IATA

AVIATION

DATA

SYMPOSIUM

ATHENS, GREECE 25-27 JUNE 2019

PASSENGER

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Opening Remarks

Aleksander Popovich, SVP, Financial Distribution Services, IATA







The digital airline vision



Airline Industry Retailing (AIR) Portfolio

Digital financial organizations

Financial simplification and disruption



Digital Infrastructures

Innovation ecosystem, Airline Industry Data Model, API Ecosystem







The innovation ecosystem





Ideation







Developer Lab



Communication



Partnership

Digital transformation

Supply chain Offers **Ticketing** Check-in **Payment** invoicing Filed fares, Paper Paper Paper Legacy process Plastic cards **Ticket Boarding Pass** invoice inventory Mobile Electronic E-Ticket Automation E-wallets E-invoicing **Boarding Pass Digital** No filed fares No ticket No cards No check-in No invoice **Digital** Dynamic **IATA Projects** NDC / OO One ID IATA Pay Offers Finance





Digital transformation

Supply chain Offers **Ticketing** Check-in **Payment** invoicing Filed fares, Paper Paper Paper Legacy process Plastic cards **Ticket Boarding Pass** invoice inventory Mobile Electronic E-Ticket Automation E-wallets E-invoicing **Boarding Pass Digital** No ticket No filed fares No cards No check-in No invoice **IATA Projects** Airline Industry Data Model, API Ecosystem





Matching supply and demand – data driven network optimization

Moderator: Henry Coles, Head of Airline Distribution Standards, IATA

Eric Nordling, COO, Revenue Management Systems, Inc, an Accelya Group Company

Jorga Ahlborn, Head of Business Development & Analytics, Network Management, Lufthansa Group

Vadim Skritskiy, Data Scientist, Infare









Networking Break

SITAONAIR®



















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The Future of Offers and Orders: Industry Opportunities with Dynamic Offer

Sébastien Touraine, Head, Dynamic Offer, IATA







The Future of Offers and Orders

Sébastien Touraine

IATA FDS Transformation

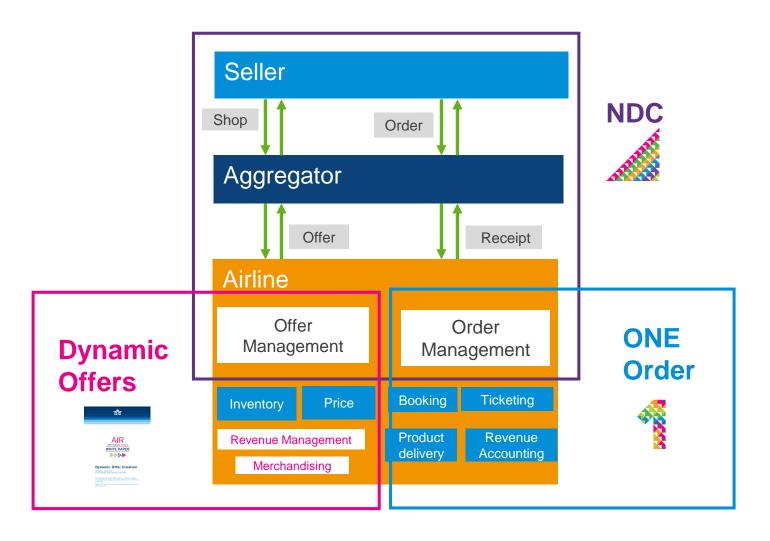
Head - Dynamic Offers Project

IATA Aviation Data Symposium Athens- 29. June 2019



Airline Retailing Vision

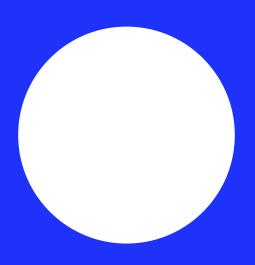








Dynamic Offers



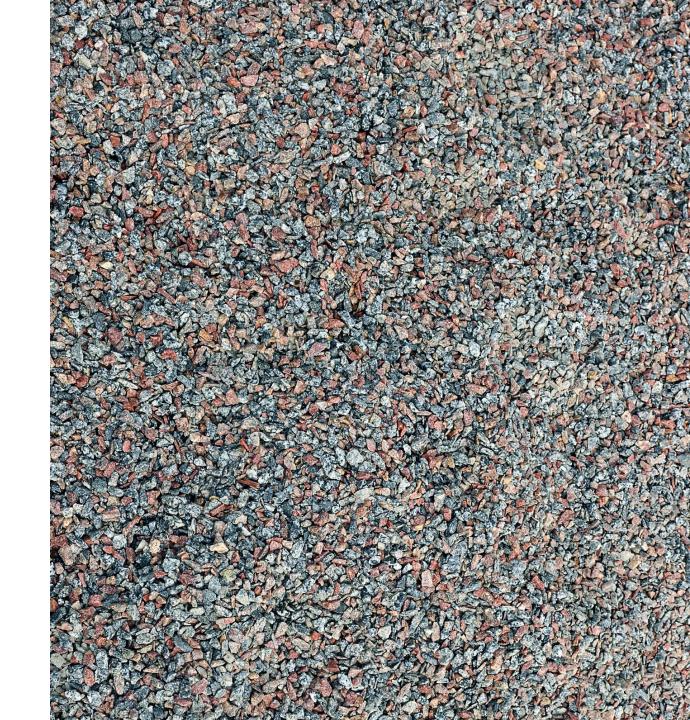


Challenge #1 Granularity of price points

To RBD or not to RBD? this is the question!

Suboptimal results with today's fares filing?

Continuous or Discreet Price point?

