HOUSTON AIRPORT SYSTEM · HOUSTON, TEXAS







Presented by J'Maine Chubb

Deputy Director of Finance, Houston Airport System

Disclaimer

This Investor Presentation is provided for your general information and convenience only, is current only as of its date and does not constitute an offer to sell or a solicitation of an offer to buy securities. The information contained herein does not constitute a sufficient basis for making a decision with respect to the purchase or sale of any security. All information regarding or relating to bonds issued or to be issued by the City of Houston (the "City"), either as general obligation debt or through its enterprise funds, the Combined Utility System, the Houston Airport System or the Convention and Entertainment Department, is qualified in its entirety by the relevant Official Statement and any related supplements and continuing disclosure. Investors should review the relevant Official Statement and any related supplements and continuing disclosure before making a decision with respect to the purchase or sale of any bonds issued or to be issued by the City or any of the City's enterprise funds. In addition, before purchasing any bonds issued or to be issued by the City or any of the City's enterprise funds, please consult your legal and financial advisors for information about and analysis of the bonds' risks and their suitability as an investment in your particular circumstances.

With respect to each section of this Investor Presentation, such section contains information from sources believed by the City to be reliable but which information is not guaranteed as to accuracy. The financial data and other information provided herein are given in summary form and not warranted as to completeness or accuracy and are subject to change without notice. Certain of the information set forth herein has been derived from external sources that have not been independently verified and no representation or warranty expressed or implied is made as to, and no reliance should be placed on the fairness, accuracy, completeness or correctness of, the information or opinions contained herein. None of the city officials or their respective representatives or agents, including any underwriters of bonds issued or to be issued by the City, shall have any liability whatsoever in negligence or otherwise for any loss however arising from any use of this Investor Presentation or its contents or otherwise arising in connection with this Investor Presentation or any other information or material discussed.

By viewing this Investor Presentation, you agree not to duplicate, copy, download, screen capture, electronically store or record this Investor Presentation except for your own personal use, nor to produce, publish or distribute this Investor Presentation in any form whatsoever. There may have been events that occurred subsequent to the date of the Investor Presentation that would have a material adverse effect on the information presented herein.

The City and/or its enterprise funds are under no obligation to update any of the information set forth herein. No dealer, broker, salesperson or any other person has been authorized to give any information or to make any representation in connection with the City or any bonds issued by the City, and if given or made, such other information or representation must not be relied upon as having been authorized by the City.

This Investor Presentation includes forward-looking statements based on current beliefs and expectations about future events. Forward-looking statements include financial projections and estimates and their underlying assumptions, statements regarding plans, objectives and expectations with respect to future events. Forward-looking statements are not guarantees of future performance and are subject to inherent risks, uncertainties and assumptions, and changes in economic conditions globally or in the State of Texas and political and regulatory factors. Those events are uncertain; their outcome may differ from current expectations which may in turn significantly affect expected results. Actual results may differ materially from those projected or implied in these forward-looking statements. Any forward-looking statement contained in this Investor Presentation speaks as of the date of this Investor Presentation.









Mission:

We exist to connect the people, businesses, cultures and economies of the world to Houston.

Our Vision:

Establish the Houston Airport System as a five-star global air service gateway where the magic of flight is celebrated.



Recent Accolades

A leading global air transport rated organization committed to attaining 5-star level status

IAH and HOU retain 4-stars





IAH

- #1 Best Airport Website & Digital Services
- #5 Best Airport Dining
- #5 Best North American Airports
- #6 Best Airports, 40-50M passengers

HOU

- #6 Best US Regional Airports
- #9 Best Airports 10-20M passengers

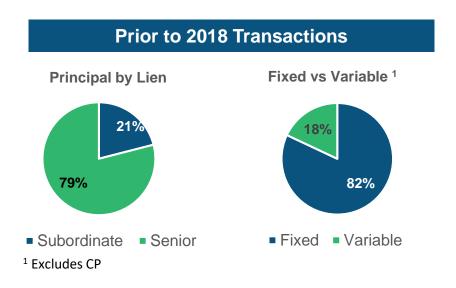
Source: Skytrax March 2019.

