

TUG Meeting, Mar 15, 2023

AGENDA

- **Maria Sheridan** and **Scott Marsh**, PANYNJ Airport Manager and Manager Airport Operations and Security, respectively, will provide an Airport Operations update.

YTD 2023 Ops up 15% in Q1
Int'l arrivals up 40%
756 on Dec 4

Comm Upgrades

- Bldg 27- FRFF House
- REILs on Rwy 19 & 24

FAA Construction

- Rwy 01 VASI to PAPI
- Power distribution upgrades

High Volume Days - March 17, 22, 27-31

April 6-9, 6

May 6, 14, 17, 19, 20, 29

May 22 - TEB Community Benefit Golf Classic
@ Basking Ridge Country Club

- **Laz Arteaga**, FAA KTEB ATCT Manager will introduce new Operations Manager **Marina LeBron**, and provide an update regarding Tower topics to include RUUDY 6 SID and RNAV (GPS) Y Rwy 19 Missed Approach procedure compliance.

(8) RWY 6 Deviations in past month (5 altitude deviations)
Also altitude deviations on Rwy 19 Missed Appch

- **Mark Kleinhans**, FlightSafety International Director of Safety, will present "2022 Aviation Safety Year in Review and Safety Training Initiatives", including key takeaways to enhance the safety of flight and ground operations at KTEB and beyond.

2022 - Runway excursions are by far the biggest safety event (but usually not fatal)
CFIT is more rare, but most always fatal

Avg Rwy length for excursion is 6825'. Lighter jets are more susceptible,

There's a correlation between visual approaches and excursions,

Treat 5000-7000' runways with same attention as short runways. Use caution with displaced thresholds.
74% of TAWS warnings receive no action from the pilot.

- **Michael Burger**, Flight Safety International Center Manager - Teterboro Learning Center, will share a presentation describing full- and part-time career opportunities with Flight Training Service providers.

- **Gabe Andino**, Avports, Manager Noise Abate and Environmental Compliance, and **Matt Reese**, Noise Abatement Specialist, will address recent pilot outreach initiatives designed to improve compliance with noise abatement procedural best practices.

Grassroots efforts with pilots & FBOs at TEB

TEB Statistics for DEC 2022, JAN, FEB 2023



Presented at the MARCH 15, 2022 – TUG Meeting

	Dec.	Jan.	Feb.	Ave Change vs 2021/22
Month A/C Ops	14,785	12,071	11,826	2 %
Month Jet Ops	13,140	10,701	10,424	2 %
YTD A/C Ops	167,137	12,071	23,901	15 %
Int'l Arrivals	807	798	613	7 %
YTD Int'l Arr.	9,040	798	1,411	40 %

Highest Activity Day: 756 – Sunday, December 4, 2022



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TEB – Operations Report



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Communications Equipment Upgrades

- Building 27 – ARFF Garage (Fire House)
- REILS (Runway End Identifier Lights)
 - RWY 19
 - RWY 24



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TEB – Operations Report



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FAA Construction

- RWY 01 VASI upgraded to PAPI (2023)
- Power Distribution Upgrades to: (2023)
 - RWY 01 VASI/PAPI
 - RWY 01 REILs
 - RWY 06 GS
 - RWY 06 LOC
 - RWY 24 PAPI
 - ASOS



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TEB – Operations Report



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- Airport Operations – High Traffic Volume Outlook December / January / February
- Coordinate Flight Activities with the FBO of your choice
 - March Events
 - St. Patrick's Day – March 17
 - Ramadan Starts – March 22
 - Spring Break Departure's – week of March 27-31
 - April Events
 - Masters Golf – April 6 – 9
 - Easter – April 9
 - May Events
 - Kentucky Derby – May 6
 - Mother's Day – May 14
 - College End's / Graduations – May 17 – 19
 - Preakness – May 20
 - Memorial Day – May 29



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TEB – Operations Report

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37th Annual Teterboro Airport Community Benefit Fund Scholarship Golf Classic

Monday May 22, 2023

Basking Ridge Country Club



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Mark Kleinhans



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2022 Year In Review in Aviation Safety

15 March 2023

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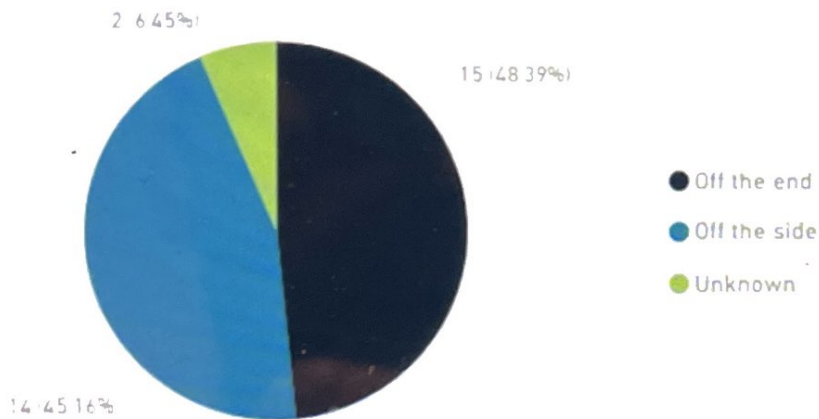
27°F Sunny

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3/15/2023

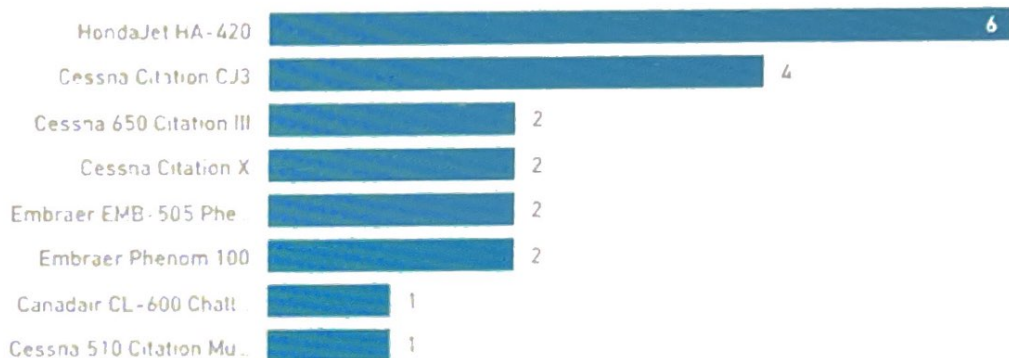
Runway Excursions

6825

Average Runway Length



Aircraft Types



Off the end Off the side Unknown

Destroyed Minor None Substantial Unknown

NORTH AMERICA

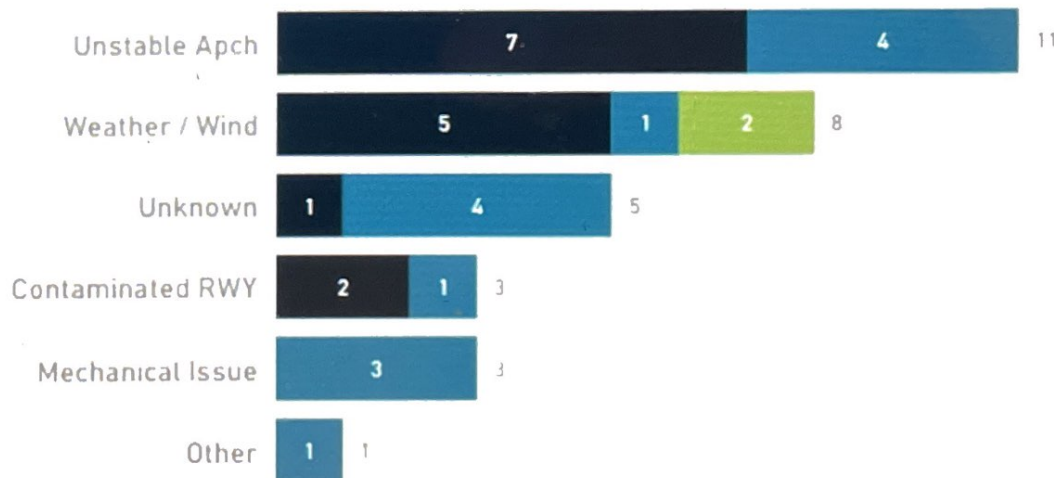
Atlantic Ocean

EUROPE

AFRICA

SOUTH AMERICA

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Accident Description- For Excel Export

