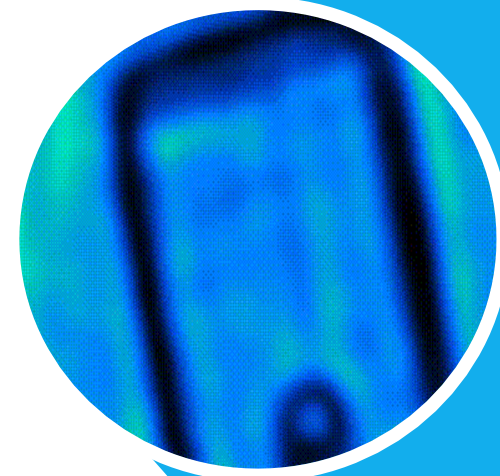


State of Mail Security

2021 Annual Report



Will Plummer
Chief Security Officer



Cody Martin
Director of Mail Security



Chuck Randolph
Executive Director,
Strategic Intelligence

RaySecur Mail Security Panel



Will Plummer

Chief Security Officer

EODSecur Program Director

25 Year U.S. Army EOD



Cody Martin

Director of Mail Security

SOP Team Lead

12 Year U.S. Postal Inspector



Chuck Randolph

Executive Director,

Strategic Intelligence, Ontic

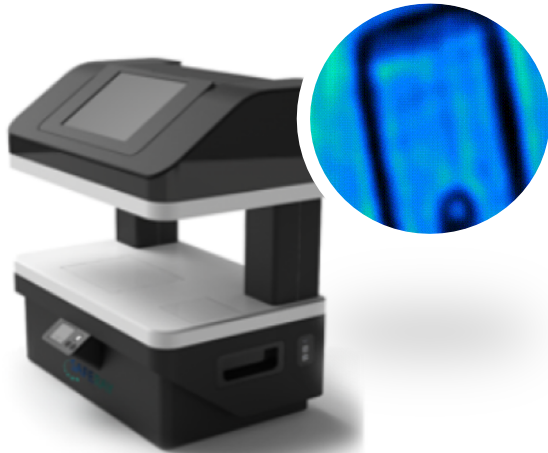
IPSB President

RaySecur

The Standard in Mail Security

National Lab Spin-Out Technology

Patented, real-time, safe T-ray imaging systems.



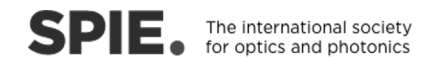
US Department of Homeland Security

Designated QATT under US DHS SAFETY Act.



Security Innovation and Tech Leadership

Imaging and Photonics Technology and AI.



Scalable Enterprise Mail Security — Five Pillars



(2) Standard Operating Procedures

- Global Mailroom Mail Screening Process
- SOP-001: Mail Security Screening
- SOP-002: Suspicious Item Screening
- SOP-003: Emergency Response
- Appendix: Site-Specific Information

Site #1	Site #2	Site #...	Site #...	Site #...
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(3) Web-Based Training Platform

Which training is right for you?

Mail security training shouldn't be complicated. We've organized our training courses and materials into convenient role-based categories.

<p>Global Security Director</p> <p>You protect personnel & property through defined security procedures. Mail security is one of your team's responsibilities.</p> <p>Global Security Director</p>	<p>Mail Center Manager</p> <p>You oversee mailroom operations teams. You're focused on safe, efficient processing & managing your team's certifications.</p> <p>Mail Center Manager</p>	<p>Mail Handler</p> <p>Your daily work in the mail center includes screening, sorting, processing & managing your team's certifications. delivering mail parcels safely & efficiently.</p> <p>Mail Handler</p>
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------



2021 Annual Mail Threat Report

> **Single Source of Mail Threat Data**

- Aggregate individual government data sources into a single report
- Updated on an annual basis

> **Actionable and Timely Intelligence**

- Government data may lag actual events by 6–12 months (2021 data not yet published)
- Includes open-source data for last 12 months
- Support decision makers in planning and risk mitigation