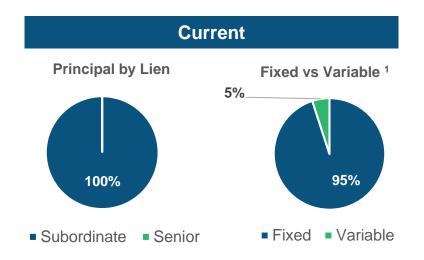


Recent transactions

HAS maximized the use of refundings for savings and to reduce variable rate exposure in 2018

- ✓ GARB Refunding Bonds August 2018
 - City of Houston Airport System Subordinate Lien Revenue Refunding Bonds, Series 2018C (AMT) & D (Non-AMT / AMT Holiday) (\$569M)
 - The 2018C Series bonds refunded \$242.3M of auction rate securities with subordinate lien fixed rate bonds
 - The subordinate lien Series 2018D bonds refunded the senior lien 2009A bonds for PV savings and preserved the AMT holiday status of this private activity debt







Houston Airport System

Three-airport system managed and operated by the City's Department of Aviation (HAS) serving the nation's fifth-largest metropolitan area

- George Bush Intercontinental (IAH) –
 international gateway hub
 - ✓ United's 2nd largest hub



✓ Southwest's 7th busiest airport



 Ellington – NASA, general aviation, military and spaceport

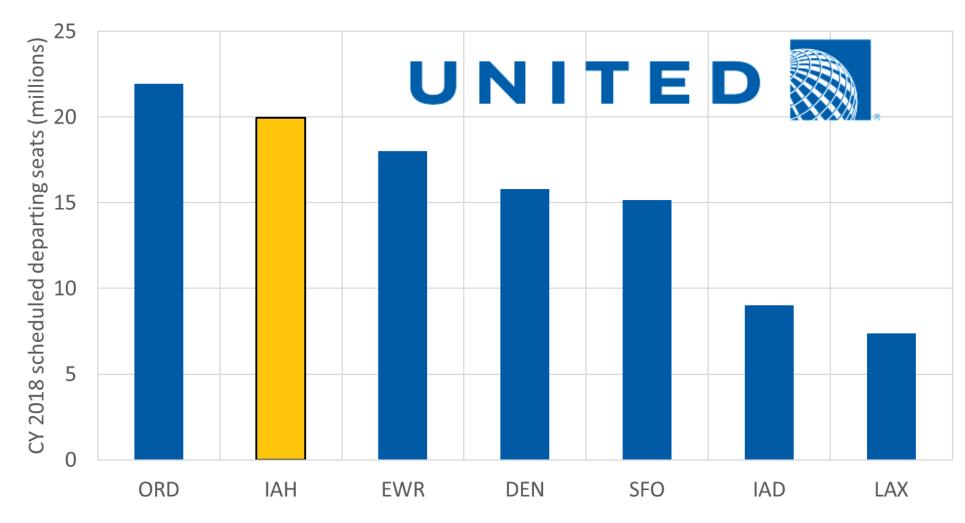
	IAH	HOU	TOTAL
Enplaned passengers (M)	21.9	7.3	29.2
Share domestic	75%	93%	80%
Originating percentage	55%	69%	58%
Average daily departures	614	169	783
Number of gates	128	30	158





George Bush Intercontinental (IAH) is still United's 2nd largest hub

IAH maintained position as United's second largest hub with nearly 20 million scheduled seats during calendar year 2018



Source: Innovata database, accessed April 2019.







Investing in George Bush Intercontinental (IAH)

New international facilities will also include a new centralized international check-in hall



New centralized International Processor Hall where all Foreign Flag airlines and United's international passengers will check-in

- Expand and improve efficiency of existing FIS by consolidating two checkpoints into one and adding three additional claim devices
- Adding a new domestic baggage claim area
- Associated enabling projects (utilities, etc.)
- Budget \$370M



Investing in George Bush Intercontinental (IAH)

United has broken ground on a new Technical Operations Center



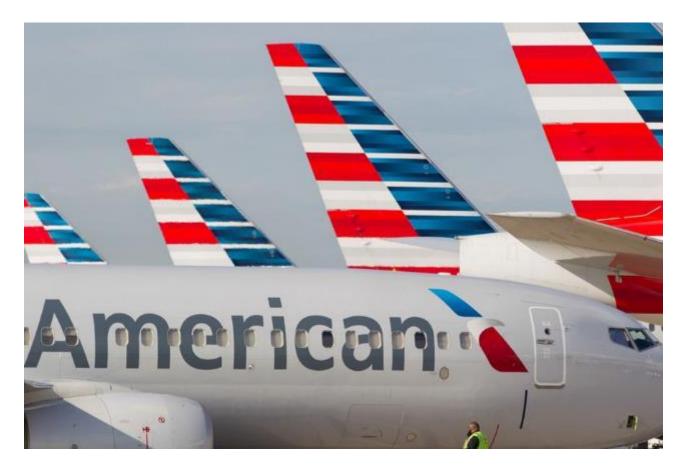






Investing in George Bush Intercontinental (IAH)

America Airlines to Open Line Maintenance Station Beginning in June



AA's 29th Line Maintenance station will provide additional support for increased maintenance needs.

