XVII INTERNATIONAL HURRICANES SEMINAR

AIRPORT DISASTER RESILIENCY
THROUGH COMMUNITY PREPARATION



DECISION SERVICES INTERNATIONAL, LLC

Dr. Patricia Ryan March 2-4, 2022



Hazards for Many Airports



Hurricanes



Flooding



Landslides



Earthquakes



Volcanic Eruptions/ Ash



Pandemics



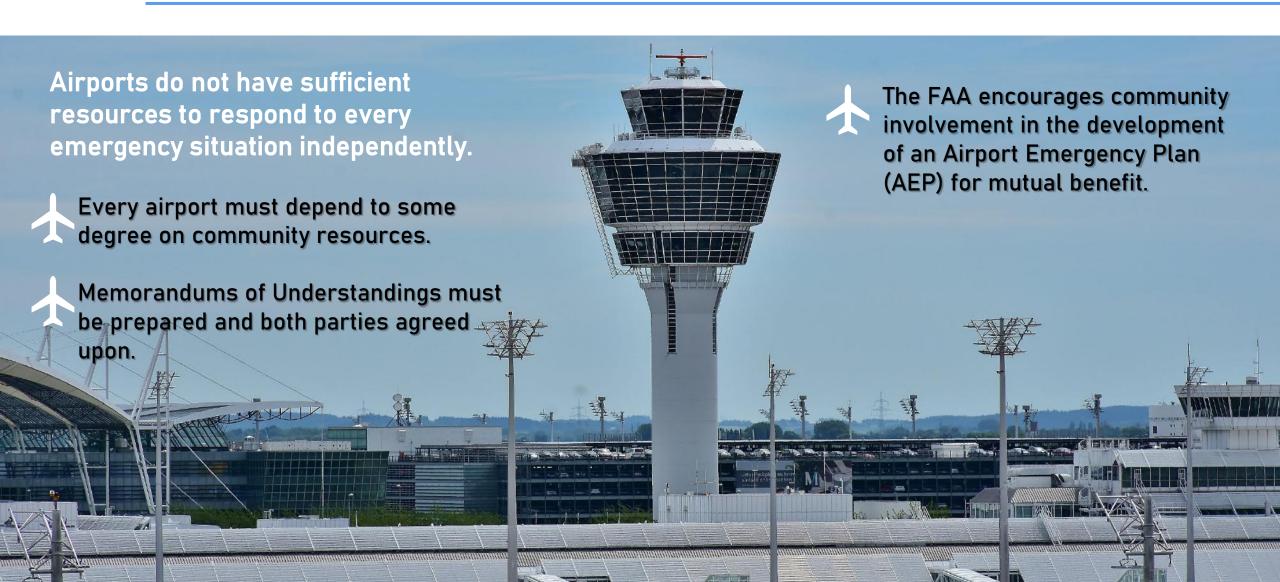
Communicable diseases

Effects of a Natural Disaster

How will an airport be affected directly during a natural disaster?



Airports Need Community Involvement



Before a disaster



Planning and Preparedness



Hazard and Risk Analysis



Plan for Event



Resource mobilization & Budgeting



Workforce Assignment and Recruitment



Training, Drilling and Exercising



Coordination with partners and the community

Planning and Preparedness (continued)



Response to immediate issues



Response to long term issues



Recovery



Continuous Improvement
Process



After Action Review and Improvement Plan



Track Corrective Actions

Coordination of AEP with Local/Regional Disaster Plans



Regional / community Emergency Plans

Airport Security Plan

FAA's suggested integrated plans:

