

Motivation

Project 8 Noise Outreach

www.noisequest.psu.edu

Summary



PennState

Noise Mitigation Through Outreach and Education

Aircraft noise is a predominant aviation environmental concern of the public. NoiseQuest is a user friendly site designed to support noise mitigation through information.

Methods

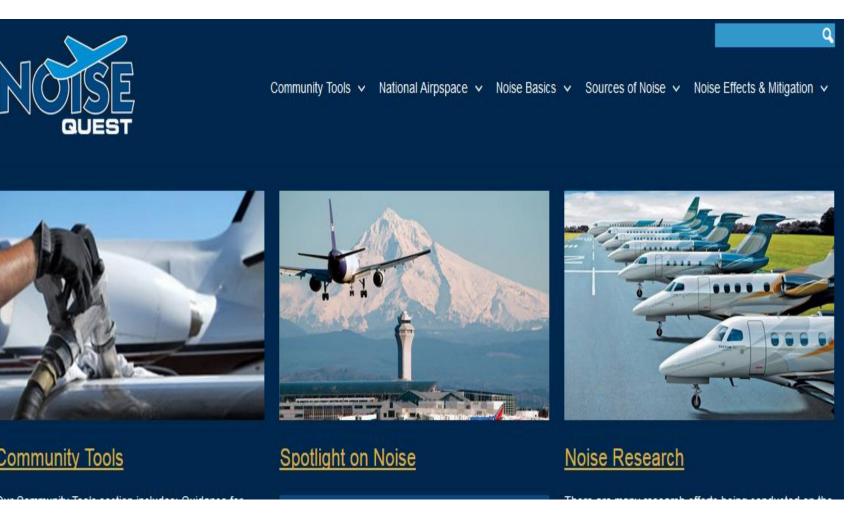


Device agnostic site redesign completed!

- Site is mobile friendly and easy to navigate on all platforms
- Provides enhanced navigation and ease of access to information
- ❖ NoiseQuest was redesigned to increase mobile user base
- > Article links are active from the title, picture, and "Read more"
- > The navigation menu is persistent at the top of the page
- > The hit box "active zone" is larger than the icon
- > The larger active zone is easier to hit, in consideration for ADA
- > Search tool uses Google and is displayed within the site
- > Images can be dynamically scaled by size and orientation
- > Site review conducted by N.O.I.S.E., Delta, and Outreach team
- Content expanded and updated
- Noise Research section expanded
- Spotlight on Noise updated
- > AEDT, NextGen and Performance-Based Navigation updated

New Site Design!





September 2016 to September 2017 33,607 Global Sessions 17,866 Sessions across the US

Country	Sessions	% Sessions
1. United States	17,866	53.16%
2. Eli United Kingdom	2,897	8.62%
3. India	2,221	6.61%
4. [Canada	1,452	4.32%
5. Australia	993	2.95%
6. Philippines	752	2.24%
7. Nigeria	423	1.26%
8. C Pakistan	416	1.24%
9. Malaysia	415	1.23%
10. Singapore	350	1.04%