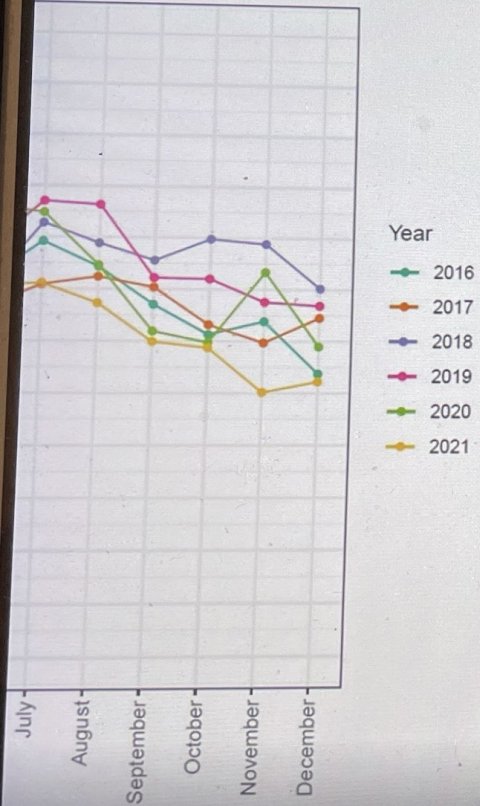
ICAOCode	Type	Description
C25B	Cessna Citation CJ3	Aircraft overran RWY 32 damaging the nose wheel ADS-B data lost within 1 mile final ROD over 2000ipm
Total		

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Seasonal Trends

Seasonal Trend



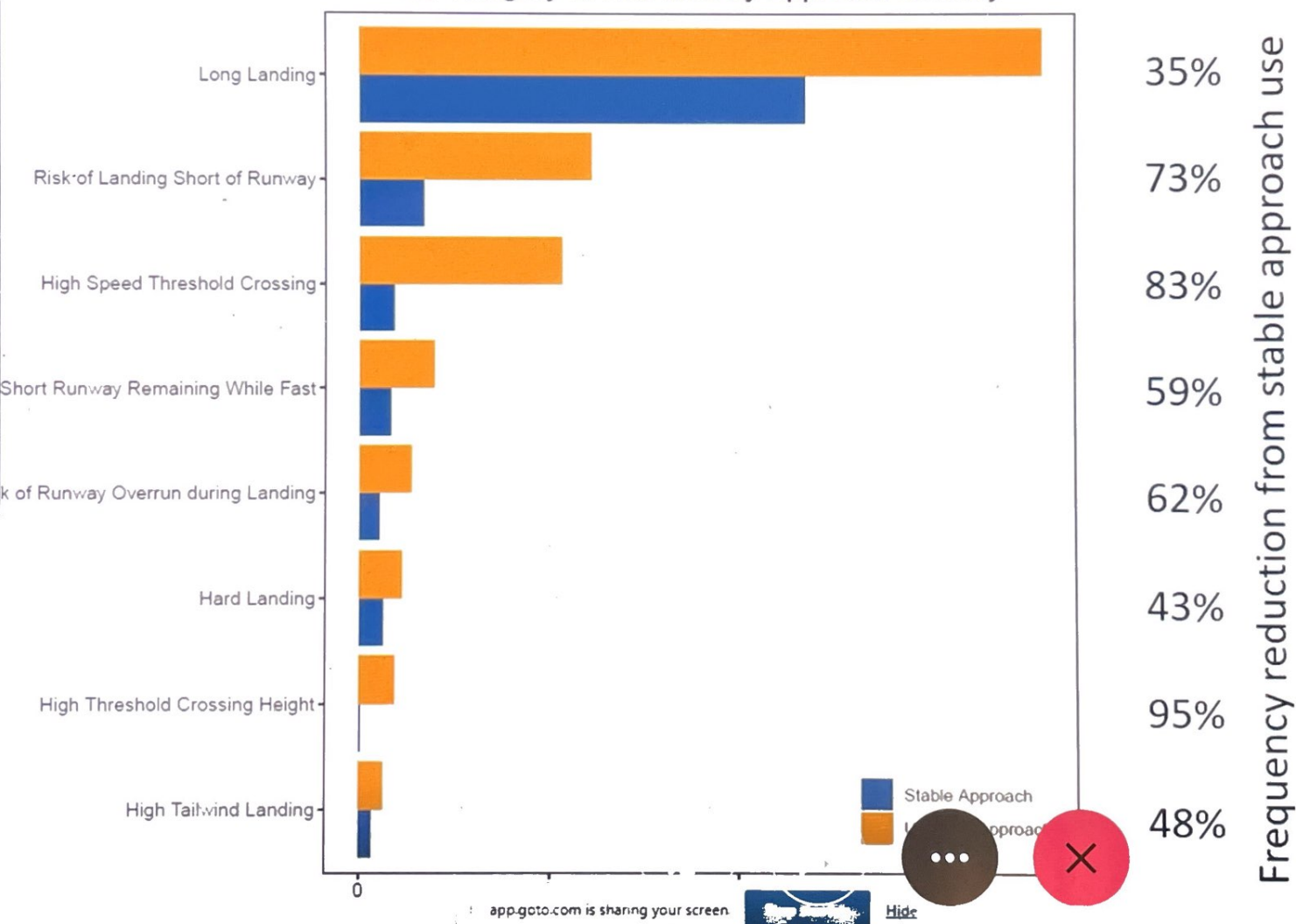
Runway Excursion Seasonal Trend (2016-2021)





