aws re: Invent



TRH202

Personalizing customer experiences in Travel and Hospitality

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Yanolja

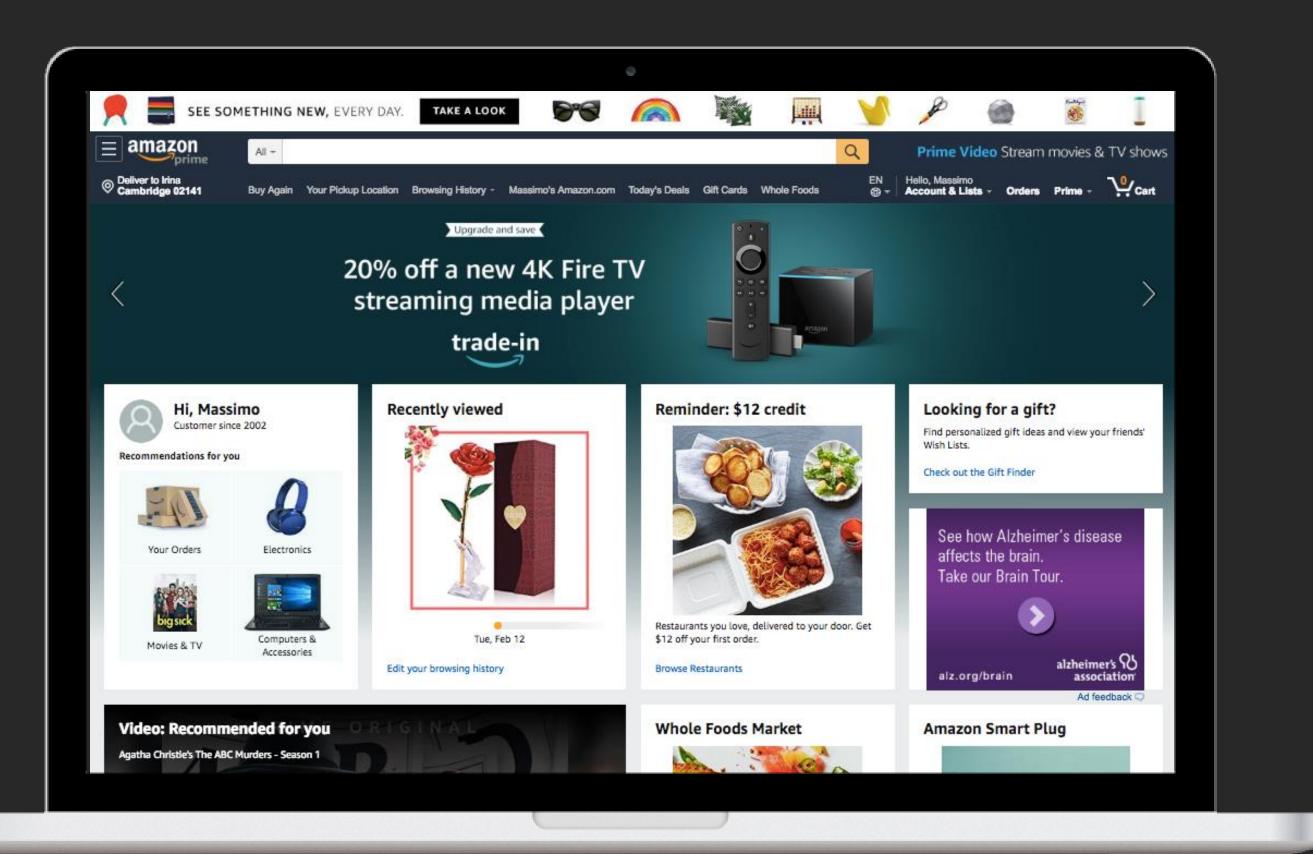


Srihari Thotapalli Global Head of Analytics Hyatt Hotels

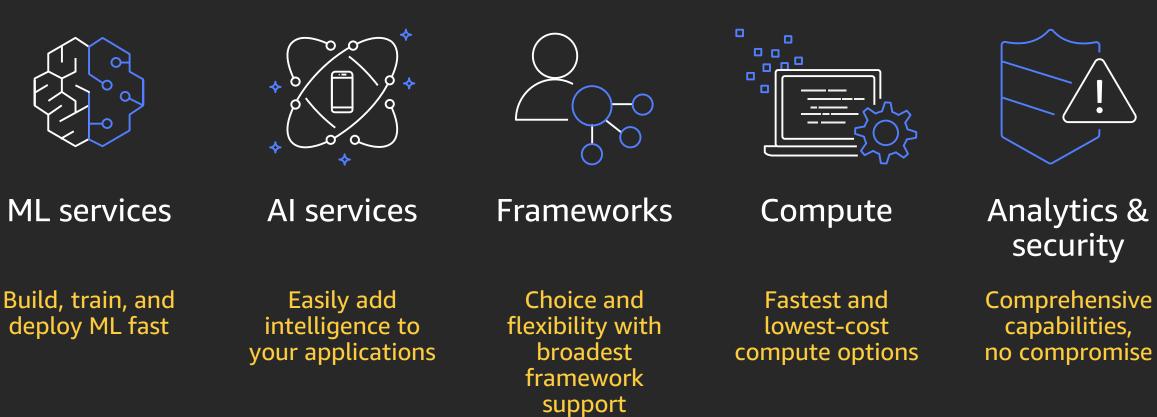


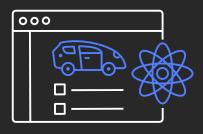
Welcome





Most comprehensive ML/AI services





Learning tools

Get deep on ML with AWS DeepRacer and AWS DeepLens

Amazon Personalize

Real-time personalization and recommendation, based on the same technology used at Amazon.com

Get started with Amazon Personalize











Personalizing customer experiences in Travel and Hospitality

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avvs

4,900 flights per day to 355 airports across 5 continents

-





United operates more than 1300 mainline and Express aircraft

United has the world's most comprehensive route network, including 7 U.S. mainland hubs providing service to 193 countries

UNITED



A STAR ALLIANCE MEM



Humanizing and contextualizing customer interactions on our digital channels is a top priority



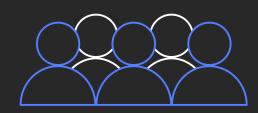
Over 1 billion digital visits a year and growing by 10%



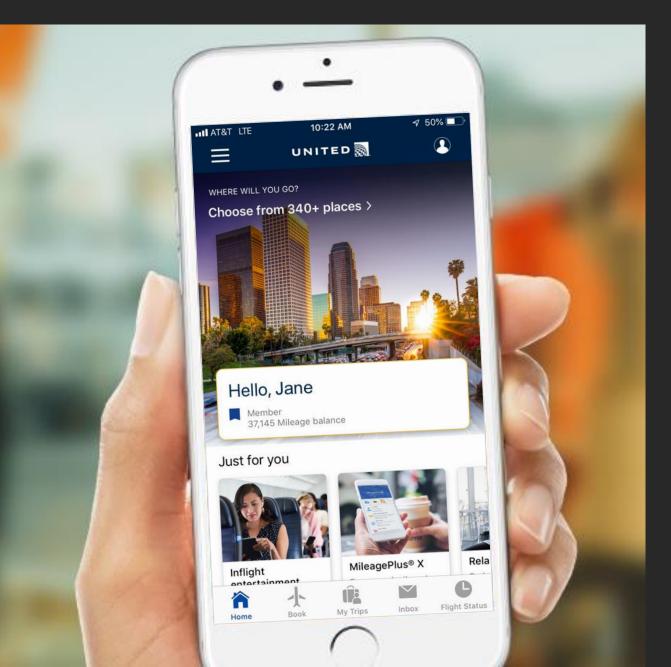
82% of check-ins are on United digital properties