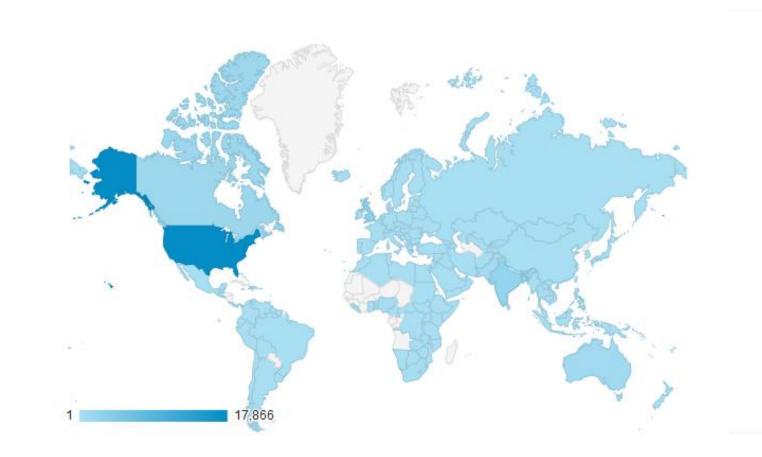
Sessions by City 33,607

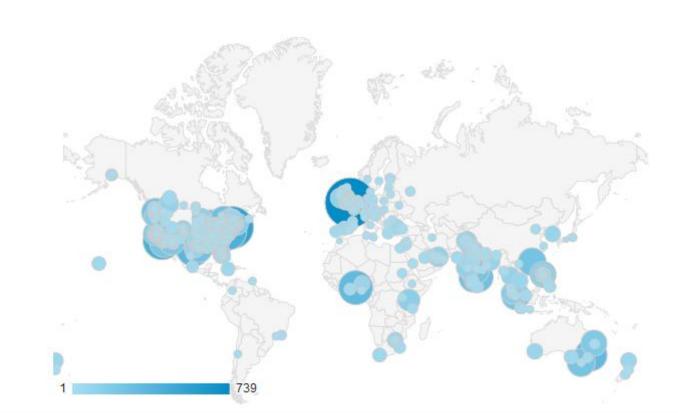
1. (not set)	1,376 (4.09%)
2. London	739 (2.20%)
3. New York	535 (1.59%)
4. Los Angeles	412 (1.23%)
5. Washington	408 (1.21%)
6. San Antonio	353 (1.05%)
7. Lagos	322 (0.96%)
8. Sydney	316 (0.94%)
9. Chicago	274 (0.82%)
10.Toronto	264 (0.79%)
11.Bengaluru	257 (0.76%)
12.Chennai	257 (0.76%)
13.Houston	245 (0.73%)
14.Melbourne	240 (0.71%)
15.Singapore	239 (0.71%)
16.Hong Kong	235 (0.70%)
17.Seattle	235 (0.70%)
18.Hyderabad	224 (0.67%)
19.San Diego	216 (0.64%)
20.Quezon City	212 (0.63%)

A Global Resource for Aviation Noise Outreach

NoiseQuest enhances knowledge on aviation noise topics and provides centralized web based outreach that is accessible across global communities.

33,607 Sessions Sep 2016 - Sep 2017 shown by Country and City





Next Steps

- Enhance content to further engage the public
 - > Add videos and images across site
 - > Expand Supersonics low boom content
 - > Add helicopter and rotorcraft noise abatement content
- Seek additional GIS noise contours for NQ Explorer

Outreach Team

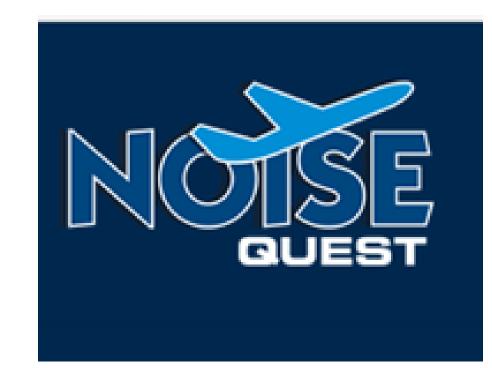
Outreach University Team Members

Penn State Applied Research Laboratory: Team Lead: Kathleen K. Hodgdon Penn State Institute for Energy and the Environment: Maurie Caitlin Kelly Penn State Earth and Environmental Systems Institute: Bernd J. Haupt

Outreach Advisory Committee Members

Gulfstream Aerospace Corporation: Robbie Cowart Port of Portland Sr. Noise Analyst: Jason Schwartz

Volpe Transportation Systems Center: Eric Boeker, Juliet Page





Lead Investigator: Kathleen Hodgdon, Penn State ARL Project Manager: Mehmet Marsan, FAA September 27, 2017

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