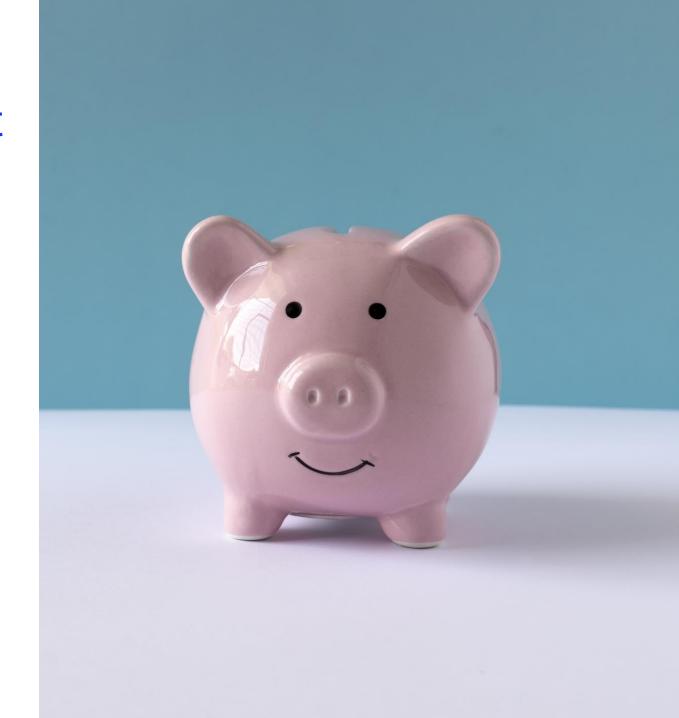


Challenge #2 Total Revenue management

Overlapping systems and processes

Optimizing revenue of a complete offer

Control over interline and 3rd party partners

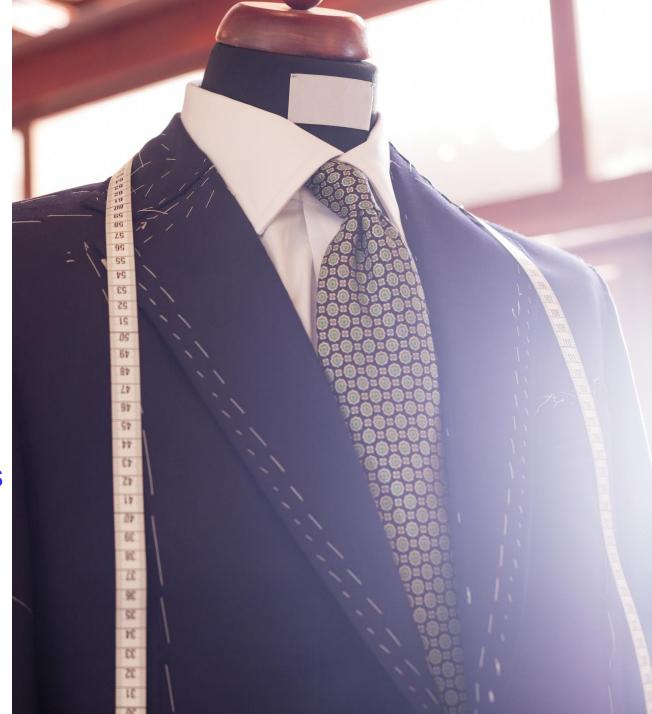


Challenge #3 Personalization

Knowing "who is asking?" with EDIFACT

Shopping context is key

Agility to change product characteristics for contextualization



Dynamic Offers scope



Continuous price points

Total offer management





Dynamic Offer Creation

IATA Geneva - October 2018 Authors: Sébastien Touraine and Henry Coles - IATA

This paper proposes Dynamic Offer Creation, a concept that leverages emerging distribution standards and enhances the relevance of offers made to consumers.

Dynamic Offer Creation involves removing the current separation between inventory and price.





The next chapter in Revenue Management?

1980 2000 2020



- Capacity control
- Leg based
- Fare rules segmentation

O&D Revenue Management

- Network optimization
- BidPrice
- DynamicAvailability

Merchandising

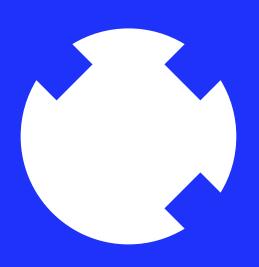
- Ancillaries
- Fare families

Dynamic Offer Engine

- Continuous Pricing
- Dynamic bundles
- Total Offer Management



ONE Order





Industry today: two references

Booking

Electronic ticket

What: in general a 6 character-code

What: in general a 15 figure code

Why: proof that a reservation has been made

Why: proof that a payment has been made (receipt)

```
PASSENGER TICKET AND BAGGAGE CHECK

MATA-BSP

IMTA-BSP

IMTA-BSP

IMTA-BSP

ATT-BLO ARC CTSCHOOL

ATT-BLO ARC CTSCHOOL

ATT-BLO ARC CTSCHOOL

ATT-BLO ARC CTSCHOOL

ARC CT
```

A third reference – EMD – is used as payment receipt for ancillaries



ONE Reference

 Consistent communication between airlines, travel partners and service delivery suppliers



Improved customer service





Simplified ecosystem

 Modernize travel ecosystem to cater with digital processes

 Facilitate product delivery with real time tracking of services



Reduce processes and systems complexity





Expanded partnership

• Connect with wider industries and enable greater interoperability



Take travel retailing to the next level

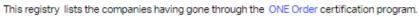




ONE Order Certification – Status

ONE Order Registry

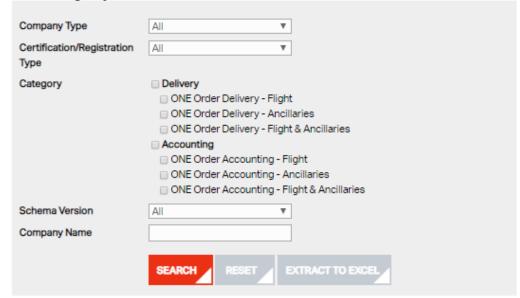




- Airlines Any airline that deploys and support ONE Order communication messaging and capability
- Vendors and IT providers any vendor that offers ONE Order solutions and services (OMS, Delivery Provider, Accounting) can become ONE Order capable

Please see the ONE Order Registry Disclaimer and Terms of Use (pdf).

