

# Variable Rate Parking Model Session Business of Airports Conference June 11, 2019



Hillsborough County Aviation Authority Tampa International, Peter O. Knight, Plant City and Tampa Executive Airports

#### North American Airports Are Much More Reliant On Parking Revenues Than Their Regional International Counterparts

Region	Retail con- cessions	Food and beverage	Car parking	Rental car concessions	Advertising	Fuel and oil	Aviation catering services	Utility pass- through charges	Property and real estate revenue or rent	Other non-aero- nautical revenue
Africa	31.9%	1.5%	10.7%	3.2%	3.5%	2.5%	0.3%	4.9%	12.7%	28.8%
Asia-Pacific	45.4%	3.7%	7.1%	0.8%	3.7%	2.7%	0.8%	1.8%	22.2%	11.8%
Europe	35.7%	4.7%	16.1%	2.3%	1.9%	2.3%	0.5%	5.0%	16.4%	14.9%
Latin America-Caribbean	26.9%	6.9%	10.6%	4.0%	4.5%	4.4%	1.7%	1.3%	9.8%	29.8%
Middle East	52.9%	3.9%	9.1%	1.3%	1.7%	4.6%	1.6%	3.1%	13.6%	8.1%
North America	8.0%	7.7%	40.7%	17.1%	0.6%	3.0%	0.0%	0.0%	7.4%	15.5%
World	30.2%	5.3%	<mark>20.1%</mark>	6.2%	2.2%	2.8%	0.5%	2.5%	15.0%	15.2%

#### Source: 2018 ACI World Economics Report



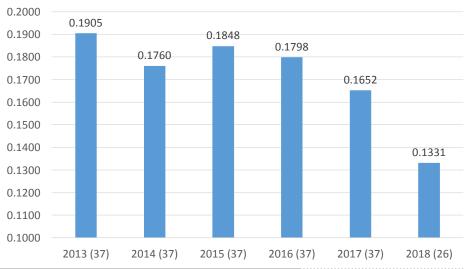


• Overall, on-airport parking transactions have continued to increase, albeit at a slower rate recently

Parking Transactions (43)

84,000,000 83,063,391 82.000.000 80.532.998 80,000,000 79,221,385 78,000,000 77,091,908 76,000,000 74,427,700 74,000,000 72,000,000 70.000.000 2013 2014 2015 2016 2017

 ....but the ratio of parking transactions to O&D passengers declined by 13.2% between 2013 and 2017



Transactions Per OD Passenger)



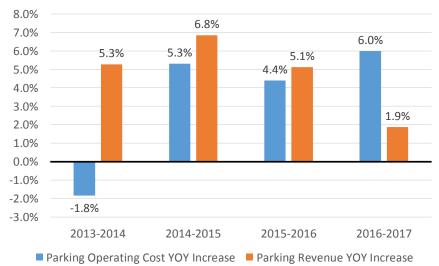
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• Parking revenues have continued to show growth over the past 5 years



Parking Revenues vs Parking Operating Expenses (48)

....although YOY revenue growth rates have
 slowed with expense growth exceeding revenue
 growth beginning in 2017



Parking Revenues vs Parking Operating Expenses, YOY Growth (48)



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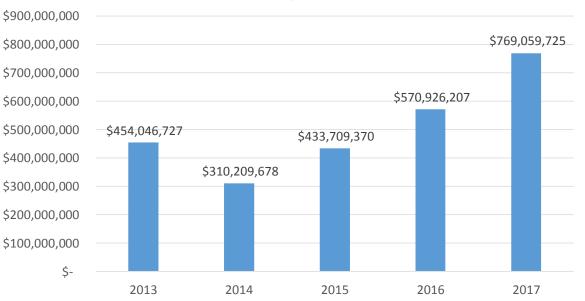
- Parking revenue per O&D Passenger increased by 15.3% 2013-2017, but declined by 5.5% 2015-2017
- Parking revenue per transaction increased by 7.1% since 2013 but declined by 1.3% in 2017





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- In addition to ongoing parking operating expenses increasing, Parking capital costs have more than doubled in the past three years
- 91 airports reported capital spending related to on-airport parking since 2013, with more than \$769 million spent at those airports on Parking capital projects in 2017 alone



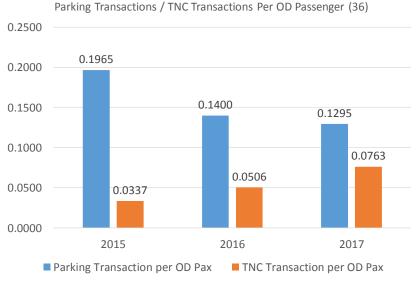
Current Year Parking Capital Costs (91)



6

- TNC transactions increased by more than 1,400% between 2015 and 2017 at the 39 airports who reported TNC activity
- Number of TNC Trips (39) 45,000,000 39.433.930 40.000.000 35,000,000 30,000,000 25,000,000 20,000,000 16,164,357 15.000.000 10,000,000 5,000,000 2,469,024 0 2015 2016 2017

On a per O&D basis, TNC transaction activity is getting closer to parking activity at the 36 airports who reported both parking and TNC transactions





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#### The Traditional Parking Business Model Really Hasn't Changed In Decades

Technology may have changed......