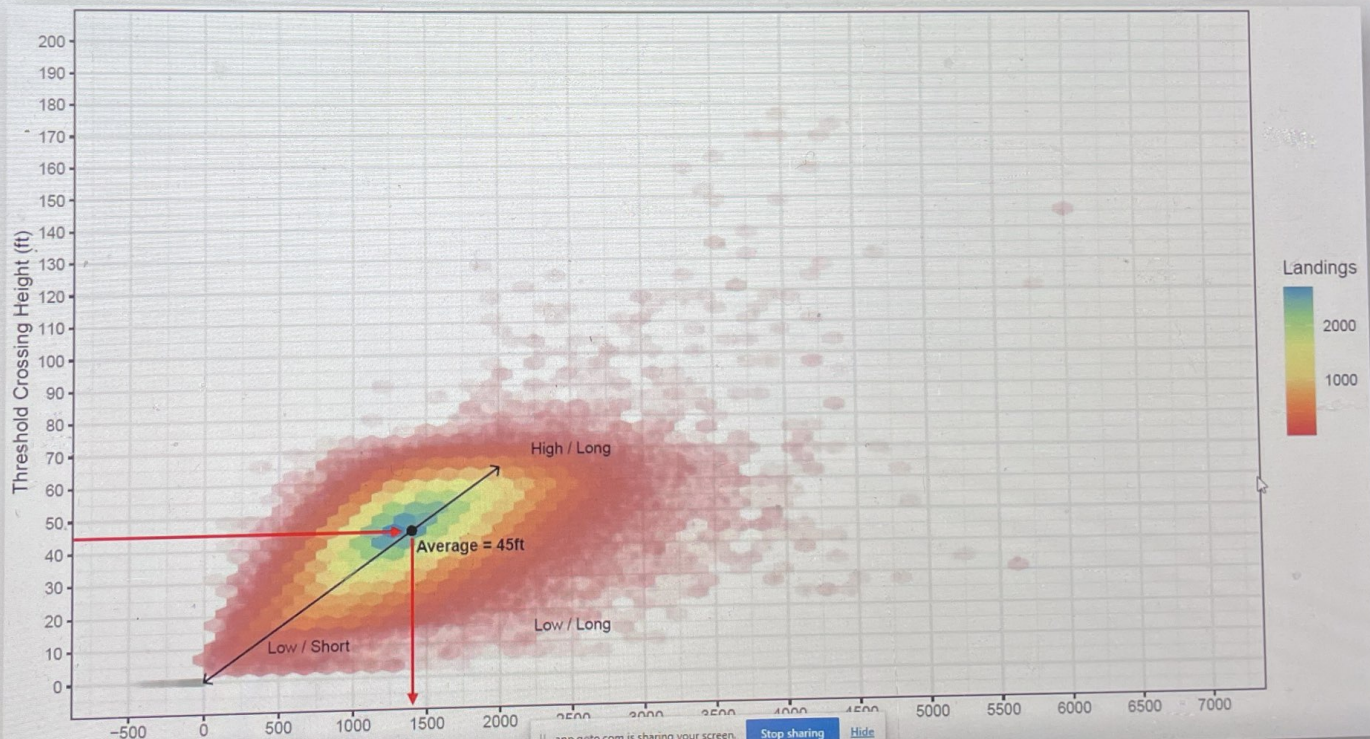
Approach Importance

RE Category Events Rate by Approach Stability





Threshold Crossing Height



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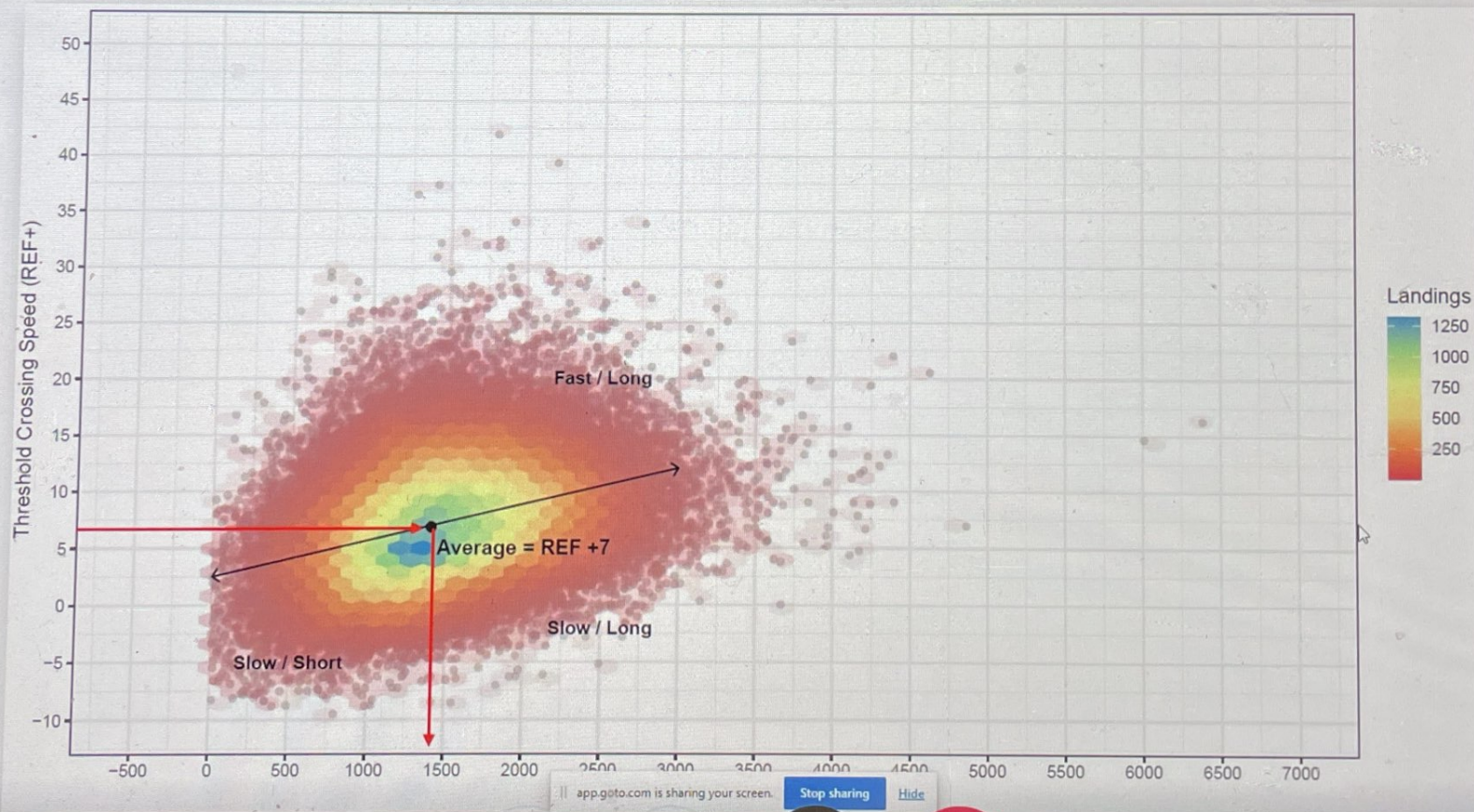
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Threshold Crossing Speed



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Top 10 High Risk Runways for Runway Excursion Events

Airport	Runway	Overall Rate	Risk of Landing Short of Runway	Long Landing	Short Runway Remaining While Fast	Risk of Runway Overrun during Landing	High Tailwind Landing	Hard Landing	High Speed Threshold Crossing
KPDK	21L	28.97	8.60	4.74	6.55	7.89	0.79	0.39	0
KJAC	19	24.36	0.51	12.31	5.13	5.90	0	0.51	0
KBCT	5	16.49	1.95	13.23	0.65	0.43	0	0.22	0
KBED	23	16.12	0	7.85	2.89	4.96	0	0.41	0
KVNY	16R	15.73	8.96	5.67	0.06	0.06	0.12	0.12	0.73
KAPF	23	15.45	4.07	5.15	4.34	1.36	0	0.54	0
KCMA	26	15.21	0.92	13.59	0	0	0.23	0	0.46
KAPF	5	14.71	4.41	4.71	3.82	1.47	0.29	0	0
KBUR	8	14.43	0	10.27	1.57	0.93	0.28	0.37	1.02
KTEB	1	13.51	1.21	10.89	0.20	0	0	0	1.21

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PDK Runway 21L



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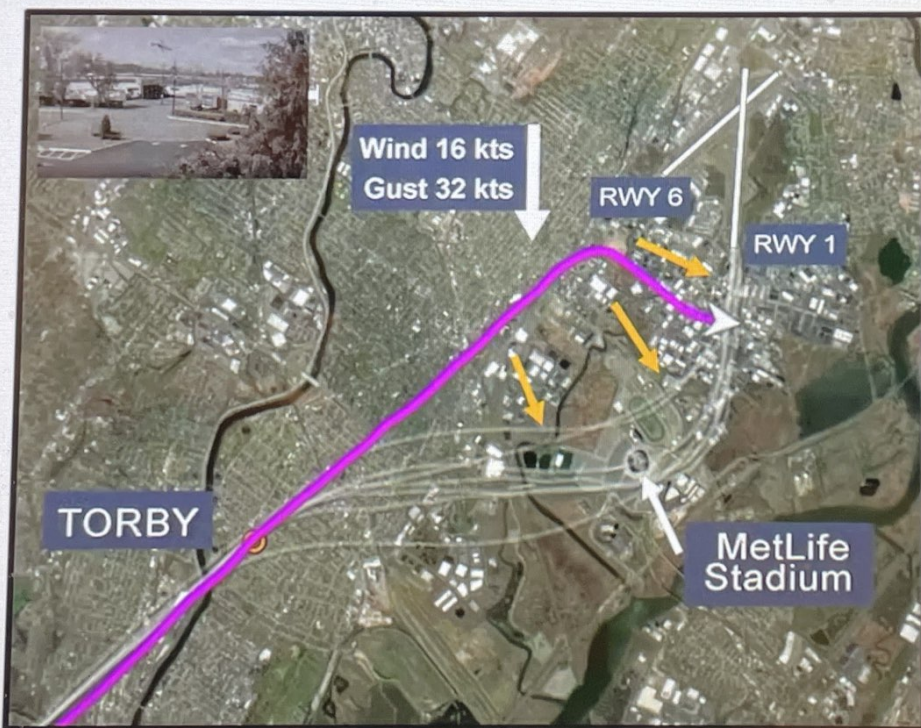
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KTEB Analysis



