



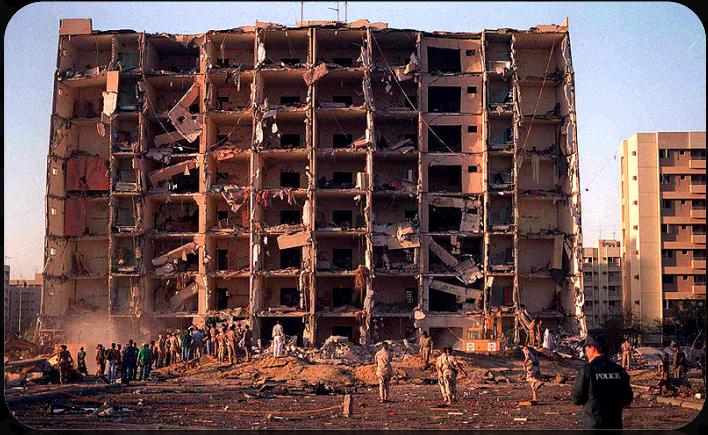
National conversation on the defense of our nation and protecting civil liberties and privacy

A technical perspective

General Keith B. Alexander

Commander, U.S. Cyber Command | Director, National Security Agency | Chief, Central Security Service

Khobar Towers bombing



Khobar Towers Bombing

19 dead
372 injured

INTERNATIONAL

93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13

UNITED STATES



9/11

2,966 dead
More than 6,000 injured

39 injured



Embass



9/11



“At 8:46 on the morning of September 11, 2001, the United States became a nation transformed...”

INTERNATIONAL

93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13

UNITED STATES

93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13

WTC bombing

9/11
2,966 dead
More than 6,000 injured

Khobar Towers bombing
Embassy bombing



9/11



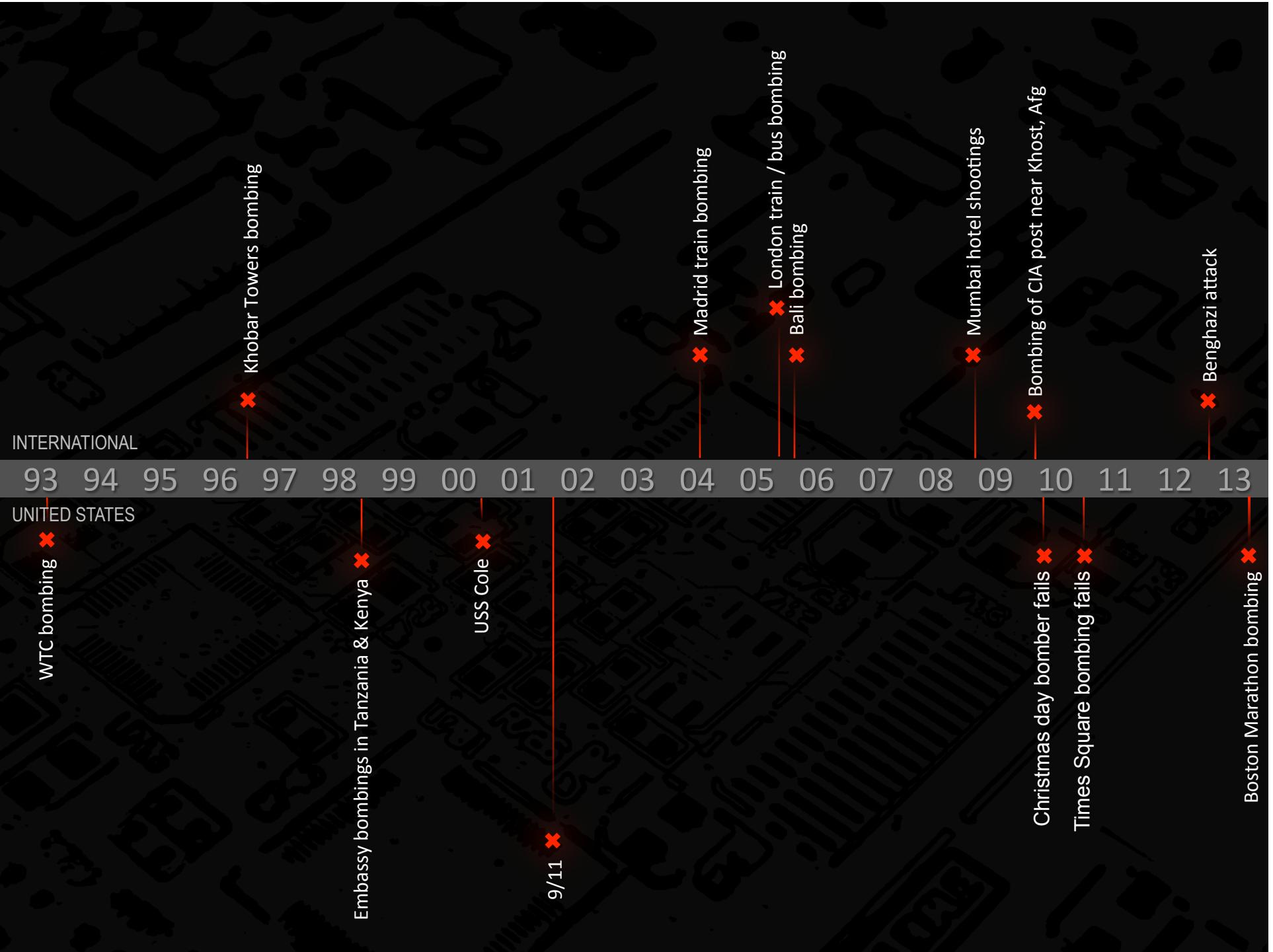
...the Intelligence Community failed
to connect the dots.