- Pay-by phone
- Pay online
- Remote pay stations
- Product-specific lanes
- Auto-tolling lanes
- Fewer cashiers
- Available space counters
- License plate recognition



......



#### The Traditional Parking Business Model Really Hasn't Changed In Decades

.....but the commercial model really hasn't

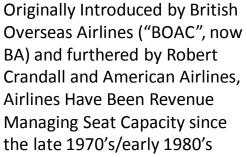
- Fixed pricing by product or garage
- Time-based model
- Infrequent rate changes
- Same price during the peaks as during the off-season
- No adjustments made for inventory utilization
- No product differentiation

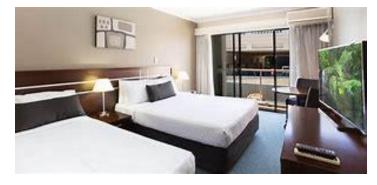
Ticketless sy	stem.	Parking F Dane County Airpo	Regional	DANE COUNTY REGIONAL AIRPORT MADISON	
ay at exit barrier with debit car	coins, credit or d.	Hourly (Ramp)	Price	Long Term (Ramp)	Price
20 Minutes		15 or less	FREE	15 or less	FRI
20 Minutes	£ 2.00	Over 15 min to 30 min	\$1.00	Over 15 min to 30 min	\$1.0
30 Minutes	£ 4.00	Over 30 min to 1 hr Over 1 hr to 1 hr and 30 mins	\$2.00 \$3.00	Over 30 min to 1 hr Over 1 hr to 1 hr and 30 mins	\$2.0 \$3.0
		Over 1 hr to 1 hr and 30 mins Over 1 hr and 30 mins to 2 hrs	\$4.00	Over 1 hr to 1 hr and 30 mins Over 1 hr and 30 mins to 2 hrs	\$3. \$4.
0 Minutes	£ 6.00	Over 2 hrs to 3 hrs	\$6.00	Over 2 hrs to 3 hrs	\$5.
) Minutes	£ 8.00	Over 3 hrs to 4 hrs	\$8.00	Over 3 hrs to 4 hrs	\$6.0
		Over 4 hrs to 5 hrs	\$10.00	Over 4 hrs to 5 hrs	\$7.
Hour	£ 10.00	Over 5 hrs to 6 hrs	\$12.00	Over 5 hrs to 6 hrs	\$8.
Hours	£ 20.00	Over 6 hrs to 24 hours Over 24 hrs	\$14.00 \$16.00	Over 6 hrs to 24 hours	\$10.
4 Hours	£ 50.00				
Each 24 hours thereafter (or part thereof)	£ 50.00	Surface Lot	Price	Economy Lot	Price
		15 or less	FRFF	15 or less	FR
cles and their contents are left en		Over 15 min to 30 min	\$1.00	Over 15 min to 30 min	\$1.
port management cannot accept l	iability for loss or damage	Over 30 min to 1 hr	\$2.00	Over 30 min to 1 hr	\$2.
sed to any vehicle or its contents w		Over 1 hr to 1 hr and 30 mins	\$3.00	Over 1 hr to 1 hr and 30 mins	\$3.00
	LiverpoolJohn LennonAirport	Over 1 hr and 30 mins to 2 hrs	\$4.00	Over 1 hr and 30 mins to 2 hrs	\$4.
PARK	Above us only sky	Over 2 hrs to 3 hrs	\$5.00	Over 2 hrs to 3 hrs	\$5.
ALT AND ADDR.		Over 3 hrs to 4 hrs	\$6.00	Over 3 hrs to 24 hrs	\$6.
		Over 4 hrs to 5 hrs Over 5 hrs to 24 hrs	\$7.00 \$8.00		



# Parking Spaces Are Perishable Assets, No Different than Airline Seats or Hotel Rooms







Marriott Began Revenue Managing Hotel Rooms in the 1980's Through the Introduction of its DFS ("Demand Forecasting System")



Limited Revenue Management History



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#### Panelists

Jenna Buckner CEO InnoVAT International



Laurie Noyes Vice President of Concessions Tampa International Airport



Ted Kaplan Director of Business & Revenue Charlotte International Airport





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#### **Parking Commercial Management**

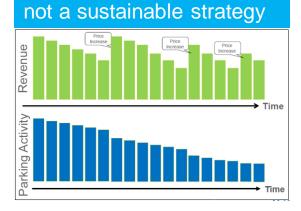


## **Our Company**

 Innovāt International helps airports transform their parking into a commercial focused business that drives revenues and elevates the customer experience.