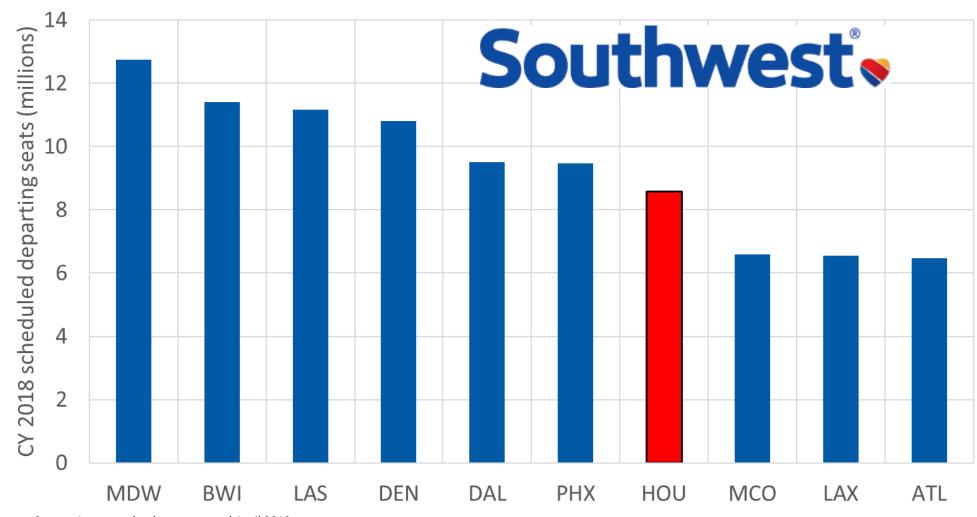
Almost <u>50 jobs</u> will be created with bulk including Aviation Maintenance Technicians.

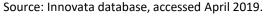
Maintenance will be performed on Boeing 737 and Airbus A319, A320 and A321 aircraft.



William P. Hobby (HOU) is Southwest's 7th busiest airport

Southwest surpassed 8.5 million scheduled seats in 2018; nearly 2 million over Orlando







Investing in William P. Hobby (HOU)

Southwest is currently erecting a new hangar complex at Hobby

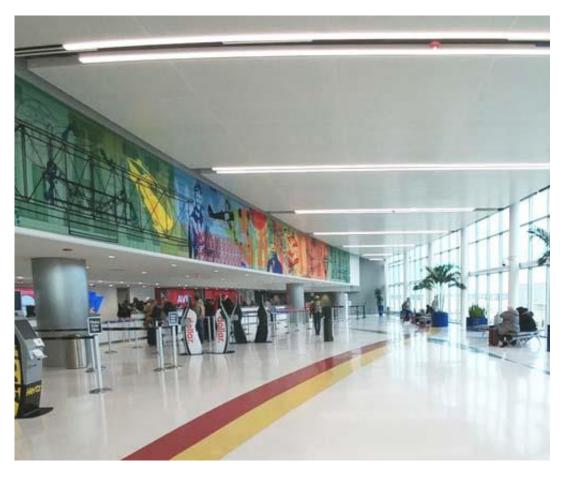






Investing in William P. Hobby (HOU)

Consolidated Rental Car Facility (CONRAC)