Federal Mail Threat Data Sources

2020 Key Statistics

> USPIS Annual Report

400

Inspectors Dangerous
Mail Investigations (DMI) Unit

6K+

Suspicious Mail Incidents
Responded to

262K

Forensics Examinations

> United States Bomb Data Center

4K

Suspicious Packages

1K

Incidents Involving
Letters or Parcels





Key Statistics and Analysis

About the Data

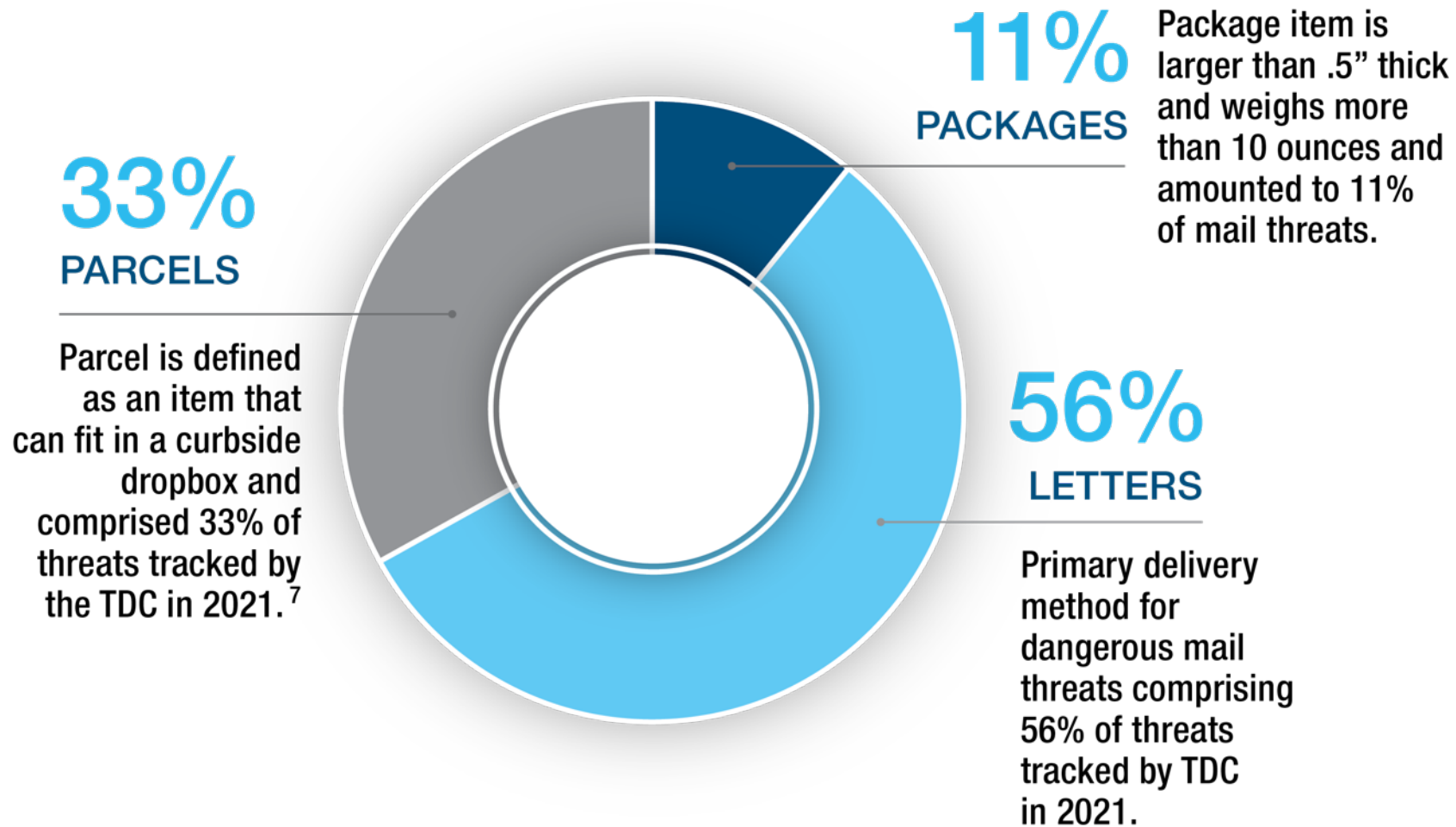