- 9/11 Commission



Never Again

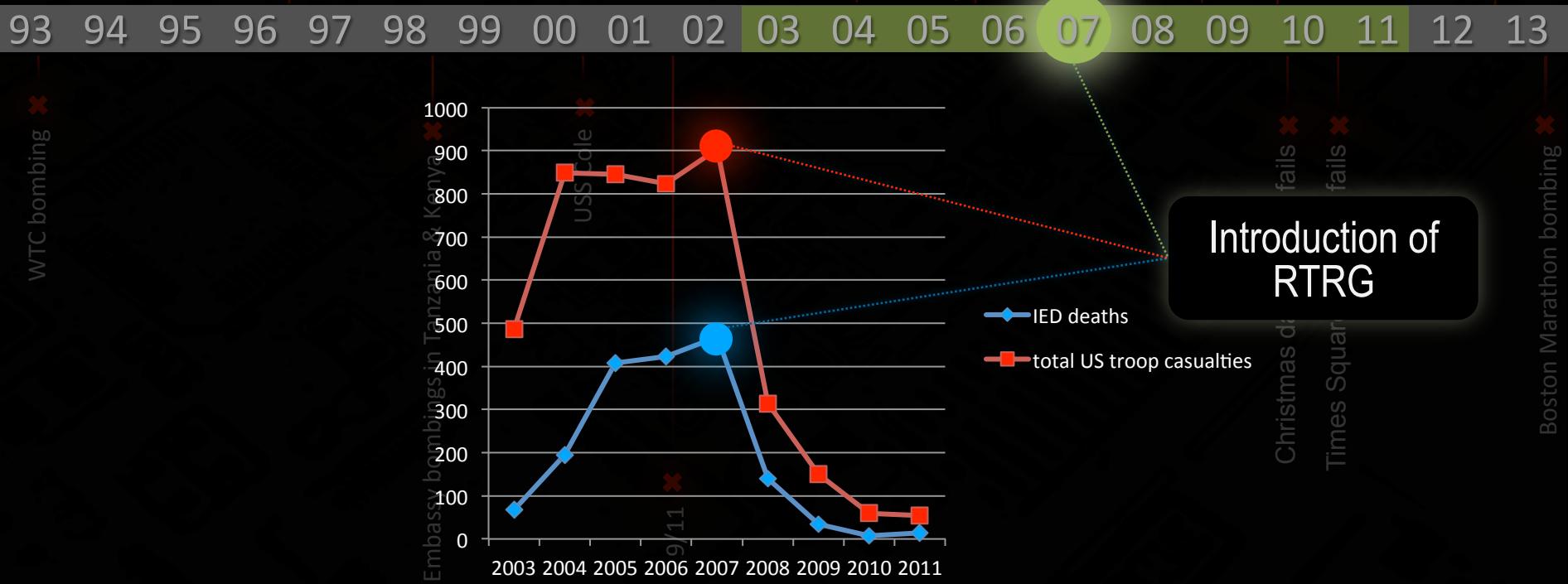




Foreign Intelligence – Saving Lives

NSA developed and deployed Real Time Regional Gateway (RTRG) to Iraq and Afghanistan as part of our mission to support our military.

RTRG uses metadata from hundreds of sensors to enable tactical users to rapidly identify adversaries and IEDs in billions of lines of data.



- Virtually all democracies have lawful intercept programs
- The U.S., however, operates its program under a strict oversight regime with oversight by the courts, Congress and the Administration

U.S. companies put energy, focus and commitment into protecting the privacy of their customers around the world, while meeting obligations under the laws of the US and other countries in which they operate

The government created two programs.

