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## **Troubling Trends in Terrorism and Attacks on Surface Transportation: The Outlook Is Grim, but People Still Have a Great Deal of Control**

by Brian Michael Jenkins, Director, Mineta Transportation Institute's  
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*This Transportation Security Perspective is the seventh in a continuing series produced by the National Transportation Safety and Security Center of the Mineta Transportation Institute. These examine major terrorist attacks and trends in terrorists targeting surface transportation.*

Security experts are seeing some clearly worrisome trends in terrorism. For example, over the past several years, jihadist networks, including al Qaeda's affiliates and allies and those pledging loyalty to the Islamic State of Iraq and the Levant (ISIL), have expanded across Africa, the Middle East, and South Asia.

It is also apparent that the conflicts in Syria and Iraq will be a continuing source of terrorism worldwide. These have attracted an estimated 20,000 foreign fighters, including more than 3000 from Europe, North America and Australia.

The United States is also back at war, leading a bombing campaign directed at ISIL and other jihadist groups, which will inevitably inspire some to take up the jihadist cause and increase the threat of retaliatory terrorist attacks. Although the size of the residual force is being revised, the scheduled withdrawal of American forces from Afghanistan risks a Taliban resurgence and possible al Qaeda return.

In addition, the conflict in the Middle East is spreading, directly engulfing Jordan, Libya, and Egypt. It could easily spread to Saudi Arabia and the Gulf monarchies. Furthermore, ISIL's declaration of an Islamic State has excited and emboldened Islamist extremists worldwide, injecting new spirit into individuals who disengaged from terrorist activities years ago.

Terrorist attacks and plots involving both homegrown terrorists and fighters returning from jihadist fronts are also increasing in Europe and stretching counter-terrorist resources.

And finally, terrorist attacks and assertions of autonomy by militants in Europe's Muslim diaspora communities are provoking backlashes that could lead to violence and exacerbate social tensions.

### **Old tactics are still effective.**

At the same time, the tactics and targets of terrorists remain mostly unchanged. Terrorists continue to seek large-scale casualties with vehicle-borne and suicide bombings. They also remain obsessed with attacking commercial airliners. In fact, 2014 saw new threats against aviation targets, although the number of actual attacks were few and not very lethal. There were less than a handful of attacks outside of areas of active military conflict (such Syria, Iraq, Afghanistan, and the eastern portion of Ukraine) that were confirmed to kill more than one person. Clearly, the enormous effort put into aviation security thus far appears to be working.

By contrast, terrorists continue to see surface transportation as soft targets where they can and do cause high casualties.

One recent development is the growing number of attacks by “lone loons”—highly suggestible individuals with criminal backgrounds or mental problems, possibly inspired by jihadist calls for attacks or by the media coverage of attacks elsewhere.

### **Some positive signs persist**

For the United States, there is some positive news. Unlike some European countries, there has been no American exodus to Syria. Although estimates of those going to fight in Syria and Iraq have increased, the total is still small. It will add another layer of threat, but the history of those who previously traveled to jihadist fronts in Afghanistan, Pakistan, Somalia, and Yemen suggest that this will be a manageable problem.

Furthermore, there has been no surge in homegrown terrorism. Despite the intense online campaigns to radicalize and recruit homegrown terrorists, the jihadists are simply not “selling a lot of cars.” U.S. domestic intelligence efforts are still not optimal, yet the United States has achieved a remarkable degree of success without savaging civil liberties, although some intelligence programs have prompted concerns and criticism.

What does all this mean for the security of surface transportation? With more than 40 years of detailed data on more than 4,000 attacks, the Mineta Transportation Institute’s database of attacks on surface transportation offers analysts the opportunity to discern some long-term trends.

### **Analyzing the attacks can reveal valuable data.**

First, let’s look at attacks by the most effective bombers – those who used most lethal combinations of device, target, and attack method. These bombers kill far more than the rest – an average of 16.3 people per device, 12.5 times more than the 1.3 people killed by the others, and with a median lethality of 3.3 deaths per device instead of zero. This indicates how consistently more lethal they are.

The data also reveals that, over the long run, terrorist attacks on surface transportation targets are becoming more successful. That is, the most effective terrorist bombers are delivering more bombs to their targets, and they are delivering more lethal results. That lethality is increasing in attacks carried out both by jihadist and non-jihadist groups, although attacks by jihadist groups are generally more lethal.

Here are a few other facts:

- Suicide attacks comprise a small but increasing proportion of the total number of attacks, and while they are usually a more lethal tactic, they are not always so.
- A higher percentage of attacks are directed against buses; these attacks are usually the most lethal.
- A lower percentage of attacks are directed against trains and train stations, including subways.
- Most of the attacks continue to occur in South Asia.

### **The most effective terrorist bombers are getting better.**

The ability of the most effective terrorists to get their bombs on target increased from 83 percent between 1975 and 1985 to 100 percent between 2005 and 2015.

Comparing these same periods, the average number of fatalities per device grew from seven to 27 – almost a four-fold increase. Meanwhile, the median number of fatalities per device grew from zero from 1975-1985, to three from 1985-1995, to 15 from 1995-2005, and to 22 from 2005-2015.