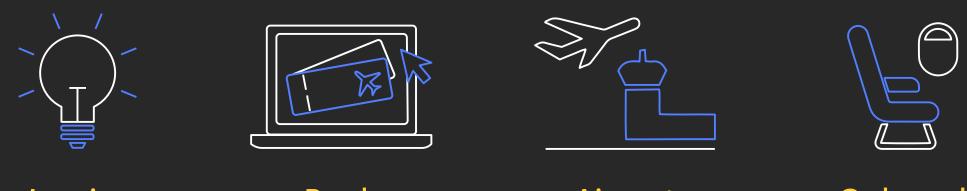
United digital sells 71 tickets per minute



3 out of 5 travelers rely on the mobile app for day-of-travel activities



We leverage machine learning across our customers' travel journey to create more personalized experiences



Inspire

Book

Airport

Onboard



Post-travel

Mile Play

Ready. Set. Earn.

Book and take a trip **1** time by June 11, 2019 to get **2,500** bonus award miles.

39 days left

Note: May take up to 72 hours to reflect progress

How to participate

Book and take a trip*

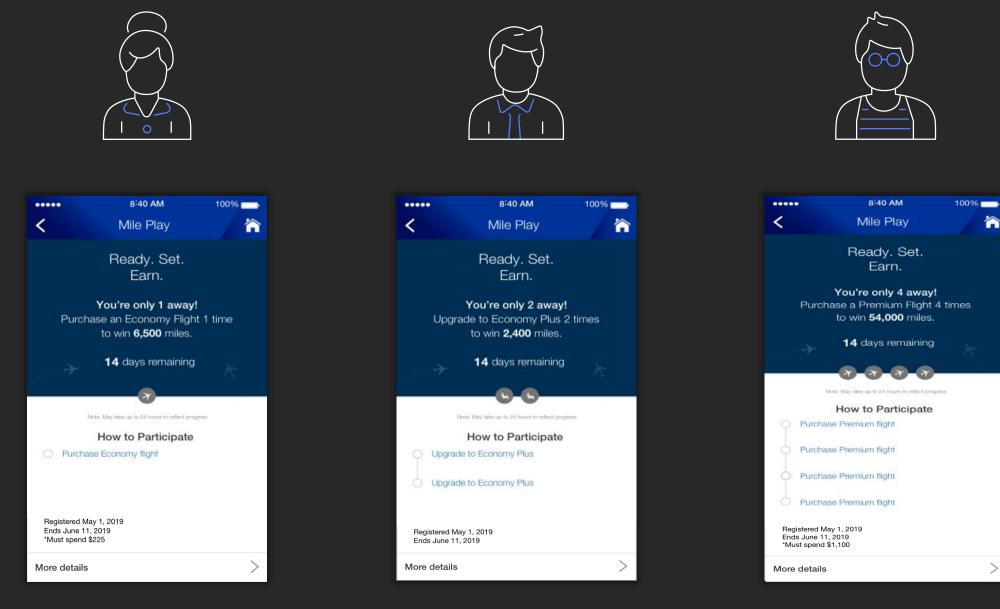
Driving engagement through one-on-one game formats







Driving engagement through one-on-one game formats

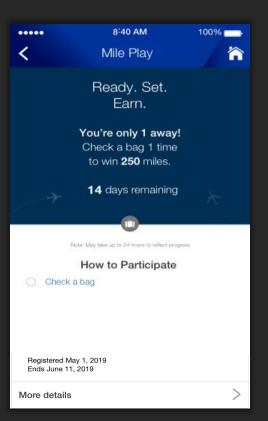


1 Economy flight 6,500 bonus miles 2 Economy Plus upgrades 2,400 bonus miles

4 Premium flights 54,000 bonus miles

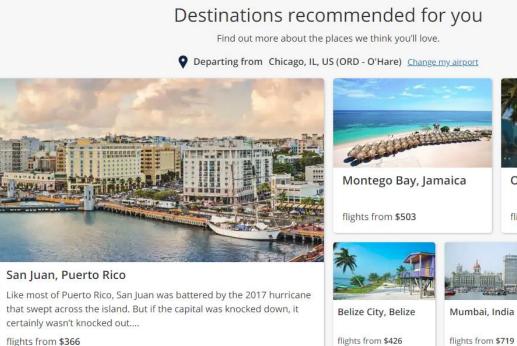
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1 checked bag 250 bonus miles

Enabling customers to explore by activity or destination



FYI: The prices shown are roundtrip fares and have been available within the last 48 hours. Additional baggage fees may apply.

Explore places that offer your favorite activities or just the right vibe.