Search Registry



Search Results (14 companies)







amadeus

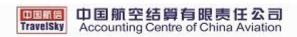


Lufthansa











Lufthansa Systems





Future of analytics with

Offers & Orders

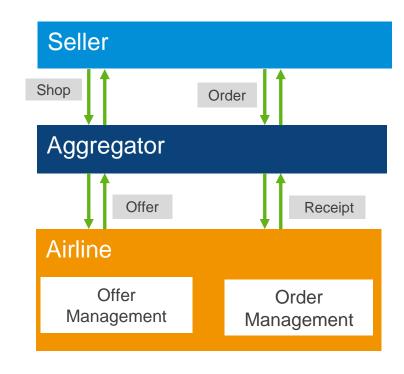


Opportunities with Offers

Know "who is asking?"

Store offers not accepted with shopping context

More data & dimensions in Revenue Management algorithms

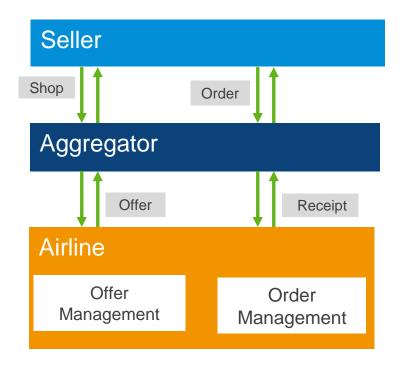


RBD Less Pricing Distribution





Opportunities with Orders



Consolidated flight and ancillaries

Real time reporting

Structured data feeding Revenue Management systems

Freedom to create and fulfil any retail-oriented products





Thank you

Sébastien Touraine touraines@iata.org www.iata.org







Monitoring/Comparing Retailing Offers

Nils Gelbjerg, CEO, Infare







PRICING INTELLIGENCE | THE REASONS WHY

On-demand driven charges Bundles

Personalisation

Holistic offer management

External effects

Supply driven Ancillaries



WHAT THE FUTURE HOLDS

New Revenue Sources Ancillaries & Fare Families

Leverage
"unbundled"
Pricing Insight to
maximise new
revenue streams

NDC

New Channels

The technical "backbone" of offer management

An increased need for

Pricing Intelligence solutions

8

More Frequency & more Data

Personalisation

The ability to change pricing according to various factors

Targeting

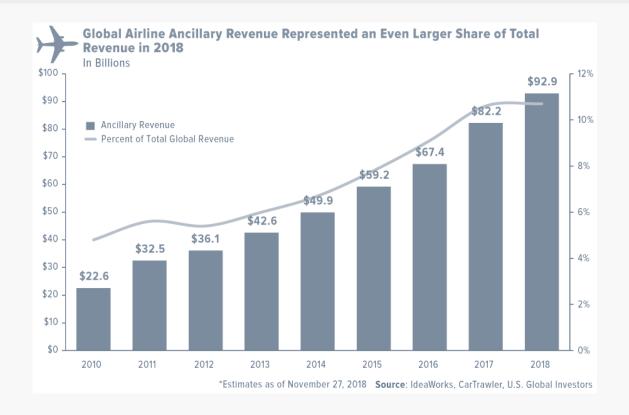
Dynamic Pricing

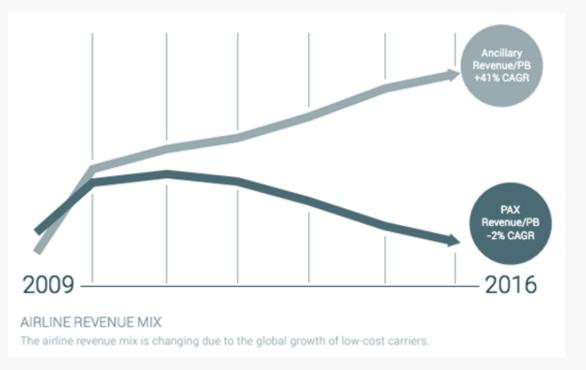
The ability to change pricing according to various factors

