

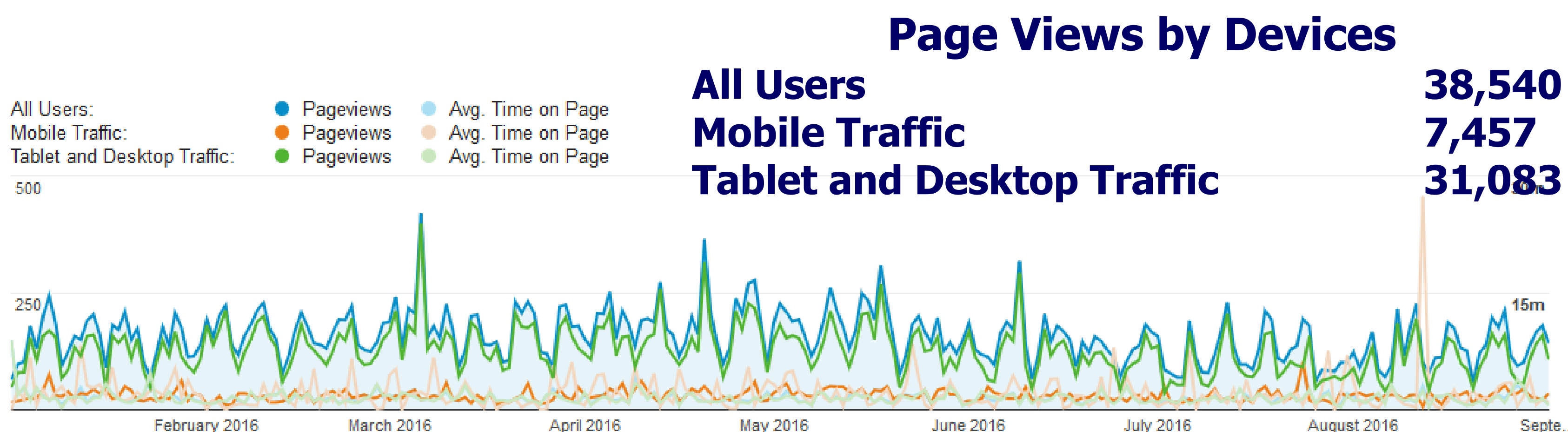
Motivation

Noise Mitigation Through Outreach and Education

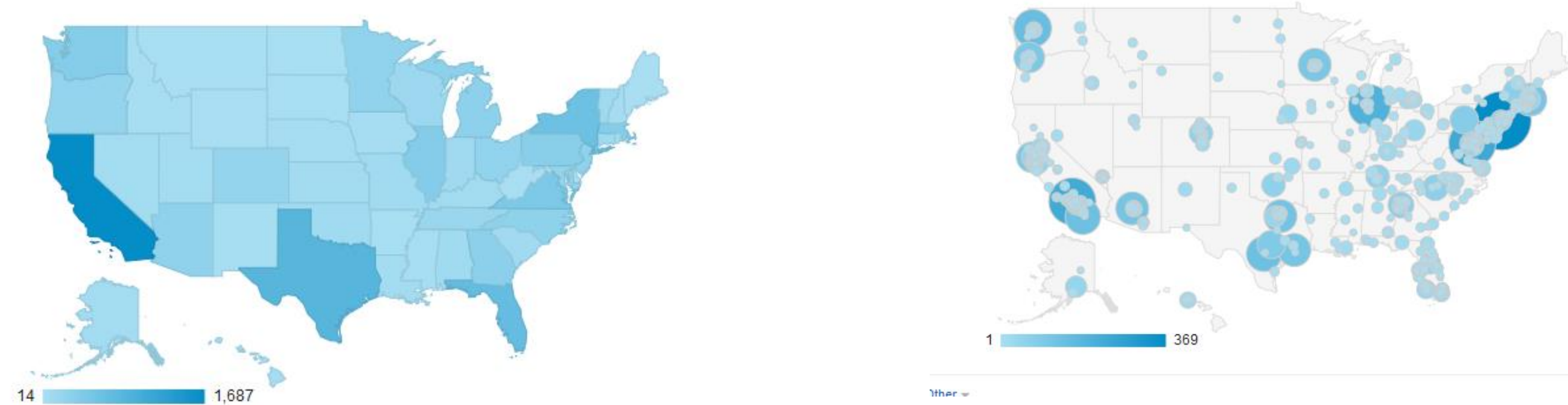
NoiseQuest is a user friendly site created to enhance airport and community relationships. It is designed to mitigate noise impact through aviation noise education.

Methods

- Majority of visitors use desktops
- Develop plan to implement device agnostic site
 - Investigate site implementation software options
 - Redesign the site and its architecture
 - Redeploy site in a mobile friendly format



10,905 Sessions in Jan – Sep 2016 shown by Region and City in U.S.