Resorts & relaxation

Family

Outdoors

Culture





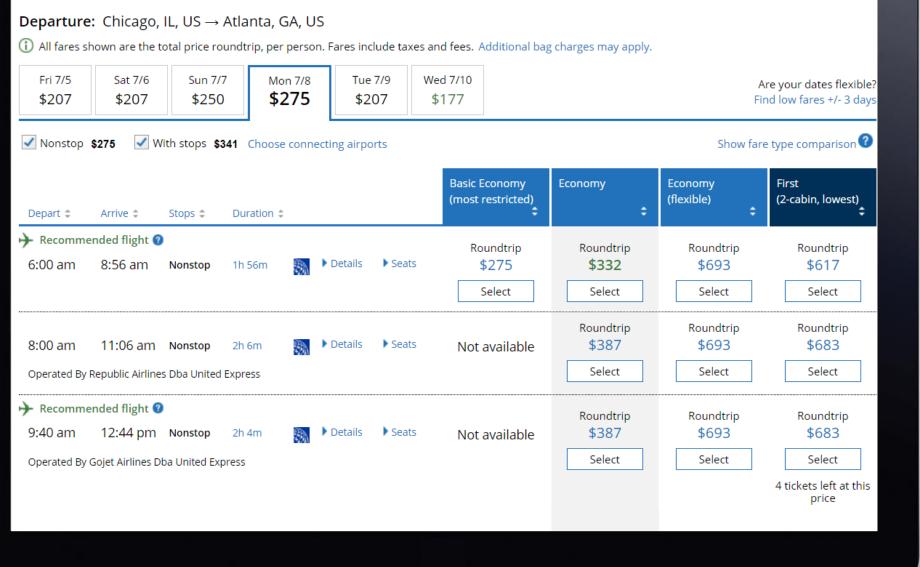






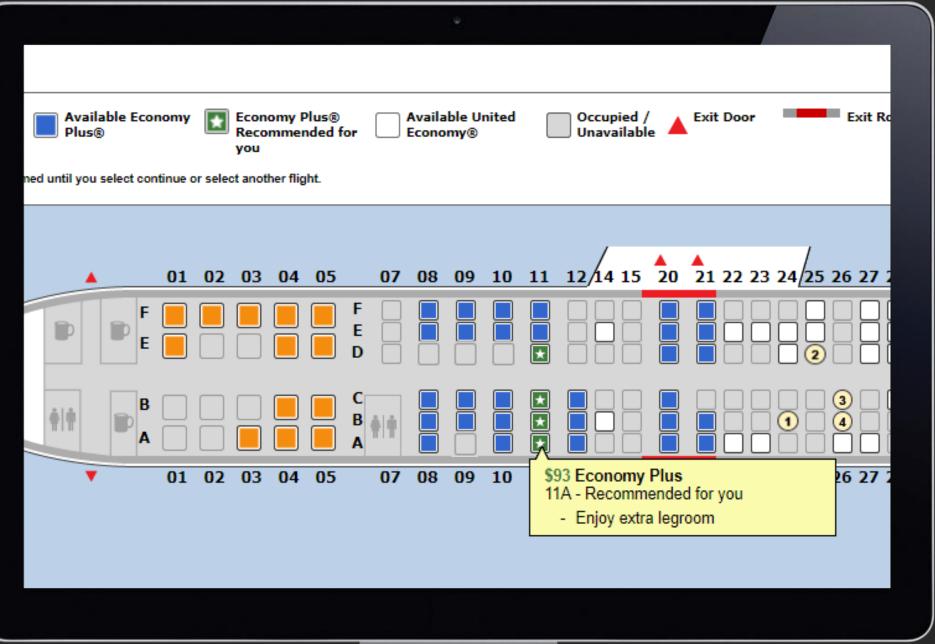
Entertainment

Curating flight recommendations based on travel patterns



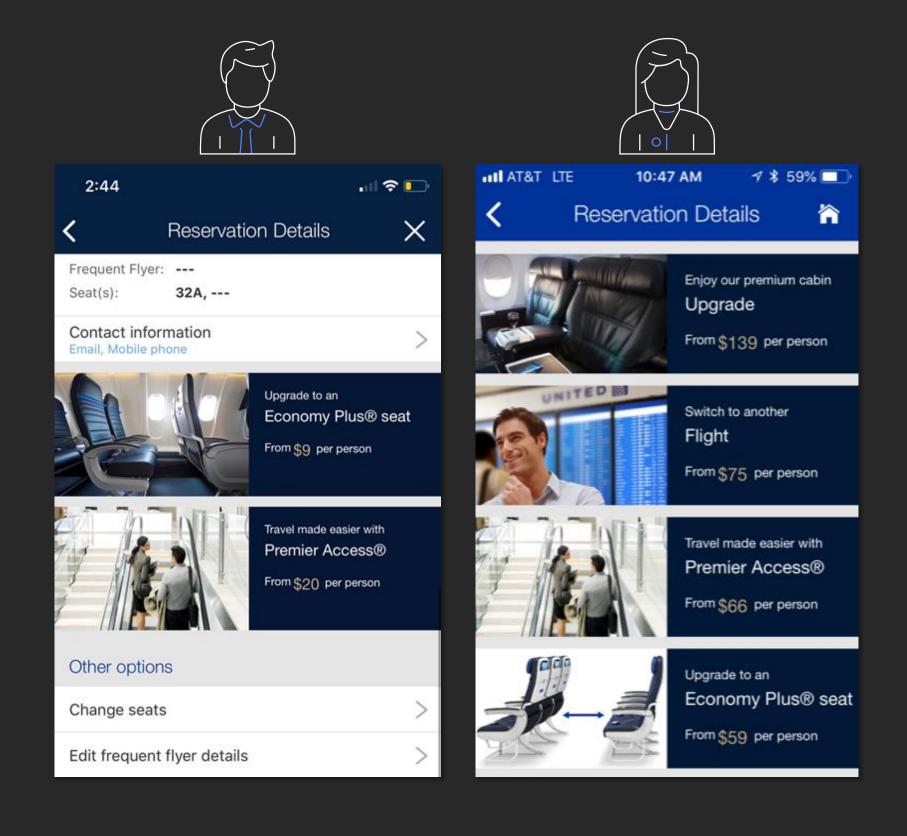


Enabling a better travel experience through seat recommendations





Serving customers relevant products and content at the right time



Responding to customers quickly drives customer satisfaction

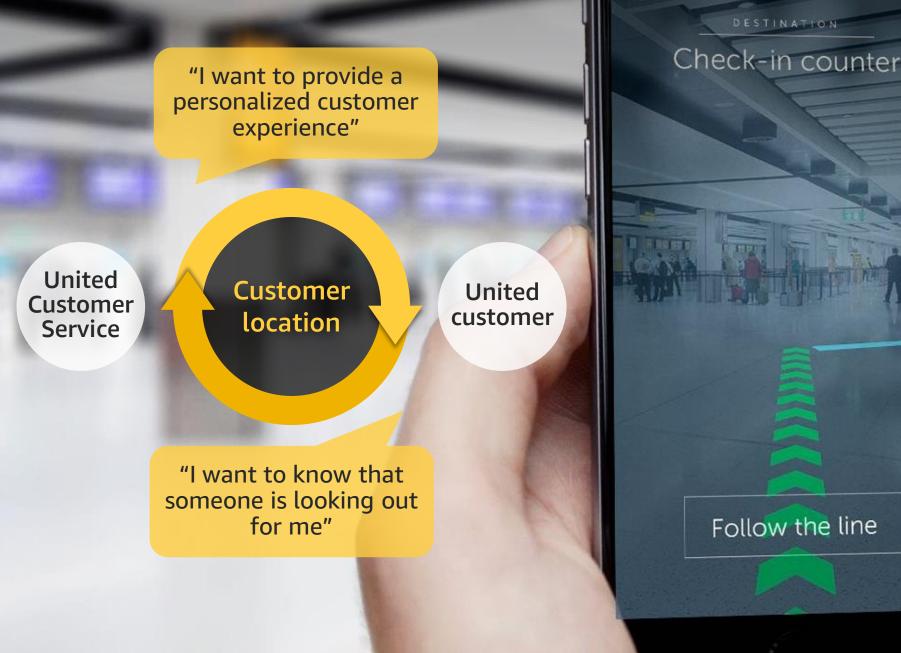
Artificial intelligence automatically identifies the customer's topic and recommends compensation options

ARPORT EXPERIENCE Coding Entry
Complaint
Comp



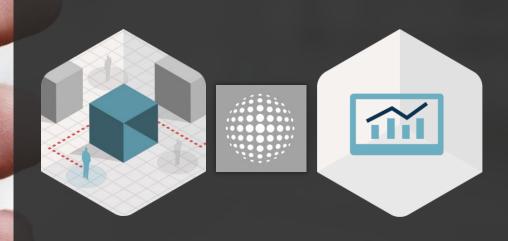
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Empowering our employees to personalize the customer airport experience



our Global Services

- meet and assists
- •
- •



Using micro location capabilities, we will locate customers in real time to:

Deliver proactive and prioritized

Make up-to-the-minute accurate operational decisions

Understand their airport journey to optimize our service model



Personalizing customer experiences in Travel and Hospitality

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yanolja



Content







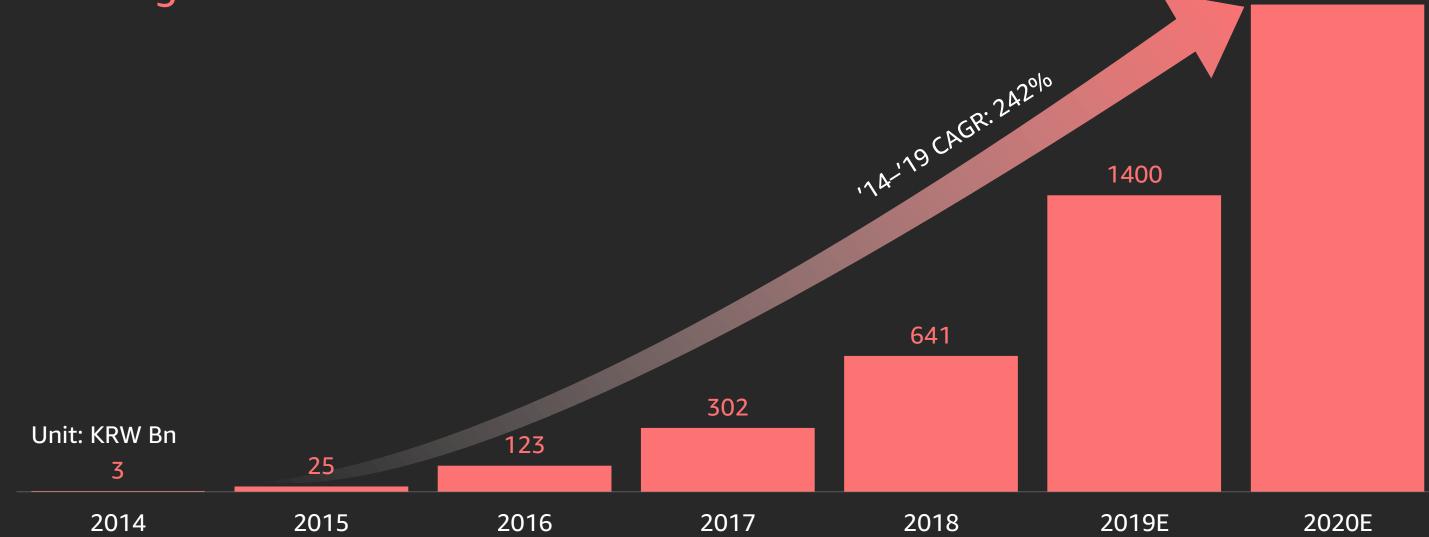
Yanolja business introduction

Collecting real-time data through system integration

Yanolja cases for personalized guest experience

Yanolja is the fastest-growing, No.1 OTA for accommodation and leisure activity categories in Korea

Booking transaction volume trend

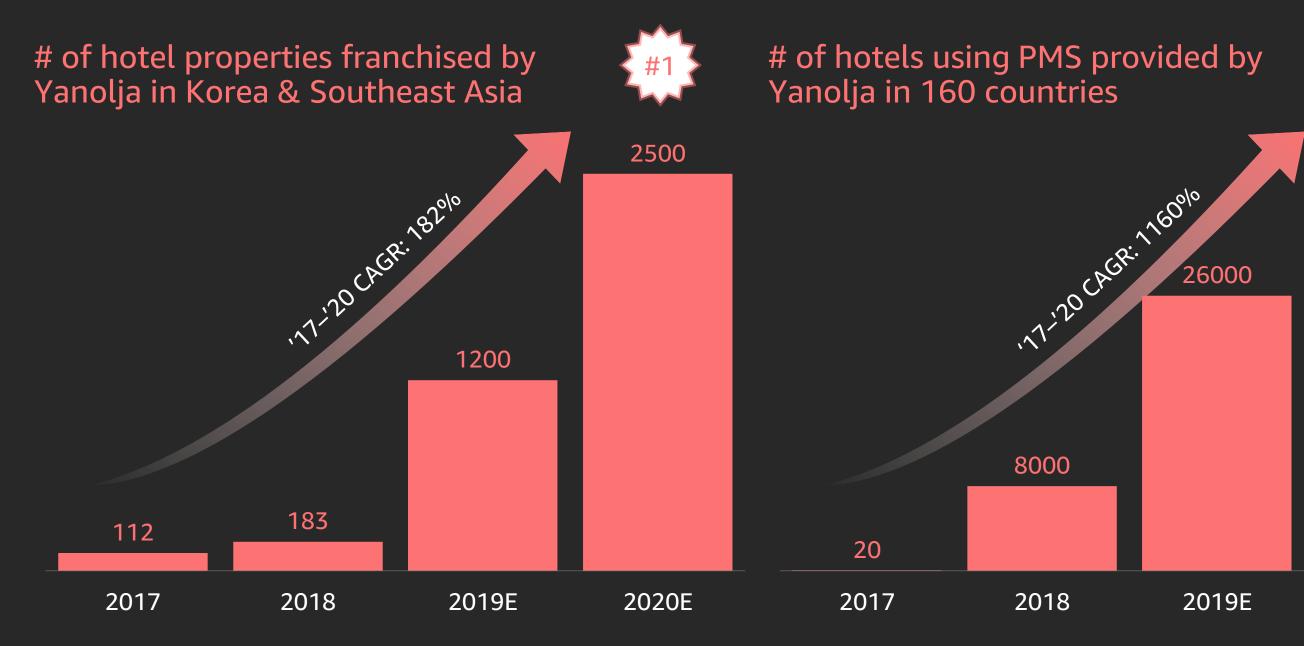


2300

In addition to accommodation and leisure activities, Yanolja has expanded its booking service to restaurants and transportation



Yanolja is the No.1 cloud-based PMS provider in the world as well as one of the largest franchised hotel chains in Korea and SEA