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WTC bombing

Section 215 AUTHORITY
Business Records FISA

Telephone metadata only;
used for counterterrorism purposes
only.

Section 702 AUTHORITY

Content of Communications;
may only target foreign persons
reasonably believed to be overseas.

Al Qaeda bombing fails

U.S. and our allies benefit

Section 215 Authority

Business Records FISA (U.S. Call Records)

For counterterrorism purposes - a program designed to identify the communications of persons suspected to be associated with terrorist organizations communicating with individuals inside the U.S.

Date/Time	From Address	To Address	Length	Site	Source
2013-Mar-04 22:35:11	9999876543XXX	9999999999XXX	0	US TELCOM	FISA-BR
2013-Mar-05 06:50:01	9999876543XXX	777777777777XXX	24	US TELCOM	FISA-BR
2013-Apr-28 11:05:48	997456789XXX	9999876543XXX	89	US TELCOM	FISA-BR
2013-May-10 20:22:05	9999876543XXX	19487418XXX	0	US TELCOM	FISA-BR
2013-May-15 18:30:11	9999876543XXX	997234567XXX	124	US TELCOM	FISA-BR

93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13

NSA obtains:

- Date/Time of call
- Calling number (from address)
- Called number (to address)
- Duration of call (length)
- Origin of metadata record (site/source)

NSA does NOT obtain:

- Content of calls
 - NO voice communication
 - NO SMS/text messages
- Subscriber information
 - NO names
 - NO addresses
 - NO credit card numbers
- Locational Information

Focused on defending the homeland

Section 702 Authority

FISA Amendment Act

For foreign intelligence purposes, and applies only to communications of foreign persons who are located abroad, and requires a valid documented foreign intelligence purpose such as counterterrorism.

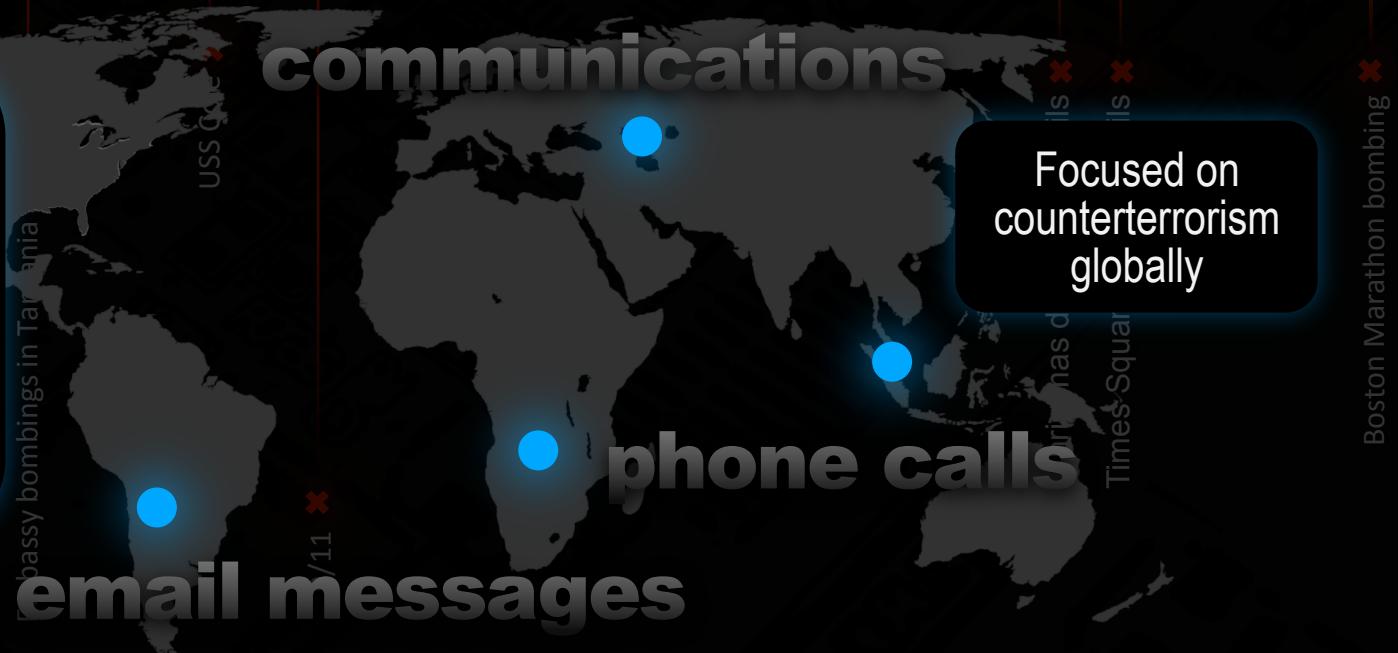
May NOT target any U.S. person anywhere in the world.