Source: NTSB

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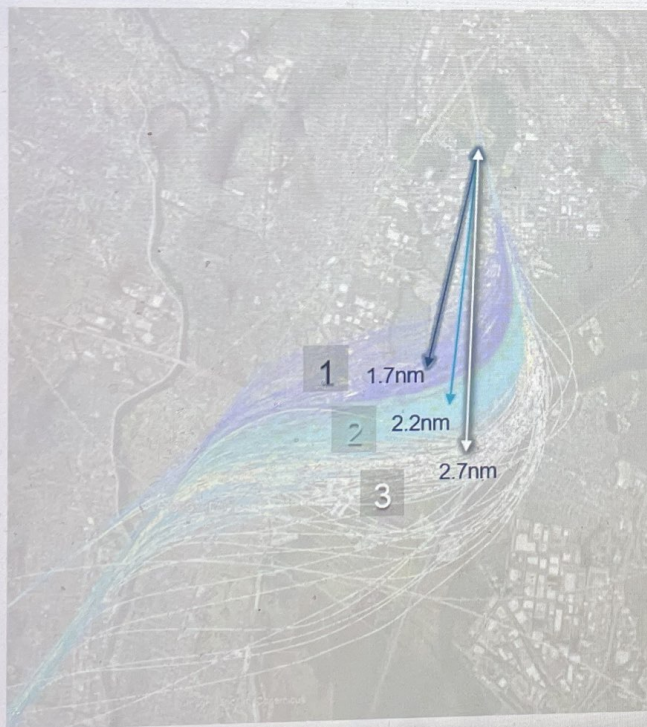
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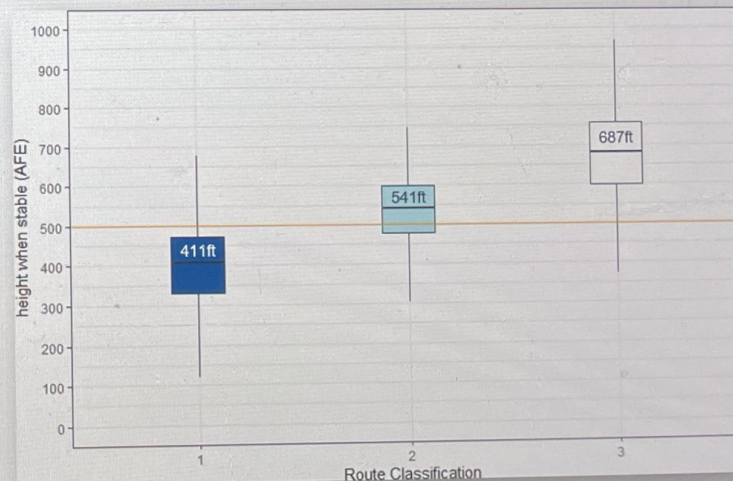
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Teterboro Runway 1

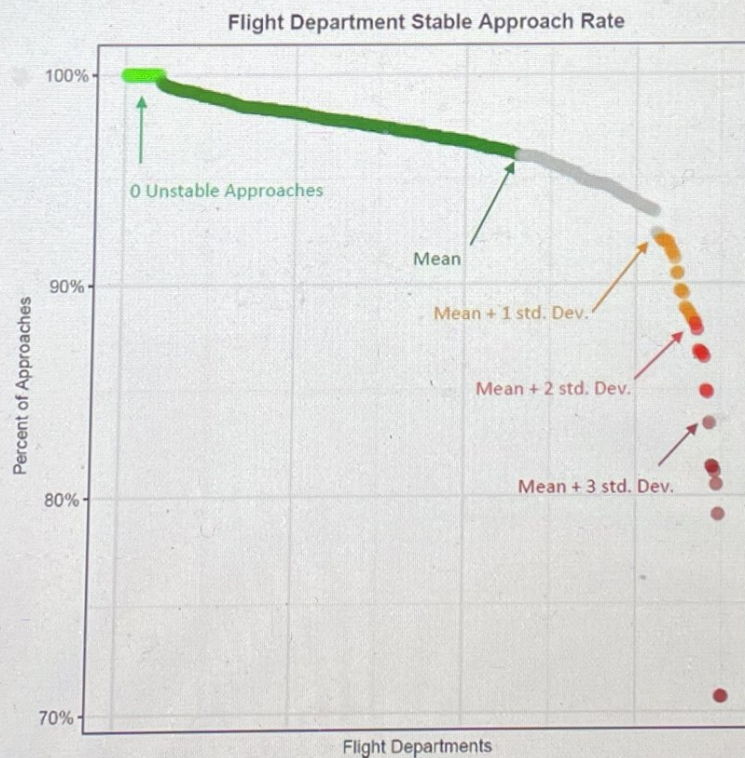


An analysis of variance indicates the effect of base leg positioning on the height when approach stability was achieved is significant, $F(2,1907)=107.82, p<.001$.





Stabilized Approaches



❖ Top 100 flight departments flew 80,000 flights cumulatively and had a stable approach rate of 99% or higher.

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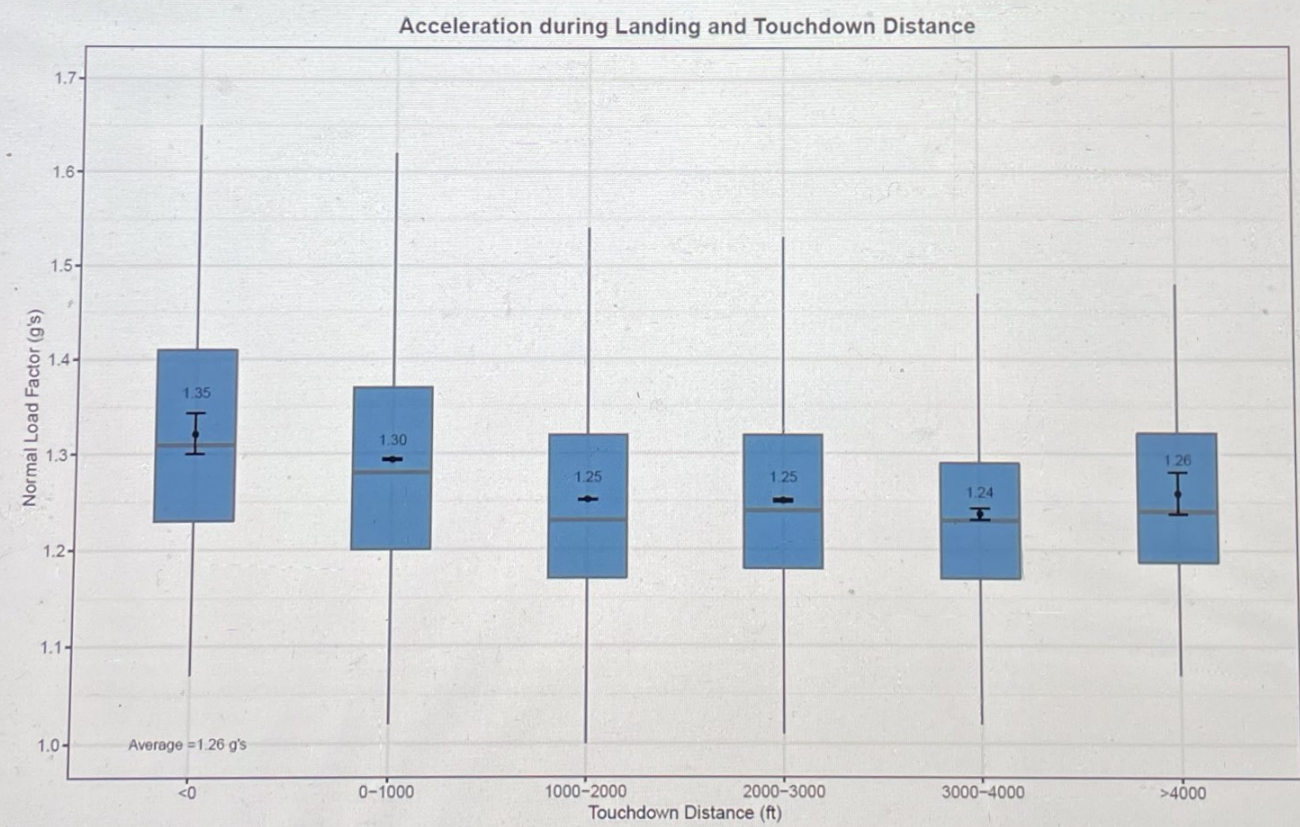
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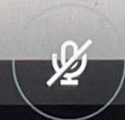
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Long Landing Touchdowns



