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tors, including the collective risk pro-

file of passengers on a flight. Air mar-

shals are ready to respond if any passenger acts in appropriately and threatens the security of a flight, its

Air marshals are a means to buy down risk and make a flight more se-

cure. However, the expense of placing air marshals on flights means that air

marshals are not on most flights. More-

over, the collective risk profile of most

flights makes it unnecessary to have an

air marshal on them. It appears that the

United flight did not have an air mar-

shal, or such a person would have re-sponded to the incident.

The biggest takeaway from the event is how the passengers respond-

ed. Several acted quickly and decisive ly to wrestle the person to the ground

and keep him from further harming

himself or others. This made these

ssengers de facto air marshals. The basis of risk-based security, the

strategy employed by the TSA, is to match security resources to security

the TSA employs to achieve this is

risk. The most effective program that

crew or its passengers.



OPINION

Travelers made their way toward a TSA security checkpoint in Terminal C at DEW International Airport on March 1. The percentage of passengers screened through TSA PreCheck expedited screening lanes has been falling in recent years. In 2017, 55% of screenings were through PreCheck lanes. The number was 38% in 2021.

PreCheck. The background check that a PreCheck vetted passenger undergoes makes them known to the TSA, and known passengers carry with them far less risk than unknown passengers.

An entire airplane of PreCheck vetted passengers represents an ex-tremely low-risk flight. As the number of non-PreCheck vetted passenger grows on a flight, the collective risk of a flightincrea

The simple solution is to encourage and facilitate more flyers to enroll in PreCheck. At present, over 15 million people have PreCheck, with 32 million people qualified for PreCheck expedited screening through programs like Global Entry and Nexus.

Unfortunately, the percentage of ussengers screened through Pre-Check expedited screening lanes has been falling in recent years. In 2017, 55% of screenings were through Pre Check lanes. This number dropped to 54% in 2018, 46% in 2019, 44% in 2020 and 38% in 2021. The TSA target is 50%, which would translate into around 1 million passengers screened at airport security checkpoint every day

. Vet more can be done Anything that the TSA can do to increase the number of PreCheck vetted passengers being screened makes the entire air system more secure, which benefits everyone. This is because it permits TSA officers to focus more attention on the remaining non-PreCheck-vetted passengers, who are in the unknown category. Reducing TSA officer distraction in this way is a win-win situation for the TSA and for air travelers.

Could the share of passengers screened through PreCheck expedited lanes be increased to 80%? This would be a game changer for airport security. It would probably require offering PreCheck at no cost to anyone willing

to undergo the background check. It would also require greater assurances that background information would be kept secure from breaches.

The recent incident on the United flight demonstrates that aviation security is more about people and less about items. It also demonstrates that some of the most effective security actions occur long after departing airport security checkpoints. Everyone has a role to ensure that their next flight remains safe and secure, Upping the number of PreCheck screenings is the most important thing that the TSA can do to achieve this.

Sheldon H. Jacobson is a professor of computer science at the University of Illinois at Urbana-Champaign. He has studied aviation security for over 25 years, providing the technical foundations for risk-based security and TSA PreCheck. He wrote this column for The Dallas Morning News

An entire airplane of PreCheck vetted passengers represents an extremely low-risk flight. As the number of non-PreCheck vetted passengers grows on a flight, the collective risk of a flight increases.