Airport Emergency Plan

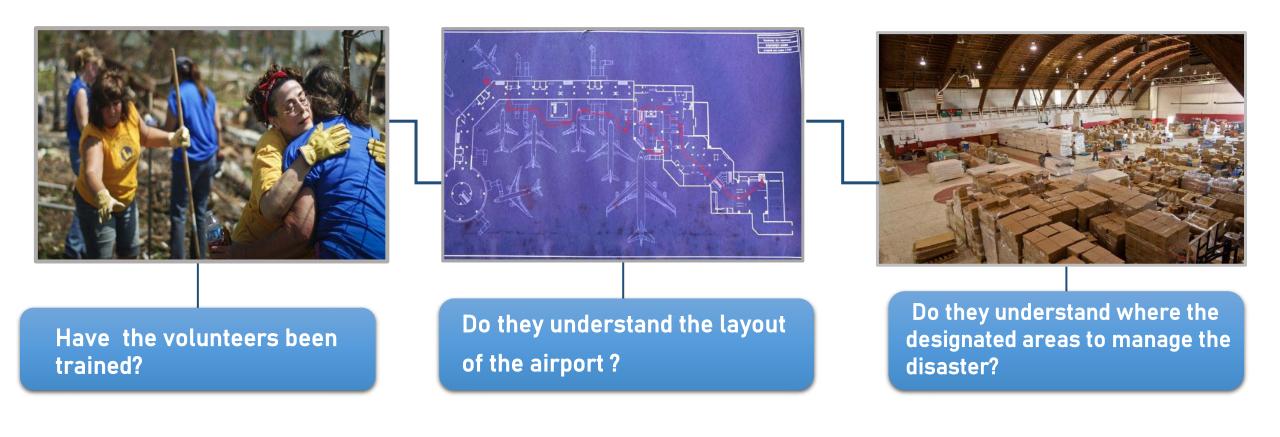




AEP Planning Team Members		
1. Air carriers	13. Emergency Medical Services	25. National Weather Service
2. Air Traffic Control	14. EPA	26. NTSB
3. Aircraft operators	15. EOD	27. Police/Security
4. Airport Authority/Mgmt.	16. FAA	28. Post Office
5. Airport employees	17. Firefighting & Rescue	29. Public Information/Media
6. Airport tenants	18. Government authorities (e.g. local community emergency planners, TSA and FEMA, as appropriate)	30. Public Works & Engineering
7. Animal Care/Control	19. HAZMAT Response Team	31. Public Utilities
8. Clergy	20. Health & Medical	32. Red Cross
9. Coast Guard/Harbor Patrol	21. Hospitals	33. Resource Support
10. Communications Services	22. Mental Health Agencies	34. Search & Rescue
11. Coroner	23. Military/National Guard	35. State Aviation Authority
12. Emergency Mgmt. Agency	24. Mutual Aid Agencies	36. Civil Air Patrol
		37. Morgue

Managing Volunteer Organizations

What is the plan to manage volunteers and any other organization that is volunteering?



On Site Airport crash



On Site Airport crash (continued)

Four phases of emergency management:



Airport Limiting Factors

What will be the limiting factors on airport functionality?

Preparedness

During Response?

During Recovery?

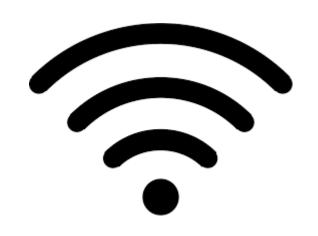
After Recovery?





Emergency Communication

The means and methods for exchanging communications and information necessary for successful incident management.







Communication with Everyone



The U. S. Homeland Security has a National Emergency Communications Plan which states:

- Emergency communications is a shared mission across all levels of government, the private sector, nongovernmental organizations, and even the public.
- The National Incident Management System (NIMS) provides a set of standardized structures and systems which help understand how to involve multiple jurisdictions, functional agencies and emergency responders.