## Why Change Your Parking Approach?

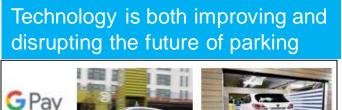


Price increases alone are



Labor is expensive; use wisely









Customers expect seamless, personalized experiences ...that they control





Confidential and Commercially Sensitive

## **Parking Commercial Management**

- Increasingly, airports are embracing the techniques that allow them to drive share and revenues while improving consumer engagement and loyalty
  - talk directly to customers
  - analyze consumer behavior and preferences
  - deliver segment-based products not just location-based
  - utilize travel industry variable pricing mechanisms
    - deploy an omnichannel sales and communication approach
    - provide a unique, seamless, whole of airport experience

#### Revenue Generation:

•



RDU

THF PORT

OF NY & NJ

## **Commercial Management – Key Elements**

- Data driven
- Consumer focused
- Cross functional
- Managed as a business
  - revenue vs cost
  - asset optimization
- Technically sophisticated
- Nimble variable products & pricing
- Competitive delivers unique points of difference

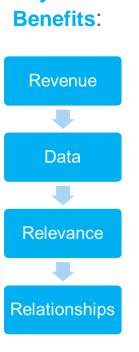








## Start with an Online Booking System



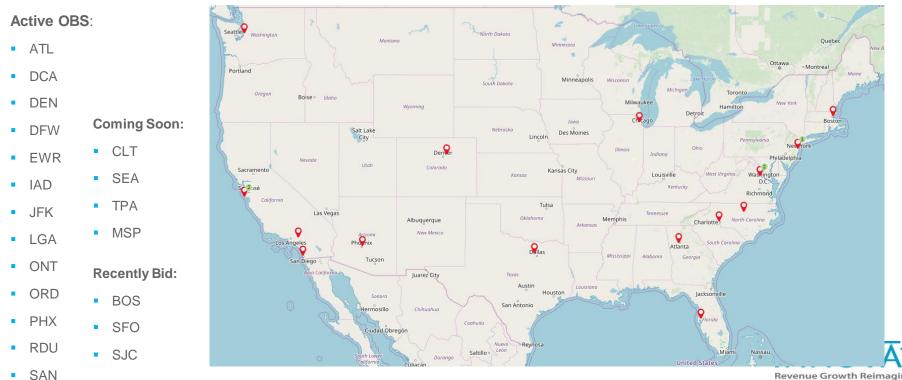
Key

- Lock in customers early, when they make their travel decision online
  - Compete head to head with TNCs and off-airport competitors that already offer online and mobile optimized booking
  - Enable yield management only an online platform can provide the agility for immediate price changes and promotions to optimize revenue and capacity; used by other travel verticals for many years
  - Know your customer availability of detailed customer, activity and transaction data for product development, reporting and forecasting
  - Reach your customer build a customer database for marketing, targeting and upsells as well as increased engagement
  - Be relevant communicate with customers where they are, online and on their mobile devices
  - Be efficient online marketing is good value and less expensive than other mediums
  - Improve your customer experience Build a seamless customer journey, improve engagement and lifetime customer value



## **U.S. Airports with OBS**

Online booking and a commercial approach has been successful for many years in airports in Europe, Canada and Australia and is growing in the USA



**Revenue Growth Reimagined** 

Confidential and Commercially Sensitive

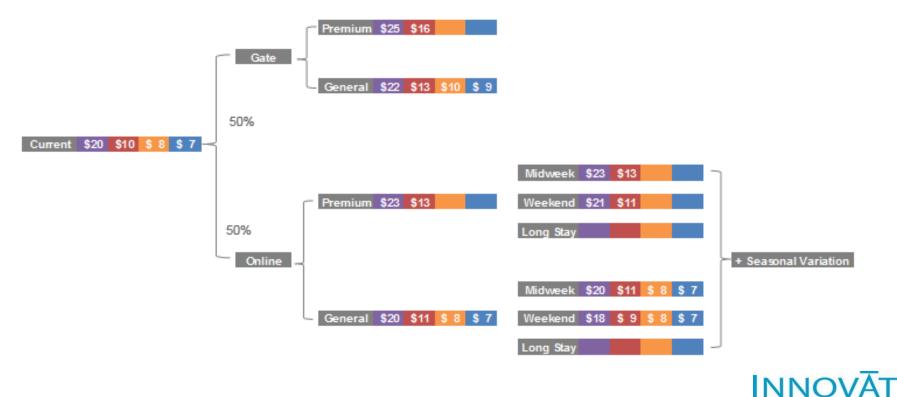
### **Support a Better Customer Experience**

#### • **Choices**: More product choices at a wider variety of price points

- cheaper prices than drive up
- unique airport products, upsells and cross sells
- Peace of Mind: Parking process is easier, faster and more predictable
  - ability to book and pay in advance
  - enter and exit with license plate or QR code no tickets
  - guaranteed entry to product of choice
  - ability to create account with stored payments and online receipts
- Engagement: Ability to communicate with the customer across all digital and social channels
  - CRM email offers, upsells and information
  - provide loyalty incentives
- Seamless experience: Integrate with airport app, queuing technologies, retail and F&B