Speed



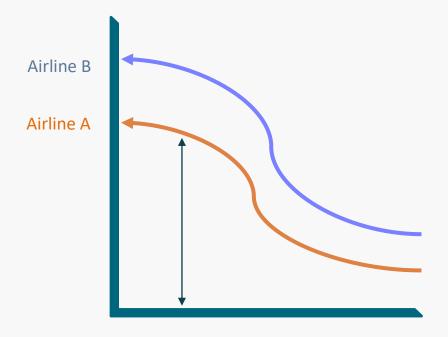
THE RISE OF ANCILLARY REVENUES

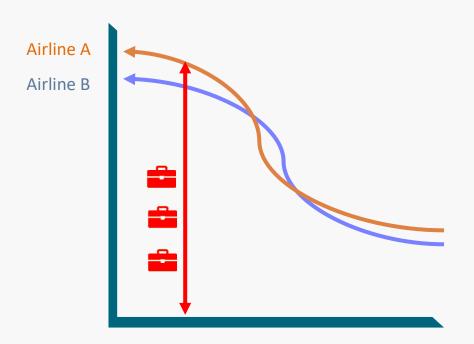






ANCILLARY REVENUE & THE FARE COMPARISON DILEMMA



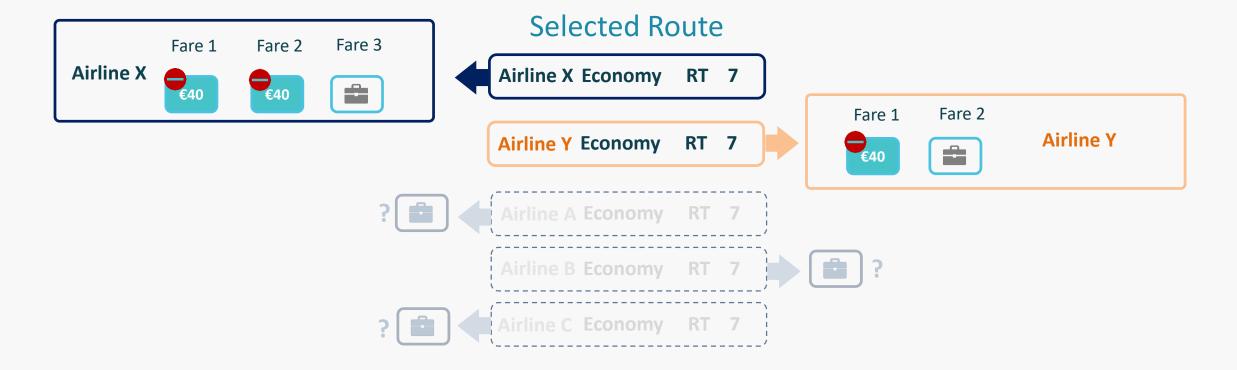


Pricing Curve

Pricing Curve <u>after</u> baggage price is added



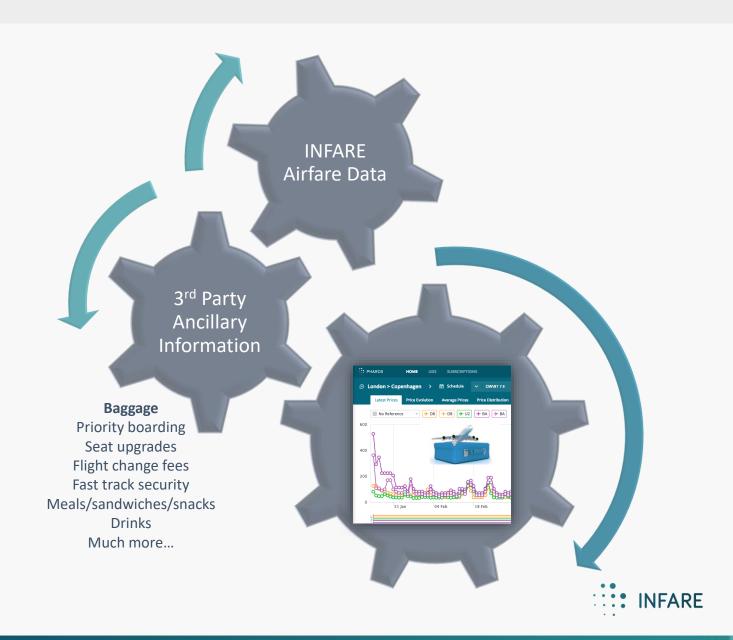
MEANINGFUL BAGGAGE ANCILLARY BREAKDOWN





COMPLETE DATA INSIGHT TO MAXIMISE YIELD

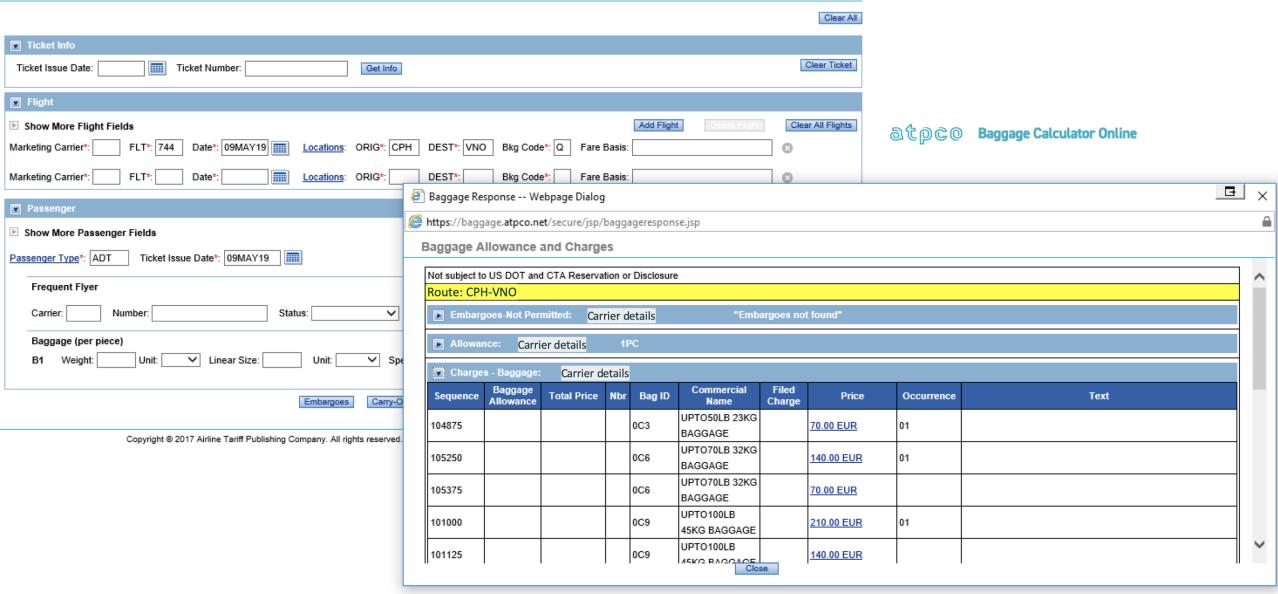




PARTNERING TO OFFER "UNBUNDLED" PRICING INSIGHT



INFARE & ATPCO



BRINGING TRANSPARENCY TO FARE COMPARISON

Non-transparent Bundled fares

Enhanced fares comparability

Hybrid models



INFARE ·····

Shrinking profits

Offer more relevant products and services for succesful ancillary revenue strategy