Coordination With Other Entities



Coordination between airport staff and entities becomes critical so that everyone knows what is going on, what is expected of them, and the actions that need to be taken

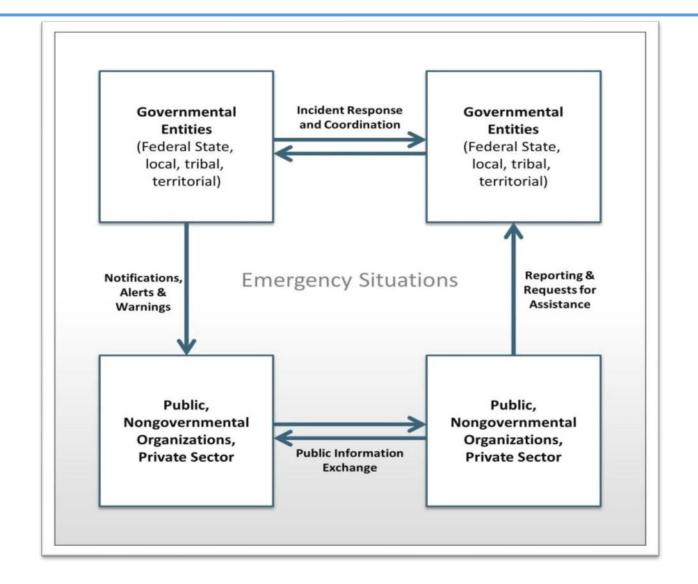
Emergency Plan Eco-System



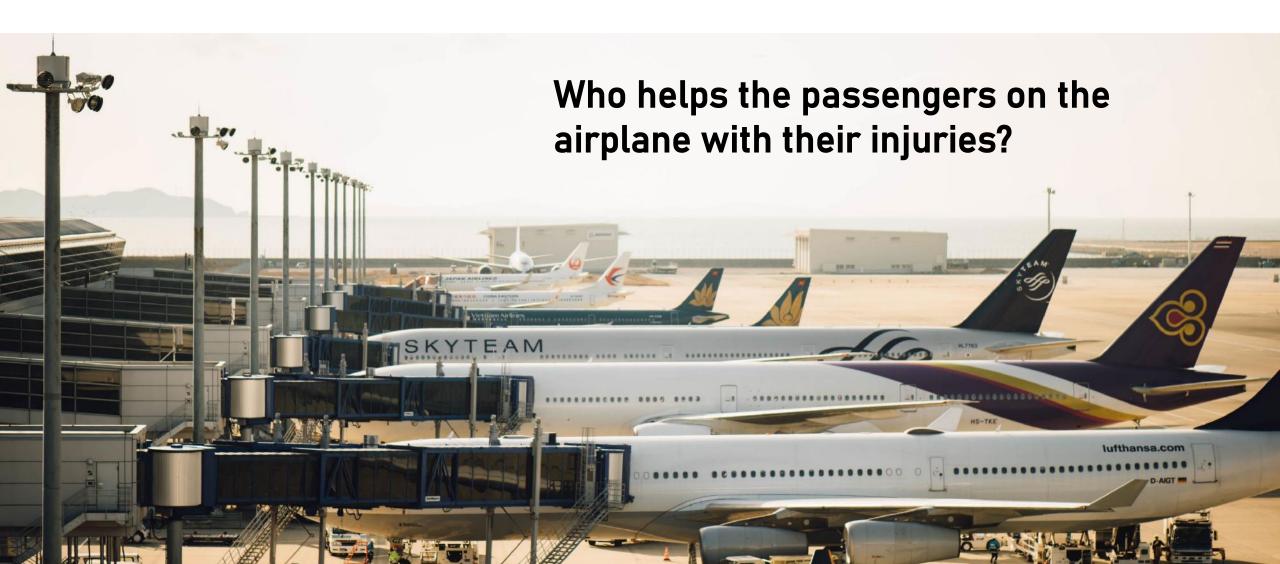
Source: Homeland Security National Emergency Communications Plan, 2014







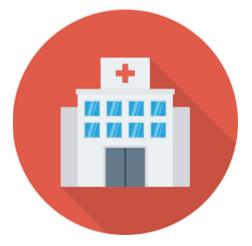
Community or Airport?



Community Coordination



Who communicates from the Airport to get additional medical assistance?



Who communicates from the Airport to get additional medical assistance?

