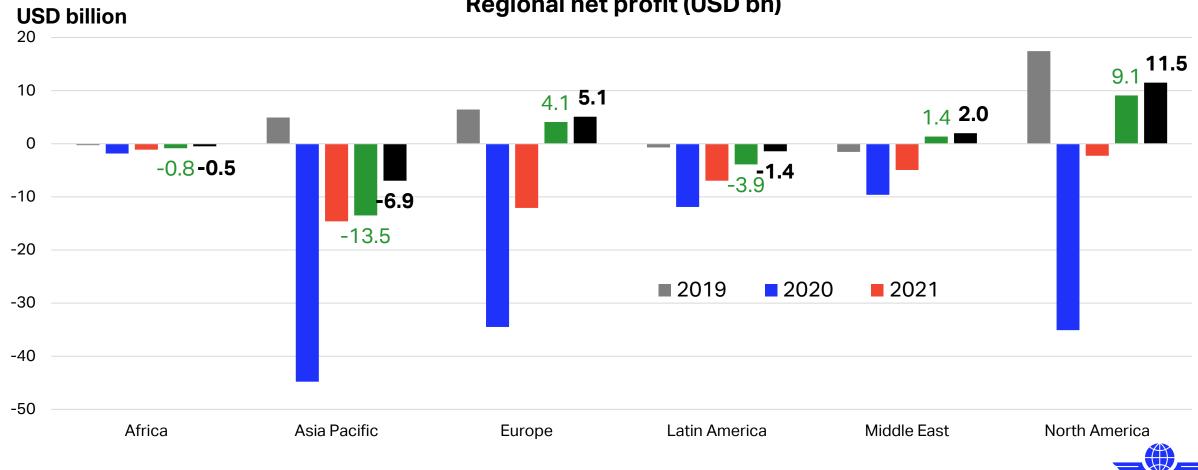


Slim profits at just USD 2.2 per passenger





Profits vary across regions



Regional net profit (USD bn)

19 Source: IATA Sustainability and Economics

Thank you!

IATA Economics economics@iata.org www.iata.org/economics







Geneva, Switzerland 28 June 2023

Understanding the Industry's Strategic Direction

Stephan Copart

Head of Digital Transformation, IATA



Upon advice from DAC, DTAC & IFAC, IATA's **Board of Governors** supported a cohesive program to help **move away** from **legacy**



A new cohesive program to unleash value creation and customer centricity...

Modern Airline Retailing

To become **truly customer centric** airlines need a **legacy-free** framework with **Offers & Orders**



Retailing with **Offers**

Delivering with Orders

Customer Identification





Finnair to go all-in on NDC by 2025

@ 16 September 2021

Air France-KLM : « Objectif 2027 : 90% des ventes indirectes via NDC »

Par David Keller - 23 avril 2023

AA: 80 Percent Of Bookings Could Come Direct Or Via NDC By Year-End

DISTRIBUTION · SERVICE · SUPPLIERS

American Express Global Business Travel Sets Minimum NDC Requirements

Jay Campbell - February 15, 2023

Global Air Tech

Global Air Tech: An American revolution, as NDC takes off

Alex Inving, CFA +44 207 120 0538 stewarder inving@ternatein.com The legacy GDS world is being furned upside down through once-in-a-generation technological change and the rise of NDC. The old three-player oligopoly is collapsing, being replaced by a more competitive market. While this has unbl now been primarily a European story, carriers across the Americas are finding the confidence to follow their peers from across the Atlantic and implement incentives to spur NDC adoption. With American leading the charge, the floodgates are open: change is set to take off.

Southwest Eyes Alternatives For Defunct NDC Exchange

Jay Boehmer February 10, 2023

Jay Boehmer April 27, 2023

SAS unveils NDC strategy with Amadeus partnership

@ 23 March 2023

images not loading... or having trouble viewing this email? Wew Online



Australian Trade Advice



Important Update: KrisConnect NDC changes from 1 June 2023

Issued 05 May 2023

Amadeus CEO Eyes 2024 For NDC Booking Critical Mass

Amon Cohen May 9, 2023

AVIATION

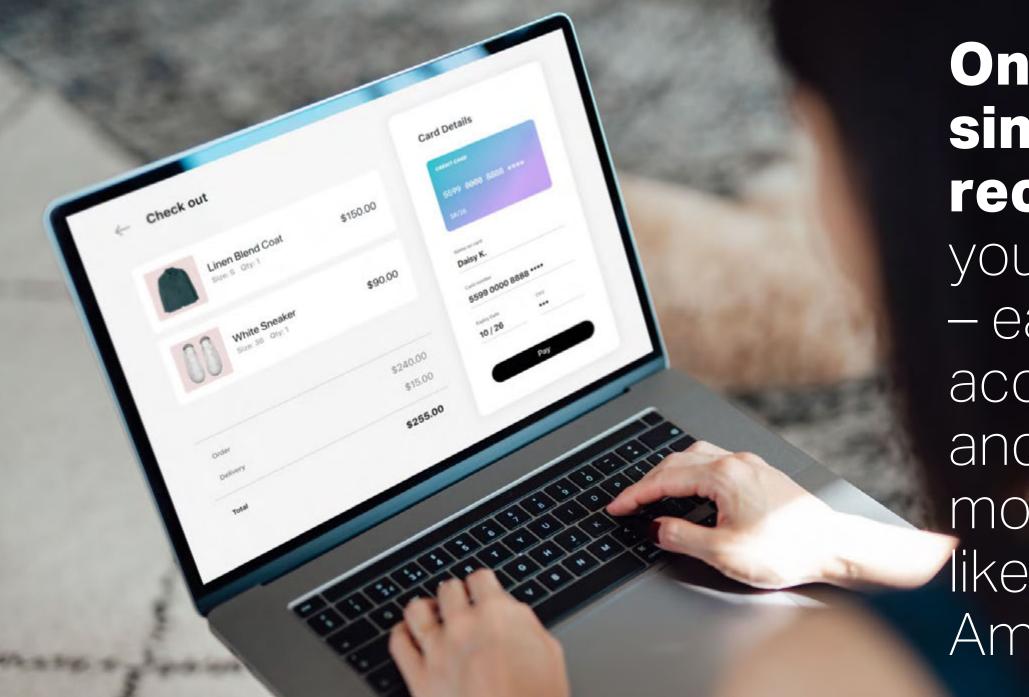
Air Canada lays out NDC strategy, including a surcharge on legacy GDS bookings

By Jamie Bieslada 👹 📾 | Apr 19, 2023

15 May 2023



Today, the industry is constrained and limited by the legacy standards, processes & technology in place.



One single record of your order -easily accessible and modifiable, like on Amazon

IATA Consortium airline members



What will the program deliver?

Customer identification

Standards enabling airlines to use customers digital identities to make better personalized offers and deliver them ; and standards enabling airlines and their value chain partners to process the digital identity of each other

30

Retailing with offers

Standards enabling airlines to build new partnerships and create products, distribute dynamically priced and personalized offers and generate further revenue through cost-effective digital payment options **Delivering** with orders

Standards enabling customers to access their Order in a single record (without the need for PNRs, e-tickets & EMDs) as the sole reference for the purchased services and enabling simplified financial processes (incl. settlement)

 And new standards are required: ONE ID, Verified Credentials, NDC, ONE Order, Settlement with Orders, Dynamic Offer Creation, Future of Interline & New Partnerships



2023 Innovation Themes Focus on Modern Airline Retailing



31



Geneva, Switzerland 28 June 2023

Panel

What do the Customers Want?

Shaunelle Harris Drake

Head Implementation, Distribution, IATA

Lenny Hornsby

Travel & Travel Technology Manager, Deloitte **Ann Dery** Director, Global Category Lead, Travel & Meetings, Johnson & Johnson

Claudia Adams

Travel Manager Allianz





Geneva, Switzerland 28 June 2023

Panel

Hearing from the Leaders

Yanik Hoyles Director of Distribution IATA

Keith Wallis

Senior Director Distribution & Payments, Air Canada **Kerem Kiziltunc** CIO Turkish Airlines



COFFEE & NETWORKING BREAK



Geneva, Switzerland 28 June 2023

Industry Innovation

Who is in the Digital Innovation Ecosystem?

R. Kat Morse

Senior Manager, Innovation & Partnerships, IATA





Geneva, Switzerland 28 June 2023

Innovating with Startups:

Accelerate @ IATA Segment 4: Personalization

Paula Pardo Esteve

Manager Ideation, Strategy and Partnerships, IATA



fullstory

Helping Airlines Perfect Their Digital Experience





We prevent Airlines losing <u>Customers</u> and <u>Money</u> by identifying poor Web & App Experiences

\$8 Billion opportunity for Airlines by addressing Payments through Digital Experience

- Increasing Ancillary Sales
- Enhancing Loyalty Programs
- Giving Customers Flexibility



McKinsey & Company

Mckinsey & Company - Airline retailing: How payment innovation can improve the bottom line 2022 Report

What Digital Experience Means For Your Customers

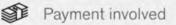


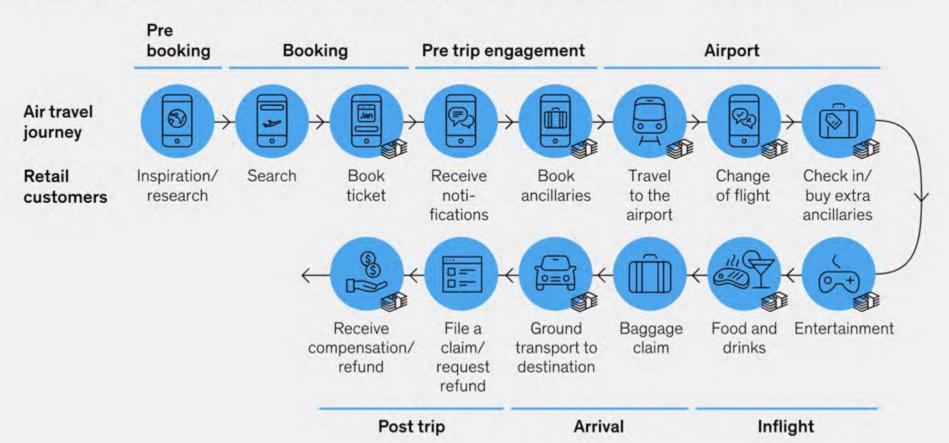


of global consumers **are likely to leave** without completing their transaction **if they encounter a problem or frustration online.**

Payment is involved in ~10 touch points for leisure traveler journey.

Retailing scenario - Payment and retailing opportunity in 2030, \$ billion





Customers Paying for Convenience





of consumers would pay more for a flawless digital experience.

Willing to pay 25% more
 Willing to pay 15% more

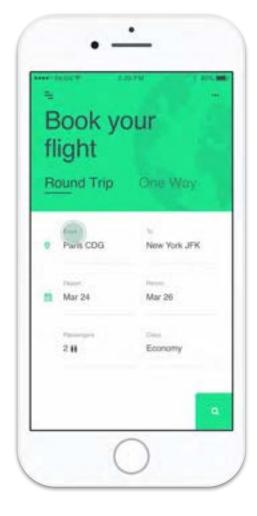
Willing to pay 5% more
 Unwilling to pay more

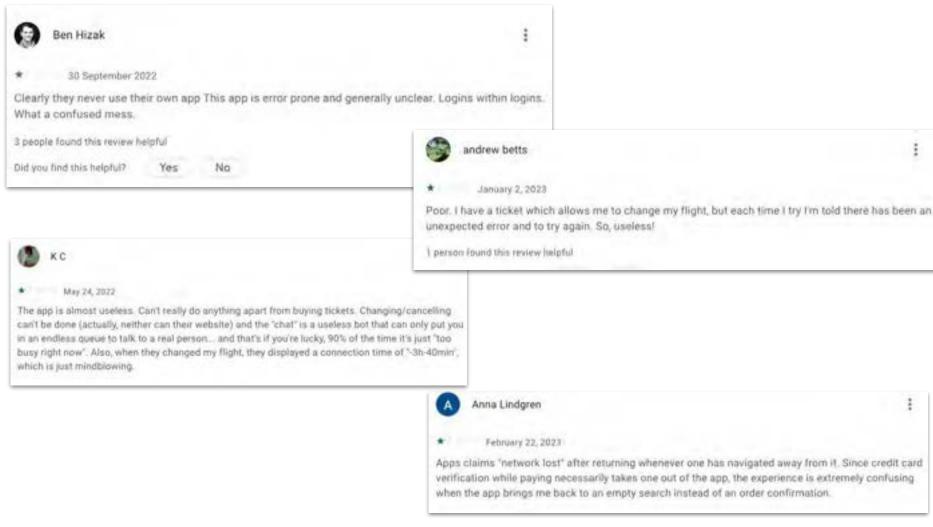


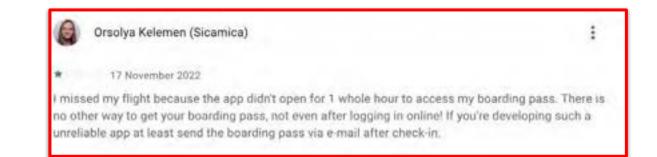
In 2019, **31%** of travel bookings were made on a **Mobile device**.

This jumped to over 41% in 2021.

...And is **expected to be over 55%** by the end of 2023.











CHIEF OF DIGITAL & E-COMMERCE



"Why are we not generating the anticipated revenue through our digital channels?"

HEAD OF MOBILE



"We have limited visibility on the customer experience our Mobile Apps"

SR. DIGITAL PRODUCT OWNER



"Customer needs are changing more rapidly than we anticipated"



HEAD OF ANCILLARY SALES

"We're unable to determine the <u>most</u> <u>effective place</u> to position ancillary products in the booking flow"

СТО



"We have Limited Resources as we're migrating away from our Legacy Tech Stack"



The **Leading** Digital **Experience** Platform

priceline TRAVELPORT IGHT

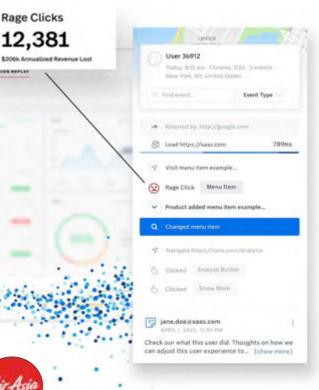
eDreams

jetBlue





WINDLE AND





CENTRE



fullstory

https://saas.com/analysis



Rage Clicks

12.381

SASSION BUPLAT





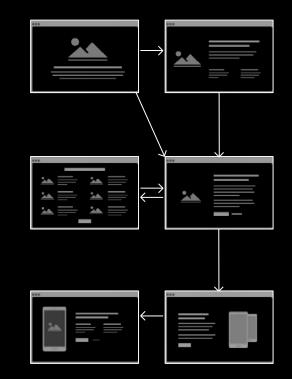




How do you get visibility into what you're missing?