WE ARE INFARE

The leading supplier of airfare data and pricing intelligence tools in the aviation industry worldwide



WHAT WE DO | OUR UNIQUE GIVE-TO-GET MODEL



~2 Billion unique airfares collected daily

From 1.300+ online Sources



Covering 90% of commercial aircraft routes

Which equals 130.000+ routes



~3.5 Billion observations distributed daily

Via bespoke data files and our flagship BI Tools



Machine
Learning &
Artificial
Intelligence

Among our major areas of investments





Thank you!



Enhancing Airline Offerings

Daniel Friedli, MD, Travel in Motion









IATA Aviation Data Symposium

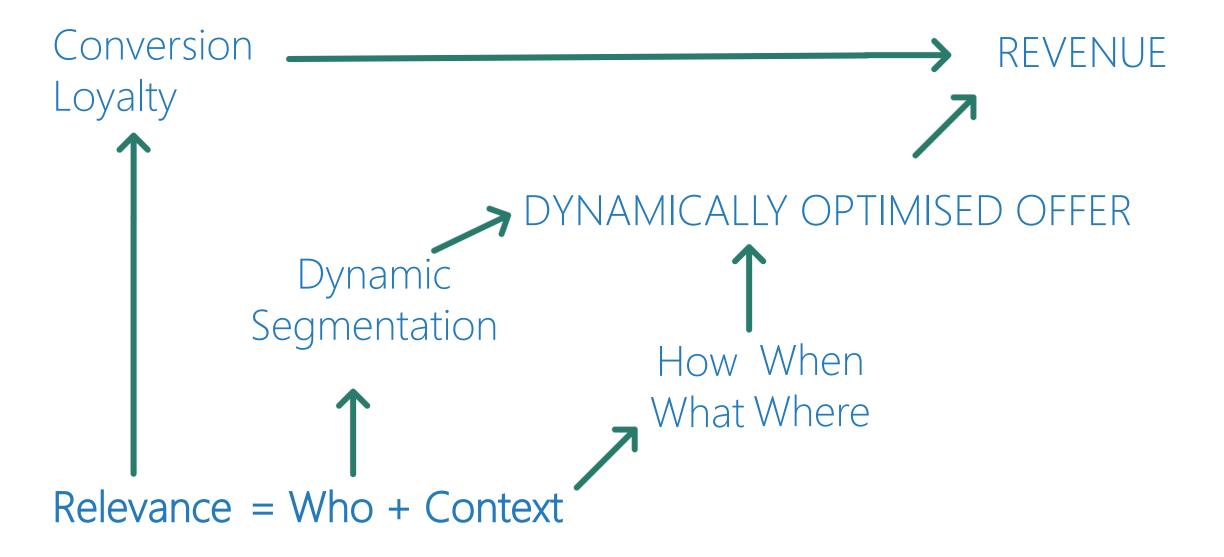
June 2019



REWHUECE

R = \// + (

Relevance = Who + Context





Key Performance Indicators









Derive Context from Environmental Variables

HOW

How is the contact being made (channel, device, etc.)?

WHAT

What are they asking for – what do they really want – Need and Desire

WHEN

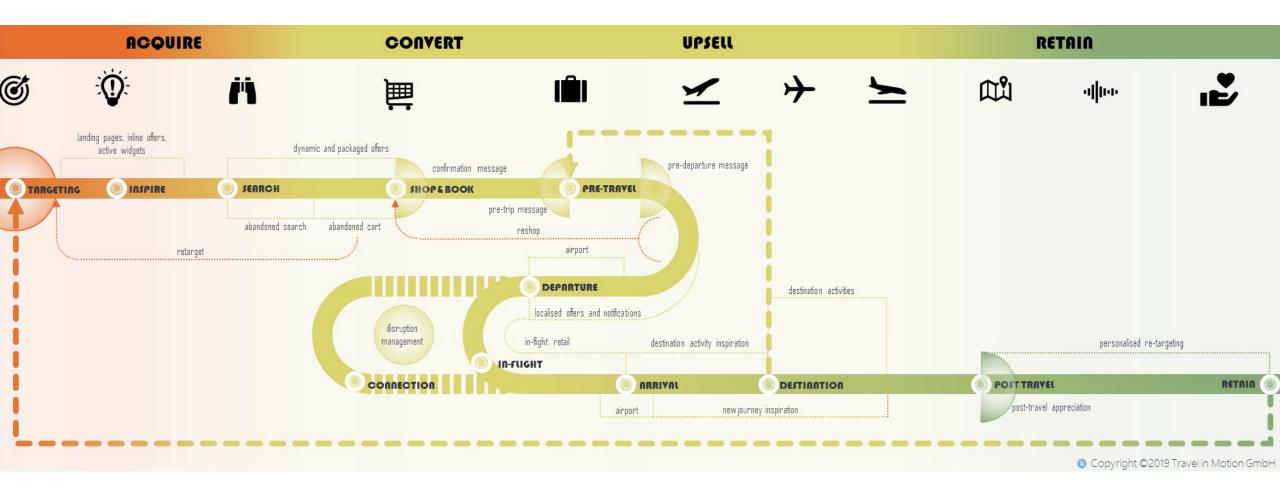
When, in the customer journey lifecycle, is the traveller contacting us?