In terms of fatalities per device, terrorist attacks on buses and bus stations are now more lethal than attacks on trains and train stations. Between 1975-1985, attacks against train targets were far more lethal. For example, on average there were only 0.5 fatalities caused by attacks against bus stations and stops. By contrast, attacks against train stations killed nine people. But the situation is now reversed. Between 2005-2015 attacks against bus stations and stops killed an average of 34, while attacks against train stations killed 17. However, it is important to remember that terrorist attacks on trains may involve multiple bombs, causing large-scale fatalities as seen in 2004 in Madrid (191 dead) and 2007 in Mumbai (207 dead).

Also, high lethality attacks for both train and bus targets have increased. Attacks with 25 or more fatalities grew from two between 1975-1985, to nine between 2005-2015.

#### **Vigilance does help to prevent attacks.**

Looking only at all attacks in the last ten years, two trends emerge. First, in the United States and abroad, deranged individuals or criminals acting bizarrely are carrying out more attacks. Only one such attack was recorded in the 1975-1985 period, but 22 such attacks occurred in the 2005-2015 period. Although generally low-level, such attacks can result in large-scale casualties. In 2003, a single, mentally disturbed arsonist set fire to a train stopped in a station in Daegu, South Korea, killing 192 people.

We also see that vigilance works. Between 2005-2015, 14 percent of all bomb attacks were stopped primarily because intelligence and law enforcement, security officials and citizens, passengers, and transit crew and staff were alert. Of these stopped attacks, passengers, citizens and employees can be credited with detecting at least 25 percent. Another 24 percent can be credited to those managing or carrying out security functions – be they military, police, or security or intelligence officials. (Note: In the remaining 43 percent of the cases, it is not clear who found the device, but it is most likely vigilant intelligence and security officials, and then citizens, employees or passengers.) This underscores not only the importance of “see something, say something” programs, but also of the investments in good, sensible security.

#### **Trends from 2014 seem to support the longer-term trends.**

But how does 2014 compare with the previous ten years? The 2014 totals appear to underscore the longer-term trends.

- Compared with the previous ten years, 2014 saw the highest number of fatalities ever.
- The number of fatalities per attack was the highest in the past ten years.
- The highest number of attacks with 25 or more fatalities also occurred in 2014.
- Counting only attacks with fatalities, jihadist attacks were 3.3 times more lethal than non-jihadist attacks.

- The second-highest number of suicide attacks (12) occurred in 2014 (13 occurred in 2013), although the lethality of these attacks was not quite as high as that of previous years.
- Ten non-suicide attacks in 2014 in Syria, Iraq, Pakistan, Nigeria, Kenya, Yemen, Pakistan, and China proved extremely deadly, each killing 15 or more people and together killing 339 – just half of all those killed in attacks on surface transportation that same year.
- There were many attacks targeting infrastructure, including pipelines in areas where jihadists are most active.
- Anti-nuclear and environmental extremists in Europe opposing high-speed rail systems committed a spate of attacks on surface transportation in 2014.
- The conflict in Ukraine has led to increased attacks on rail and bus transportation.
- Stabbings also increased in 2014.

**Conflicts will not be resolved anytime soon.**

The fighting in Syria and Iraq is likely to continue for the foreseeable future. The Islamic State has set new norms for terrorist violence worldwide. Destroying this terrorist enterprise will take years.

The increasingly sectarian and ethnic violence could easily cleave across the entire Arab world and beyond. Other conflicts in Libya, Nigeria and across the Sahel, Sinai, Yemen, Somalia, Pakistan, Afghanistan, and Kashmir are likely to continue.

Further terrorist attacks in Europe will create a growing problem of keeping peace between militant Muslim and anti-Islamic groups.

**In the end, it's all about keeping perspective.**

The outlook is grim. Terrorists will not disappear anytime soon, they are more lethal, and they employ more tactics designed to create terror – such as assaults using automatic weapons, ghastly executions, and the like. But how should we consider all this information? How can we put it into context, and what should we do? Consider these four points:

First, everyone must put the risks of terrorist attacks in general, and terrorist attacks on mass transit, into the perspective against all the risks of normal life. Statistically, Americans are significantly more likely to die of accidental or criminal means than at the hands of terrorists. The United States and most countries around the world are not in the same situation as Syria, and they will not become the next Syria anytime soon.

Second, the United States has suffered higher levels of terrorist activity than it faces today. In the 1970s, the nation experienced 50-60 terrorist bombings each year. Although much of this was symbolic violence compared with the determination of today's terrorists to kill in quantity, more people were killed at that time than in the decade following the September 11 attacks.

Third, to the extent that terrorism is theatre, it is the obligation of members of free, democratic societies not to overreact, but instead to go about their business. They certainly should not give in

to unreasonable fears whipped up by the media or by others with a particular agenda. Whether people “soldier on” or “carry on,” they should never give in to fear.

**Control is in the hands of people everywhere.**

That does not mean people should ignore the threat. As previously mentioned, vigilant citizens and passengers play an important role. Detecting suspicious devices or people in public surface transportation is only part of what everyone should be doing. It can and does work. And, it increases uncertainty for the attacker.

But even outside of mass transit, maintaining vigilance is important. A number of plots in the United States, for example, were foiled by ordinary citizens noticing unusual purchases or other requests that just seemed “off” or “out of place.” These can unravel plots. Everyone also must support, as citizens and passengers, reasonable security programs generated by the government and by local transit authorities.

Certainly, there is much to be concerned about. But people everywhere still have a great deal of control.

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**ABOUT BRIAN MICHAEL JENKINS**

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