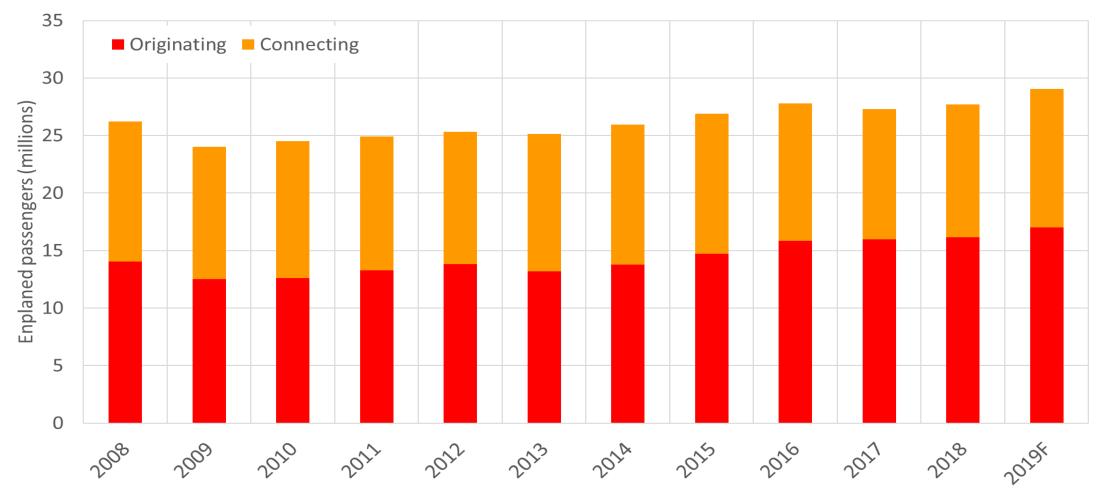






Originating traffic remains strong

HAS Originating traffic has held strong as passenger enplanements approaches 30 million



Source: HAS records.

Fiscal years ending June 30

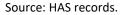


International traffic has remained positive in recent years

With growing traffic at Hobby, Houston Airports had nearly 6 million international enplaned passengers in FY18