WHERE

Can we understand where this person is on the context of the journey or question they are asking us?

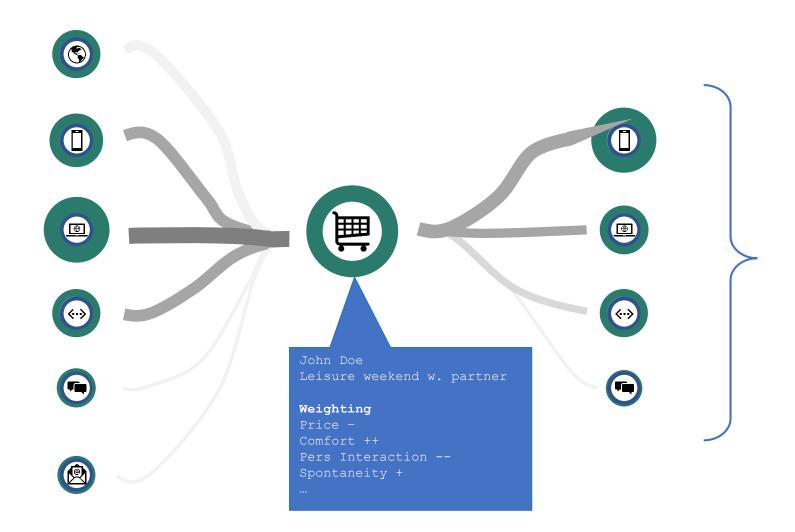
To answer many of these questions, it may be helpful to take external factors such as weather, geopolitics, events, social trends and other factors into account.