#### **Example of a Product Pricing Matrix**

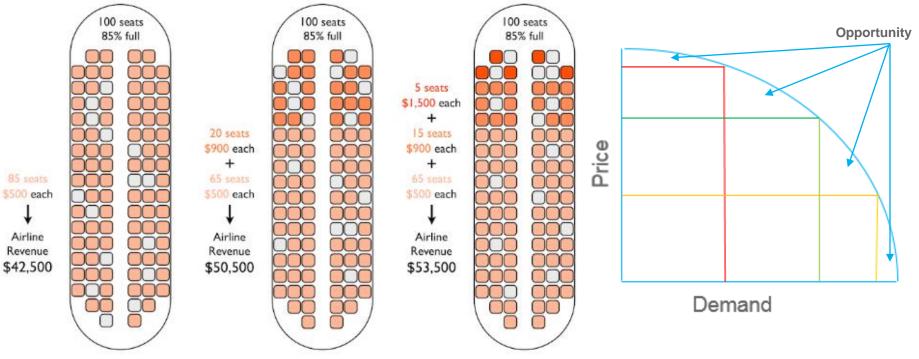


Revenue Growth Reimagined

#### **Optimize Revenue with Yield Management**

Product and price differentiation results in more touchpoints along the demand curve and greater revenue opportunities

• Pricing may be rules-based, seasonal, opportunistic



### **Typical Yield Management Approach**

#### Always Cheaper Online

Best customer incentive to book online

Supports marketing efforts

Satisfies pricing policy

Provides certainty for customer

#### Demand Based Pricing

Competitive pricing for early booking

Increase price when demand is high or arrival imminent

Vary price based on booking pace

#### Product Mix by Stay Length

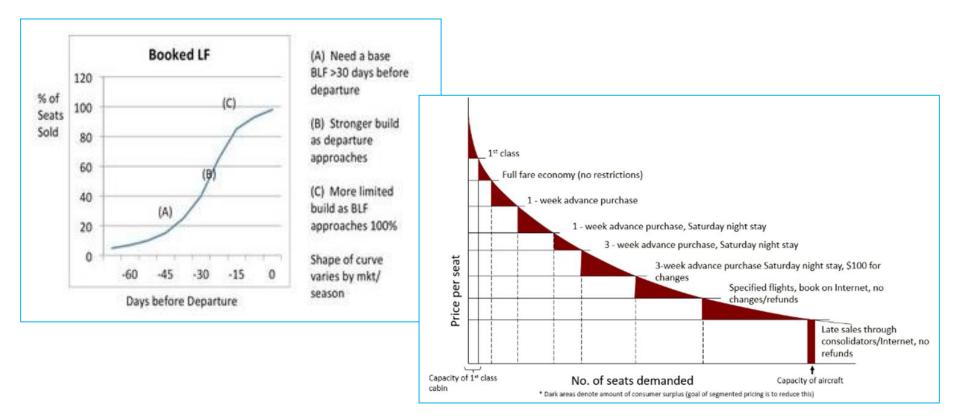
Maximize shorter stay sales in Terminal lots

Maximize longer stay sales in Economy lots

Provide visibility to products based on length of stay and day of week



### **Standard Yield Curve & Pricing**





### **Generally Accepted YM Theory**

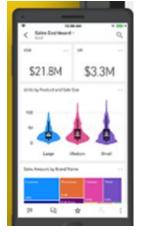
- Leisure travelers usually book further in advance and stay over weekends and/or for longer durations
- Leisure products/prices are targeted at specific days of entry and durations
- Business products/prices are targeted at mid-week and shorter stay lengths
- Seasonal fluctuations occur, affecting the demand curve
- Booking windows seem to be shortening over time



# **Systems Supporting Dynamic Pricing**

#### **Business Intelligence**

- For true yield management, airports must combine occupancy, revenue and transaction data from drive up (PARCS) and online (OBS)
- It is also very useful to integrate pax data, budget and prior comparable period data
- Approaches to BI systems
  - Create your own using a standard tool such as Tableau, PowerBI, Domo
    - Tableau is in use at SEA, TPA, RDU
  - Use a more sophisticated enterprise BI tool such as MicroStrategy, Oracle
  - Buy a pre-built tool by companies like Smarking or Kowee
    - Smarking is used by BOS, SAN





## **Systems Supporting Dynamic Pricing**

#### **Revenue Management**

- RM systems automate the optimization of prices across multiple products over time – forecast and demand-based
- Examples:
  - **IDeaS** is in the USA (e.g. PANYNJ, RDU), Europe (e.g. Heathrow Liverpool) and Australia (Sydney, Auckland)
  - **Kowee** is a European supplier currently in Aeroports de Paris, Lyon, Bordeaux, Nice, Southampton, etc.
  - **GrayMatter** is in Stockhom and Gottenburg





## **Common Products**

- Tiered products and pricing by proximity, amenity, service level
  - Valet
  - Concierge
  - Premium (closest to terminal)
  - Terminal (short or long term walk in lots)
  - Economy (train or bus)
  - Economy garage or covered spaces
  - Guaranteed Space
  - Corporate
  - Monthly
  - Loyalty



P6



TERMINAL

Covered Parking

PREMIUM

Distance Services

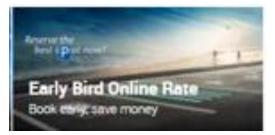
Short Walk to the Terminals.