93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13

Under the 702 program, the U.S. government does not unilaterally obtain information from the servers of U.S. companies

Industry is compelled to comply this program

Focused on counterterrorism globally



These programs helped disrupt a plot to bomb the New York City subway system

It would have been the biggest terrorist attack since 9/11 on U.S. soil.

93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13

STEP 2

STEP 1

Section 215 AUTHORITY
NSA entered Zazi's telephone number into the business records data, identifying and passing additional leads back to FBI for investigation

One of the leads revealed a previously unknown number for Adis Medunjanin highlighting his connection to Zazi as a co-conspirator in the plot.

Both Zazi and Medunjanin were subsequently arrested and the attack thwarted.

Section 702 AUTHORITY
NSA intercepted an email from a terrorist in Pakistan who was communicating with Najibullah Zazi in Denver, Colorado about a recipe for explosives.



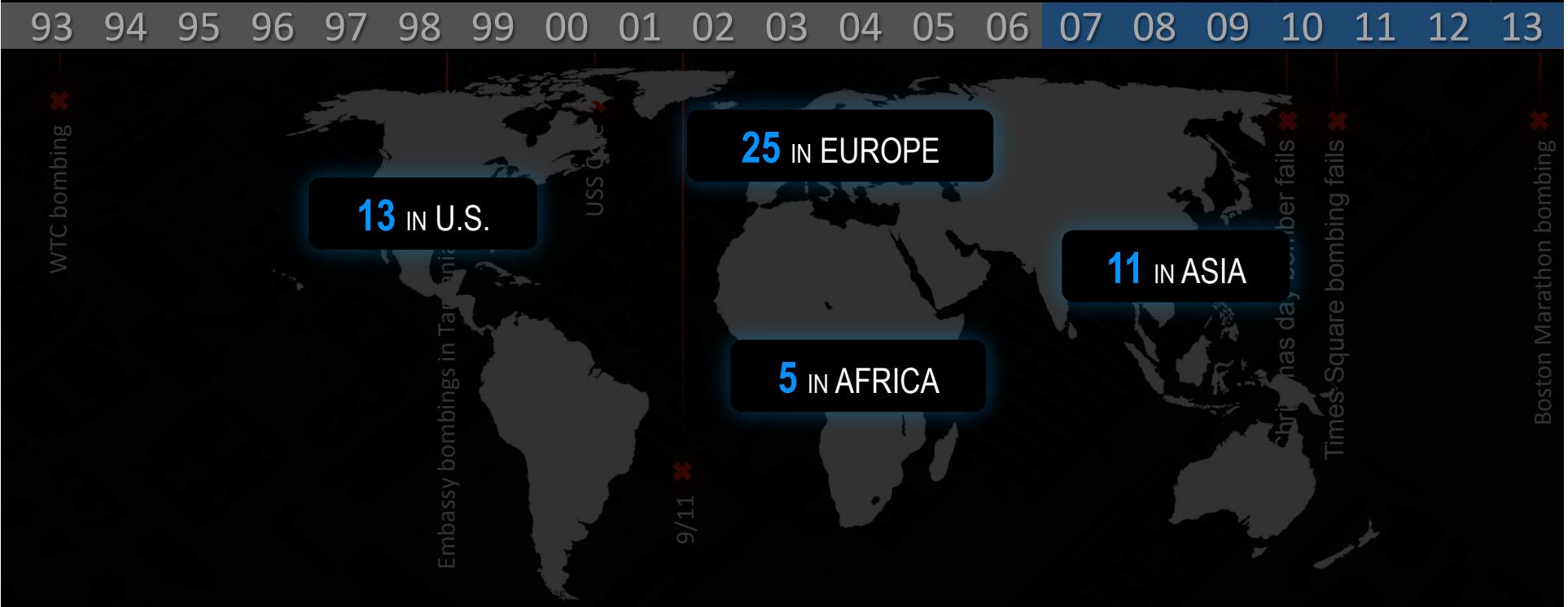
Christmas day
Times Square

Boston Marathon bombing

Emb

FBI had seven days to use this information to stop the attack.

These programs have protected us and our allies
And have helped us understand and disrupt 54 terror-
related activities





What Will the Future Be?

Terrorist will continue to pose a threat and they are changing their tactics.

Conditions that may shape the next decade:



What Will the Future Be?

Terrorists will continue to pose a threat and they are changing their tactics.



We welcome your ideas on how we can better protect our civil liberties and privacy while defending our nation and allies from attacks.

ideas@nsa.gov

How can we do this better?

Let's start the discussion. Questions?