Traditional analytics only measure the path you think users will take. But they miss the actions you can't predict.

To see what's broken — any why— each team that is responsible for the customer's digital journey needs the **complete picture**.



Traditional Analytics:

- You only see what you tag
- Huge Engineering overhead
- Only a small spotlight on the issue

	CORE STORE		
1 martin			
	and the second second		
	a de la compañía de la	× 1	
COLUMN T	Contraction of the local division of the loc		
-			
OLIDAY		5.	
nd the world and - most importa			
d the world and - most importa			
nd the world and - most importa Ip to suit you. So what are you w			
nd the world and – most importa p to suit you. So what are you w To *		Ī	
nd the world and – most importa Ip to suit you. So what are you w To *		į	
nd the world and – most importa ip to suit you. So what are you w To * Chicago		į	
Chicago			

Fortantiy - with a stock.

evel da, do you have any other requests?

YOUR

We know our stuff when it comes to holidays all around of information, our Travel Experts can tailor make a trip bi-

Where are you departing from? *

Where are you departing from? *

London Heathrow London Gatwick Aberdeen

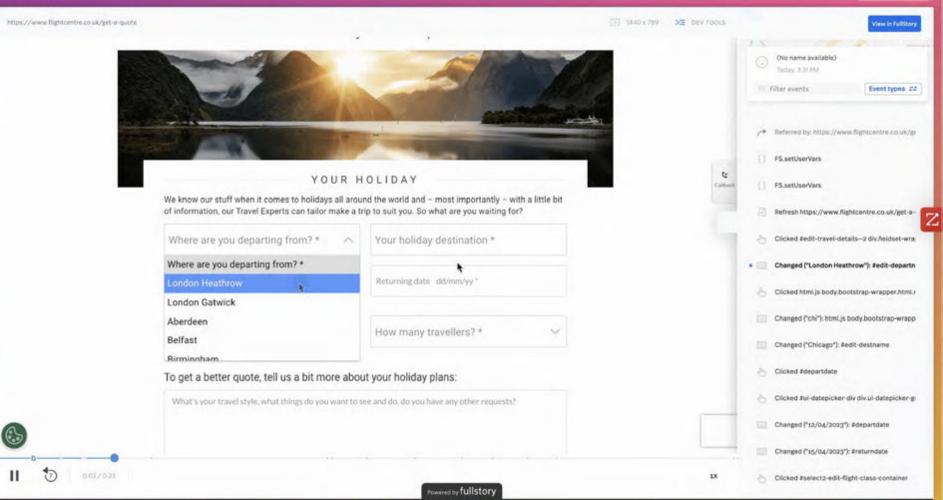
Belfast

Rirminnham

To get a better quote, tell us a bit more about yo

What's your travel style, what things do you want of

fullstory



Case Study

5



FullStory was integral for improving products in our retail ecosystem with a lean team—it allowed us to uncover the 'unknown unknowns' and prioritize which actions to take.

Hans Einner Barroga - Design Experience

22% Decrease in booking fail rate

24% Increase in usage of key feature releases

Flight Centre teams using FullStory



Case Study

jetBlue

"We used FullStory to bubble up similarities between different customer groups, identify common criteria, and establish what sort of error messages were occurring frequently".

Jillian Moroney - Head of Product

20% Decrease in payment errors

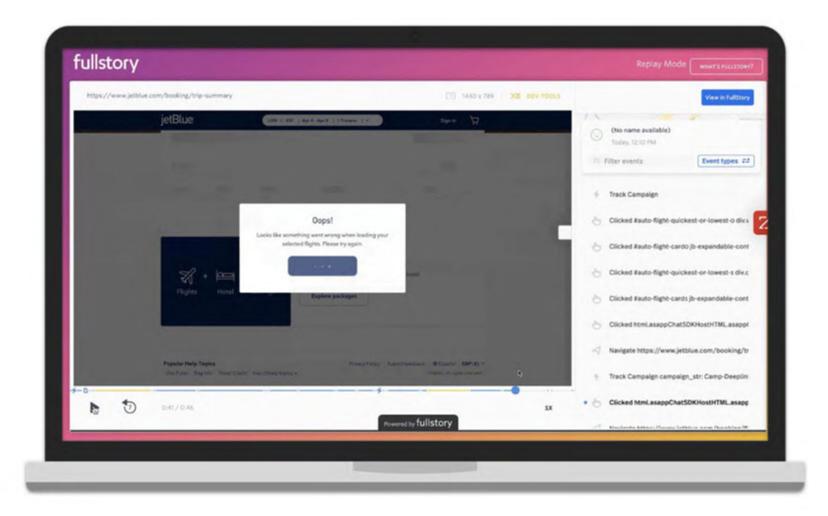
Reduction in time to insight

22%

50%

Error validation on checkout funnel





Conversions

Proactively identify opportunities to improve Ancillary Product Sales - through Conversions

Using FullStory's Conversions feature, get visibility to proactively surface which points of friction correlate with funnel dropout and lost revenue on key ancillary product funnels

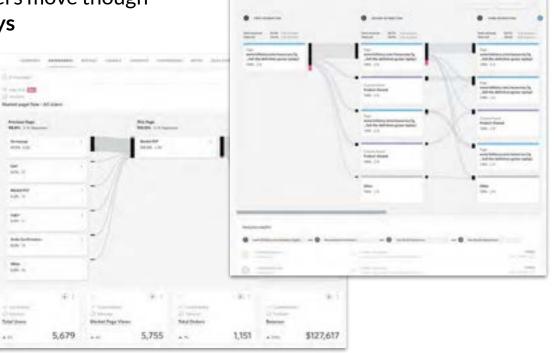
Also prioritise which issues to fix first based on revenue loss.

ignals		Lost Conversions	Annualized Revenue *	Affected Users	Conversion Impact
Custom Eve Javascript erro	nt r • Message • "Missing Field"	2,895	\$313k	4,626	-74.27%
Page Load	Performance • 6+ seconds	1,454	\$157k	13,174	-23.19%
Error Click Please enter	r your mobile phone number	1,069	\$115k	1,984	-86.42%
Oread Click	shipping address	1,048	\$113k	2,009	-83.72%
Bage Click		867	\$94k	19,515	-7.22%
Watched E	lement • "203AKX0"	635	\$69k	10,068	-2.48%

Journey Mapping

Know the where, when, and how users move though your digital property - using **Journeys**

Journeys give understanding into how users navigate your website, mobile application, and kiosk, giving you the ability to spot opportunities for optimisation

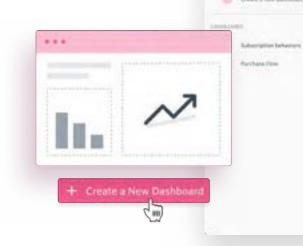


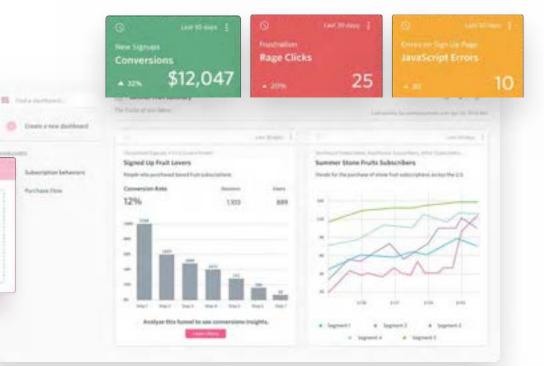
further (Section)

A D & America

Dashboards

Bring all of key metrics and KPIs together in a single platform and have product, UX, engineering & marketing teams work off the same data.



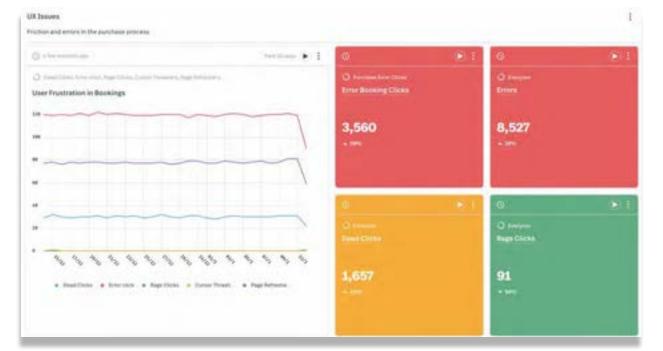


Frustration Metrics

Be proactive in your approach to solving problems, by leveraging 'out-of-the-box signals'

Surface customer friction with FullStory's 'out-of-the-box' frustration signals.

Use frustration signals to get insight into customer frustration and context behind users who leave your platform without completing their desired task.

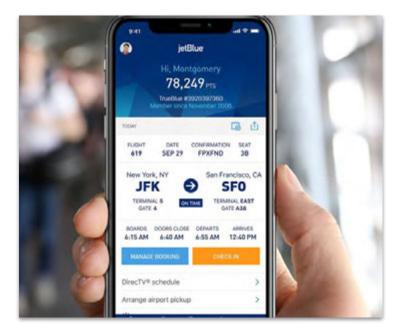


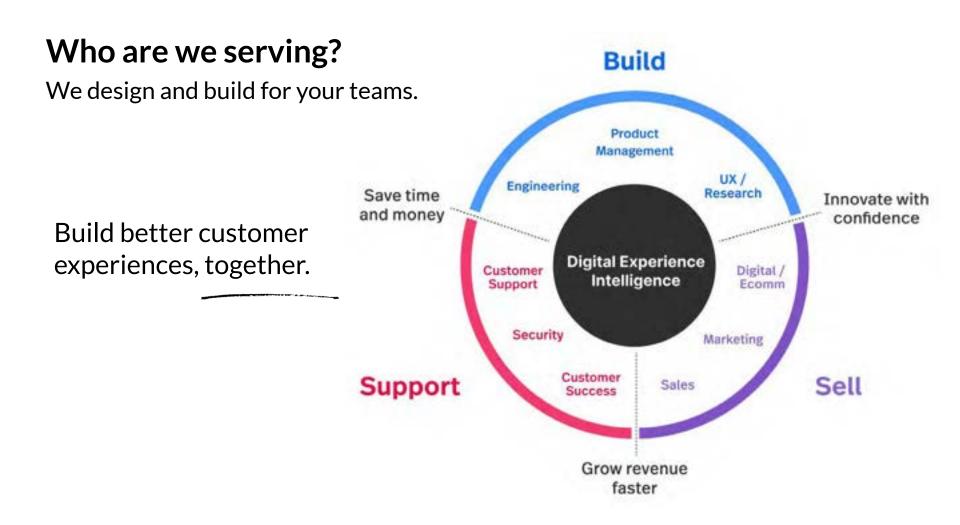
FullStory for Mobile

Understand the 'full picture' for users on mobile and at self-service kiosks

Using FullStory for mobile, you can gain insights into bugs and issues that are causing users to leave poor reviews on the App Store & Google Play Store.

Airlines can also use this as an opportunity to improve personalisation by understanding full customer journey.





Thank You!

Name: Charles Addai-Appiah Role: Regional VP Email: <u>Charlie@fullstory.com</u> Number: 07724434421

Name: Kofi Ankomah Role: Strategic Accounts Email: <u>Kofi@fullstory.com</u> Number: 07533572423



Learn More About FullStory here!







Innovation Day (a) IATA June 2023

CONFIDENTIAL



Ollie Killick Global Head of Brand Partnerships Fever

0

Fever is an ecosystem with multiple ways for an airline to plug in to...

To add value to trip bookings, increase loyalty usage and to make trips unforgettable



NETFLIX fever mycotoo



Nostalgia, friendship, and supernatural adventure.

NETFLIX fever



Making YOU the hero of the story.











The Mixtape Area.



GLOBAL ROLLOUT SO FAR

CLOSED

NYC



164k Tickets Sold 4.8 Average Rating

SAN FRANCISCO

 \mathbf{X}

128k Tickets Sold 4.8 Average Rating

LOS ANGELES



98k Tickets Sold 4.8 Average Rating



> 103k Tickets Sold A.7 Average Rating







LIVE

114k Tickets Sold **4.3** Average Rating

TORONTO

95k Tickets Sold **4.3** Average Rating

SEATTLE

61k Tickets Sold 4.3 Average Rating

COMING SOON

GTON DC WAS

NETFLIX fever



NYC IMPACT REPORT

SOCIAL MEDIA METRICS:

READERS

- Accounts: Stranger Things: The Experience + \rightarrow Secret NYC + Fever
- Platforms: Facebook, Instagram, Google, \rightarrow Youtube, TikTok & Fever Marketplace
- Main location: NY/NJ Metropolitan Area \rightarrow



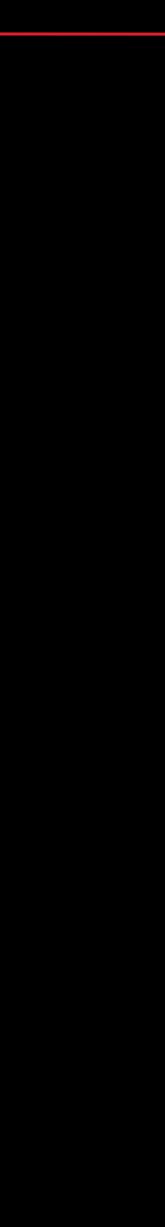
COMMENTS

LANDING PAGE VIEWS

CLICKS

PRESENTED BY NETFLIX fever TOTAL IMPRESSIONS NYC 61.6M+ USER GENERATED CONTENT PRESS SOCIAL MEDIA (ST EXPERIENCE, SECRET NYC, FEVER)

NETFLIX fever



It's been a difficult and unpredictable time for airlines Core flight ticket margins are squeezed

and increased loyalty usage

Airlines don't know a lot of about some customers and aren't using all of the data they have on others... but they do want to increase personalization

Looking to add value to the customer funnel, through add-ons



FEVER'S MISSION Democratize access to incredible live entertainment

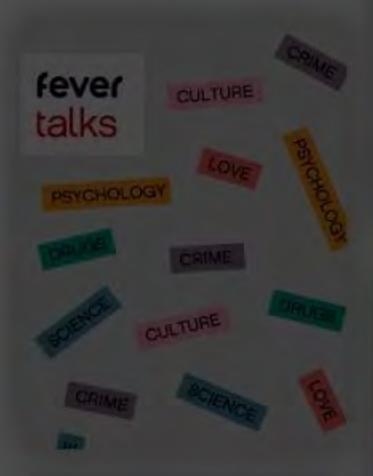




Utilizing technology and data leads to a better understanding of consumers, and therefore better experiences