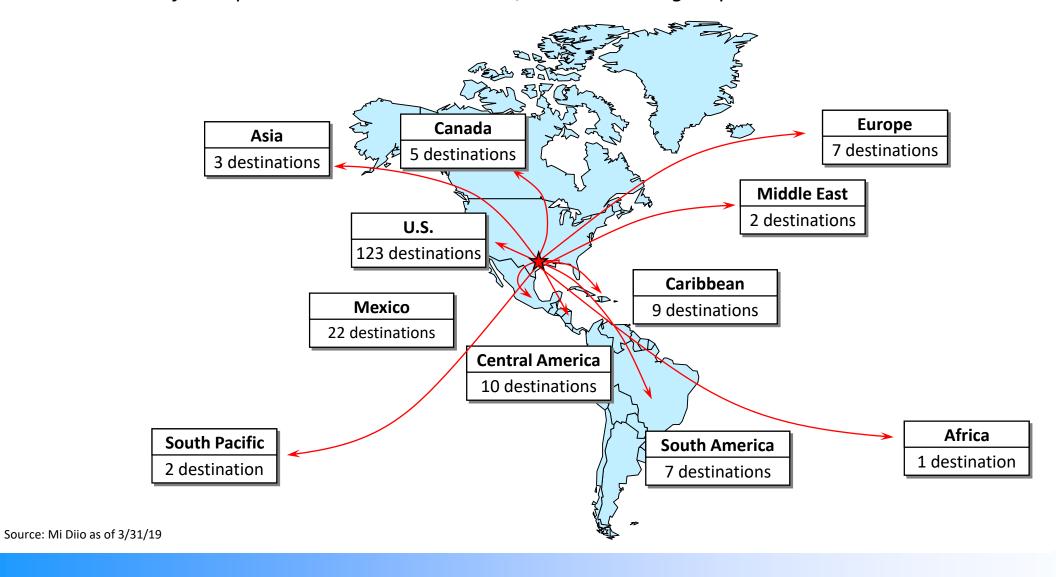
Fiscal years ending June 30





IAH has nonstop service to 6 continents

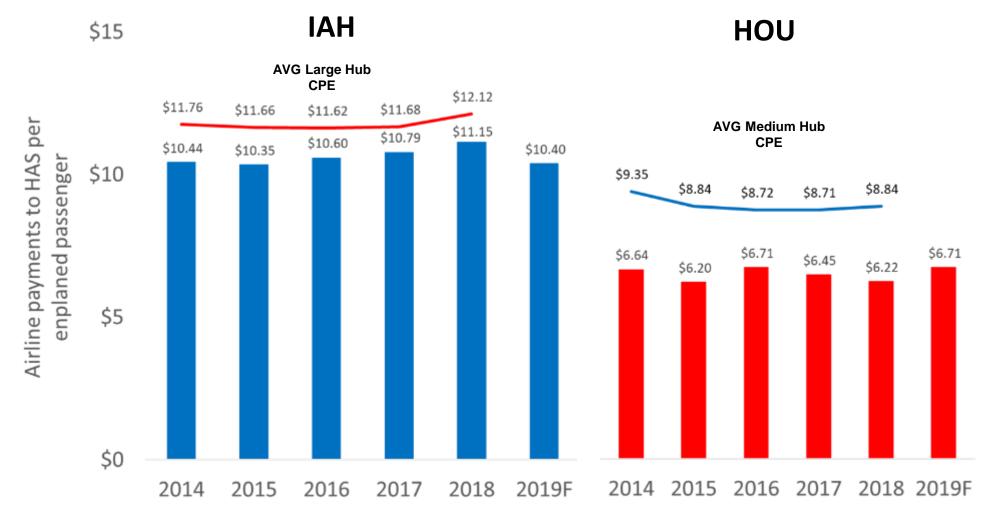
With the addition of Ethiopian airlines in summer 2019, IAH will once again provide service to all 6 inhabited continents





IAH and HOU have competitive airline costs

Houston remains an attractive hub for major carriers that desire to add or expand service



Source: HAS records. Amounts are payments to HAS only (excludes special facility bond debt service payments and building maintenance expenses paid directly by United) and 11/2018 CPE report prepared by: WJ Advisors, PH2 Consulting & Airmac.



Debt service coverage remains strong

Houston Airports has managed to its DSCR targets consistently over the past several years

	2015	2016	2017 ¹	2018	2019F ²	CAGR, 2015-19
Revenues						
Airline	\$263.9	\$274.9	\$280.9	\$287.9	\$282.6	1.7%
Nonairline and all other	225.9	220.9	229.6	234.5	241.2	1.7%
Total	\$489.8	\$495.8	\$510.5	\$522.4	\$523.8	1.7%
O&M expenses	\$283.6	\$314.7	\$314.5	\$326.9	\$317.7	2.9%
Net revenues	\$206.3	\$181.1	\$196.1	\$195.5	\$206.2	0.0%
Debt service	\$163.3	\$163.9	\$175.0	\$174.5	\$176.9	2.0%
Less: PFCs	(38.1)	(42.3)	(54.7)	(50.6)	(60.6)	12.4%
Less: Grant revenues	(16.4)	(13.9)	-	-	-	-
Net debt service	\$108.9	\$107.7	\$120.4	\$123.8	\$116.3	1.7%
Debt service coverage	1.89	1.68	1.63	1.58	1.77	



HAS Senior & Subordinate Lien Debt Overview

Approximately \$1.9 billion in outstanding bonds or about \$66 per enplaned passenger^{1,2}

Series	Tax status	Coupon type	Outstanding par
Senior Lien			
	None outstanding		
Subordinate Lien			
Series 2000B	Non-AMT	Fixed	\$44,515,00
Series 2002A	AMT	Fixed	20,005,00
Series 2002B	Non-AMT	Fixed	27,450,00
Series 2010	Non-AMT	Variable rate	92,305,00
Series 2011A	AMT	Fixed	209,370,00
Series 2011B	Non-AMT	Fixed	64,475,00
Series 2012A	AMT	Fixed	275,315,00
Series 2012B	Non-AMT	Fixed	217,135,00
Series 2018A	AMT	Fixed	130,550,00
Series 2018B	Non-AMT	Fixed	285,220,00
Series 2018C	Non-AMT	Fixed	212,820,00
Series 2018D Non-AMT	Non-AMT	Fixed	356,290,00
		\$1,935,450,00	
Total			\$1,935,450,00