> **400+ Mail Threat Incidents
US and International**

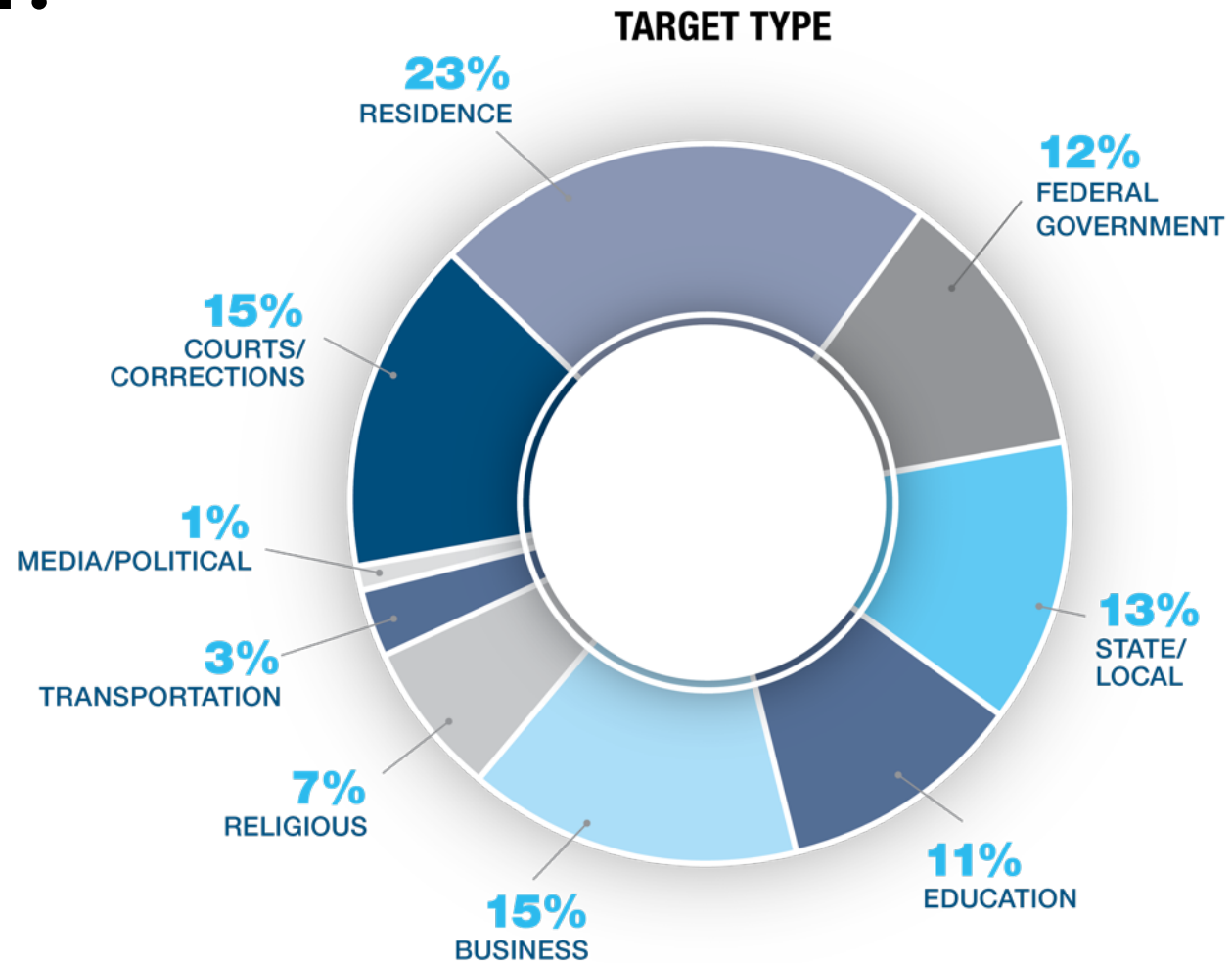


> **Media Reporting and
Public Domain**

Delivery Method

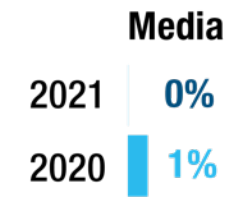
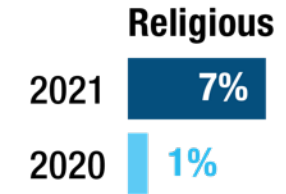
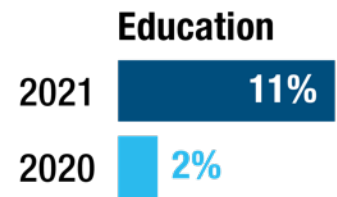
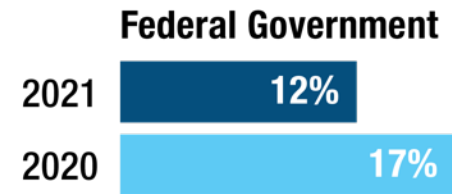
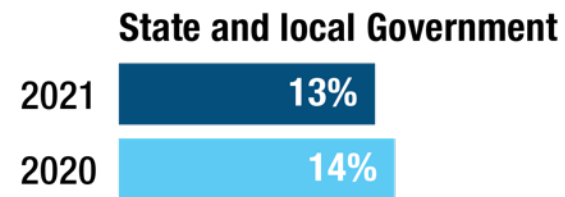
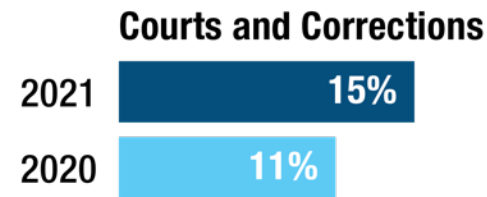


What is being targeted?