#### **Less Common Products**





#### PASS PRIVILEGE

Available at: - Orly : P0 + P1 + P2 + P3 and associated motorbike parks

#### PASS ECO

Available at: - Orly : P5 + P6 + P7

#### PASS MOTOS

Available at: - Orly : P0 motos + P1 motos + P2 motos

#### PASS UNIQUE

Available at: - Orly : 1 park only to choose between P2 and P3

Professionnal Packages Only for people working at Paris-Orly or Paris-Charles de Gaulle

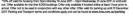


## **Digital Marketing Sophistication**

#### Digital outreach is the most suitable for dynamic pricing

- List building, email marketing and customer relationship marketing (CRM) use tools like MailChimp, Salesforce, SurveyMonkey
- Search engine optimization and marketing (pay per click) use tools like Google Analytics, SessionCam (journey mapping)
- Marketing personalization and automated media optimization use tools like HubSpot, Marqueto
- Social media and content marketing use tools like BuzzSumo, Brand24
- Target competitors with geo-targeting, polygonal targeting and attribution, app-based marketing
- Target travelers as they search and buy with travel data providers, e.g. Adara, Expedia





0	Journey Co	onversion Decrease		
		© Last 30 day		
	30%1	Conversion dropped on this page		
	3070+	E19,121 revenue at risk		
	Page: /tab:	s_property/booking		



## **Trends In Parking**

- APCOA now implementing variable drive up rates
- Use of Bluetooth beacons to call up stored entry credentials (QR codes) or as an integrated identifier (HUB)
- Virtual nested areas with camera-based PGS
- Increased integration with tolling operators
- **Charging curbsides** for meet and greet passengers
- Automation, e.g. Stanley Robotics
- App integration for payments, for presenting an integrated customer journey
- More focus on Loyalty programs
- Privatization and outsourcing to lower risk
- More payment options e.g. ApplePay, Paypal, etc.
- Increased regulation of privacy and security GDPR







#### **Questions?**

For more information, contact:

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DRAFT



# CHARLOTTE DOUGLAS INTERNATIONAL AIRPORT PARKING PROGRAM PRESENTATION

#### ACI Business of Airports Conference - 2019

CITY OF CHARLOTTE DEPARTMENT













NUMBERS &



#### 2018 **ACI RANKINGS\***

6th IN AIRCRAFT MOVEMENTS

**1** th IN TOTAL PASSENGERS

31 ST IN TOTAL CARGO

Source: Airports Council International (ACI) 2018 preliminary rankings.

\*Nationwide

CLT is financially self-sustaining. No general fund revenues are appropriated to the facilities or operation.







Source: NC Department of Transportation Division of Aviation

**AIRLINES** 

178 NONSTOP DESTINATIONS 37 INTERNATIONAL DESTINATIONS

THREE 💻 💷 **US TERRITORIES** 

SEVEN DOMESTIC AIRLINES

FOREIGN FLAG AIRLINES

THREE 😯 😯 😯

# **CLT Parking Program Overview**

Over 28,000 public parking spaces available in the following categories:

- Business Valet 7,491 Spaces
- Hourly Deck 4,350 Spaces
- East and West Deck 5,815 Spaces

- Daily North Lot 1,112 Spaces
- Long Term Lots (1 & 2) 8,021 Spaces
- Overflow Lots (1 & 2) 2,342 Spaces

In 2018, CLT had over 2 million parking transactions, bringing in over \$49 million dollars in non-aeronautical revenue.





# Parking Challenges

#### CLT's Parking Program has experienced the following challenges to its parking program over the last few years:

- On-going Construction
  - Construction at the terminal curb front has been on-going for the last 3-years due to the Airport's Elevated Roadway Project.
  - With the completion of the Elevated Roadway project this summer, the airport will begin a 5-year Terminal Lobby Expansion project which will have serious impacts to the access to the terminal curb front.
- Increased/increasing competition from offsite parking operators. CLT has competition from two existing companies, and anticipates a third off-site operator opening within the next year.
- Increased growth of transportation network companies (TNCs) i.e. Uber/Lyft
- Dated Parking Software and Equipment

While revenues continue to grow, driven by the re-opening of the hourly garage, growth has slowed and revenues have begun to flatten due to these challenges