Content





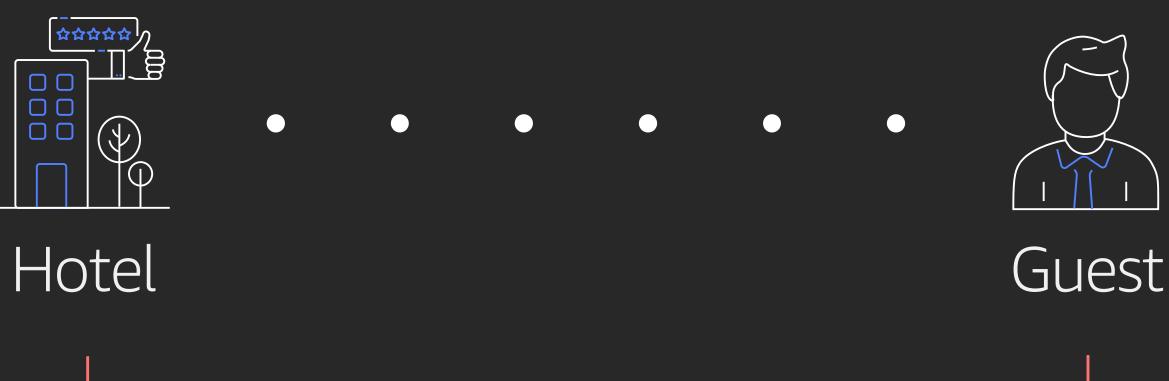


Yanolja business introduction

Collecting real-time data through system integration

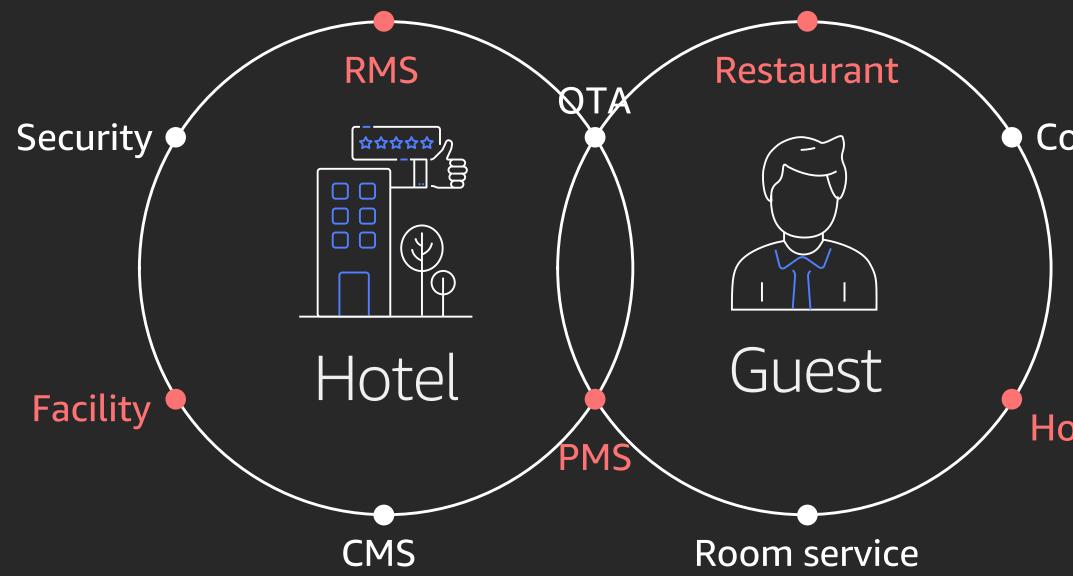
Yanolja cases for personalized guest experience

Value chain of Hospitality industry under existing technology is segmented into many pieces



Segmented Hospitality value chain

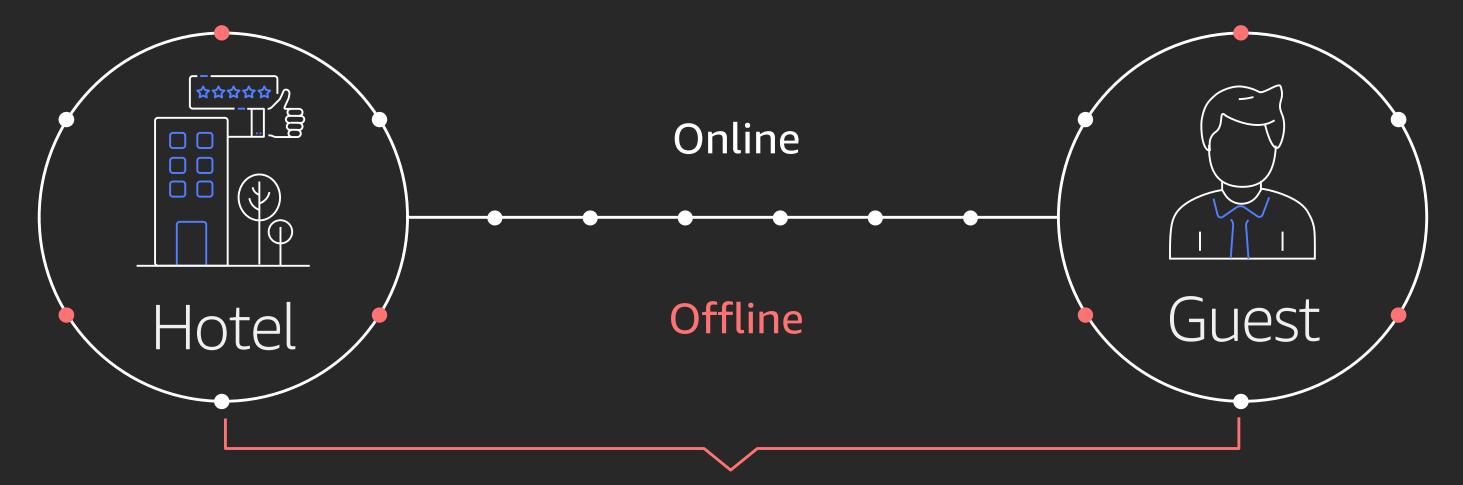
In particular, there has been a disconnect between online and offline segments of the current value chain



Concierge

Housekeeping

Integrating the full system in real time through existing technology is very difficult, resulting in high cost



Connecting all the contacts is incredibly expensive



Thus, AWS Cloud is necessary to integrate online and offline processes across value chain for collecting realtime data in a reliable manner

AWS Cloud

IoT

Machine Learning

Hotel

Blockchain



Fully integrated and connected intelligence through AWS Cloud can enhance user experience and operational efficiency



Expected result and use cases

Collecting guest preference data for each touch point in real time

Collecting hotel manager's operation data for each process



Providing personalized offers customized for each touch point

Maximizing operational efficiency for each operation process

Content







Yanolja business introduction

Collecting real-time data through system integration

Yanolja cases for personalized guest experience

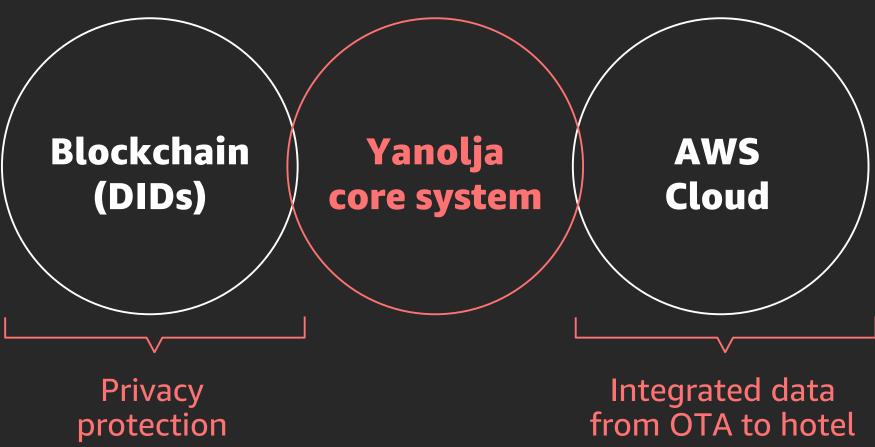
Hotel automation solution for better user experience

YFLUX





Blockchain unified pass and reservation system based on AWS Cloud can improve customer satisfaction



