



Motivation

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.

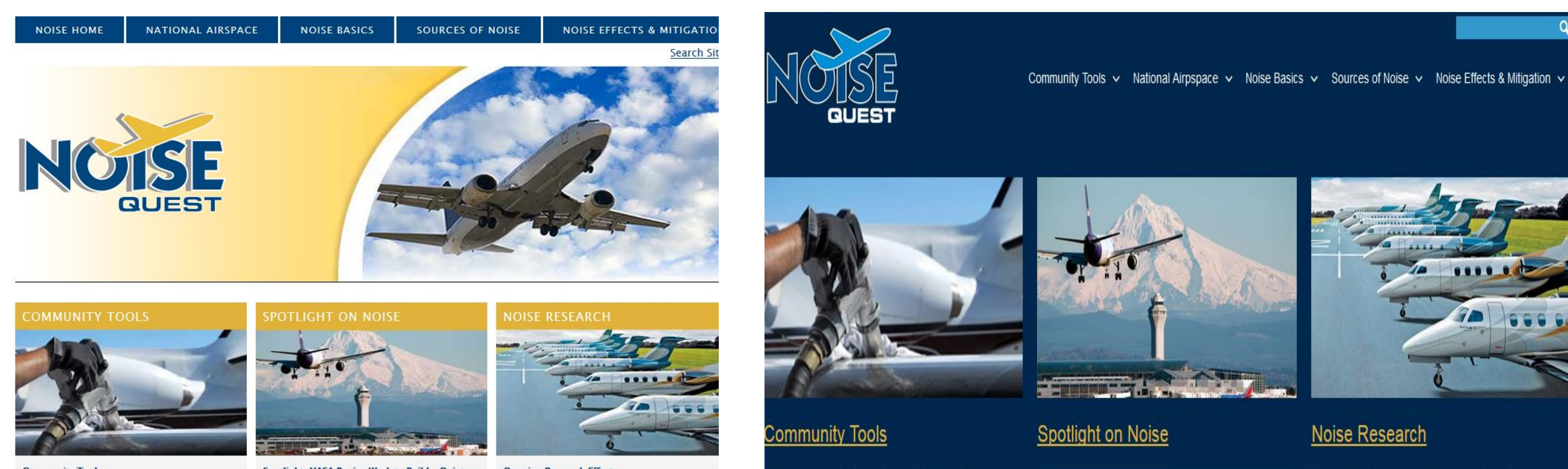
Methods

← **Full Site Redesign!**

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!



This work was funded by the US Federal Aviation Administration (FAA) Office of Environment and Energy as a part of ASCENT Project 8 under FAA Award Number: 13-C-AJFE-PSU Amendments 7, 16, 27 and 36. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the FAA or other ASCENT Sponsors.

Project 8 Noise Outreach

www.noisequest.psu.edu

Summary

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. 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. 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%)

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



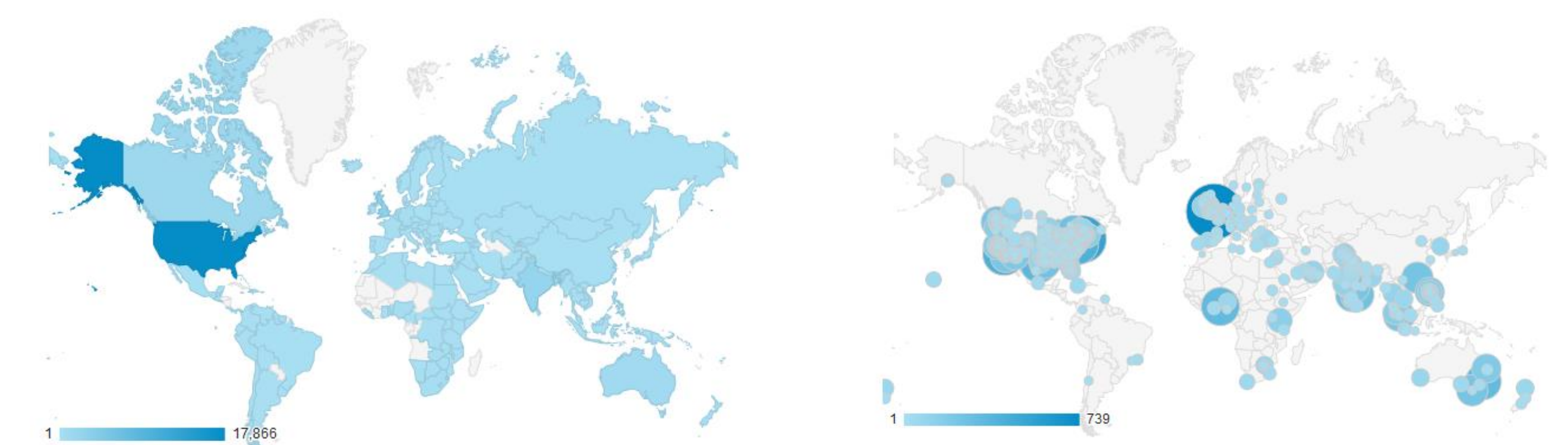
PennState

Results

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
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