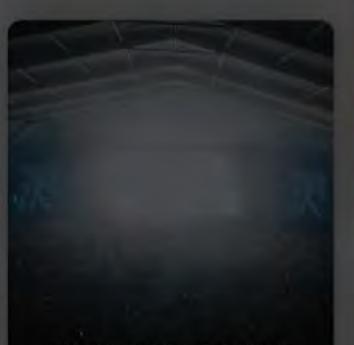
OUR BELIEF





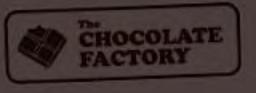






POLAR A SOUND

fever Original Event



fever Original Event

fever presents

Candlelight

fever Original Event





Fever Original Event

A constant personalised flow of immersive experiences



fever Original Event



OUR VISION

360° PARTIES fever Original Event







Fever Original Event



PARTY







Fever Organal Event

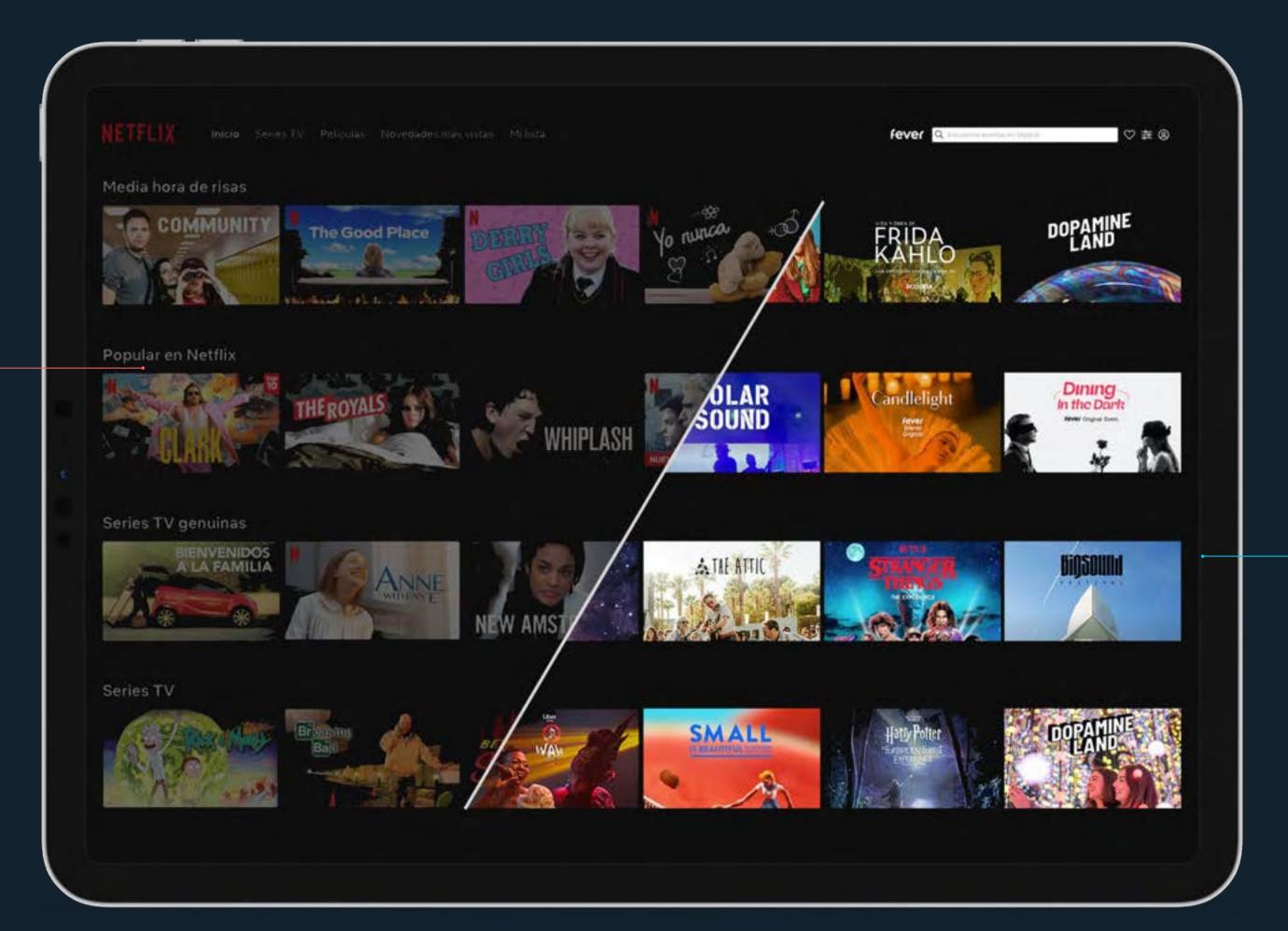


fever Original Event

An unparalleled way to serve fans globally... Like Netflix, for live Experiences

NETFLIX

Data-driven audiovisual content creation.



fever

Data-driven experiential content curation & creation.



'er

The World's Largest source of curated multicategory experiences



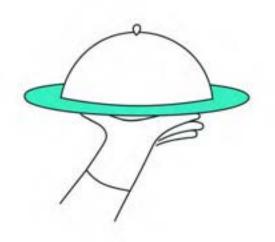






+ 500 sports

+500 wellness



+ 2.000 tasting



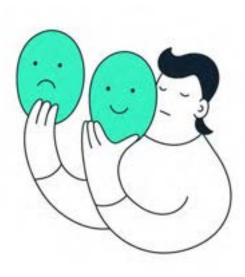
+2.000 music



+ 1.000 cinema



+1.000 nightlife $\mathbf{\tilde{\mathbf{v}}}$



+ 500 theater



Platform already available in over 150 major travel hub cities



Confidential and Proprietary



Agreements with the world's leading experience providers, access to more than 40,000 events



Confidential and Proprietary



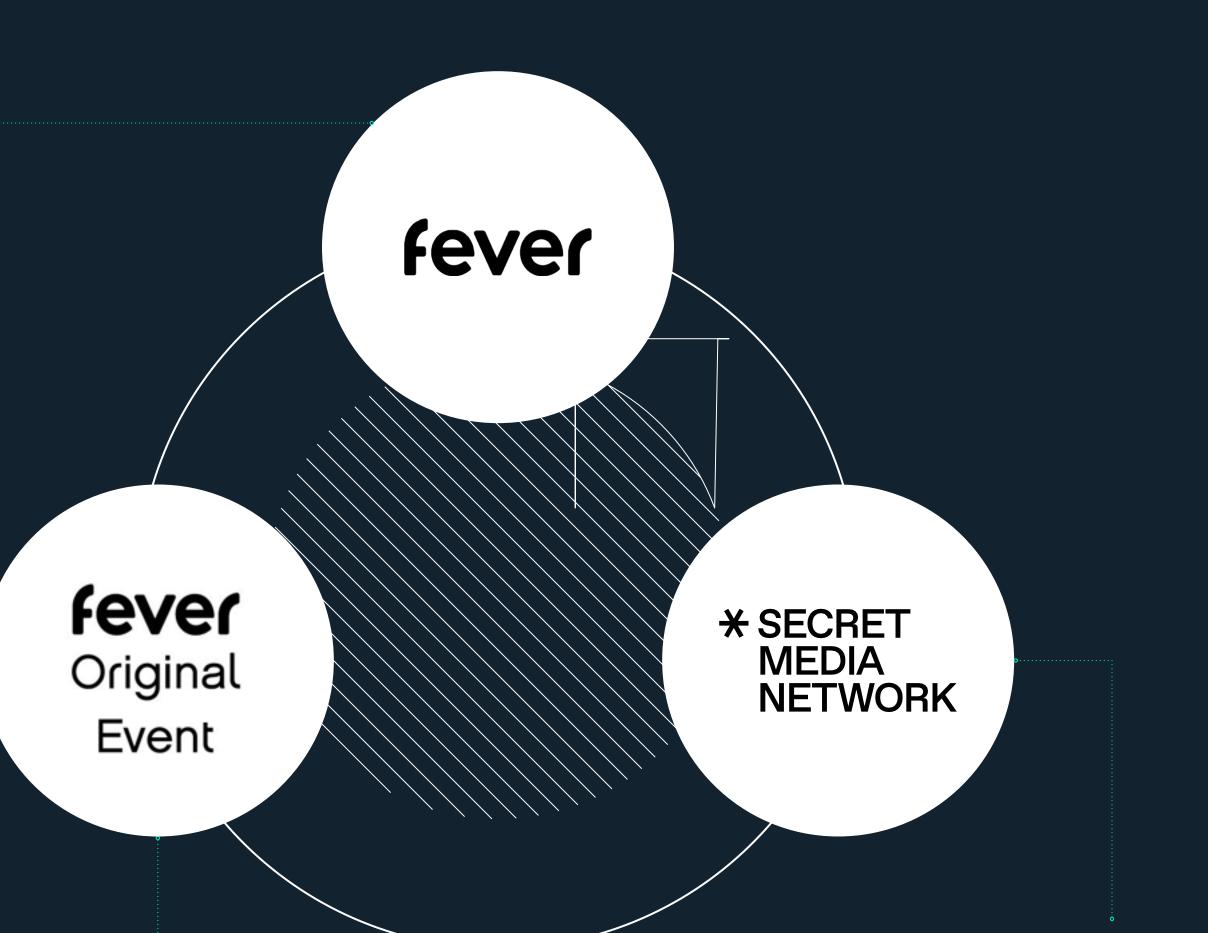


Unique Tech Enabled ecosystem powering events worldwide

Fulfilling customer journey from inspiration to <u>conversion</u> to <u>experience</u>

Experience Marketplace, volume of 30M tickets per year

Confidential and Proprietary



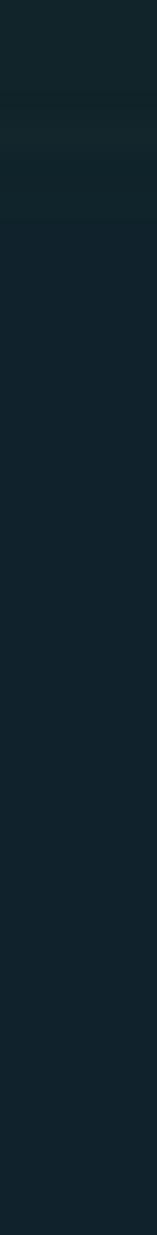
Fever Original Experiences, tapping into data from 120,000 concepts

Hyper-local Media Network, reaching 212M people



Marketplace



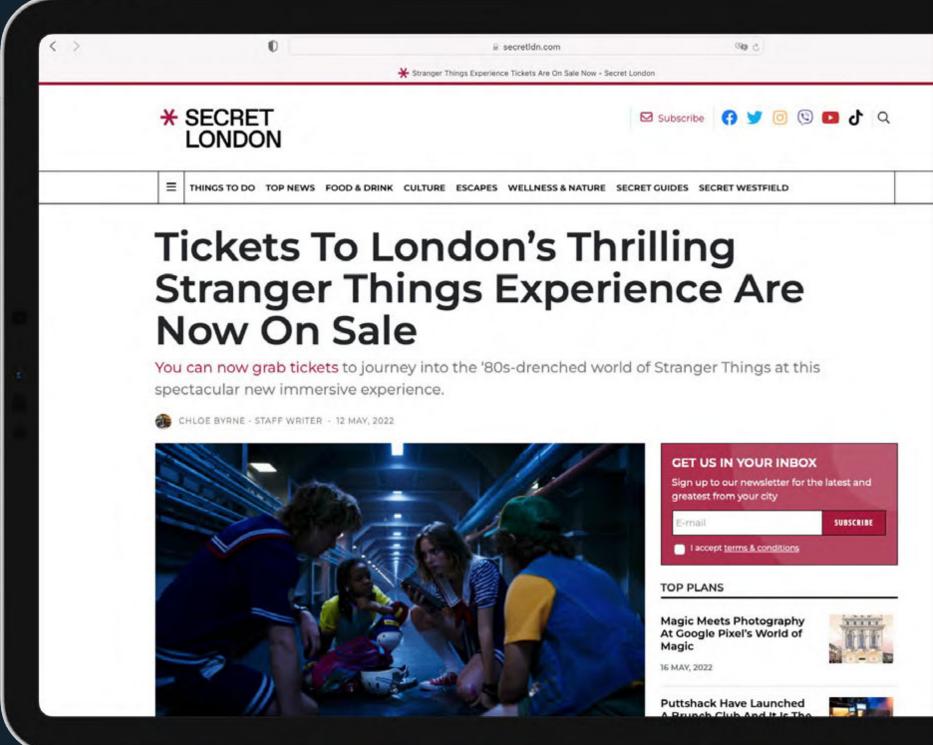




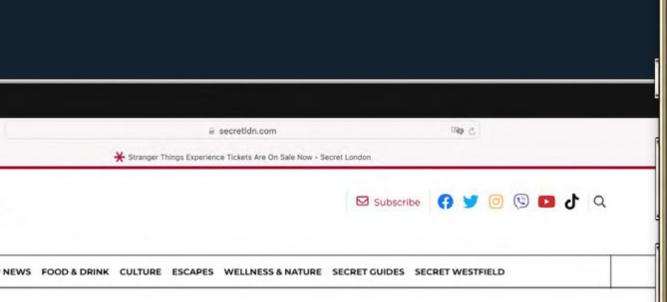
Secret Media Network

Largest network of local entertainment media

Travel a key vertical



Confidential and Proprietary

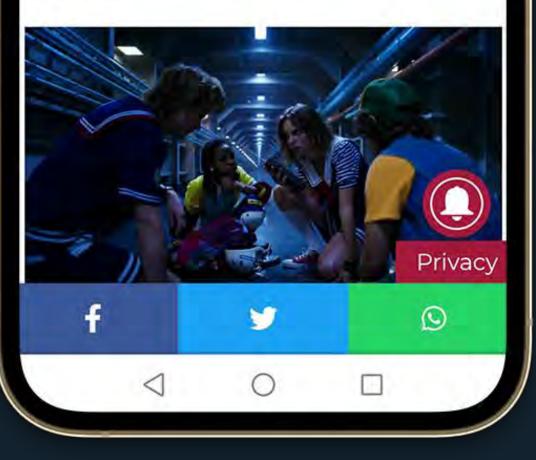




Tickets To London's Thrilling Stranger Things Experience Are Now On Sale

You can now grab tickets to journey into the '80s-drenched world of Stranger Things at this spectacular new immersive experience.