Blockchain unified pass and reservation system based on AWS Cloud can improve customer satisfaction





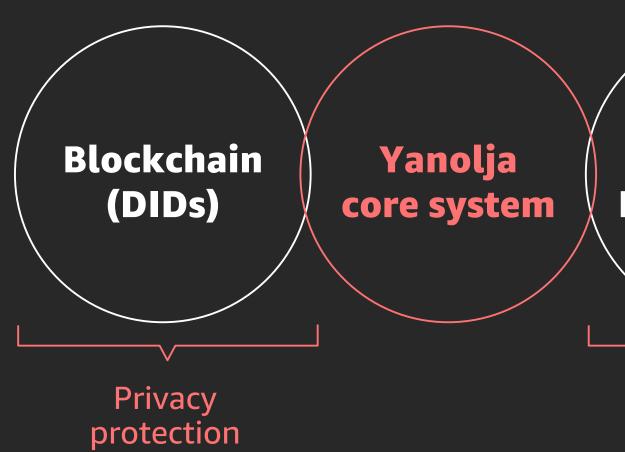
Blockchain unified pass and reservation system based on AWS Cloud can improve customer satisfaction

Customer satisfaction

25%



User identification through Amazon Rekognition and blockchain (DIDs) improves occupancy rate and revenue with higher customer retention rate



Amazon Rekognition

Predictions of guest profile

Yanolja case 2:

User identification through Amazon Rekognition and blockchain (DIDs) improves occupancy rate and revenue with higher customer retention rate



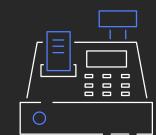


Yanolja case 2:

User identification through Amazon Rekognition and blockchain (DIDs) improves occupancy rate and revenue with higher customer retention rate 38%



Amount of sales



Number of reservations



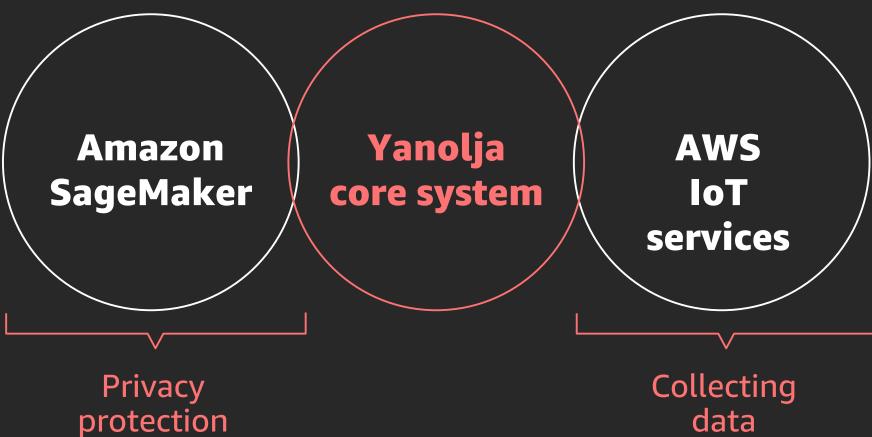






Yanolja case 3:

Prediction of guest personalization through AWS loT services and Amazon EMR enhances customer convenience and reduces amenity and operational costs



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Prediction of guest personalization through AWS loT services and Amazon EMR enhances customer convenience and reduces amenity and operational costs



(per 50 rooms)

Inventory management







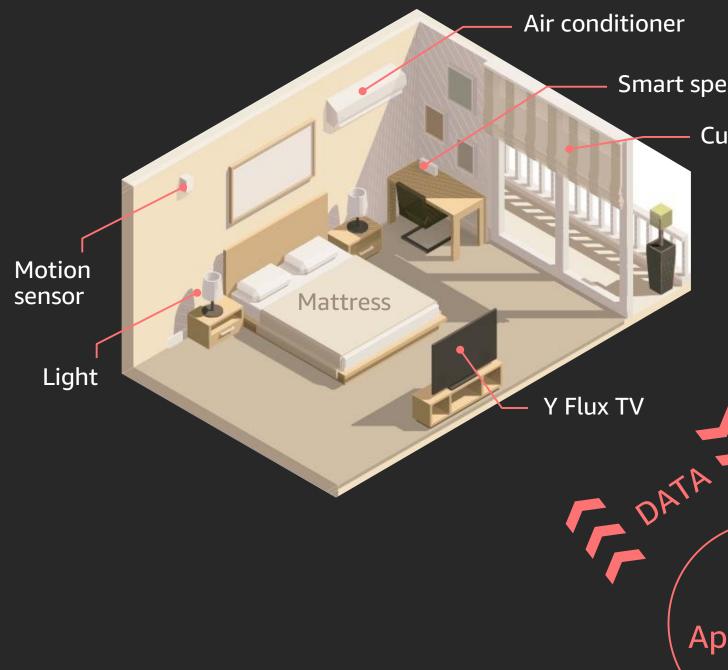


S1K

(per 50 rooms)

Yanolja case 4:

Prediction of guest preference through AWS loT services, AWS AppSync, AWS Glue, Amazon Athena, and Amazon EMR is necessary for setting up appropriate inroom conditions in advance



Smart speaker/tablet

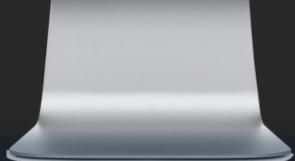
Curtain

Y Flux Application

Yanolja case 4:

Prediction of guest preference through AWS loT services, AWS AppSync, AWS Glue, Amazon Athena, and Amazon EMR is necessary for setting up appropriate inroom conditions in advance





Yanolja case 4:

Prediction of guest preference through AWS loT services, AWS AppSync, AWS Glue, Amazon Athena, and Amazon EMR is necessary for setting up appropriate inroom conditions in advance