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Key Take Aways

- Precision delivery of the aircraft to the runway is critical to avoiding runway excursion
 - Threshold Crossing Height
 - Threshold Crossing Speed
 - Controlled Flare and Touchdown
 - De-rotation and Braking Application
- Avoid tailwind landings
 - Particularly quartering tailwinds
 - Occurs more often at uncontrolled airports
- Runways with 5000-7000 feet landing distance should be considered higher risk
 - Treat 5000-7000' runways with the same level of attention as shorter runways
 - Use additional caution when landing on runways with displaced thresholds





CFIT Warning Response

TAWS/EGPWS Response



Top 10 High Risk Runways for Runway Excursion Events

Airport	Runway	Overall Rate	Risk of Landing Short of Runway	Long Landing	Short Runway Remaining While Fast	Risk of Runway Overrun during Landing	High Tailwind Landing	Hard Landing	High Speed Threshold Crossing
KPDK	21L	28.97	8.60	4.74	6.55	7.89	0.79	0.39	0
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KBCT	5	16.49	1.95	13.23	0.65	0.43	0	0.22	0
KBED	23	16.12	0	7.85	2.89	4.96	0	0.41	0
KVNY	16R	15.73	8.96	5.67	0.06	0.06	0.12	0.12	0.73
KAPF	23	15.45	4.07	5.15	4.34	1.36	0	0.54	0
KCMA	26	15.21	0.92	13.59	0	0	0.23	0	0.46
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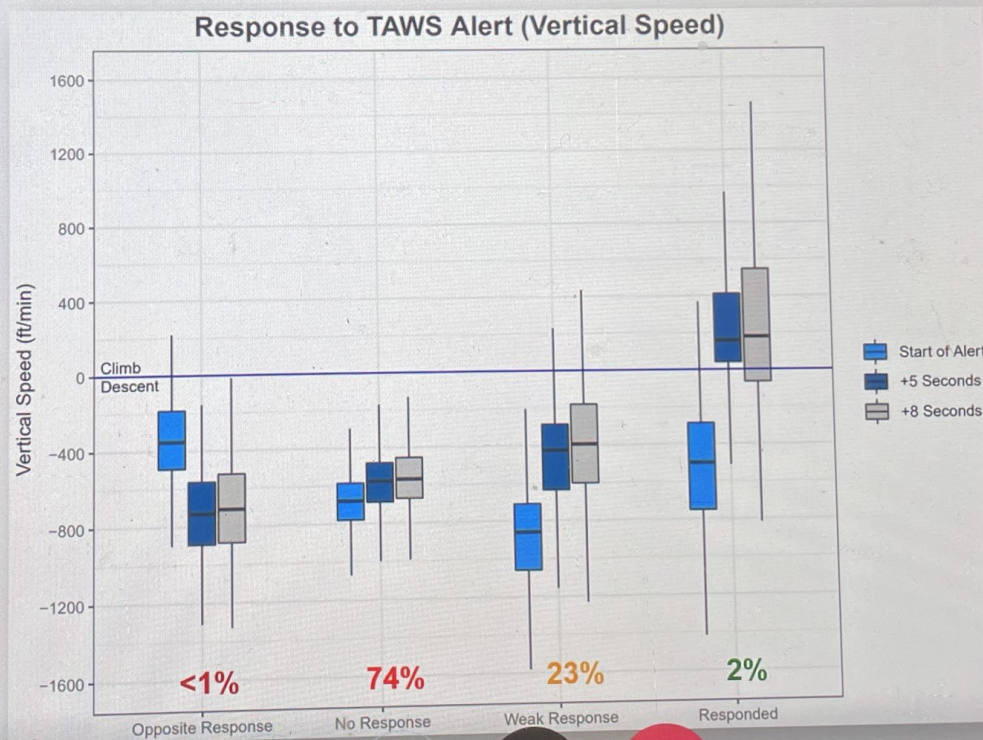
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TAWS Response



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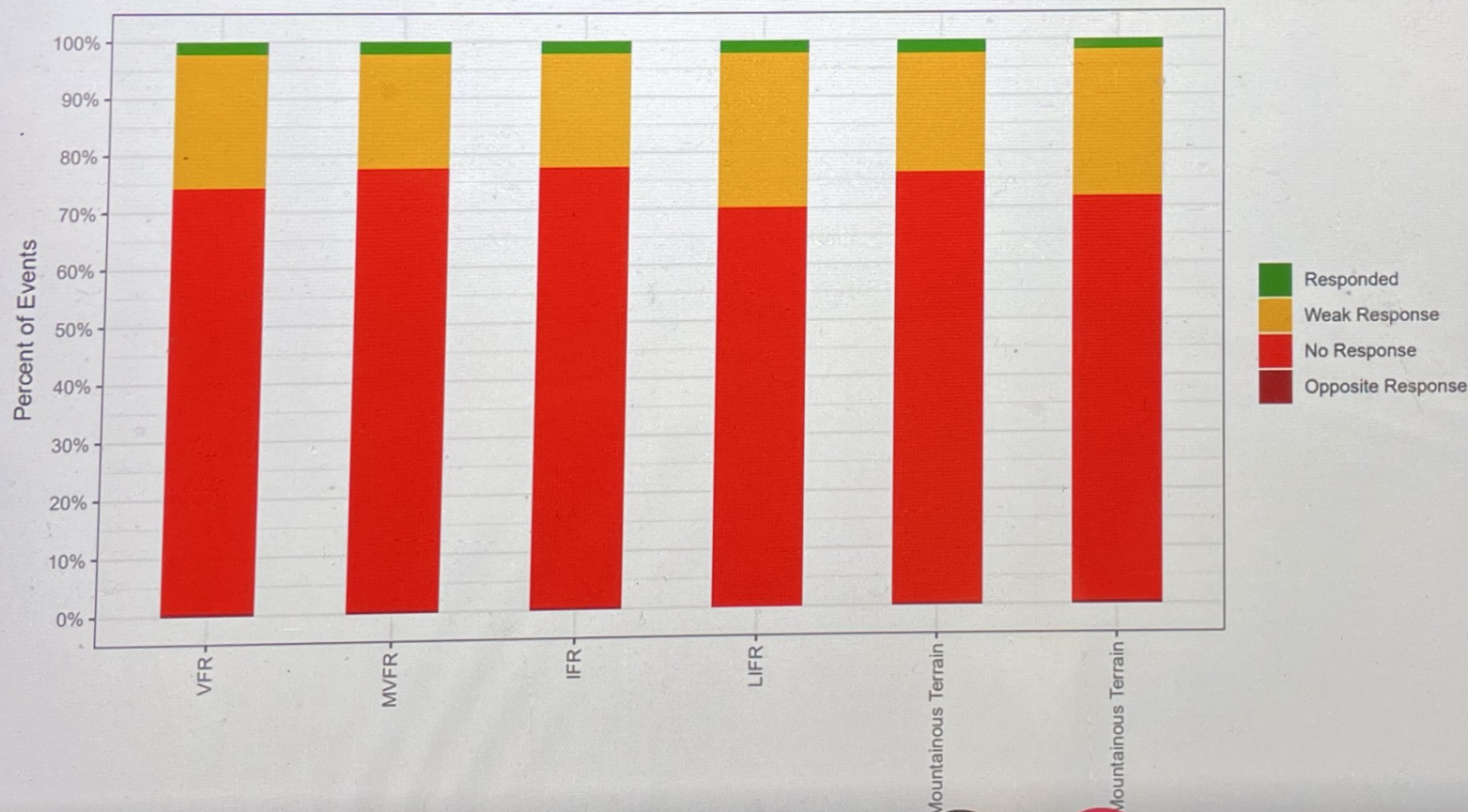
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TAWS Response