CHLOE BYRNE - STAFF WRITER · 12 MAY, 2022





Covering the best of Culture and Entertainment in the World's top Cities

Europe cities:

- *** MADRID** SECRETO
- ***** BILBAO SECRETO
- *** MÁLAGA SECRETA**
- *** SECRET IBIZA**
- SECRET ROMA
- ***** SECRET MILANO
- ***** SECRET MUNCHEN
- ★ SECRET KÖLN
- ***** SECRET BERLIN
- **X LISBOA** SECRETA
- ***** PORTO SECRETO
- *** GENÈVE** SECRÈTE
- ***** LILLE SECRET
- *** MARSEILLE** SECRÈTE
- ***** PARIS SECRET

- *** BARCELONA** SECRETA
- ***** SEVILLA **SECRETA**
- *** VALENCIA** SECRETA
- ***** TORINO SEGRETA
- *** SECRET** NAPOLI
- *** SECRET STUTTGART**
- ***** SECRET HAMBURG
- *** SECRET** FRANKFURT
- ***** SECRET ZÜRICH
- *** SECRET** WIEN
- ***** BRUXELLES SECRÈTE
- ***** BORDEAUX SECRET
- **X** LYON SECRET
- **X** NICE SECRET
- ***** TOULOUSE SECRET

- SECRET **KØBENHAVN**
- *** SECRET** BIRMINGHAM
- *** SECRET** BRISTOL
- ***** LEEDS **UNCOVERED**
- ***** SECRET MANCHESTER
- ***** SECRET LONDON



- ***** SECRET CALGARY
- *** MONTRÉAL** SECRET
- ***** QUÉBEC SECRET
- ***** SECRET VANCOUVER
- SECRET ATLANTA
- BOSTON **UNCOVERED**
- ★ SECRET CHARLOTTE

- ***** LEEDS **UNCOVERED**
- ***** SECRET GLASGOW
- ***** SECRET DUBLIN
- ***** SECRET LIVERPOOL
- ***** SECRET **STOCKHOLM**
- ***** SECRET AMSTERDAM

- ***** SECRET **EDMONTON**
- ★ SECRET **OTTAWA**
- *** SECRET** TORONTO
- ***** SECRET **AUSTIN**
- ***** SECRET BALTIMORE
- ***** SECRET CHARLESTON
- * SECRET CHICAGO

Confidential and Proprietary

- ***** SECRET TAMPA
- ***** SECRET TUCSON
- ***** SECRET **ST LOUIS**
- ***** SECRET SEATTLE
- ***** SECRET **AUSTIN**
- ***** SECRET SAN FRANCISCO
- ★ SECRET **SAN DIEGO**
- ***** SECRET RALEIGH
- ***** SECRET PHOENIX
- ***** SECRET PHILADELPHIA
- ***** SECRET PORTLAND
- ***** SECRET ORLANDO
- ***** SECRET **OMAHA**
- ***** SECRET NOLA
- ***** SECRET NYC

- ***** SECRET NASHVILLE
- ***** SECRET **MINNEAPOLIS**
- ***** SECRET MIAMI
- ***** SECRET **MEMPHIS**
- ***** SECRET LAS VEGAS
- *** SECRET** LOS ANGELES
- ***** SECRET KC
- ***** SECRET HOUSTON
- *** SECRET GRAND RAPIDS**
- ***** SECRET DETROIT
- ***** SECRET DENVER
- ***** SECRET DC
- ***** SECRET DALLAS
- ***** SECRET **CLEVELAND**
- ***** CINCINNATI UNCOVERED

- ***** RIO DE JANEIRO SECRETO
- ***** TOLUCA **SECRETA**
- *** TIJUANA SECRETA**
- *** GUADALAJARA** SECRETA

- ***** SÃO PAULO SECRETO
- ***** RIVIERA MAYA SECRETA
- ***** MONTERREY **SECRETO**
- ***** CDMX SECRETA

Asia & Oceania cities:

- *** SECRET** AUCKLAND
- *** SECRET** SYDNEY
- *** SECRET** PERTH
- *** SECRET** MELBOURNE
- ***** SECRET GOLD COAST

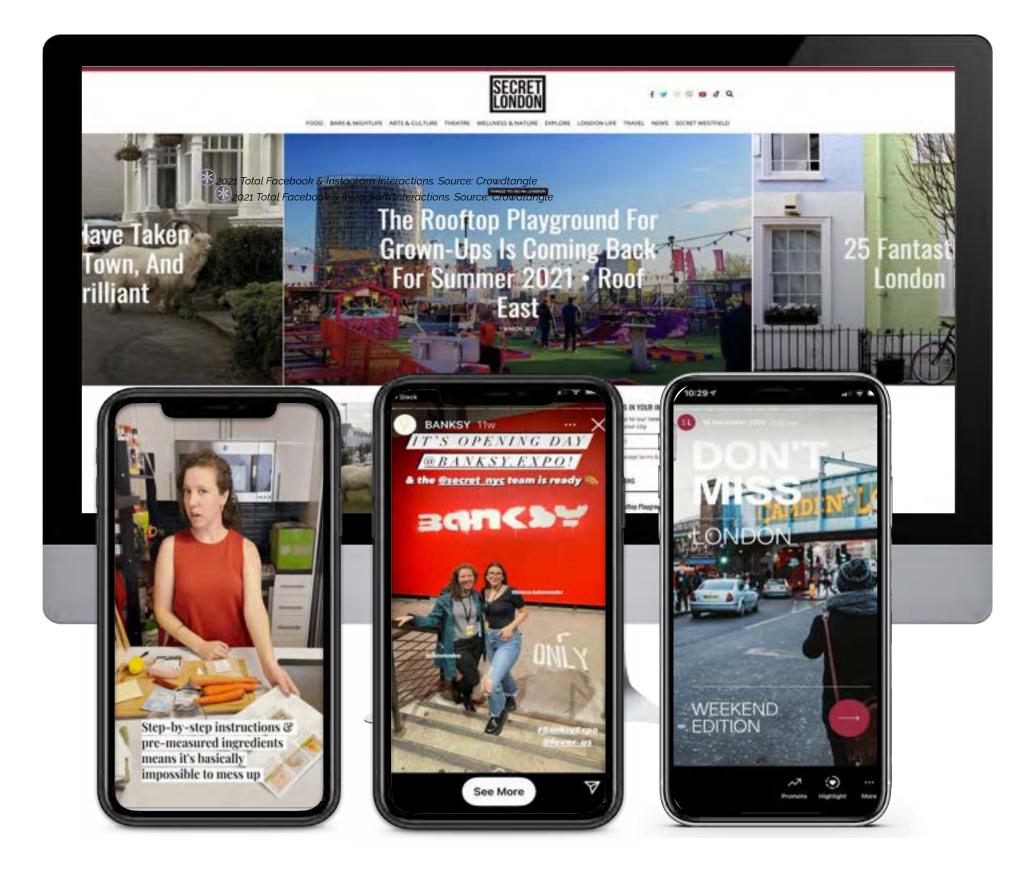
- ***** SECRET ADELAIDE
- ***** SECRET SINGAPORE
- ***** SECRET **WELLINGTON**
- ***** SECRET CHRISTCHURCH
- ***** SECRET BRISBANE



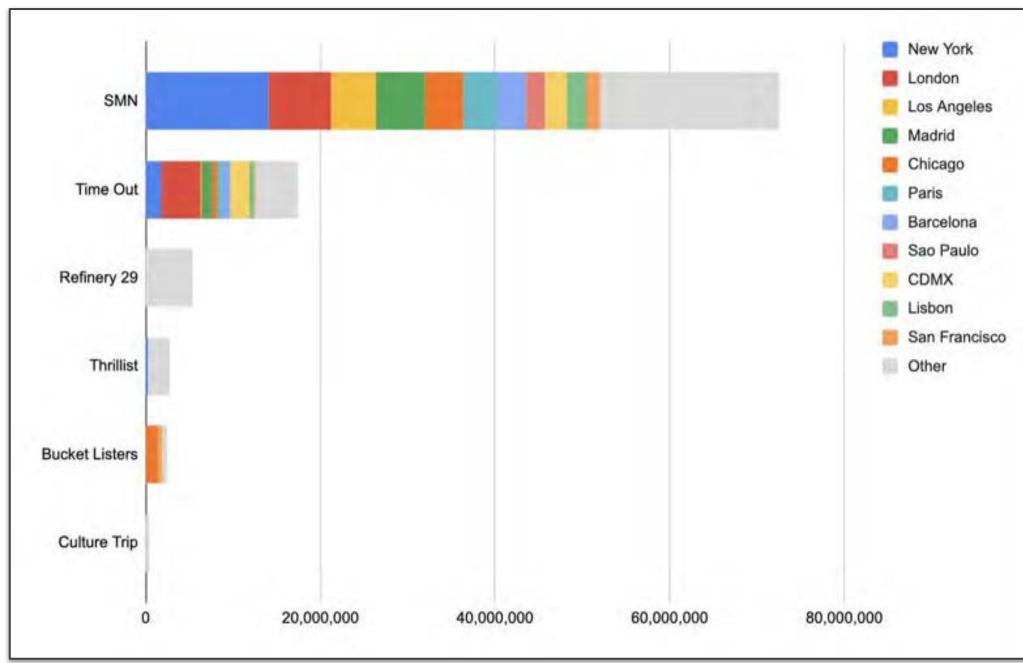


Hyper Localized, Social-First, Recommendation Engine

Hyper localized and entertaining actionable social formats...



...that drive significant levels of **social engagement** versus other local entertainment media



2022 Total Facebook & Instagram Interactions. Source: Crowdtangle





Fever & Secret Media Audience



Visual Arts



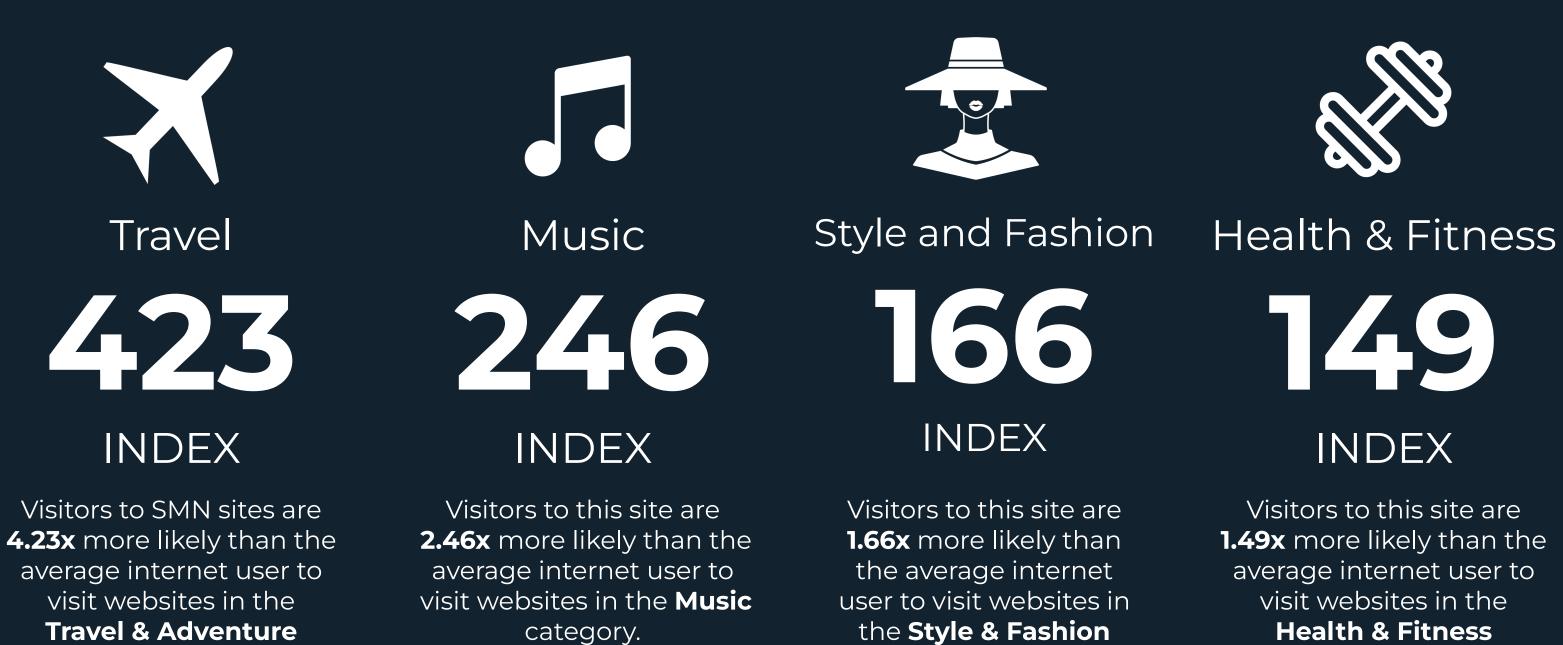
Visitors to this site are 7.89x more likely than the average internet user to visit websites in the Visual Arts category.

Dining Out 457

INDEX

Visitors to SMN sites are **4.57x** more likely than the average internet user to visit websites in the Dining Out category.





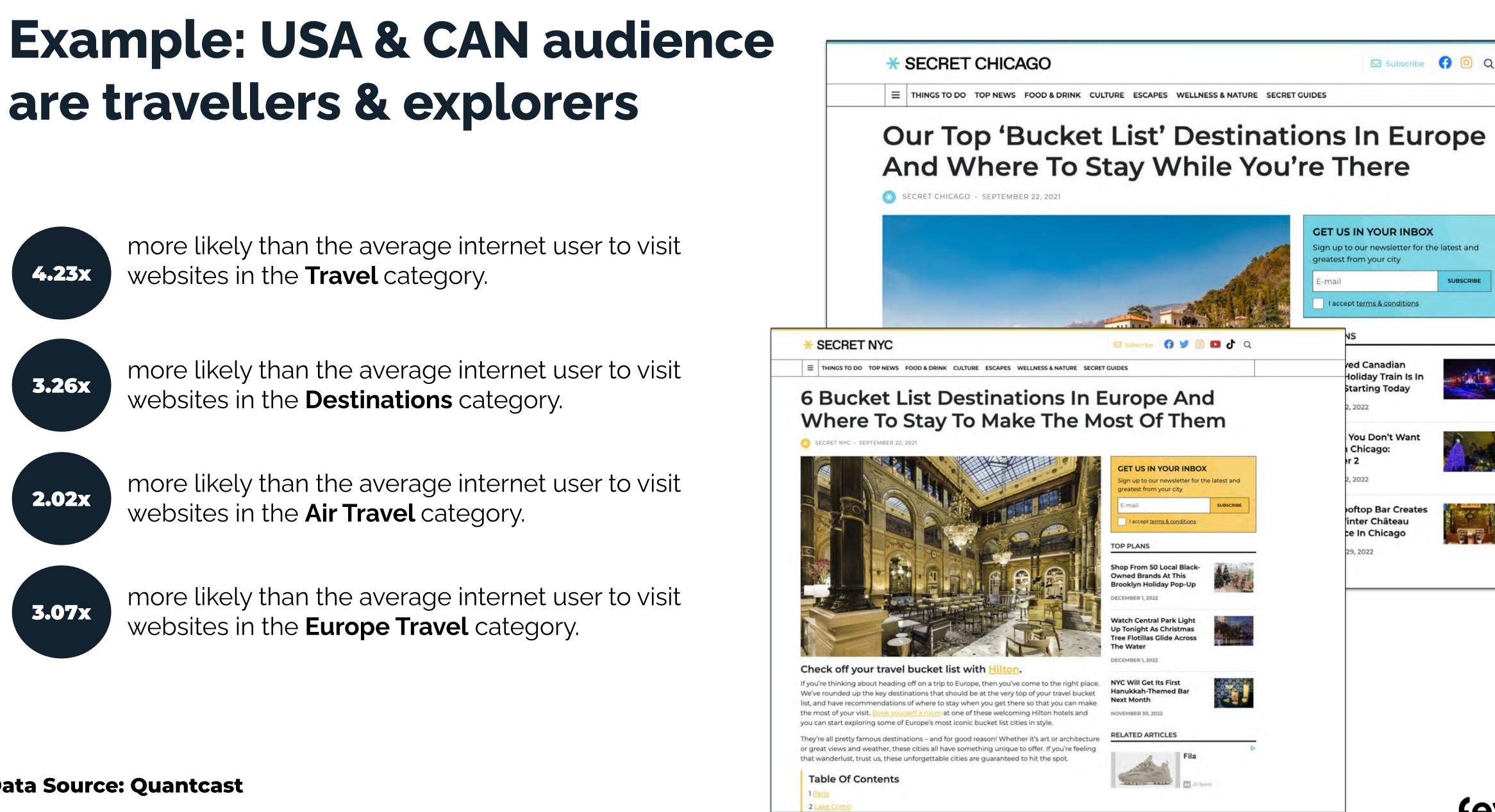
category.

category.