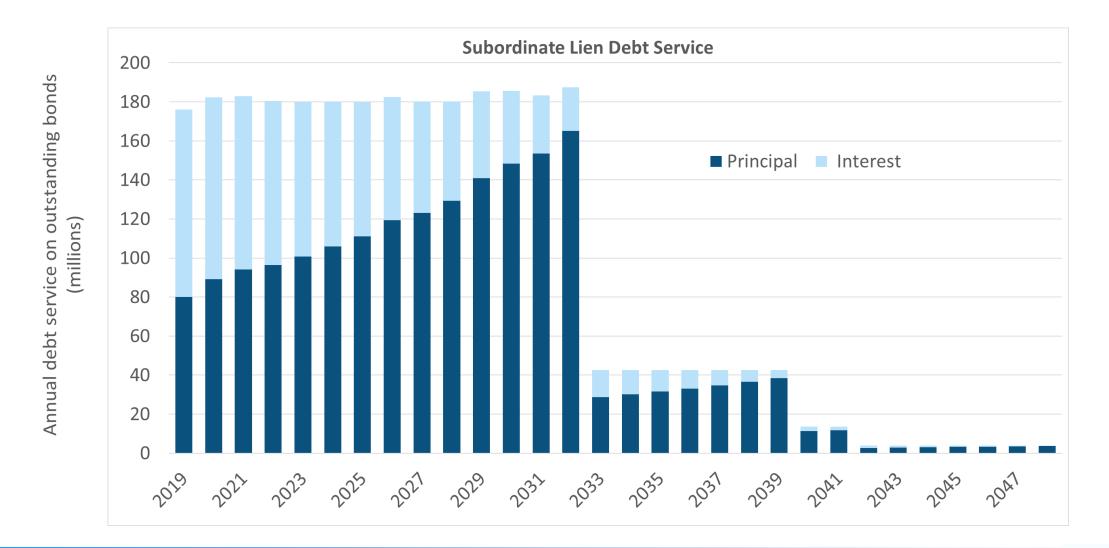
¹ Outstanding debt as of 4/1/2019; 2018 calendar year enplanements.



² Excluding CP - \$40.5M outstanding as of 3/31/2019

HAS Subordinate Lien Debt Service

The system's debt profile allows HAS the ability to shift debt beyond fiscal year 2032



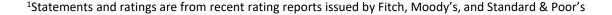


HAS ratings and credit strengths¹

Extremely strong enterprise risk profile with stable outlook

- Monopoly position, managing both commercial service airports in the combined statistical area
- Economically strong air service market area with strong population growth
- Geographic location that supports hub operations

	Moody's		S&P		Fitch	
Senior Lien	Aa3	Stable	AA-	Stable	NR	
Subordinate Lien	A1	Stable	A+	Stable	А	Positive





Conservative approach towards debt management

Optimizing alternative sources of financing and making capital investments as needed

Management debt objectives for 2019

- Continue to monitor opportunities to capitalize on savings when interest rates are favorable
- Optimize Passenger Facility Charge and grant funding to minimize debt service requirements
- Maintain a minimum Debt Service Coverage Ratio of 1.5x or reject projects; seeking alternatives that allow targets to be met.



Projected capital improvement plan funding sources

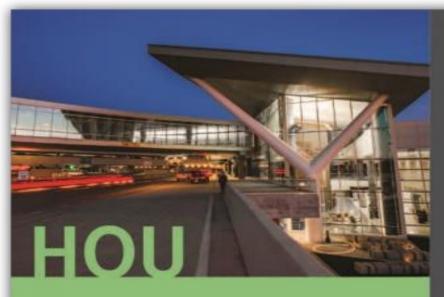
HAS plans to use a mix of varied sources to fund the proposed FY20-24 CIP

City of Houston Aviation Department 5 Year Capital Plan Projected Funding (000s)							
Facility Location	FY20	FY21	FY22	FY23	FY24	FY20 - FY24	
HAS CIP Totals	\$544,338	\$978,325	\$405,538	\$36,237	\$87,162	\$2,051,600	
Projected Funding Source*							
Airport Improvement Fund	\$115,638	\$184,651	\$99,357	\$5,558	\$21,355	\$426,559	
Bonds/Commercial Paper	239,771	382,868	206,013	11,522	44,278	\$884,452	
Pay-Go PFCs	116,582	186,158	100,168	5,602	21,529	\$430,039	
AIP/FAA Grants	72,347	49,648	0	13,555	0	\$135,550	
Special Facility Debt	0	175,000	0	0	0	\$175,000	
Total	\$544,338	\$978,325	\$405,538	\$36,237	\$87,162	\$2,051,600	



^{*} Projected appropriation timing only (not actual cashflow or issuance timing. The table reflects the projections and estimates of HAS; Houston City Council has not approved this plan.

Questions?



Houston. The only city in the Western Hemisphere with two four-star airports.







CONNECTIONS

www.fly2houston.com/subscribe