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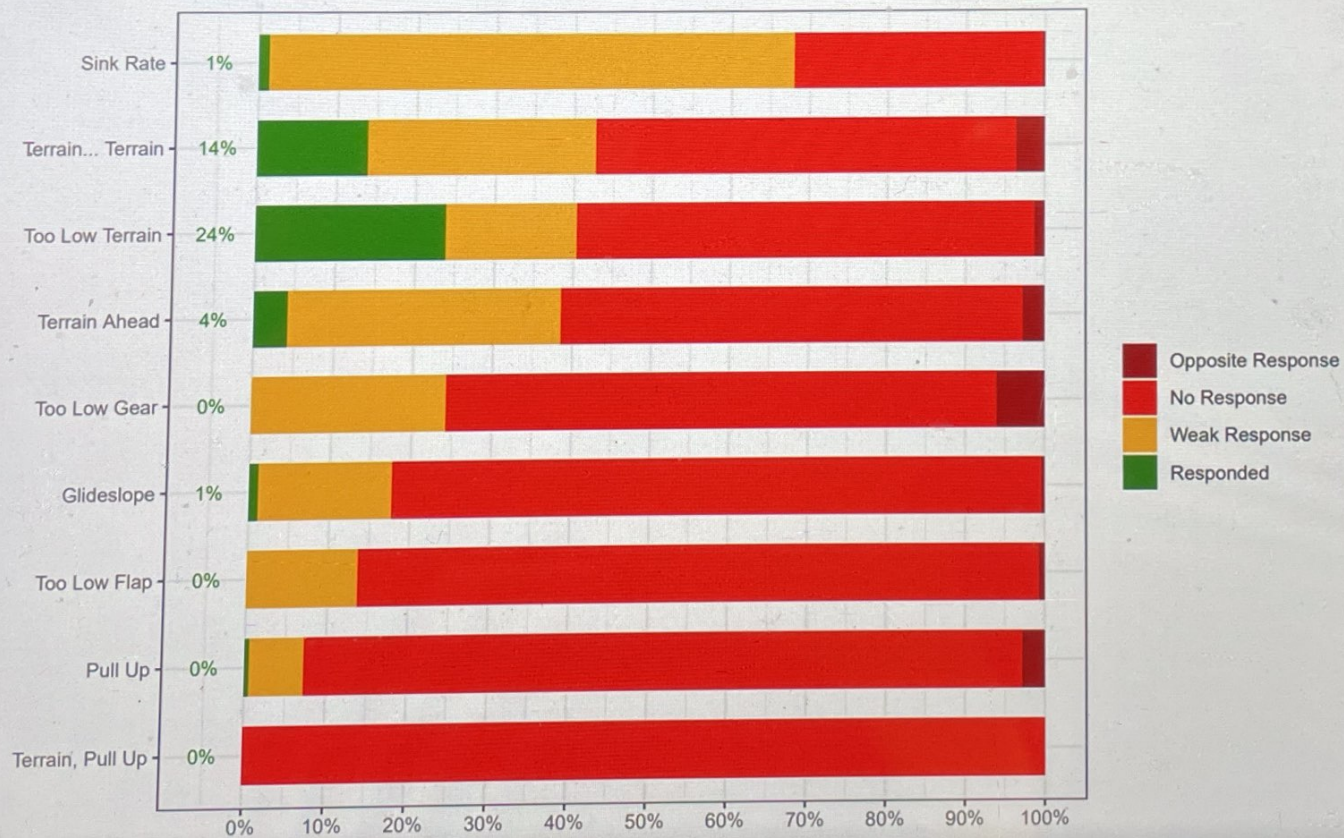
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Response by Alert Type (Approach)



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Michael Burger / FSI



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Aviation Career Opportunities

Presented by Michael Burger
Center Manager / Teterboro Learning Center

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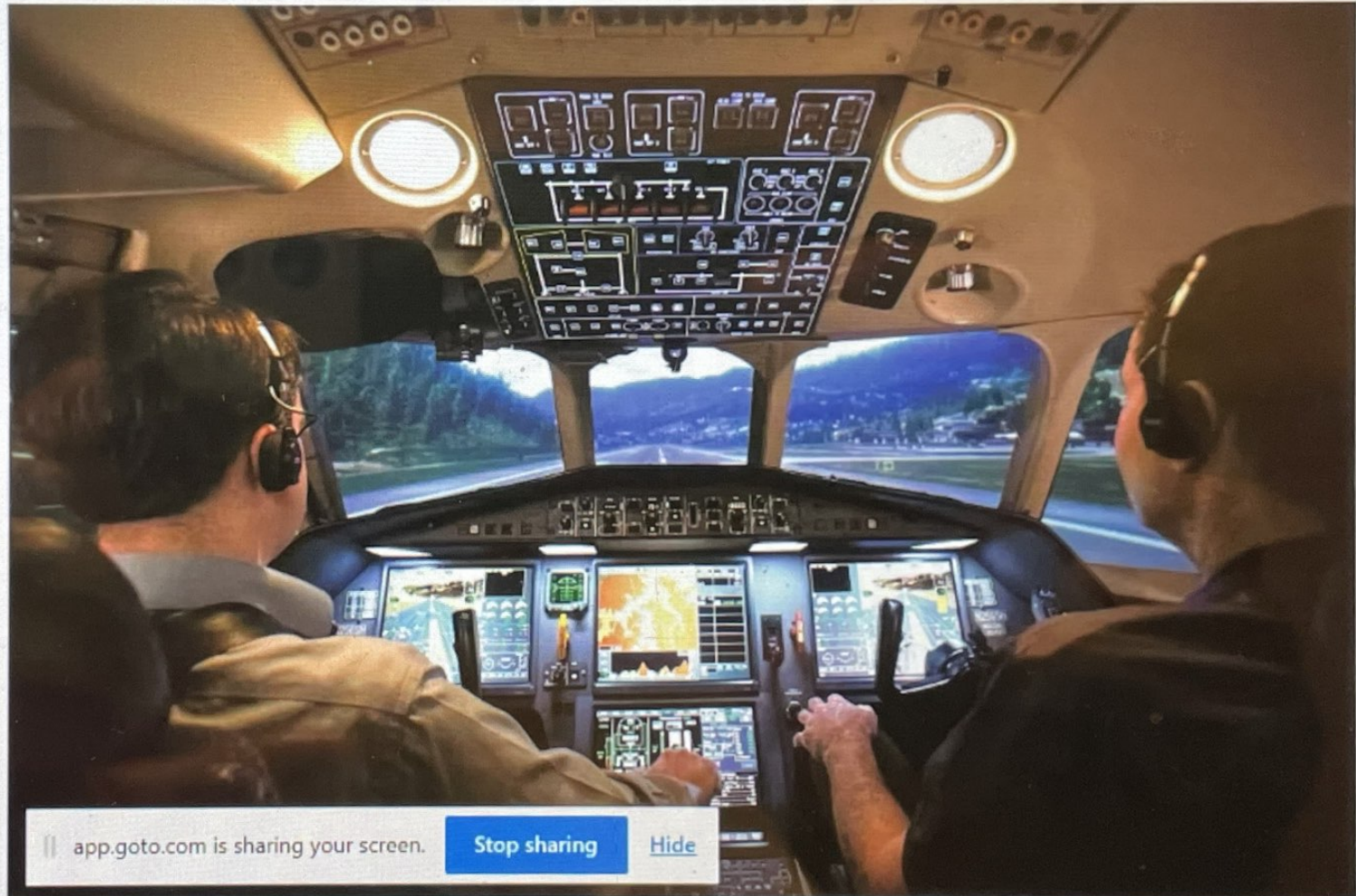
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Business Overview