Customer operational cost

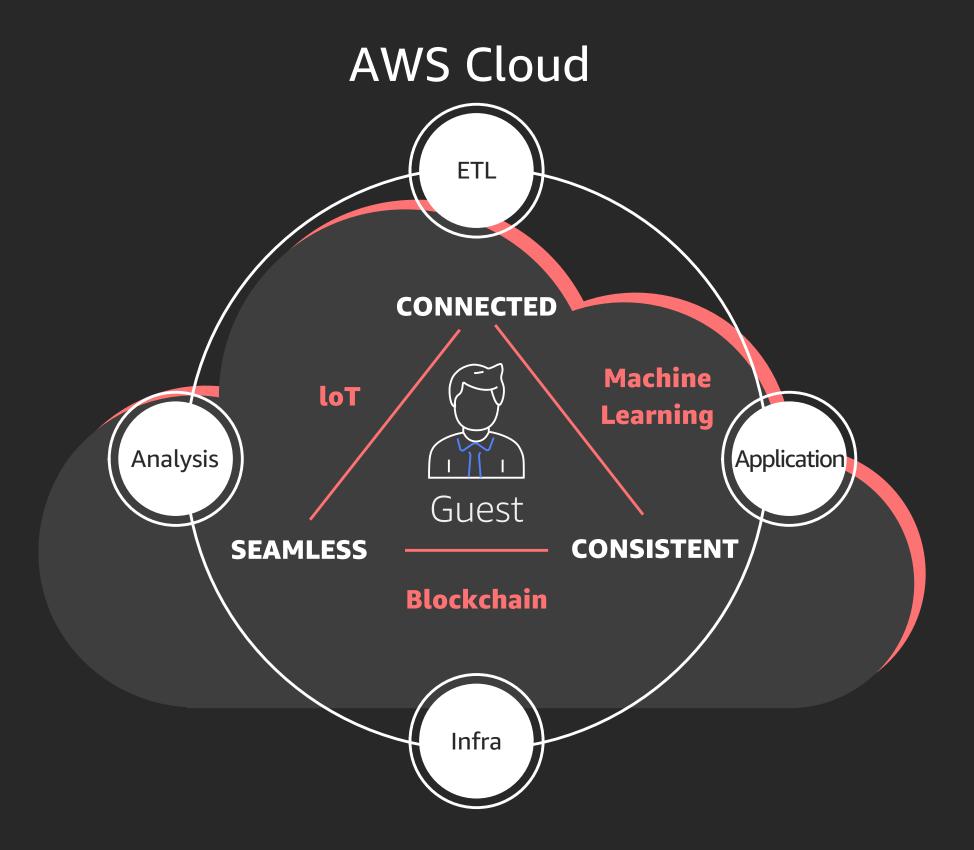




(per 50 rooms)



Through AWS Cloud, the fully integrated and connected solution in real time will enhance user experience in the Hospitality industry





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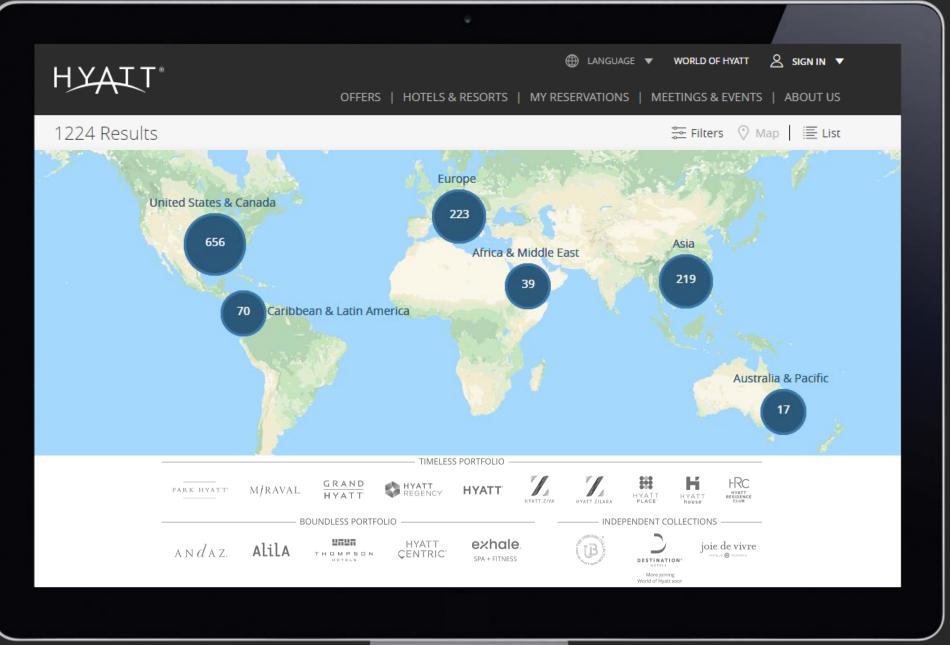


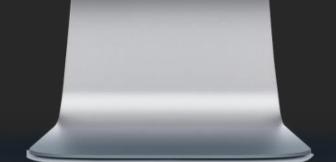
Company Purpose

We care for people so they can be their best.



Company overview





My team and customers

Team



Business intelligence



Data science

Customers





Data engineering

Finance



Hotel operations

Business challenges







Personalizing guest experience

Differentiating Hyatt from competition

Dynamic business environment

- High competition
- Long sales cycles
- Complex customer journeys

Personalization

Hyatt delivers unique guest experience with AWS



Challenge

How do we advance care and create personal connections with our guests at scale?

Solutions

Data and Analytics plays a key role AWS helps us scale

Benefits

Lifetime Value Room Upsell and Addons **Property Recommendation**



Journey to AWS



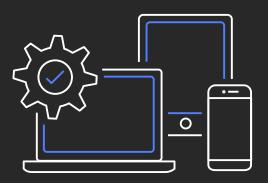
Technical limitations

Slow time-to-market

Lack of advanced data-science tools

Scalability

Speed to introduce new servers and services



Improvements with AWS

Self-service analytics

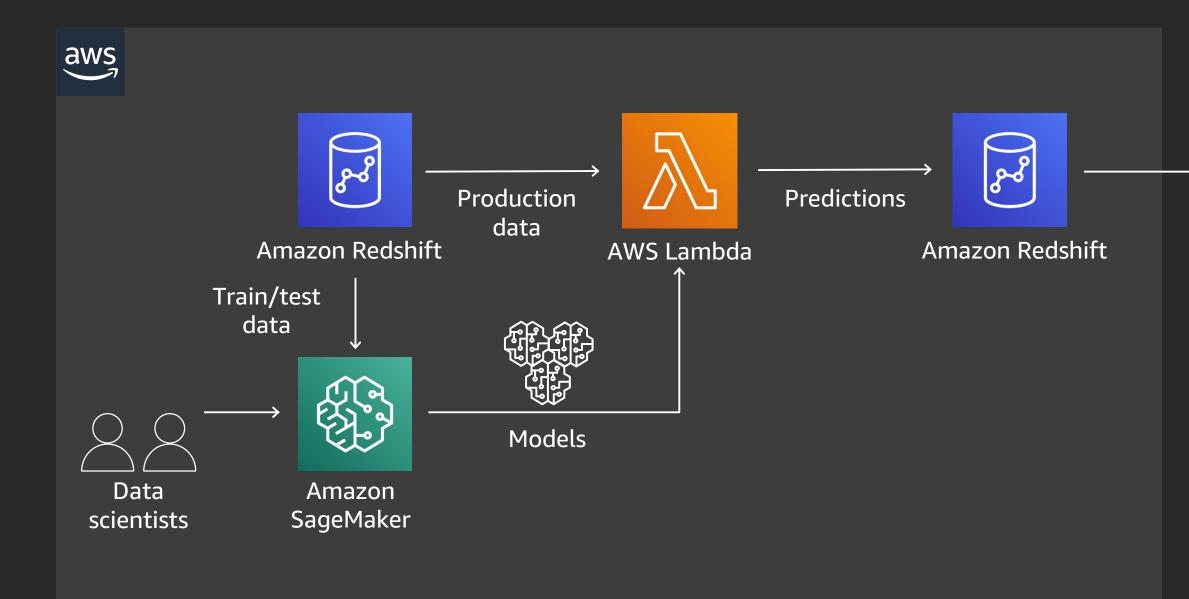
Streamlined deployment of models and pipelines