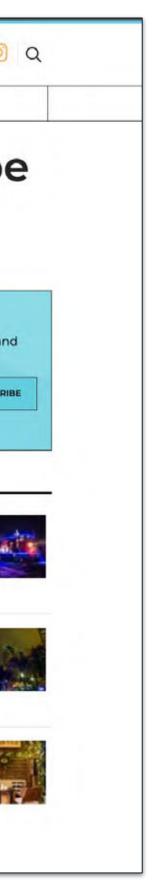
Interested in Culture, Travel and Entertainment

category.





Data Source: Quantcast





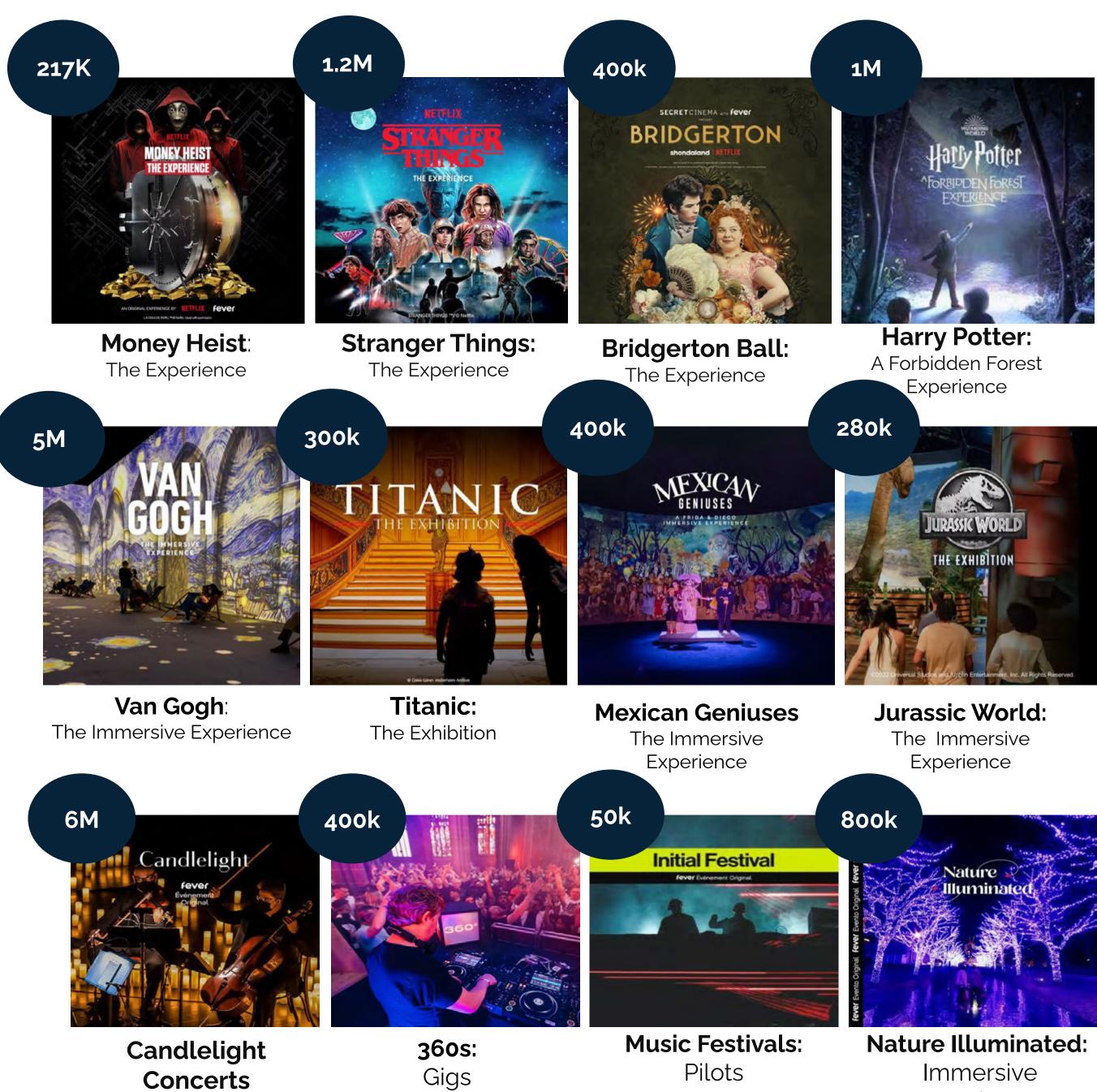
Fever Original Experiences

Ecosystem Data used to inform the **creation of** new, unique experiences



Confidential and Proprietary





Experience

Global agreements with IP owners, means Fever has access to World-famous IPs



Data Driven Approach

Analysis & Criteria

Analysis Of Event Virality And Ticketing Demand

Unparalleled Data Set Of Over 120,000 Concepts

Event Success Decision Threshold Uses Performance Benchmarks

		ii meta	abase.feverup.com	٢	٢	
Q Search				+	Ask a qu	
[MKT] Fever Dis	scovery [RMC] nonth ago by Rodrigo M.				1	
• Country	City	September 1, 2021 ×	September 30, 2021 ×	Event from date 🗸	F	
Aa Is active	Aa Is free	Aa Is online	Aa Tag	Aa Breakout	Aa	
[MKT] Fever Discover	y Breakouts [RMC]		[MKT] Fever Discovery C	ountry Pie [RMC]		
BREAKOUT Rising Star Stable Decreasing Current	EXPL it is rocking! More trendy than before it did not exist before Without changes on its tre Lower trend than before X It is not trendy anymore	end	 Germany Portugal Singapore Mexico Canada Brazil United Kingd United States Belgium New Zealand Australia France Spain 		13 TOTAL	
[MKT] Fever Discovery Scatter Plot [RMC] Rising Star Decreasing Rising 8,000 7,000			[MKT] Fever Discovery Tags Table [RMC] DS_TAG NUM_EVENTS TOTAL_PEOPLE TREND_ABS			





Some of our Travel Partnerships



Hilton

SMN Travel Inspiration Content to drive privilege club sign ups

Sponsorship of two Fever **Original** experiences

Multi-year Hyperlocal SMN media campaigns promoting key Hilton locations in key international and domestic feeder cities



South Western **Railway**

Partnerships with **tourism** boards to run engaging SMN campaigns to **provoke** wanderlust in our audience

Local travel inspiration

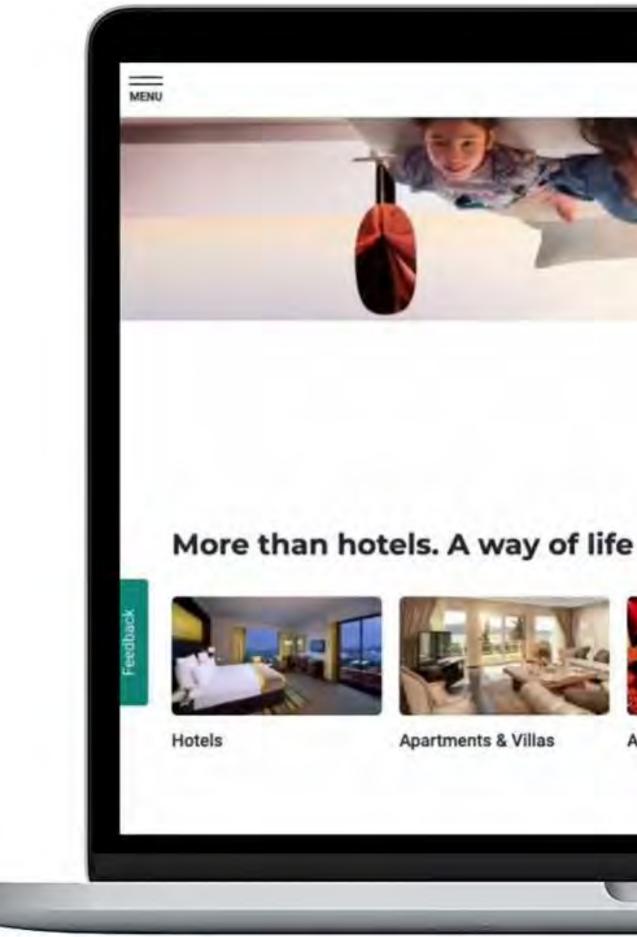
through native city centric content crafted to promote travel along the SWR railway in and around London

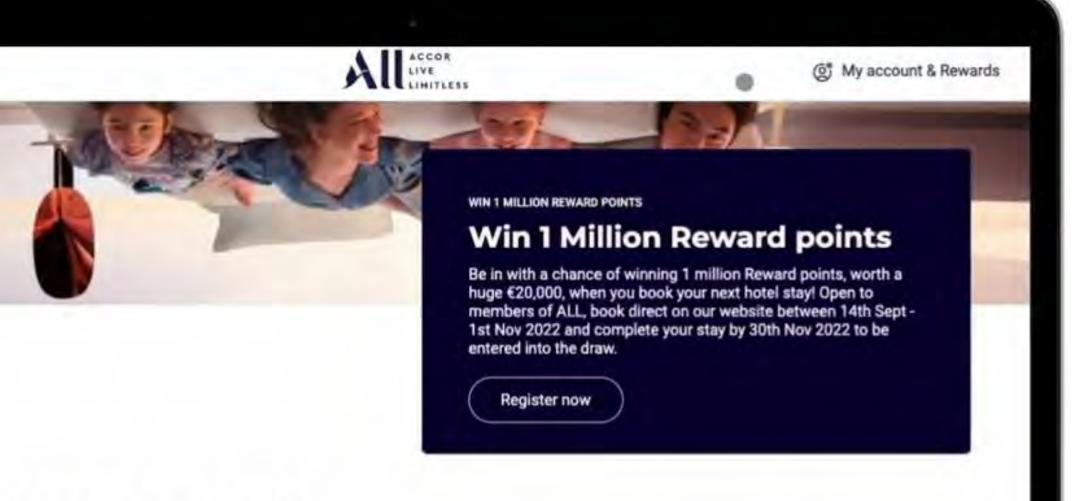


Fever developing Global white label ticketing solutions for partners in Travel

ACCOR · LIVE LIMITLESS

API integration with core Fever experiences available to buy on the Accor Live Limitless platform







Activities & Events

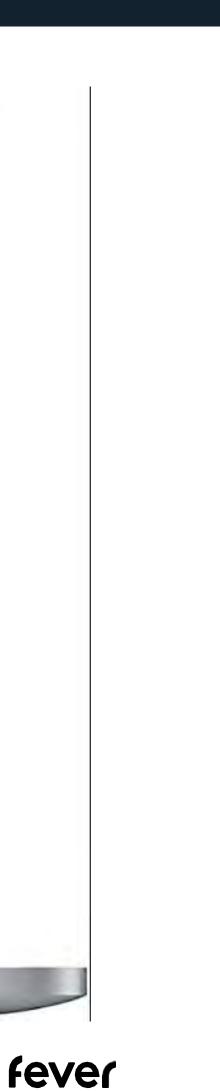


Hotel Office



Travel Inspirations

MacBook Pro



OLLIE KILLICK Global Head of Brand Partnerships ollie.killick@feverup.com +44 797 118 7948 www.feverup.com









Immersing Fans in the Worlds of Critically Acclaimed Shows

The Queen's Ball: A BRIDGERTON EXPERIENCE



Fever Global Partners



TY



MULBERRY

latou

VCP

Veuve Clicquot

REIMS FRANCE







BEAUTY, LIBERATED





















From A/B to Al

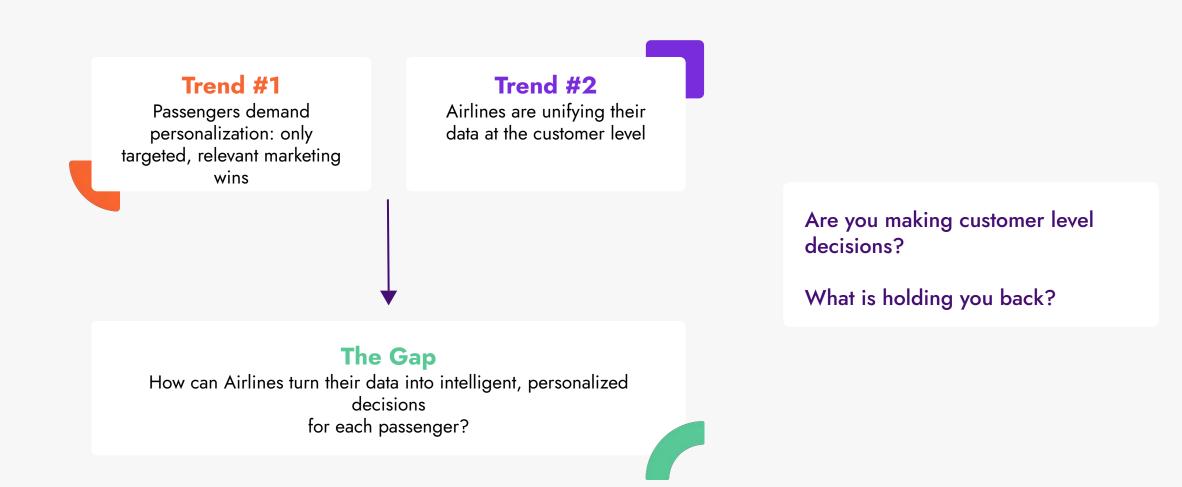
IATA Focus Week - Intro to OfferFit





Confidential

We are in the middle of an AI revolution



OfferFit's **Automated Experimentation Platform** is the fastest, most scalable way to accelerate testing and learning.