Corporate and Civil Operations

- Corporate consists of administrative (shared) services, finance, sales and marketing
- Civil operations includes our learning centers, which total over 30 globally
- Civil operations conduct ground and simulation training working with pilots, maintenance technicians, cabin attendants, and instructors
- Corporate HQ is Columbus, OH



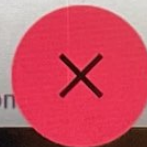
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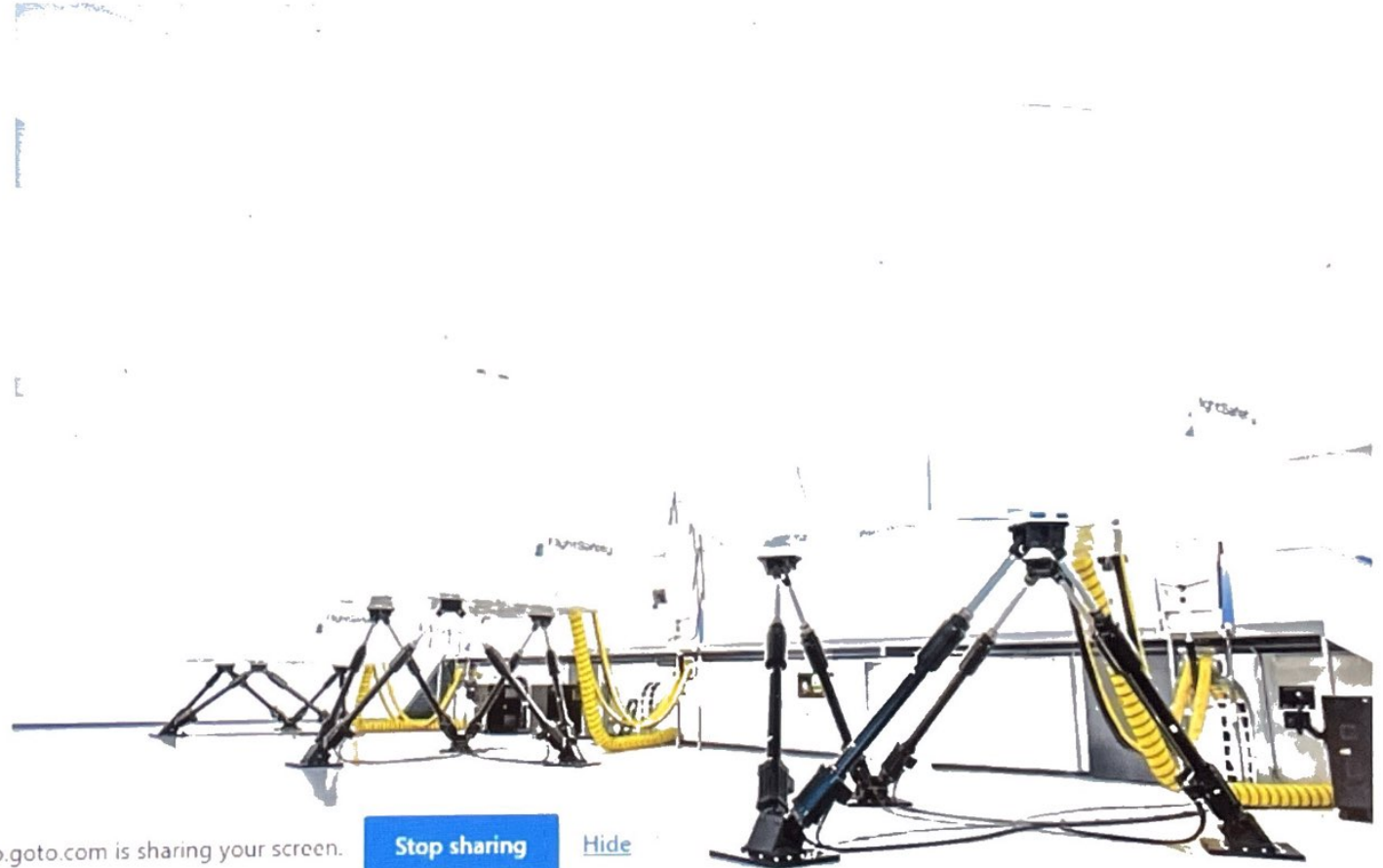
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Business Overview

Simulation Systems

- Designs, manufactures, and integrates the highest quality and most advanced simulation products in the world
- Located in Broken Arrow, Oklahoma & Hazelwood, MO



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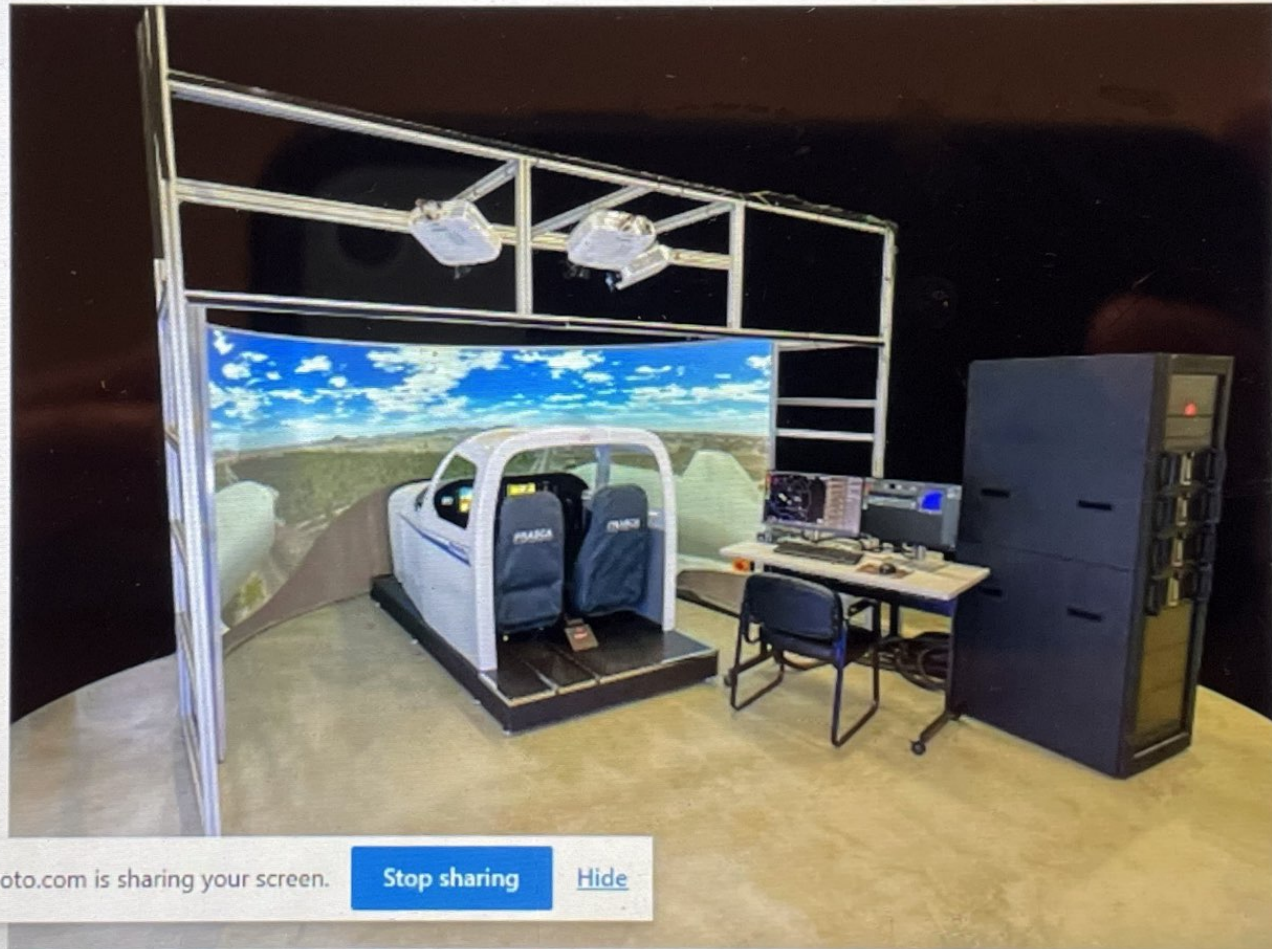
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Business Overview