Focus on different aspect of context at different stages of the customer journey

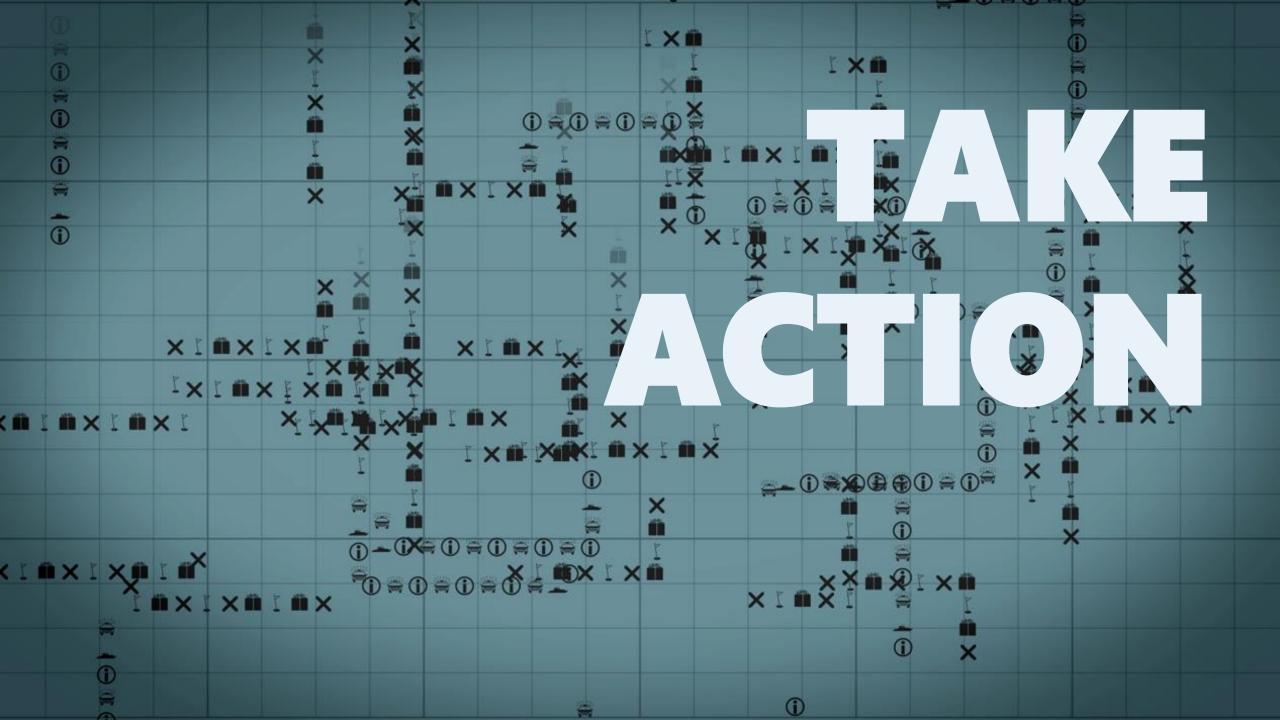




Dynamic Customer Segmentation



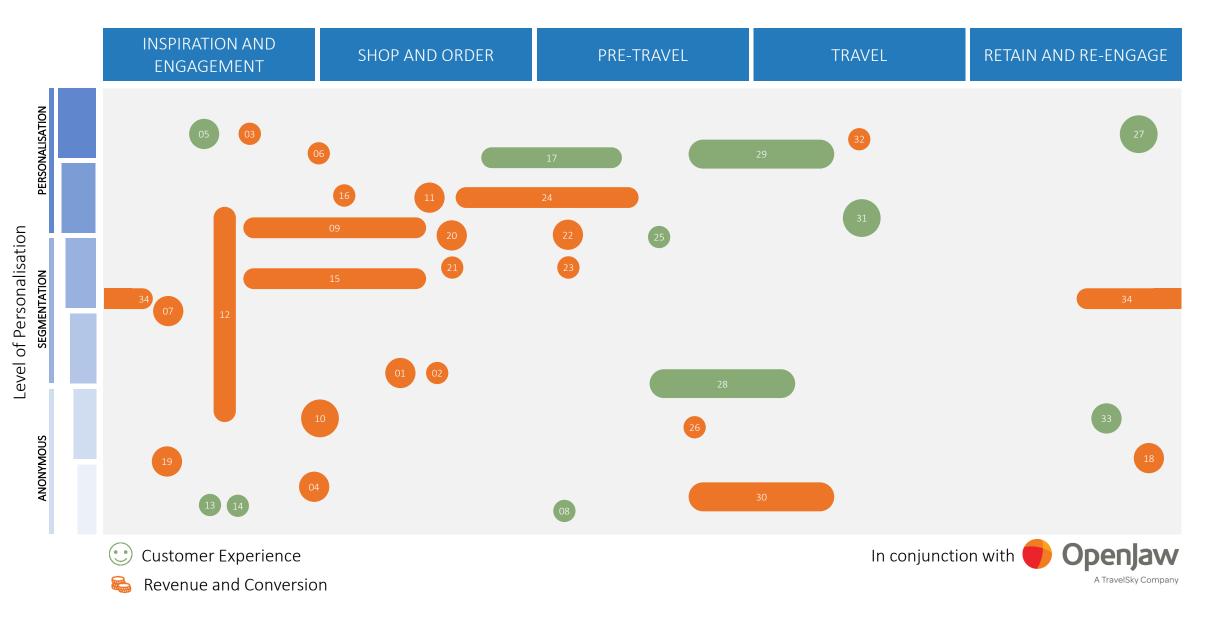




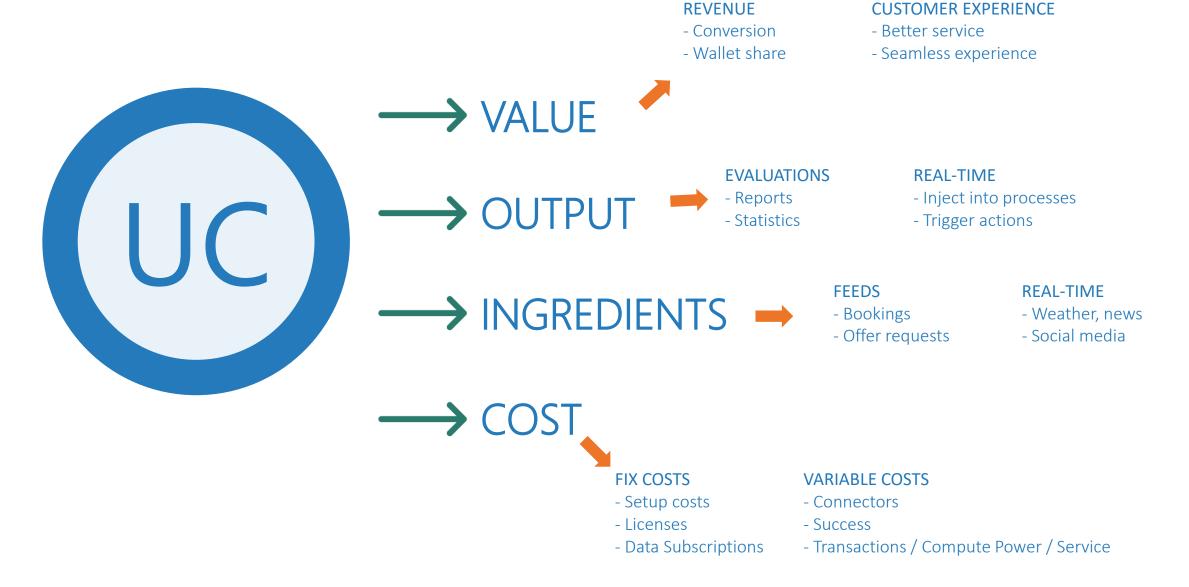
Recipes for Success

- Start simple, but start
- Use the data at hand
- Value and evaluate the use cases
- Think of the complete customer interaction / customer journey

Use Cases throughout the customer journey



Recipes for Success



R = \// + (

Relevance = Who + Context



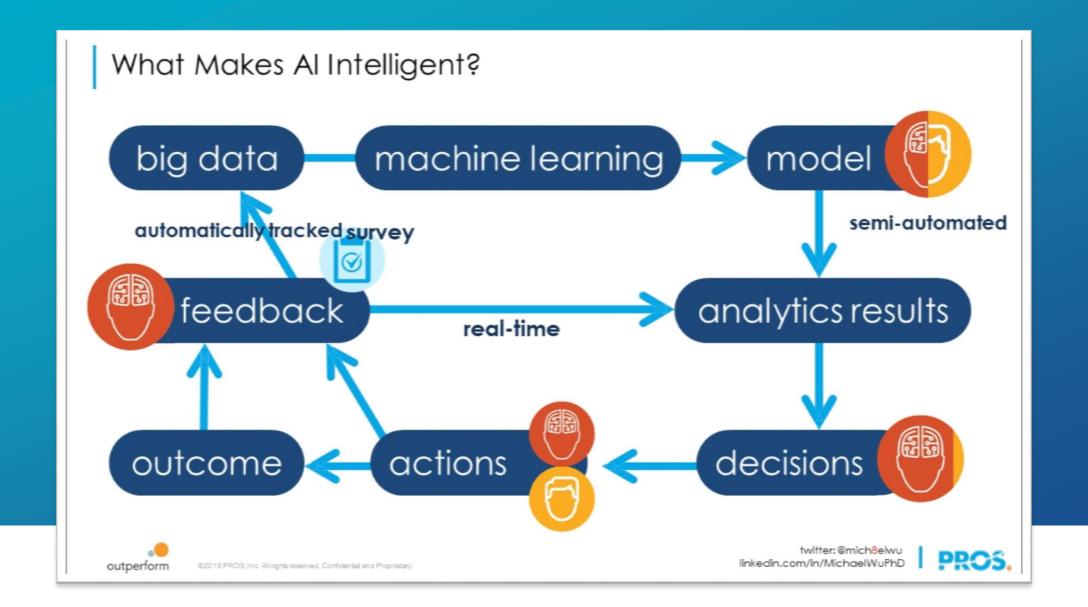
Advancing pricing capabilities with data