Automatically discover the right message, creative, incentive, channel, and timing for every customer to unlock the full value of your customer data.

Our customers come from a wide range of industries







Banking

Maximizing credit card referrals.

92% Uplift in conversion rate

Services

Maximizing customer value via contract renewals.

200% Uplift in customer CLV

Restaurants

Maximizing repeat visits by new customers.

10% Uplift in purchase rate

Telco

Maximizing upsell & cross-sell.

120% Uplift in incremental ARPU impact

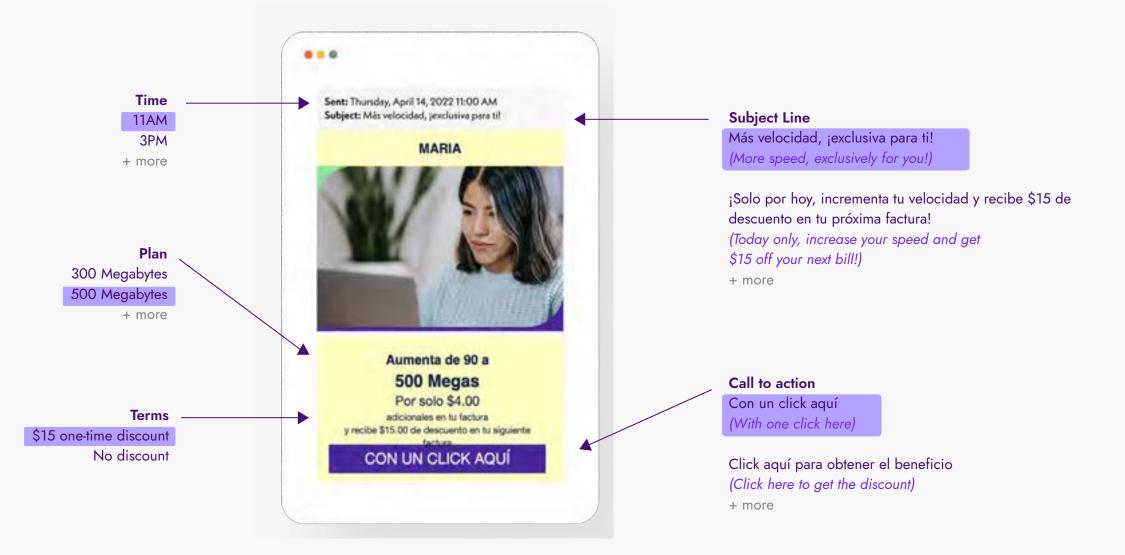


Gaming

Maximizing inorganic monetization

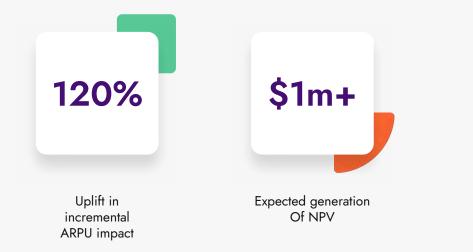
175% Uplift in conversion to monetized play

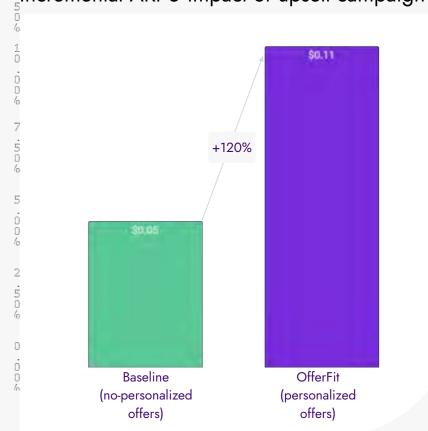
A leading LATAM Telco is using OfferFit to personalize upsell offers ...



... which has boosted their campaign ARPU by >100%

Based on this impact, this company is currently considering expanding its implementation of OfferFit to additional use cases and geographies.





Incremental ARPU impact of upsell campaign

Starter list of ideas for potential use for the Airline Industry

Leverage AI driven personalized communications to:

- **Optimize customer promotions:** Optimizing offers / coupons sent to customers based on engagement (e.g., transaction history, last purchase, basket size) to encourage conversions
- Increase repurchase/transaction frequency: Encouraging customers to repurchase airline tickets (across channels)
- **Cross-sell / Up-sell:** Nudge customers to purchase hotels, rental cars, or other services complementary to their product purchase (e.g. credit cards, seat upgrades, etc.)
- Minimize cart abandonment: Optimize customer communications to increase likelihood of completing an unfinished purchase
- **Encourage loyalty program adoption:** Encourage downloads of app or sign-ups for loyalty programs through personalized communication, incentives, reminders, etc.
- Other ideas?

A leading airline is using OfferFit to improve abandoned cart conversions and upsell opportunities

Capability Example

Context

- A leading carrier is using OfferFit to personalize follow-ups for each shopper who abandons their cart online
- Prior to OfferFit, every abandoned cart shopper received one reminder email several hours after abandonment

The airline is leveraging OfferFit to personalize the following for each individual customer:

- How long to wait after abandonment for initial e-mail (e.g., 2 hours, 5 hours)
- The cadence/frequency of reminders after the initial communication
- What messaging and copy to use (subject line, call to action, creative)
- If a vacation or ancillary purchase should be offered, and, if so, which one



Ryan@OfferFit.ai





Geneva, Switzerland 28 June 2023

Panel

What is the Value of an Industry Accelerator?

Paula Pardo Esteve

Manager Ideation, Strategy and Partnerships, IATA Inaki Uriz Millan Co-Founder & CEO, Caravelo Sebastien Texier General Manager Europe, Hopper **Gilbert Ott** Head of Partnerships, point.me





Geneva, Switzerland 28 June 2023



How to Deal with Customers' Demands?

Anderson Pacchioni

Senior Manager Digital Engagement, IATA Ursula Silling CEO, Branchspace

Andrew Webster

Director of Product Management, Accelya





Digital Identity Program

Gabriel Marquie

Senior Manager, Digital Identity, IATA



An Identity framework is based on 3 concepts

Holders present a proof of what they claim

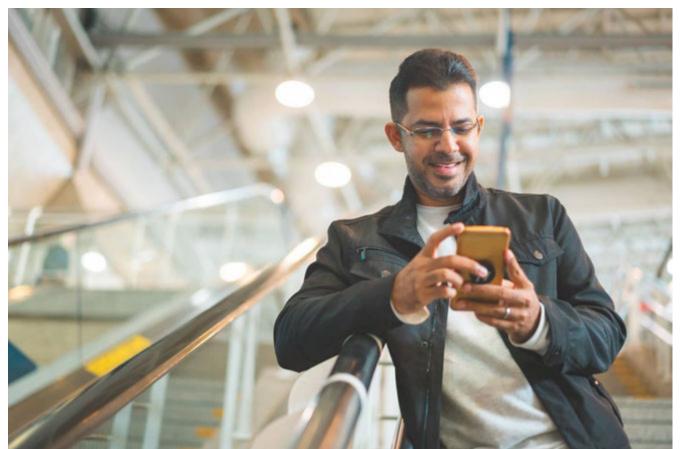


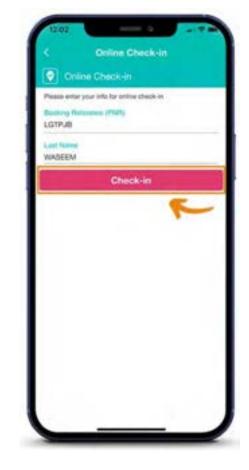
Verifiers request information and a proof

We rely on **credentials** to prove what we claim



We need to have the same level of trust in digital as we do in the physical world





There is no physical interaction between the holder (customer) and the verifier (airline staff) **TATA**

There are some live implementations already

Log in and Access Management



Payment and government ID



Health Care



Web logging by scanning a QR code:

- WhatsApp web log in
- Banking web portal

The mobile App is your digital ID No more password Mobile payment / mobile driving license:

- Apple/Google pay
- Mobile driving license

Digital Credit Card / driving licenses are credentials stored in mobile wallets Digital covid certificate

The QR code on the certificate is a verifiable credential



Where can it be used?



Airlines and their partners are moving ahead

Pilot mature concepts

- Identity management in distribution
- OnelD
 - Contactless travel
 - Digitalization of admissibility to travel

PoC for emerging concepts

- End to End digital ID PoC covering
 - Retailing
 - Service delivery
 - Value chain partner

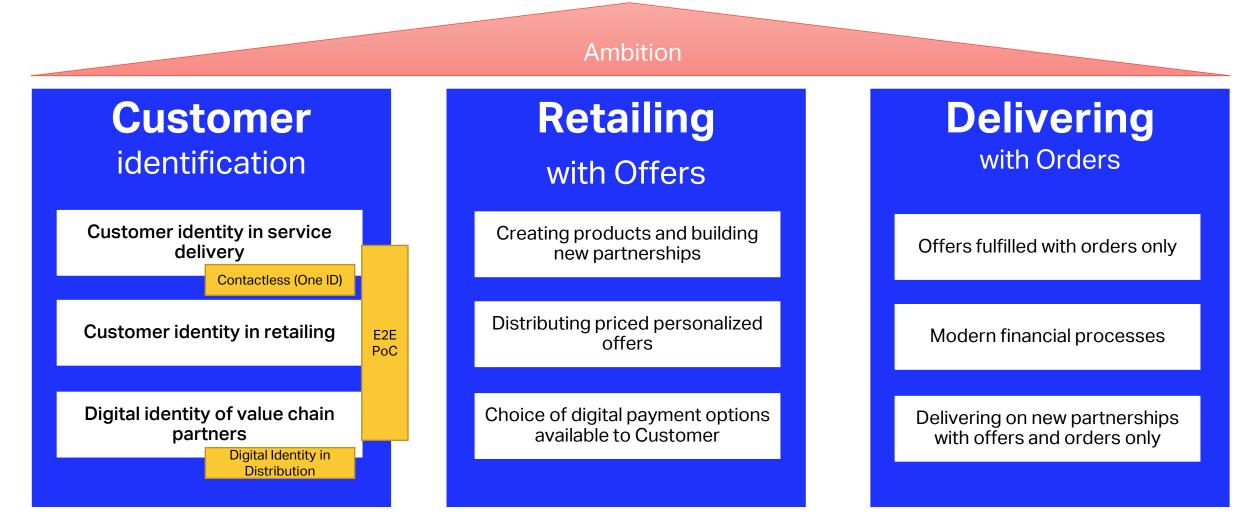
Standard setting

- Business standards
 - Distribution
 - Customer
 experience
- Technical standards
 - Credential exchange
 - Credential verification



Large scale deployment is expected within 3 to 5 years

Modern Airline Retailing Program





Panel:

How to Enable Innovation for Customer Centricity?

R. Kat Morse

Simon Gent Senior Manager

Innovation and Partnerships, IATA

Senior SA Specialist, AWS

Ursula Silling CEO, Branchspace

Edouard Baussier

Global Mobility and Travel Sales Director, **IDNow**

Harvey Tate Head of Tech Innovation, IAG

Louise Cole

Head Customer Experience and **Facilitation**, IATA

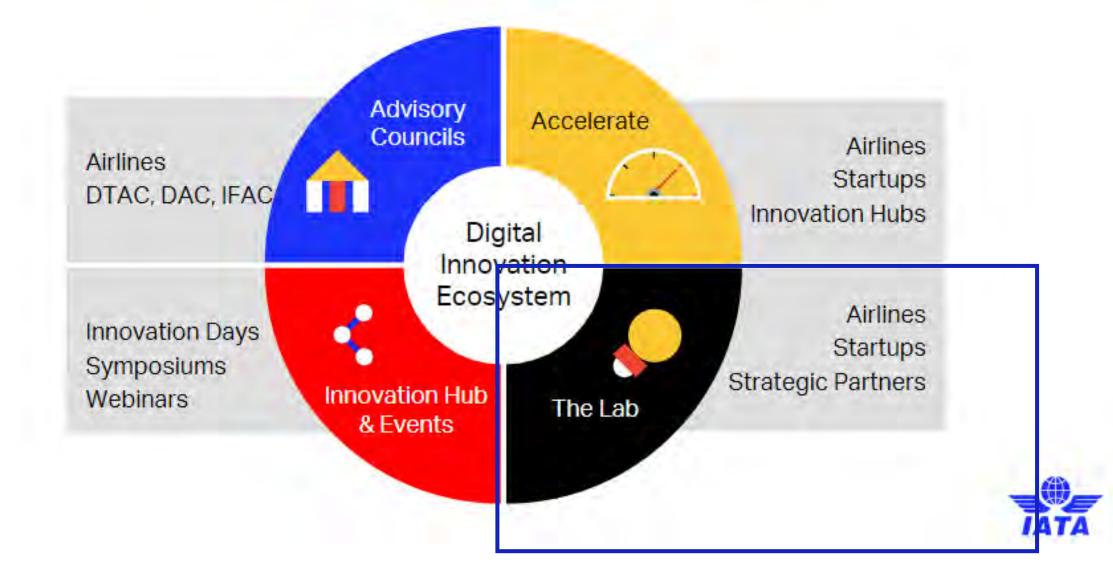


How to enable customer centricity through innovation



6 July 2023

The Innovation@IATA Ecosystem



The Lab* Testing Ground for POCs / Pilots

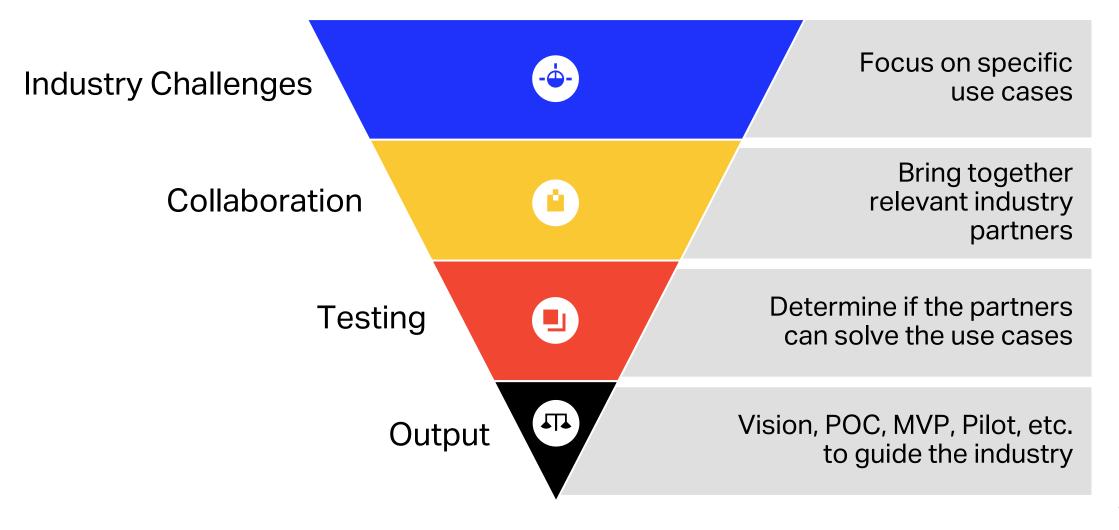
Connect airlines, tech providers, and startups who want to test solutions to solve industry problems Innovation Sprint methodology to test ideas and concepts quickly Objective: advance the amount of pilots / POCs in pre and post standard testing

Work together to solve industry problems using new technologies



* Evolution of Think Tank (pre-2023)

The Lab Innovation Sprints





Modern Airline Retailing Program Design





Objectives of the End-to-End PoC

Digital Identity



- Ensuring the customer has the right information at the right time
- Control over their data

- Seamless end to end travel
 experience
- Credentials created by one company can be used by another

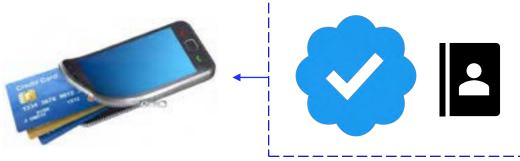
- Zero knowledge proof
- Control over their data / data they need from customer



Meet Liam!