FRASCA

A FLIGHTSAFETY INTERNATIONAL COMPANY

- Manufactures AATDs, CPTS, FSTDs and FFSS used by flight training organizations worldwide
- Enables realistic simulated learning environments for basic and complex mission training
- Located in Urbana, IL



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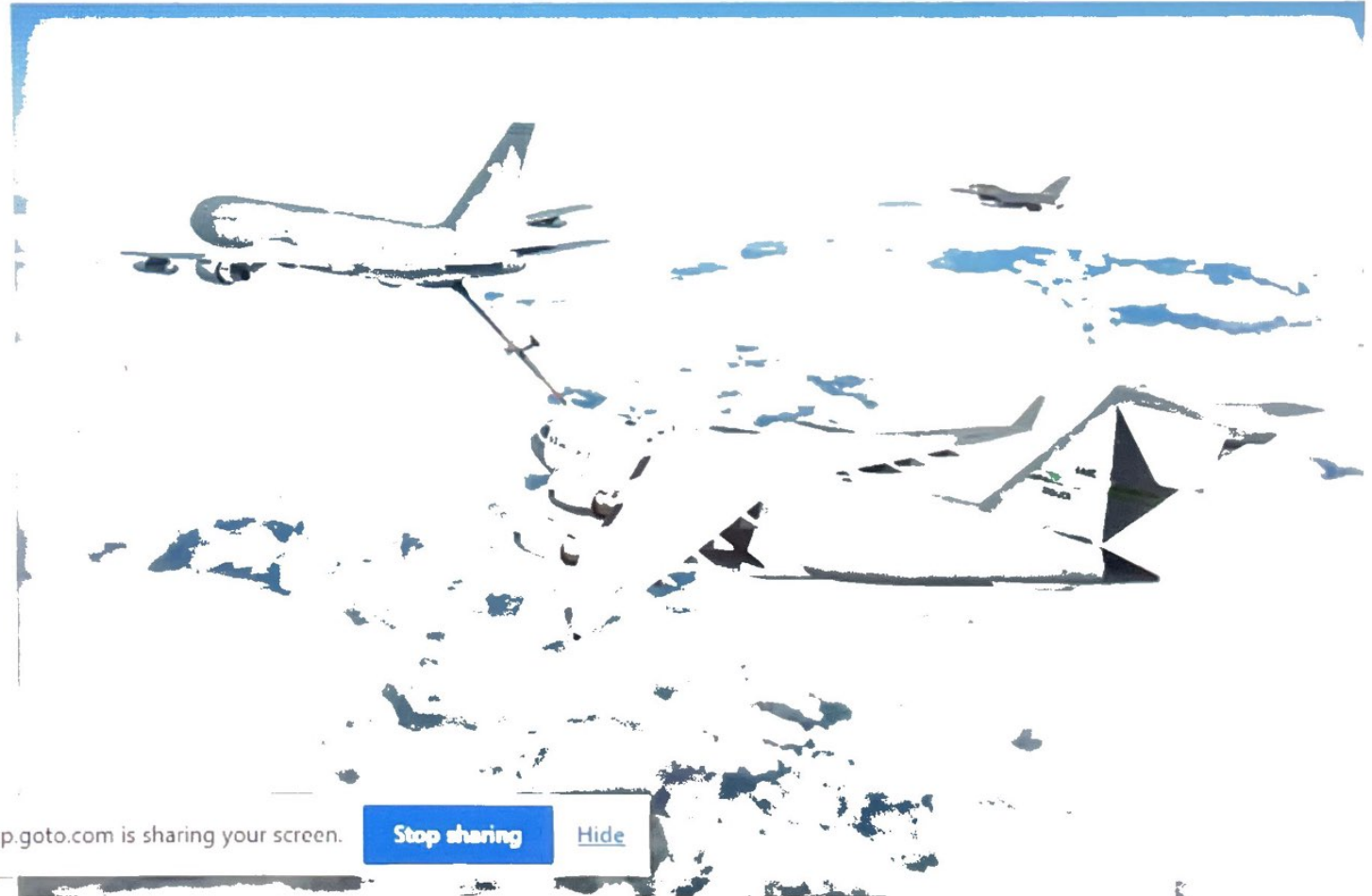
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Business Overview

FSI DEFENSE
A FLIGHTSAFETY INTERNATIONAL COMPANY

- Support for U.S. Department of Defense
- Operations at 15 U.S. military bases
- Provides mission-critical training programs and equipment to military and government flight crews
- Defense HQ is Dallas, TX



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Learning Center Opportunities

Flight Instructors

- Delivers ground and flight instruction
- Unrestricted ATP certificate, or an ICAO member state Airline Transport Pilot License

Second in Command

- Responsible for maintaining currency in assigned programs
- Commercial Pilot Certificate with appropriate category, class and instrument ratings
- Minimum of 450 hours

Simulator Technicians

- Maintains and repairs flight training devices (FTDs)
- Makes mechanical modifications, updates and repairs
- 1-3 years' experience, including civilian/military electronics, or related technical experience

Courseware

- Creating, developing, enhancing interactive products and programs for FlightSafety training
- Field of study in graphic design/layout, multimedia, video production, 3D and/or multimedia preferred

Customer Support

- Proactive problem solvers who ensure FlightSafety International customers and clients receive the very best service
- One to two (1-2) years related experience in related field

IT / Admin

- Simulator software and computer specialists developing and maintain IT infrastructure
- Admin/HR/Sales/Marketing specialist supporting the training business

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Simulation Opportunities

Software Engineers

- Provides software solution for navigation and visual systems for use in pilot training.
- Basic high level programming skills required
- Knowledge of operating systems such as UNIX, Linux, and Concurrent OS/32 are a plus.

Field Service Technicians

- Plans and coordinates in-house and customer-based field installation and integration of flight simulation PC windows
- Ensuring system functionality through execution of documented test procedures meets program specifications.
- Associates Degree in Computer Science, Computer Networking preferred

Simulator Maintenance Technicians

- Troubleshoots, repairs and modifies production electronic components, parts, equipment, and systems in aircraft flight simulators.
- Associates Degree in Electronic Technology or equivalent Military training

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Question

- Contact:
- Michael.burger@flightsafety.com
- Phone #: +1 201 528 0100

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3 STRIKES AND YOU'RE OUT!



RUNWAY 24 DEPARTURES
80dB LIMIT 2200L-0700L



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An aerial illustration showing a city with various buildings, including a hospital with a red cross. A yellow and white aircraft is shown in flight, following a red curved line that represents a flight path or approach. The path leads towards a runway marked with '19' and '6-L'. The background is a light blue sky and green ground.

FLY NEIGHBORLY
TRY A NEW APPROACH

FLY RNAV GPS X to RUNWAY 19

The logo for Teterboro, featuring a stylized blue and white design.A square QR code located at the bottom left of the advertisement.

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