Tom Gregorson, Chief Strategy Officer, ATPCO









What's the Right Al Technology for You

business	improve CX	increase efficiency	grow revenue
Al	deepen engagement boost conversion gain loyalty	reduce bottom line raise productivity increase throughput	expand top line grow margin drive profitability
perceptual (cognitive)			•
internet (personalization)		•	•
business (decision)	•		
autonomous	•		•



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Empirical measurement of disutility costs observe customer choices



Big Data



Bayesian Statistics



Machine Learning



Possible use case for big data and machine learning

Calculate customer disutility

Disutility cost – perceived inconvenience cost associated with an attribute of a purchased item

Examples of air travel attributes perceived as inconvenient

- Lack of adequate leg room
- No food
- No onboard entertainment
- No WIFI



Example

Assume customer has 3 choices:

- FAR-CLE NONSTOP ECONOMY- \$200
- FAR-CLE NONSTOP EXTRA LEG ROOM \$240
- FAR-CLE NONSTOP EXTRA LEG ROOM WIFI \$250

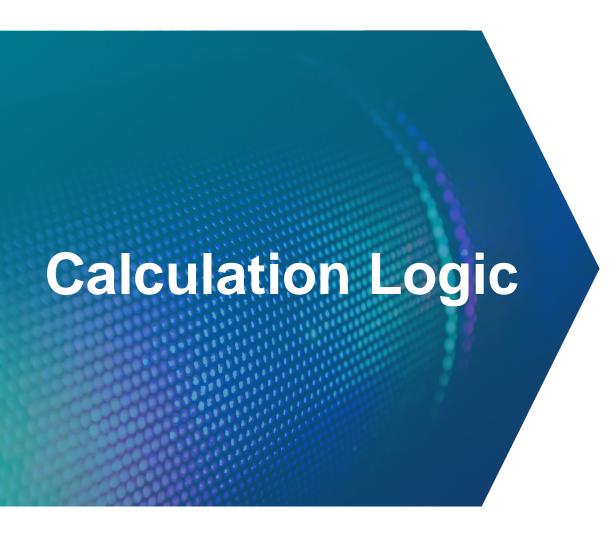
Customer disutility

(perceived cost of not having it)

WIFI = \$5.00, Extra Leg Room = \$50

\$200 fare \$50 disutility of no extra legroom \$5 disutility of no WIFI Total \$255 \$240 fare (with extra leg room) \$0 disutility of no extra legroom \$5 disutility of no WIFI Total \$245 \$250 fare (with extra leg room/WIFI) \$0 disutility of no extra legroom \$0 disutility of no WIFI Total \$250





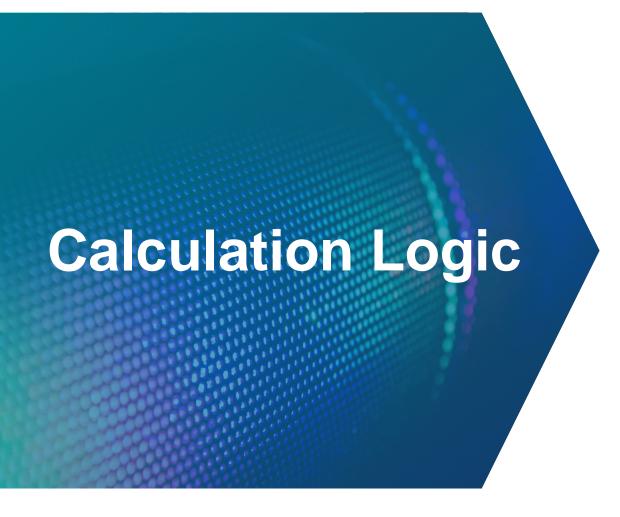
Empirical measurement of disutility costs: observe customer choices

Complete documentation all attributes of each option

- Origin/Destination
- Passenger attributes
- Path quality
- Timing
- Aircraft type
- Marketing/operating airline
- Seat

- Food
- Entertainment
- WIFI
- Fare restrictions
- Baggage
- Point of sale
- Etc.





- Capture all attributes of each option considered
- 2. Note purchased product
- 3. Calculate probability distributions (Bayesian Statistics) to characterize the disutility associated with various attributes by contrasting attributes considered versus chosen along with the cost of each option.

Where it can be used

- Digital customer experience (Internet)
- Airline offer optimization (Business)

What else can we do?

Better understand Willingness to Pay (WTP)

But is WTP constant?

- Weather
- Purpose of the trip
- Events
- Emotional factors
- Short-term surplus of funds



How do we move forward?

- We need to test and learn!
- Data sharing
- Comprehensive data
- Access to data, open API
- Data usability (data dictionaries, data cleansing, data normalization)



Big data is at the core of your big idea Let's innovate together

atpco.net/bridge-labs

MENTORING, EXPERTISE, ACCESS TO BIG DATA



Analytics with Offers & Orders



Moderator: **Sébastien Touraine**, Head, Dynamic Offer, IATA

Roland Jaggi, CCO, Aegean Airlines

Jost Daft, Manager Revenue Management & Distribution Strategy, Lufthansa Group

Julia Reichel, VP Sales t-Data, OpenJaw

Tom Gregorson, Chief Strategy Officer, ATPCO

George Khairallah, CEO, JR Technologies









Networking Dinner





Buses depart from the Lobby at 19:00 Sharp



















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