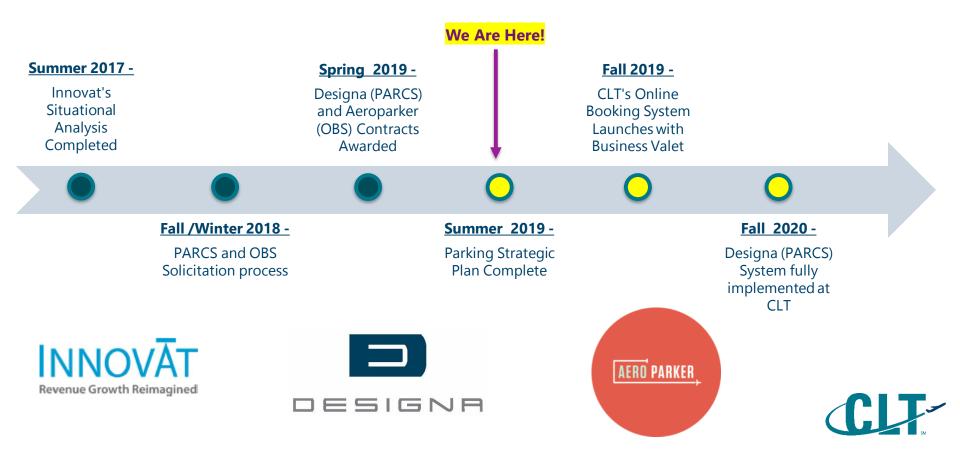
# Parking Strategies and Changes

#### Innovat International:

- In 2017, the Airport contracted with Innovat International to provide the Airport a master parking strategic plan to better understand how to effectively manage, expand and modernize the Airport in a way that benefits customer experience and promotes additional revenue growth.
- Innovat completed the situational analysis for this plan in late 2017 and recommended that the Airport pursue the following changes to their parking program:
  - Solicit and Implement a new Parking and Revenue Control System (PARCS) with modern capabilities (BI reporting, LPR, OBS Integration)
  - Solicit and Implement a Online Booking System (OBS) to allow for dynamic pricing
  - Build a parking data cube where activity and revenue data can stored and enable quick responses to trends
- The Airport has since gone through a solicitation for a new PARCS and OBS. In 2018 the Airport awarded a PARCS contract to Designa Access Corporation and an OBS contract to AeroParker. These system implementation are currently underway.



# Schedule for Changes



## Next Steps

#### CLT will finalize the Strategic Parking Plan this summer, which will include the following components:

- Technology use and product definition
- Fee structure and parking model integration
- Promotion and marketing strategies

## These components will allow the Airport to finalize the full pricing scheme for the various parking products, which will include:

- Lower rates available for customer who book online versus a flat rate for drive-up customers
- Ability to market and sell additional Airport services, i.e. car wash, common use lounges, food and retail.
- Promote a loyalty program for corporate customers as well as individual parkers



# Marketing and Promotions

- The Airport entered into a commercial management contract with Aeroparker, separate from the booking system, Aero will provide the following services to CLT to promote and market the Airport's booking system and parking products:
  - o Online and Offline Marketing setup
  - Paid search management
  - o Social and email marketing
  - o Promotional activity for inclusion in email and loyalty channels
- The Airport has also contract with a third party marketing agency (Chernoff Newman), which will not only work to provide the Airport with a new parking branding, but will also provide more traditional marketing services focused on the media, print and outreach.
- Both companies will promote the Airport parking programs and the access to these services via the Airport new redesigned website and brand new mobile app.



# **CLT Mobile App and Website Launch**

Il Verizon 🗢

CLT-

Q Search

P

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Dashboard

**Find Your Flight** 

How Can We Help You?

The best parking option for you

Get Through Security Faster

Airport Info Shop & Dine

More

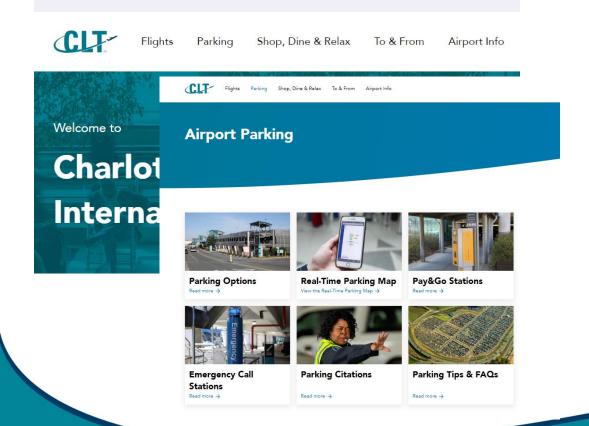
Everything you need to know

Shop, Dine & Relax

Explore before you fly

Flights

12:40 PM



# What it will look Like....

#### Book your parking in 4 easy steps



Our International Airport offers safe, secure, convenient and economical parking options for long or short-term travel, so pre-book today and guarantee your space