Much better tools

Zero downtime

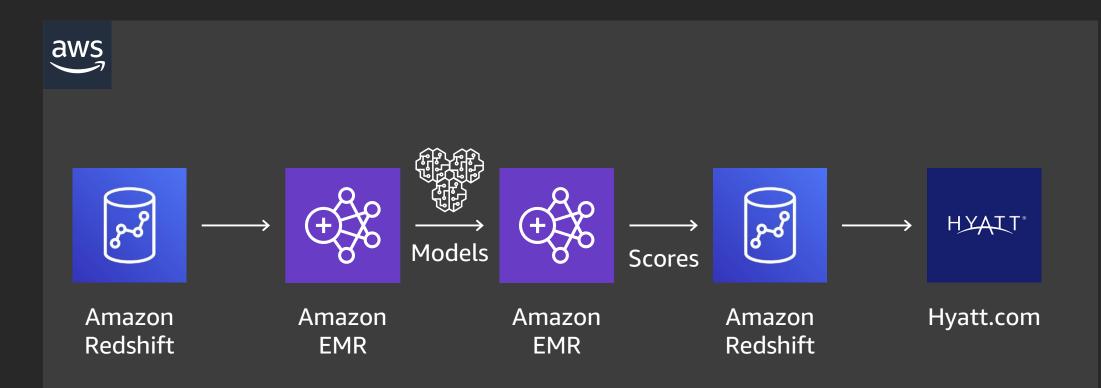


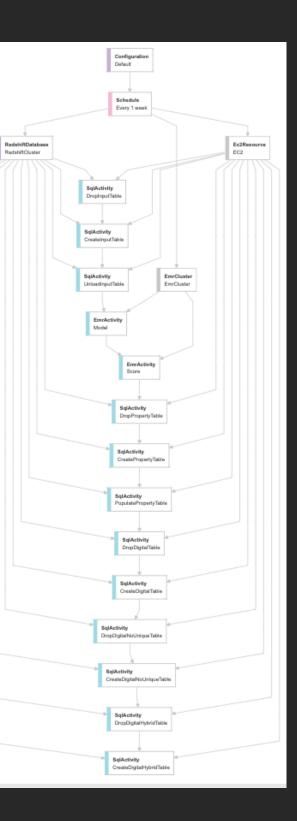
AWS work and solution Pipeline to generate lifetime value, room upsell, and add-ons



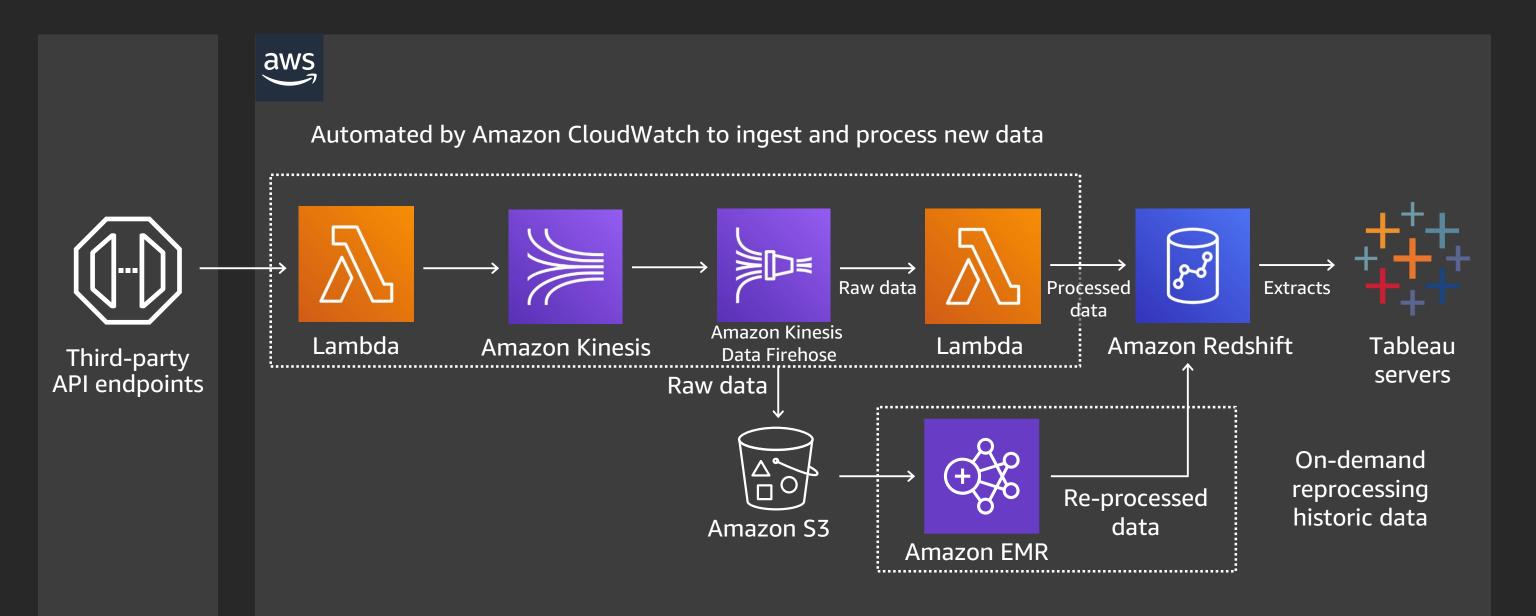


AWS work and solution Pipeline to generate property recommendation





AWS work and solution Pipeline to display hotel operation data on 3D heatmap



Transformative business results

Personalized room upsell and add-ons

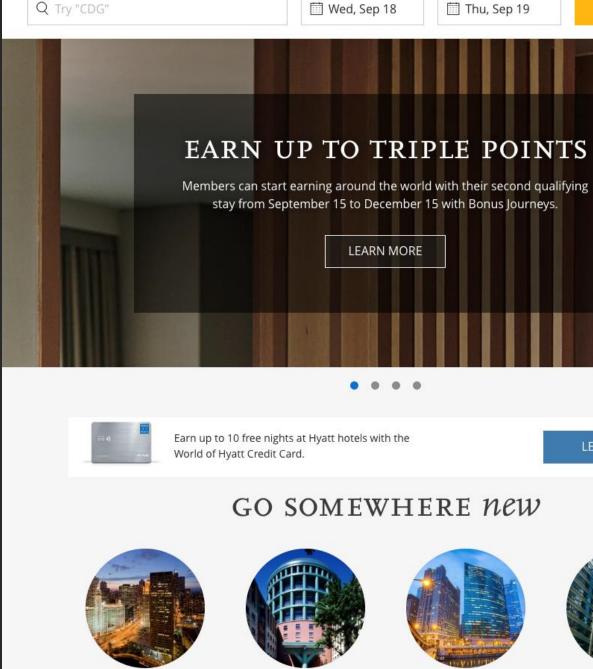
Brought incremental revenue of US \$40MM in the first 6 months of 2019



Transformative business results

Personalized property recommendation

Increased guest satisfaction of most loyal guests





Hyatt Regency

Chicago

VIEW HOTEL >





Hyatt Regency Fukuoka VIEW HOTEL >

THE BENEFITS OF BOOKING ON hyatt.com



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Transformative business results

3D heatmap

Improved stay experience through personalized hotel operations





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