Top 10 Pages in Jan thru Sep 2016

Page Title	Page views	% Page views
NoiseQuest: Noise Basics	8,392	21.77%
NoiseQuest: Community Tools	7,825	20.30%
NoiseQuest: Noise Effects	6,860	17.80%
NoiseQuest: About Airports	4,701	12.20%
NoiseQuest Home	4,322	11.21%
NoiseQuest: Sources of Noise	4,266	11.07%
NoiseQuest: NQ Explorer	888	2.30%
NoiseQuest: Research	593	1.54%
NoiseQuest	331	0.86%
NoiseQuest: Spotlight	178	0.46%

Top 10 US Cities in Jan thru Sep 2016

City	Sessions	Pages / Session	Avg. Session Duration
New York	369 (3.38%)	1.72	00:00:53
Washington	240 (2.20%)	2.60	00:01:44
Los Angeles	232 (2.13%)	2.19	00:01:04
Chicago	199 (1.82%)	2.07	00:01:41
(not set)	180 (1.65%)	1.91	00:01:42
Seattle	147 (1.35%)	2.33	00:01:39
San Antonio	137 (1.26%)	2.25	00:00:57
San Diego	134 (1.23%)	2.10	00:01:33
Dallas	122 (1.12%)	1.68	00:00:37
Phoenix	117 (1.07%)	2.15	00:02:26

<http://www.noisequest.psu.edu/aboutairports.html>



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Summary

Period: January to September 2016

20,871 Global Sessions

10,905 Sessions across the US

Page Views by Device		
Page Title	Page views	% Page views
NoiseQuest: Noise Basics		
All Users	8,392	21.77%
Mobile Traffic	942	12.63%
Tablet and Desktop Traffic	7,450	23.97%
NoiseQuest: Community Tools		
All Users	7,825	20.30%
Mobile Traffic	2,190	29.37%
Tablet and Desktop Traffic	5,635	18.13%
NoiseQuest: Noise Effects		
All Users	6,860	17.80%
Mobile Traffic	1,216	16.31%
Tablet and Desktop Traffic	5,644	18.16%
NoiseQuest: About Airports		
All Users	4,701	12.20%
Mobile Traffic	1,407	18.87%
Tablet and Desktop Traffic	3,294	10.60%
NoiseQuest Home		
All Users	4,322	11.21%
Mobile Traffic	518	6.95%
Tablet and Desktop Traffic	3,804	12.24%

Usage by Device Type				
Device Category	Sessions	% Total Users	New Users	% New Users
All Users	20,871	100%	18,278	100%
desktop	14,186	67.97%	12,423	67.97%
mobile	5,297	25.38%	4,680	25.60%
tablet	1,388	6.65%	1,175	6.43%

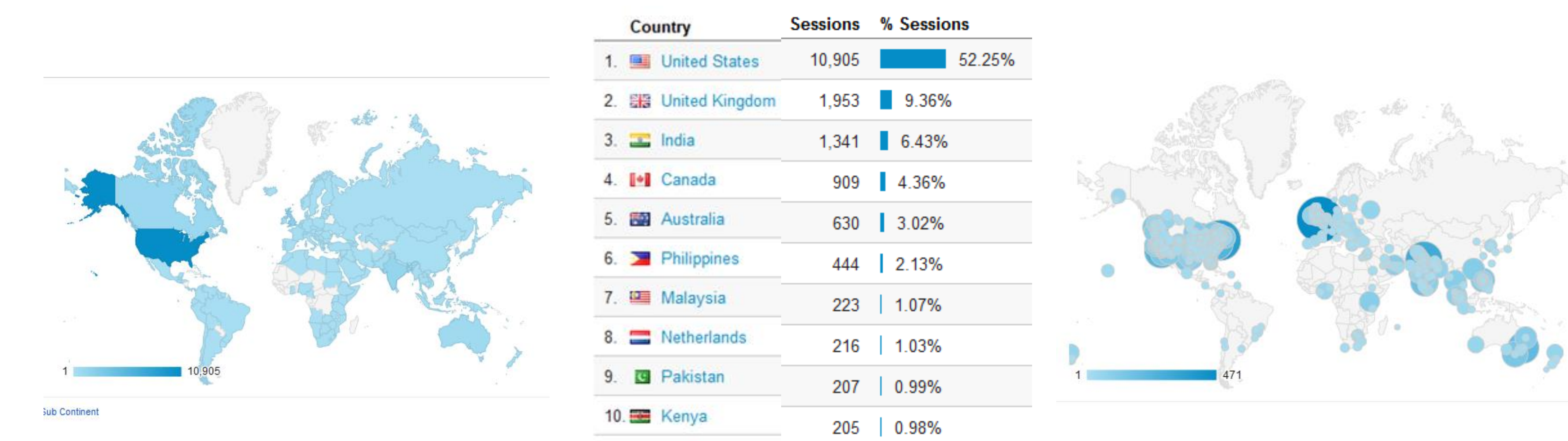
Lead Investigator: Kathleen Hodgdon, Penn State ARL
Project Manager: Bao Tong, FAA
September 27, 2016

Results

A Global Resource for Aviation Noise Outreach

NoiseQuest enhances knowledge on aviation noise topics through information that is globally accessible to the general public.

20,871 Sessions in Jan - Sep 2016 shown by Country and City



Next Steps

Enhance site to further engage the Public

- Device agnostic site redesign **Full Site Redesign!**
- Expand content
 - NextGen and Performance-Based Navigation
 - Supersonic research in support of NASA Quiet SuperSonic Technology (QueSST) Program

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 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

<http://www.noisequest.psu.edu/spotlight-wspr.html>