Mobilization of Partners

Partners agencies and the community start to get involved:



Royal St. Vincent and the Grenadines Police Force assists



Immigration and customs are notified



Airline representative is on the scene



The local emergency agency is alerted and is mobilizing support



Customs is required to secure luggage, mail and cargo.



Red Cross and other NGOs are on standby



The Press arrives at the airport



Family and friends not already waiting at arrivals start to arrive at the

Effects of a Hurricane on the Airport



Communication with Other Agencies

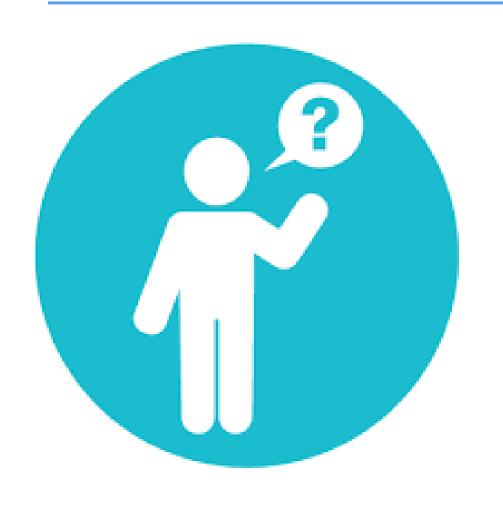


Every community agency must designate a contact person and several means of communication and provide this information to the Airport for inclusion in its Emergency Plan

The Airport must designate a specific person and a backup along with the means of communication to every community agency.



Example of Communication



Who is communicating to whom?

How do we know where the injured passengers have been taken?
How will their loved ones meeting them at the Airport know where to go?

Who is responsible for communicating this information?

Success in Communication

Interoperability/communication between institutions - Boston Bombings April, 2013

Emergency Communications during the Boston Marathon Bombings – April 2013

"Interoperability was a success story. Over the years, millions of dollars have been invested under local, regional and state interoperability plans, and our investments in mutual aid channels, tactical channel plans, radio towers, new radios, and specialized training allowed first responders, as well as command level personnel, to effectively communicate by radio between agencies, between disciplines, and between jurisdictions."

 Kurt N. Schwartz, Undersecretary for Homeland Security & Homeland Security Advisor Director, Massachusetts Emergency Management Agency Testimony before the House Homeland Security Committee





Taking Care Of Loved Ones

There is an immediate issue to take care of families/friends waiting for their loved ones, alerting family members that are unaware of the crash, in addition to passengers on the aircraft itself.



- How do you find and notify family members/ friends that someone has been injured and taken to the hospital?
- Where do you place the family members/ friends who are waiting for news of their loved ones?
- How do you handle the Press who wants immediate coverage and pictures now?
- How do you coordinate the medical teams that are trying to deal with injured passengers and/or crew?
- How do you accommodate the crew?

Victims Care And Coordination



Medical operations coordination with regional providers



Patient tracking



Family reunification and privacy laws—sharing of patient status information



Mass care at the airport



Family Assistance Center



Demobilization and stand-down notification



Coordination of Immigration and Customs for victims



Caring for unaccompanied and separated minors

Resources

Airport Cooperative Research Program (ACRP) Reports and Syntheses:

- ACRP Report 73: Airport-to-Airport Mutual Aid
- ACRP Synthesis 50: Effective Cooperation between Airports and Local and Regional Emergency Management Agencies for Disaster Preparedness and Response
- ACRP Synthesis 60: Airport Emergency Post-event Recovery Practices
- ACRP Synthesis 73: Emergency Communications Planning for Airports
- ACRP Synthesis 82: Uses of Social Media in Operational Response and Recovery during Airport Emergencies

Available as free PDFs at:

http://www.trb.org/Publications/PubsACRPPublications.aspx

Questions



For further information, please contact:

Dr. Patricia RyanCEO

Decision Services International, LLC.

patryanx@gmail.com

+ 1.305.978.2920