Entry Date	Select Time	Exit Date	Select Time		
05/23/2019	🛗 5:00 PM 🥝	05/30/2019	📋 5:00 PM 🥝	Book now	•
				Apply Promo Code	

hange entry date and time	Change exit date and time		
05/23/2019 🛗 5:00 pm 🥝	05/30/2019 🛗 5:00 pm 🥝	Apply	Sort by price (low-high)
P Long Term	P Daily Deck	P Business Valet	P Curbside Valet
Free shuttle - Every 10 mins 15 mins	Free shuttle - Every 5 mins	5 mins Free shuttle - Every 5 min 2 mins	NS Walk to terminal
<ul> <li>On-airport parking for less</li> <li>Complimentary shuttle service is provided to and from shelters in each i</li> </ul>	Combining cost & convenie     Complimentary shuttle serv     from the terminal		your vehicle for you
Remote Lot Prices	Our closest Park & Ride Only 1 space left	We'll do the parking for you 50 spaces left	Our most premium service 13 spaces left at this price
\$43.00	\$56.00	\$80.00	\$175.00
Book now and save \$12.00	Book now and save \$14.0	0 Book now and save \$18.00	Book now and save \$70.00
Book now	Book now	Book now	► Book now ►
More Info Map	More Info Map	More Info Map	More Info Map

Login Manage Booking

VISA PayPal



# What it will look Like....

Once you complete your booking, the website will provide you with a mapping guide, and then provide you with your chosen access credential to utilize at the chosen parking product







# **Access Credentials**

CLT will have the ability to allow customers to utilize the following mechanisms to provide access into the various parking products:

- License Plate Recognition (LPRs)
- Credit Card in/out
- Proximity Cards for registered parkers (including employees)
- QR Codes for public registered parkers



## **Questions?**



## **Thank You!**





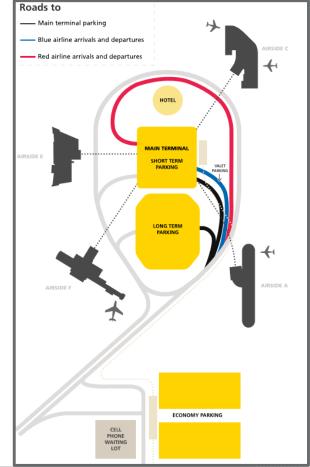
#### The Next Generation in Airport Parking Business Models



Tampa International Airport

## **TPA Parking Overview**

- \$71M annual revenue
- 95% market share
- Short Term Garage 3,571 spaces
  - \$20 Daily maximum rate
  - Annual occupancy 65%
  - Valet Parking
- Long Term Garage 7,945 spaces
  - \$18 Daily maximum rate
  - Annual occupancy 68%
- Economy Parking Garage 11,290 spaces
  - \$10 Daily maximum rate
  - Annual occupancy 45%





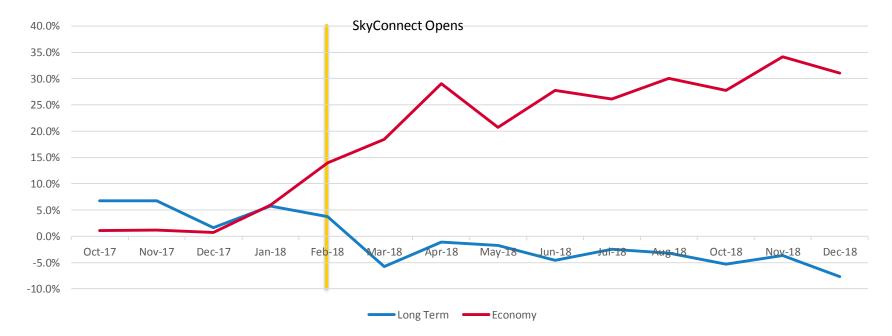
#### **Historical Parking Revenue**

#### \$80,000 \$71.3M \$70.6M \$68.8M \$66.9M \$70,000 \$60... \$60,000 25% 28% 23% 23% \$20,000 \$40,000 \$30,000 22% 50% 49% 46% 51% 51% \$20,000 \$10,000 24% 23% 23% 25% \$0 FY15 FY16 FY17 FY18 **FY19** Forecast ST Valet LT Eco

