SELF-DIRECTED RESILIENCY TOOLKIT FOR GA AIRPORTS

TRE TRANSPORTATION RESEARCH BOARD



TOOLKIT BENEFITS PROVIDED TO GA AIRPORTS

- Identify the shocks and stressors most applicable to their airport and understand how to address them
- Develop tailored strategies
 that seek to combine
 actions to "multi-solve"
 to gain efficiencies and
 optimize resources instead of
 addressing singular shocks or
 stressors individually
- Match project needs to available funding sources

- Optimize limited financial, staffing, or other resources (e.g., political, social, and environmental capital)
- Leverage lessons learned from similar airports and apply those lessons locally
- Engage key stakeholders with proven strategies
- Communicate the critical functions of GA airports in communities when advocating for resources

TOOLKIT COMPONENTS

- Resilience Handbook that introduces the toolkit
- Resilience Assessment Analysis Tool that helps to identify potential shocks and stressors and their impacts
- Resiliency Plan Templates to help document and build a plan
- **Airport Resiliency Exercise in a Box** to test and validate plans and plan elements
- Additional Supporting Materials such as communications and collaborations guidance

This innovative toolkit will serve to empower GA airports to conduct cost-effective resiliency planning and prepare facilities across the country for current and future shocks and stressors.

SCREENSHOT: ASSESSMENT ANALYSIS TOOL

	D Area	Expected Impacts	# of shocks/ stressors impacted	Human Pandemic	Earthquakes (i.e.,Cascadia Subduction Zone)	Flooding and/or Sea-Level Rise	Winter Storms	Pilot Shortages	Fuel Price Increases	<i>Hurricanes</i>	Tornadoes -	Personnel Issues	Financial Stress/Resilience Issues	Severe Weather (wind, monsoons, haboobs, extreme temperatures)
	19 General/Operation	al Risk of harm to human life	18	Yes	Yes	Yes	Yes			Yes	Yes			Yes
	60 General/Operation	Delay of emergency services	17	Yes	Yes	Yes	Yes			Yes	Yes			Yes
1	61 General/Operation	Violation of regulations as a result of irregular operations	7		Yes					Yes	Yes			Yes
	General/Operation	al Increase in noise complaints	1											Yes
	General/Operation	al Decreased air quality	8	Yes	Yes					Yes	Yes			Yes
	64 General/Operation	lal Impacts to airport level of service	23	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	55 General/Operation	al Increased insect populations	4			Yes				Yes				Yes
	0 0 10 1	I No management of the second	-											W

SELF-DIRECTED RESILIENCY TOOLKIT FOR GA AIRPORTS

TRE TRANSPORTATION RESEARCH BOARD

PURPOSE

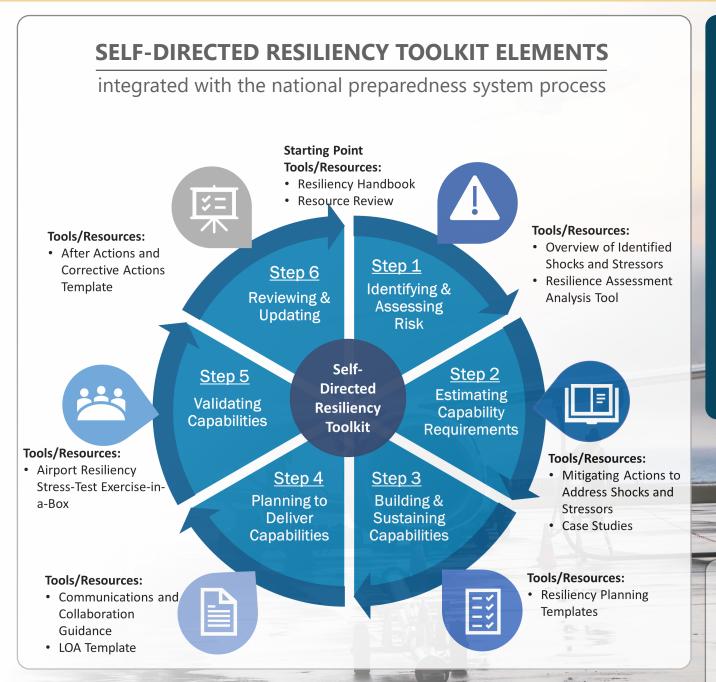
This Self-Directed Resiliency

Toolkit provides GA airport managers—often limited in resources and staff—with the information, tools, and processes necessary to enhance resilience in cost-effective and efficient ways. Through engagement with the toolkit, GA airport facilities can

- Ensure their continued operational resilience to minimize and address disruptions to operations, and
- 2. Continue providing invaluable services to their communities.

WHAT IS RESILIENCE?

Resilience is "the ability to prepare for anticipated hazards, adapt to changing conditions, and withstand and recover rapidly from disruptions."



WHY CARE ABOUT RESILIENCE?

As connectors to rural communities, relievers of larger metropolitan airport systems, and providers of critical services, GA airports serve a fundamental role to the transportation system and generate nearly \$80 billion in annual economic activity.

They also serve critical functions before, during, and after disasters, acting as focal locations for distributing disaster relief, and as search and rescue deployment bases for wildfires, storms, floods, and other natural hazards. Despite their significance, their role is often overlooked — until they cannot fulfill it.

Airport Cooperative Research Program

This brochure was produced as part of ACRP Project 02-92. For more information, visit the National Academies Press website (nap.nationalacademies.org) and search for ACRP Research Report 263: Creating Self-Directed Resiliency Plans for General Aviation Airports.

The Airport Cooperative Research Program (ACRP) is sponsored by the Federal Aviation Administration. ACRP is administered by the Transportation Research Board (TRB), part of the National Academies of Sciences, Engineering, and Medicine. Any opinions and conclusions expressed or implied in resulting research products are those of the individuals and organizations who performed the research and are not necessarily those of TRB; the National Academies of Sciences, Engineering, and Medicine; or ACRP sponsors.