UW Global Travel:

Emergency Management Improvements

UW Global Travel's Mission Statement:

"We help facilitate safe and successful international travel for UW faculty, staff, and students."

Background

UW Global Travel is a program operated by the UW Office of Global Affairs (OGA) to support students and employees traveling on behalf of the university. The Office of Global Affairs is "university's hub for global engagement," representing and supporting UW programs, facilities, students, and employees outside of the country.

In the event of an emergency, the Global Travel Security Manager (GTSM) is responsible for accounting for travelers, ensuring their safety, and coordinating assistance if required by travelers. The GTSM is also responsible for keeping UW Leadership and News Media informed if an international emergency affects UW travelers.

2016 Fast Facts

- ~2300 students study abroad annually
- ~1000 registered faculty/staff trips in 2016
- Average annual spend abroad: \$250,000,000
- 55 countries of study

Opportunities

Multiple problems were identified that impeded the emergency response process and were not an effective use of the GSTM's time and effort. Not all problems could be addressed in this project due to connections to other UW Departments and technical scope and time

Opportunities that were addressed:

- Manual time spent looking and reading through news headlines
- Manual time spent matching students and their locations with news headlines
- Cluttered traveler status pertaining to emergency management

Future opportunities for UW Travel:

- Student information is contained in multiple databases
- Lack of traveler registration and response to UW Travel Emails
- Expanded use of social media applications for response and notifications



Special Thanks to Christina Mastrangelo, Professor, Industrial and Systems Engineering and Nicholas Hill, Global Travel Security Manager, UW Office of Global Affairs

Aggregated Newsfeed

The GTSM is responsible for scanning multiple news sites, such as RSS feeds and trusted Twitter sources. This involves a lot of manual work and non-value added time spent reading irrelevant news.

Compared to the existing news aggregation process where the GTSM receives all breaking news alerts from multiple sources, the aggregated newsfeed provides:

News Filtered for Relevancy: Our keyword filtering acquires news that fit into criteria set by the GTSM. This way, the GTSM is made aware of the news he or she needs to know about, and nothing more.

News Filtered for Trust: Our newsfeed contains all the sites and sources the GTSM trusts, all in one location *Real-time Updating:* The newsfeed continuously updates at regular intervals. Used in conjunction with the integrated alert system, the latest and most relevant news will be sent directly to the GTSM's inbox



After an emergency occurs, the on-call GTSM is responsible for alerting travelers likely in the affected area and asking

- Using Google Forms, this component is deployed after an in an email
- they are safe or not, and what assistance they require.
- tion is immediately sent to the GTSM.

Unsafe Traveler Notification Test them to respond if they are safe or not. · Required emergency occurs and a link to respond is sent to travelers First Name Travelers are asked for their name, contact information, if Last Name If a traveler answers that they are not safe, an email notifica-UW NetID * This replaces the previous check-in process, where travelers Primary Contact Method replied to the email sent by the GTSM. Secondary Contact Method Compared to the previous check-in process, this new check-in process provides: *Automatic Data Collection:* Responses for each emergency are Are you safe? O Yes tracked on their own spreadsheet and does not require O No reading and processing each traveler's response, even if Current Location they are safe. Simple Usage: Travelers answer a few short questions instead of having to compose an email response, which will likely im-If you require assistance, what do you require? prove response rate. Data presented instead of being retrieved: As responses are col-If you are travelling with other UW people, do you know of their lected from travelers, Google Forms can summarize responses, reducing effort required to present information on UW Travelers to University Leadership and the media. Matification cont to CTCM if a travalar analysis that Notification sent to GTSM if a traveler answers that they are not safe:

Zach Burges Nathan Chen Michael Fnu Ishann Khurana Bryan Lee

UNIVERSITY of WASHINGTON

Sample of News Headlines Selected Automatically

British holiday rep injured in Portugal acid attack Trump to Arm Syrian Kurds, Even as Turkey Strongly Objects

- German Soldiers Allegedly Planned Attacks to Be Blamed on Migrant
- Despite Arrests, Americans Continue to Visit North Korea
- Yemen war: Surge in cholera outbreak kills 34 WHO Vestminster operation: Man charged with preparing terrorist acts
- peedboat victims were suspected puppy smugglers Putin critic Navalny has eye surgery in Spain after attack
- Dingle toddler dog attack: Owner pleads guilty to charge
- 11 Children Are Killed in Bus Crash in China Berlin migrants on trial for fire attack on homeless man
- Feature: How Homeownership Became the Engine of American Inequality
- Why were 101 Uzbeks killed in the Netherlands in 1942? An Everyman Museum to Celebrate American Writers

llow	the p	ost v if any v	of	the following conditions are met:	
	- 2223		10000		
tle	~	contains	~	casualties	
tle	*	contains	×	knife	
tle	~	contains	~	attack	
tle	~	contains	~	bomb	
tle	~	contains	>	gun	
tle	~	contains	~	terror	
tle	v	contains	×	victim	
tle	~	contains	~	western	00
de	~	contains	Ŷ	earthquake	00
tle	~	contains	>	american	
tle	~	contains	~	foreign	
tle	~	contains	~	kalli	
tle	~	contains	~	casualty	08

Cancel Save changes

Form sent to travelers in an emergency:

Unsafe Traveler Notification <zach m hurgess@gmail.com> Zach Burgess Is Not Safe

A traveller has responded to Unsafe Traveler Notification Test and indicated that they Form Submitted: May 22, 2017 at 04:40 GMT

- View all responses

Integrated Alert System

Currently, the GTSM *manually* browses through news sites to find out about emergencies. Once an emergency is identified, the GTSM must sift through several databases to determine which travelers could be affected based on geographic location.

The integrated alert system offers several new benefits, including:

- Student Location and News Matching: News articles are automatically matched to student location.
- Automatic Email News Alerts: Events are scanned in the aggregated newsfeed at regular interval, and emails with student information are sent automatically.
- One Workbook for All Needs: Both the newsfeed and student information are contained in a single workbook and customizable. There is no need to interact with other databases or newsfeeds.



Future Improvements

A future recommendation is that a traveler information system is chosen or designed that would allow accessing information of all UW Travelers from a single window. Making all relevant information available from a single location would improve the GTSM's ability to respond to an emergency, reducing time to source information. Mockups were prepared after observing the current emergency response process and with feedback from the GTSM and may be presented to vendors or consultants if a new information system is going to be selected.

LCase(Cells(cell.Row, "P").Value) = "yes" And

TimeValue(REFRESH) >= Now Then

Dim firstArray As Variant

DateValue(DateString) + TimeValue(TimeString) - TimeValue("07:00:00") +



Results

The aggregated newsfeed collects news headlines that likely indicate an emergency has occurred and presents the headlines in a single location for the GTSM, reducing the amount effort required to track the news.

The Unsafe Traveler Notification component makes it easier for travelers to respond if they are safe or need assistance and sends an immediate notification to the GTSM if a traveler is not safe and automatically collects traveler responses

The integrated alert system removes the need to manually investigate emergencies and connect them to students. All the necessary information is sent directly to the security manager's email inbox within minutes of events occurring.