Parking Revenue FY15 - FY19



#### Parking Update SkyConnect has transformed parking demand at TPA

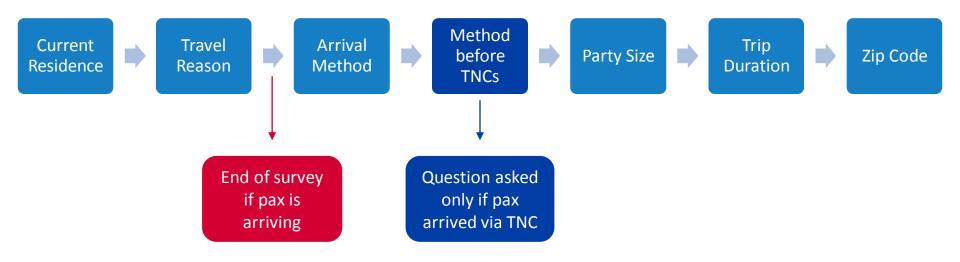


#### \*Paid Transactions excluding September as it was skewed by Irma

s 2019



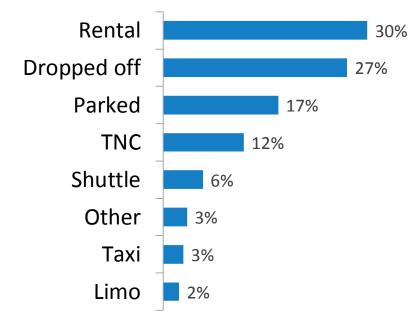
#### TNC Impacts Survey Questionnaire



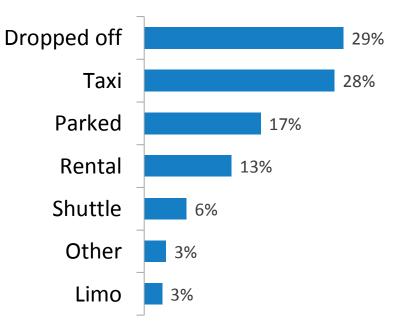


## **Arrival Method**

By what means did you arrive at the Airport today?

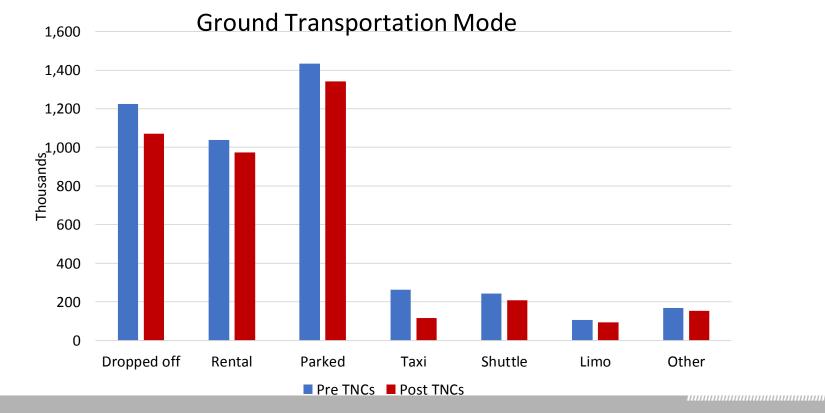


Before rideshare services such as Uber and Lyft were available, what was your primary means of transportation to the Airport?





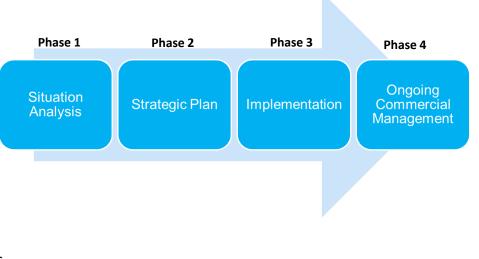
### **Transaction Impacts**





### **Commercial Parking Business Evolution**

- 2016
  - Onboard Parking Revenue Consultant
- 2017
  - Complete Situation Analysis
  - Onboard Director of Commercial Parking
  - Procured Online Booking System Provider
- 2018
  - Developed Online Booking System
  - Built Strategic Parking Plan
    - Rate change
    - Strategic Marketing Plan
    - Proposed Parking Policy Change
- 2019
  - Consolidate Parking Revenue and Operations
  - Begin Implementation

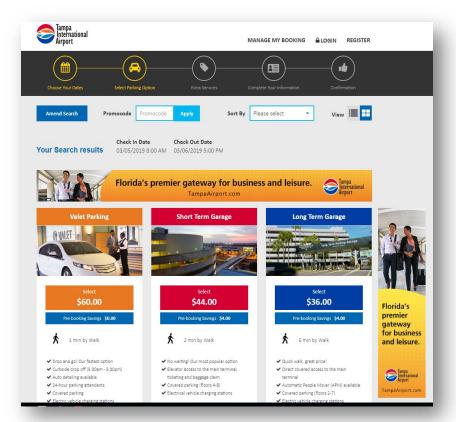




#### **Parking Strategy**

#### Benefits of Parking Strategy:

- Significant annual revenue growth
- Incentivizes customers to use higher-yield parking products
- Enhances customer service by offering value added services, promotional pricing, and customer upgrades
- Improves operational efficiency
- Provides staff with customer insights and data
- Remains top of mind for customers through active marketing
- Delivers on customer expectation for online capabilities



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#### **Parking Strategy**







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#### **Discussion & Questions**

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## If You Don't Think Things Are Changing......

- Joint venture between Terrafugia and Volvo
- Taking orders now
- Delivery scheduled for 2023



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Business of Airports Conference July 11, 2019