Business Traveler going from Toronto to Sydney

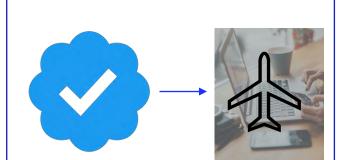




*Preferences and personal data stored in a wallet is pre-standard



Corporate Flow (Retailing)



Liam shops on Air Canada website. Employer VC will unlock corporate deals for Liam.

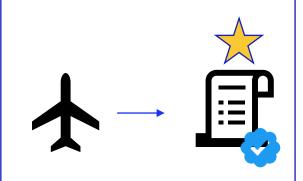


Airline verifies Employer VC

Sends offers to Liam

Liam accepts an offer

OMS knows it is Liam due to VC and creates offer

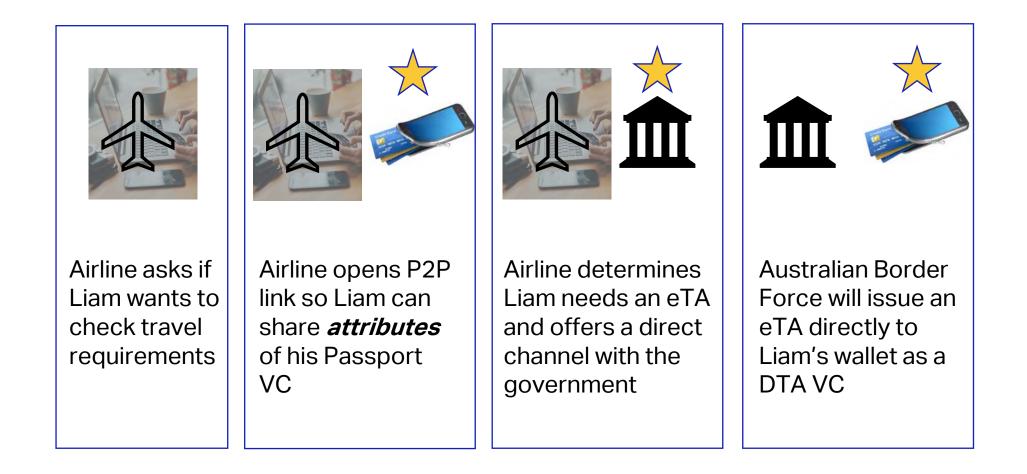


Airline creates an Order and passes this to Liam's digital wallet

Order is a Verifiable Credential



Corporate Flow (Service Delivery) Between booking & 2-3 days before departure





Corporate Flow (Service Delivery) 2 -3 days before departure



Airline asks for DTA VC + Passport VC

Liam finalizes intent to fly, no dangerous goods, etc. Airline makes status update to Order VC with seat number and other information. $\mathbf{+}$

Liam discloses his recent biometric image + trip details to Air Canada

Air Canada receives biometrics and prepares contactless process for Liam



Liam uses biometric gates to board in Toronto and lands in Vancouver.

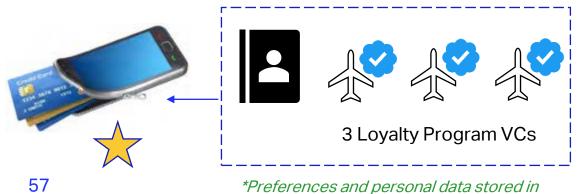
Without re-enrolling, Liam boards in Vancouver and lands in Sydney



Meet Liam (again)

Leisure Traveler going from London to Rome

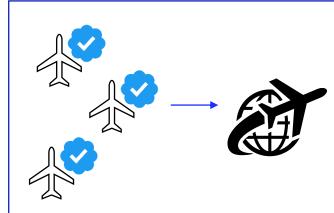




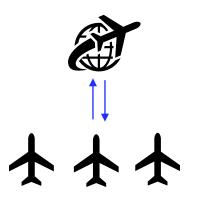
a wallet is pre-standard



Leisure Flow (Retailing)



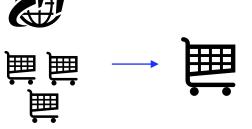
Liam shops on Trip.com mobile app for flights, pushing his 3 Loyalty VCs to the OTA



Trip.com requests offers from airlines.

Airline 1 creates offer Airline 2 creates offer BA creates offer

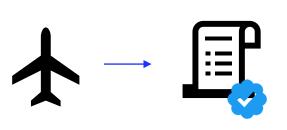
Airlines send to Trip.com



Trip.com displays the 3 offers

Liam accepts offer from BA

Liam sends Loyalty VC + attributes of his Passport to BA to create the Order

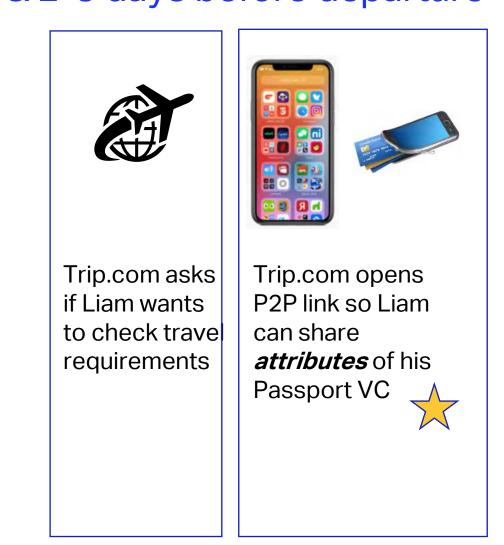


Airline creates an Order* and passes this to Liam's digital wallet

Order is a Verifiable Credential

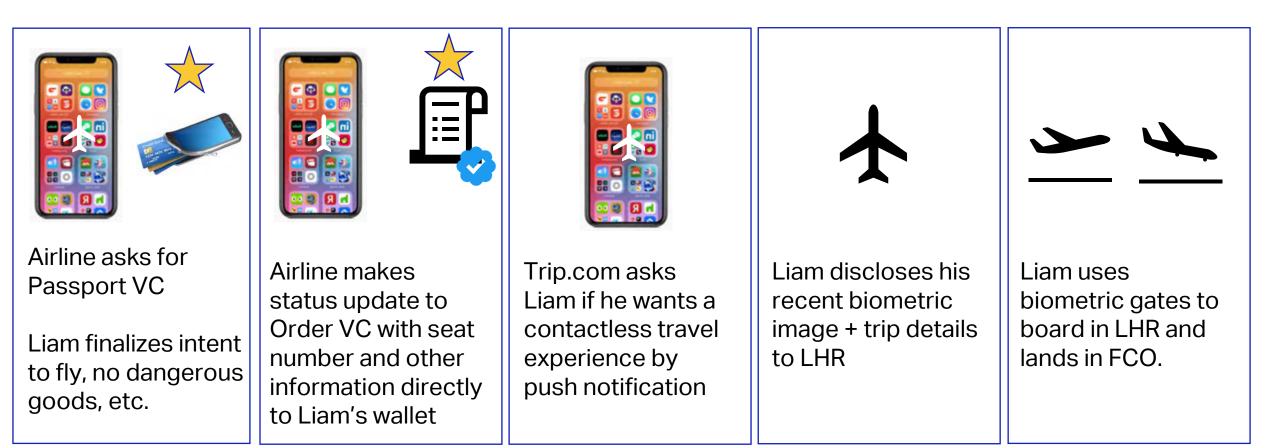


Corporate Flow (Service Delivery) Between booking & 2-3 days before departure





Corporate Flow (Service Delivery) 2 - 3 days before departure





Panel:

How to Enable Innovation for Customer Centricity?

R. Kat Morse

Simon Gent Senior Manager

Innovation and Partnerships, IATA

Senior SA Specialist, AWS

Ursula Silling CEO, Branchspace

Edouard Baussier

Global Mobility and Travel Sales Director, **IDNow**

Harvey Tate Head of Tech Innovation, IAG

Louise Cole

Head Customer Experience and **Facilitation**, IATA



LUNCH BREAK



Panel:

Transition Supported by Innovation

Matt McKinley

Senior Manager Digital Transformation Programs IATA

Alex Walling

Chief Strategy Officer Rapid

Patrick Brosse

API Design & Data Model Senior Expert Amadeus





Portal for Developer Communities

Peter Sun

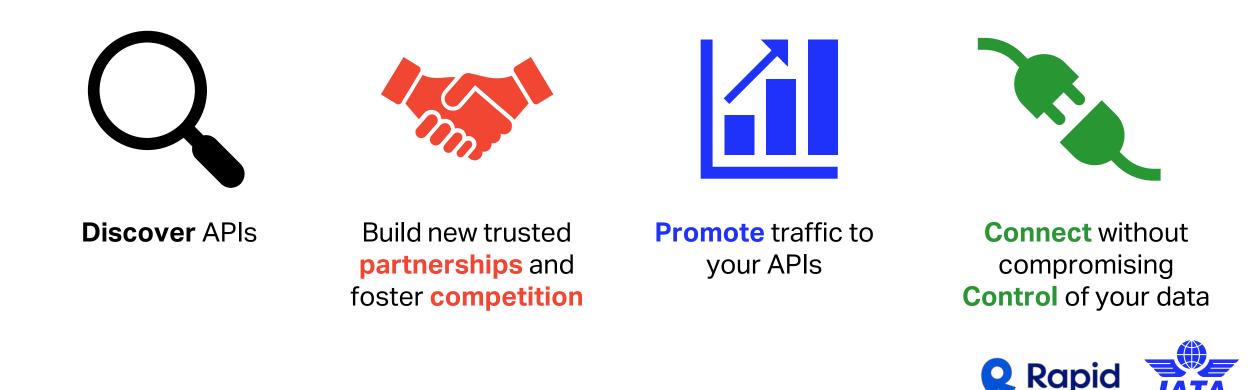
Senior Manager Open Data Ecosystem IATA



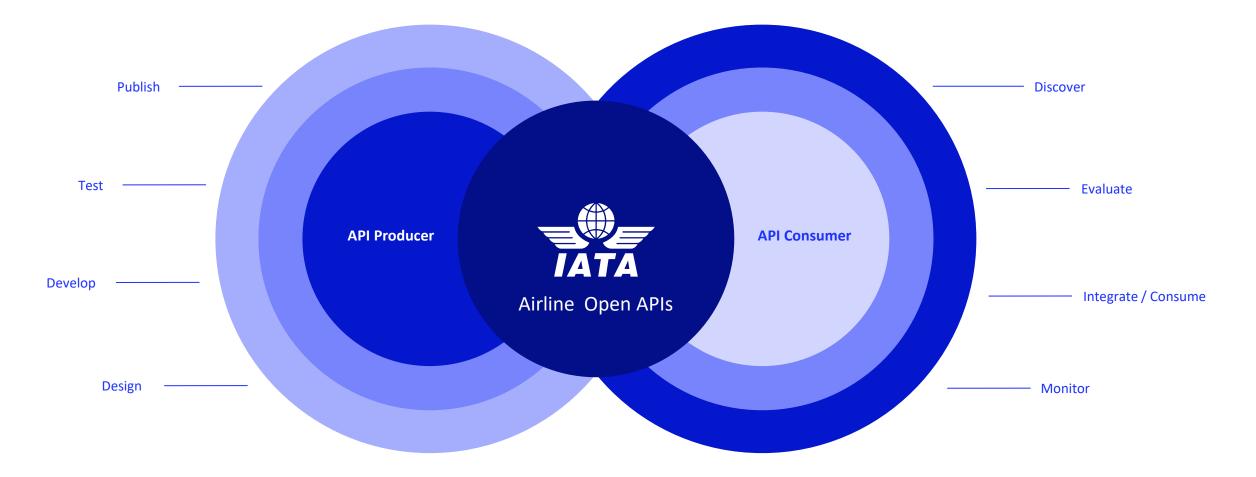


IATA Open API Hub

The airline industry's one-stop portal to discover and connect through APIs, in partnership with the RapidAPI Enterprise API Hub









Promote your APIs on the hub!

Figures

Customer

Experience

Retailing

Cargo

8

- > 190+ users from 129 Organizations
- > 57 APIs published

Active Organizations

Lufthansa AIRFRANCE Austrian 🖊 **QATAR Open APIs by category** SINGAPORE ्र Emirates KSREAN AIR virgin atlantic **CHINA SOUTHERN AIRLINES** ÷ Vietnam Airlines HAWA **AIR NEW ZEALAND** REACH FURTHER AIRBUS Reference Flight Financial 山国航 Groud Data processes TravelSky Operations **Q** Rapid BDEING





Contact: openapi@iata.org





Roundtable

Generative AI

Kim Macaulay Chief Information and Data Officer IATA

Daniel Friedli

Managing Director Travel in Motion



Roundtable Generative Al

- 1. Customized Offers
- 2. Disruption Management
- 3. Route Optimization
- 4. Dynamic Pricing & Yield Management
- 5. Personalize Customer Travel Plans
- 6. Coaching and training / workforce
- 7. Back-office customer support
- 8. Travel agent support
- 9. Language models built on human language
- 10. Markerplaces



Geneva, Switzerland 28 June 2023





Thinking in Decades:

Exploring the Future of Aviation

Tino Klähne

Director of Strategic Innovation & Intelligence Lufthansa Innovation Hub





THNKING IN DECADE(S)

IATA – Innovation Day 28.06.2023 - Geneva

THNK IN DECADES?



AKING TRAVEL DESTINATIONS



STRATE NEW TRANS GIC INTEL BUSI FOR LIGENCE NESS MATION

HOW MEDO III

ЩН

CONNECT THE UN/OBVIOUS AT SCALE

LAGGING INDICATORS

LAGGING INDICATORS

INPUT Making sense of **interest**

FUNDING DYNAMICS Venture Capital, CVC

#PitchBook crunchbase Indealroom

SCIENTIFIC INTEREST Research Grants, Projects, Papers



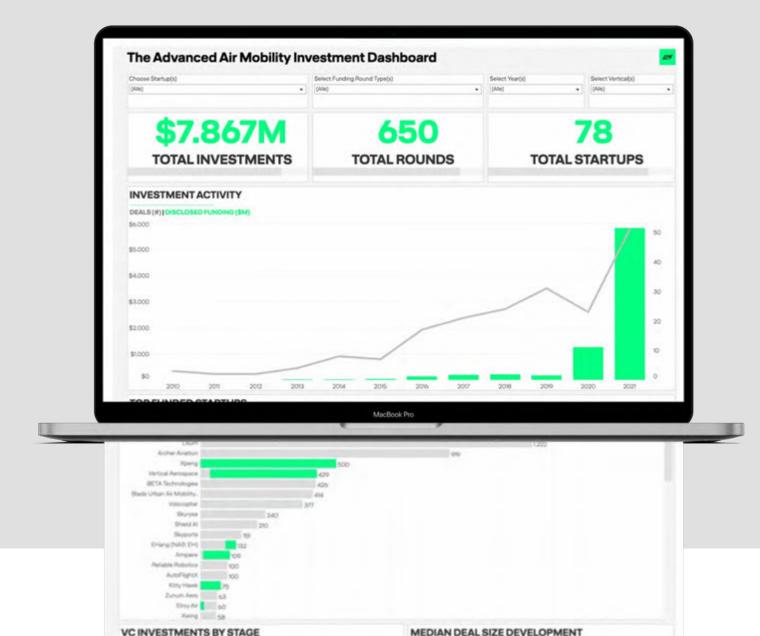




Startup Investment Trends in Travel and Mobility Tech

TNMT

- An in-depth analysis of venture capital trends in the Travel & Mobility Tech ecosystem.
- LIH core research piece updated every year – Fourth edition
- Venture Capital / Funding dynamic as a proxy for overall sector attractiveness with +2800 startups
- Follow the money Categoryspecific funding trends to spot opportunity areas



AAM Investment

Interactive Tableau Dashboard that tracks all Venture Capital Investments in Advanced Air Mobility

TNMT

Reaching for the stars: The New Air Travel Leaderboard

New Air Travel startups ranked by VC funding raised

- 23	Altitude: 0km		1-4km		5-14km Emerging Technologie		15-99km	100+km
							es	
	Physical	Digital	Air Taxis	Private Jets	Electric	Hydrogen	Supersonic	Space
1	© Skyports	AIRMAP	Joby	WHEELS UP	910.000		Oure	SPACEN
2	EVNE	www.s	1	VISTAGET	≻=	weet.	ы воом	BLUE ORIGIN
3	() server	MERLIN LARE	+cicium		-7020ž.	© kingi	O tester	O _{state}
4	@hongs	-	DETA	SURFAIR	Hss	() angen		AXIOM
5	@	Skyryse 🛡	Ø volocortes	VICTOR	P 19804 444	Transaction to the	nna	withoutor
6	O HoveSpot.	(unarcu	CHANG IZIN	JSX	-P	Au (COR)	u for i	******
7	ARRONIX	Martine and	x + 7 7 9 10 4 10 11	# Jutian	Wright	ALAKA'I	<u>+</u>	SPACE
8	1	응Aloft		Paracetor	нэх	H2FLY	netsa	· Rilleres
9	C.	NEKTION	BXTI	apollojets	raradar.)	Ж	-	Prescrimting
10	OHES	*.MERONTON	KARED	Genter	4 autores	PARSTREL		Spacepert Swades

Source: Lufthansa Innovation Hub, TNMT.com, PitchBook Data Inc.

$\frac{1}{7}$ AAM Leaderboard

Deep dive into the leading (by attracting Venture Capital) actors in across all AAM categories

LAGGING **INDICATORS**

Making sense of **interest**

INPUT

FUNDING DYNAMICS Venture Capital, CVC

PitchBook crunchbase Indealroom

TECH DYNAMICS Patents, Wikipedia Edits

Making sense of **activities**

SPATENTSIGHT WIKIPEDIA

OUTPUT

SCIENTIFIC INTEREST

Research Grants, Projects, Papers



ACTOR DYNAMICS Incorporations, Launches, Partnerships Personnel Dynamics

feedly # Thinknum

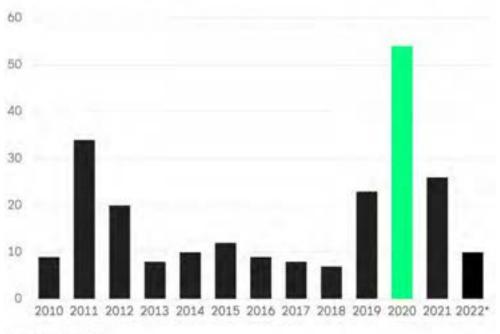
The power of Wikipedia predicting hype cycles

TNMT

LH

The Wikipedia article on "Aviation Biofuel" was heavily edited in 2020

Number of edits in Wikipedia's article on "Aviation biofuel"

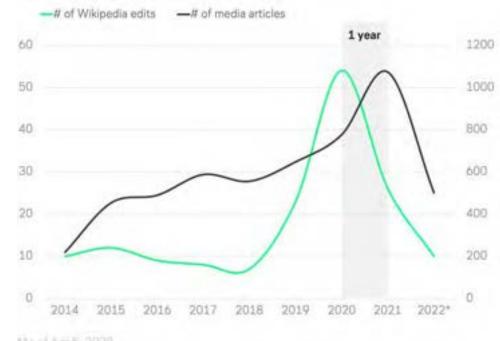


^{*}AvaPAct 5, 2022 Search: Editoration Filosoften File Addiss., TNM Leon, Wildard

TNMT

Wikipedia seems to have predicted the SAF media hype in 2021

Tracking the hype on aviation biofuel



Second Lofthansa Innovation Hub Analysis, TNMT.com, Wikipedia, NetBase Quid mc.



AAM Stakeholder Ecosystem

Whitepaper in collaboration with Osinto – Mapping the Stakeholder network of the Advanced Air Mobility Ecosystem across different types of actors & geographies

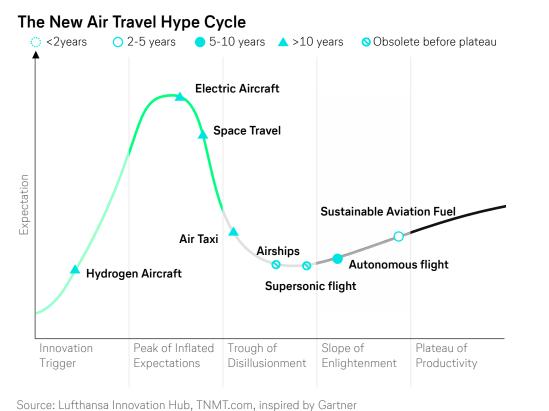
LAGGING INDICATORS

INPUT Making sense of interest	OUTPUT Making sense of activities	OUTCOME Making sense of perception
FUNDING DYNAMICS Venture Capital, CVC	TECH DYNAMICS Patents, Wikipedia Edits	MEDIA SENTIMENT Expert & Mainstream Publications Earnings Calls, Recognitions
SCIENTIFIC INTEREST Research Grants, Projects, Papers	ACTOR DYNAMICS Incorporations, Launches, Partnerships Personnel Dynamics	USER BEHAVIOUR Search, App DLs & Usage, Site Visits

The Hype-Cycle of Future Aviation

114





Gartner hype cycle framework applied to all major New Air Travel Technologies

- Analysis of eight key emerging technologies that have the potential to change the way we travel from A to B through the air
- Sustainable Aviation Fuel (SAF) is the most ready-to-use technology and included due to its potential to reduce aviation's CO2 footprint.



LAGGING INDICATORS

INPUT Making sense of interest	OUTPUT Making sense of activities	OUTCOME Making sense of perception	IMPACT Making sense of results
FUNDING DYNAMICS Venture Capital, CVC	TECH DYNAMICS Patents, Wikipedia Edits	MEDIA SENTIMENT Expert & Mainstream Publications Earnings Calls, Recognitions	CONSUMER SENTIMENT Reviews, Social Listening, NPS
SCIENTIFIC INTEREST Research Grants, Projects, Papers	ACTOR DYNAMICS Incorporations, Launches, Partnerships Personnel Dynamics	USER BEHAVIOUR Search, App DLs & Usage, Site Visits	MARKET DATA Growth Rates, Market Shares, Sales statista ∑



Tripadvisor Analysis

Sentiment & relevance analysis of 15.000 public reviews for 12 airlines. Derived strategic insights for product development.

TNMT Market Index



TNMT

Sector Attractiveness Indicator

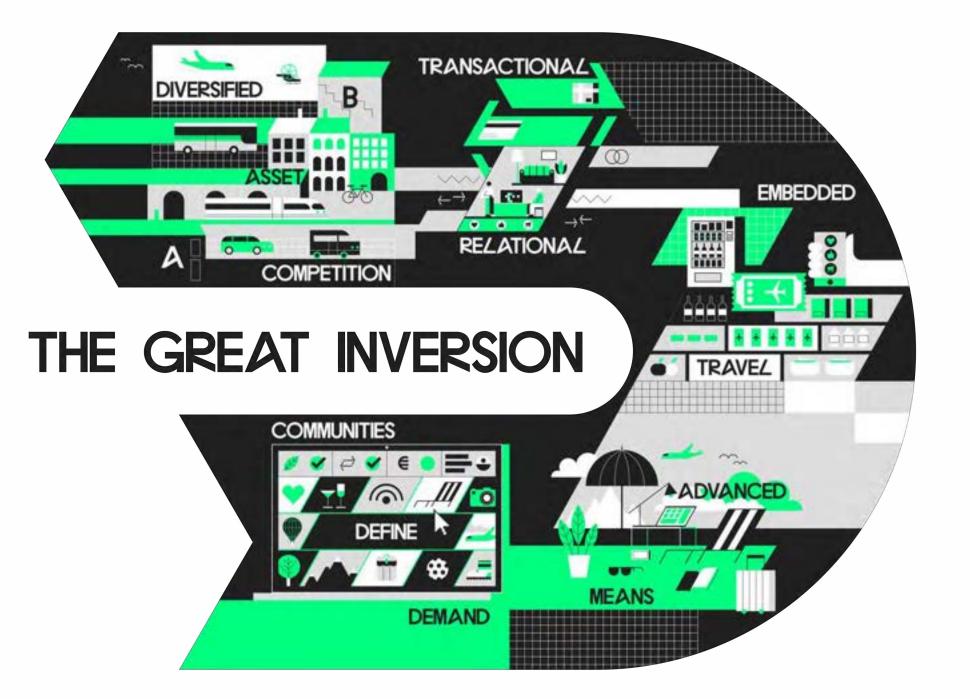
- TNMT index 2 sub-indices
- Live product on TNMT.com (soon)
- Quarterly Commentary in newsletter

LAGGING INDICATORS

INPUT Making sense of interest	OUTPUT Making sense of activities	OUTCOME Making sense of perception	IMPACT Making sense of results
FUNDING DYNAMICS Venture Capital, CVC	TECH DYNAMICS Patents, Wikipedia Edits	MEDIA SENTIMENT Expert & Mainstream Publications Earnings Calls, Recognitions	CONSUMER SENTIMENT Reviews, Social Listening, NPS
SCIENTIFIC INTEREST Research Grants, Projects, Papers	ACTOR DYNAMICS Incorporations, Launches, Partnerships Personnel Dynamics	USER BEHAVIOUR Search, App DLs & Usage, Site Visits	MARKET DATA Growth Rates, Market Shares, Sales statista ∑

WHAT VE SEE





The Great Inversion

The Pivotal Transformation of the TNMT Value Chain



ШН









Self-Empowered Traveler

- → The disruption of decision making
- Longtail of Travel
 - → Verticalization of audiences
- Review Economy
 - → Word of mouth coming to travel

- Blurred Travel
 - \rightarrow Emerging use cases
- Virtual Substitutes
 - → Virtualization of travel use cases
- 📑 Trip3
 - → Towards the next industry stack

- Relational Trinity
 - \rightarrow The post-ticket era
- Share of Life
 - → Super apps, Platforms & Ecosystems
- (No)wnership Spectrum
 - → The Sharing Economy is growing up

- Social Distribution
 - → Creator Economy
- Bookable Content
 - \rightarrow Direct Inspiration
- Travel-as-a-service
 - → Ubiquitous Travel Retail

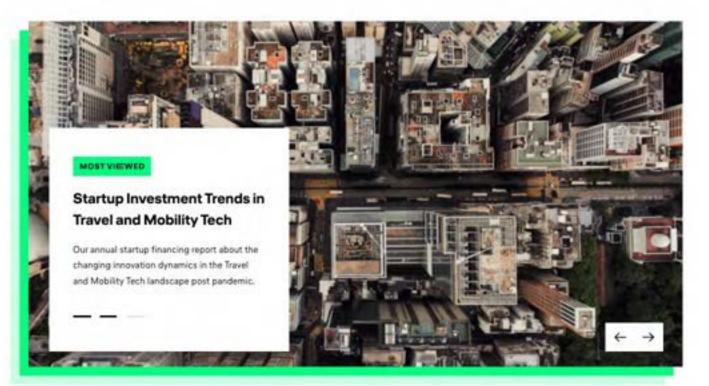
- High-Flyers
 - → A sky full of competition
- Asset Dexterity
 - → Reviewing asset strategies
- The soft asset gap
 - → Human factor in business

Learn more

visit TNMT.com and sign up for our bi-weekly newsletter

TNMT

The industry deep dive into Travel and Mobility Tech



 \rightarrow SCAN ME





Lufthansa Innovation Hub

Thank you!

Tino Klaehne Lufthansa Innovation Hub Director Strategic Innovation & Intelligence

tino.klaehne@lh-innovationhub.com

Geneva, Switzerland 28 June 2023

Panel:

Industry Innovation Challenges & Opportunities

Stephan Copart

Head of Digital Transformation, IATA

Hamidul Huq

Innovation Coach Genève Aéroport

Peter Choroba

Head of Innovating and Emerging Activities, EUROCONTROL

Stefan Nothelfer

Director Partnerships & New Business Ventures Lufthansa Innovation Hub





Geneva, Switzerland 28 June 2023

Panel:

What About Diversity?

Jane Hoskisson

Director Talent, Learning, Engagement and Diversity IATA

Orla Benson

SVP Environment Social Governance SMBC

Anna Ghion Account Manager for IGO AIR, AWS





Geneva, Switzerland 28 June 2023

What's Next?

Anderson Pacchioni

Senior Manager, Digital Engagement, IATA



IATA INNOVATION DAY

Geneva, Switzerland 28 June 2023

THANK YOU!