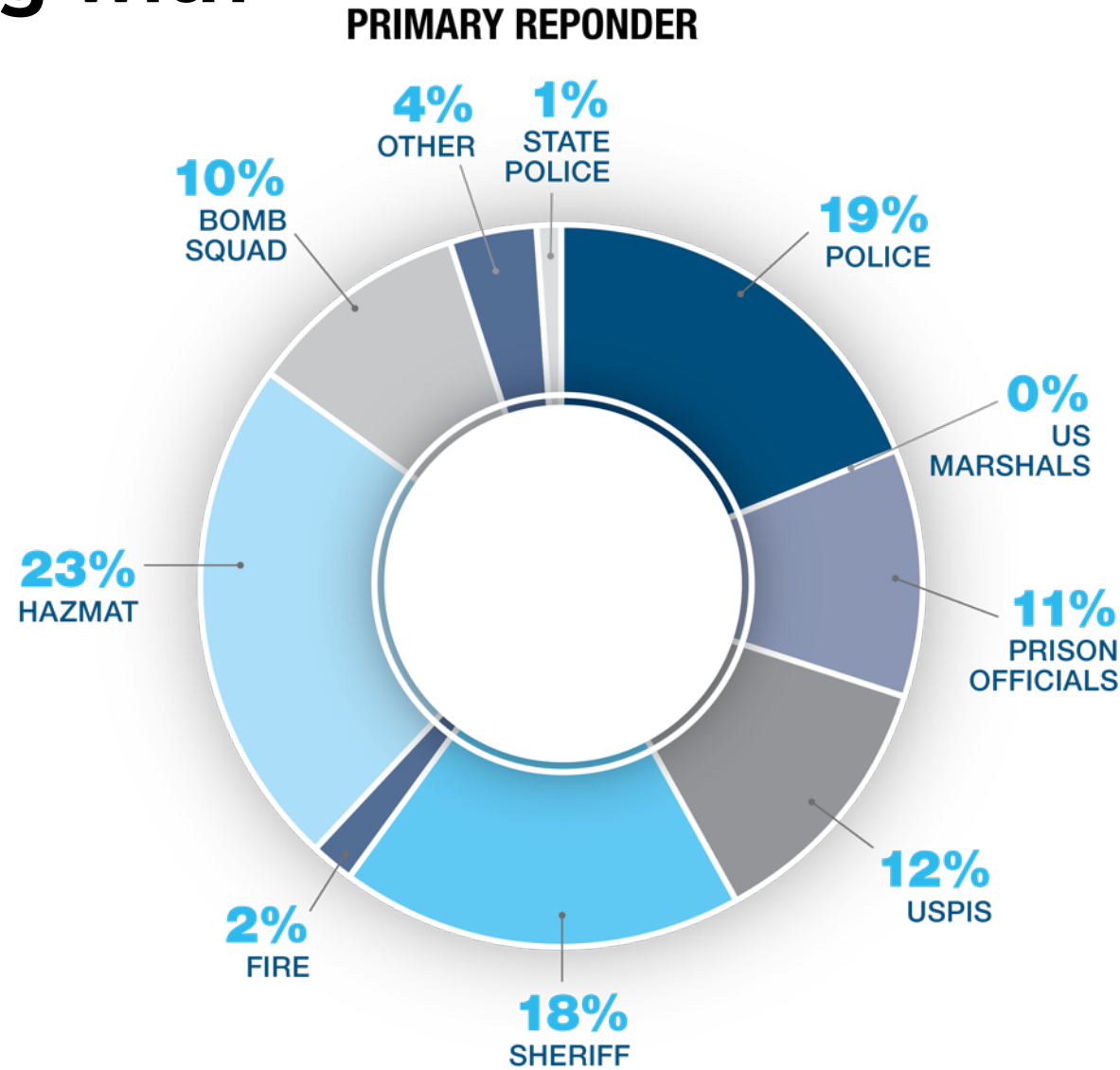


Year-over-Year

TARGETS

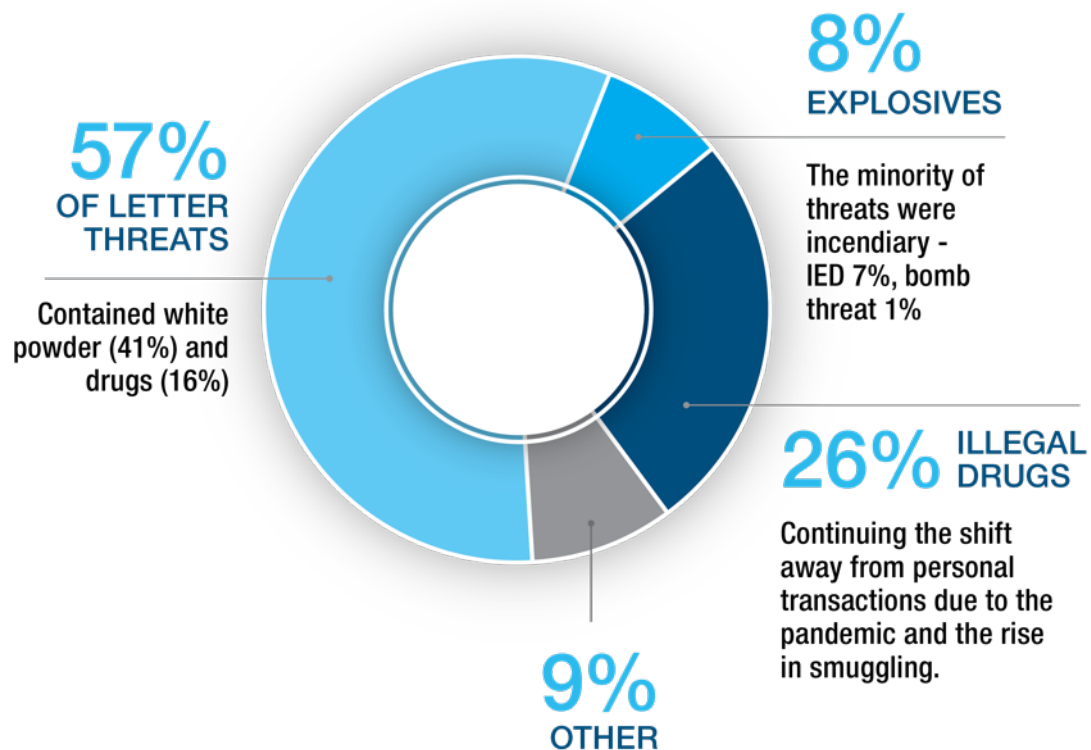


Who is dealing with the problem?



What do screeners think is the threat?

SUBSTANCES

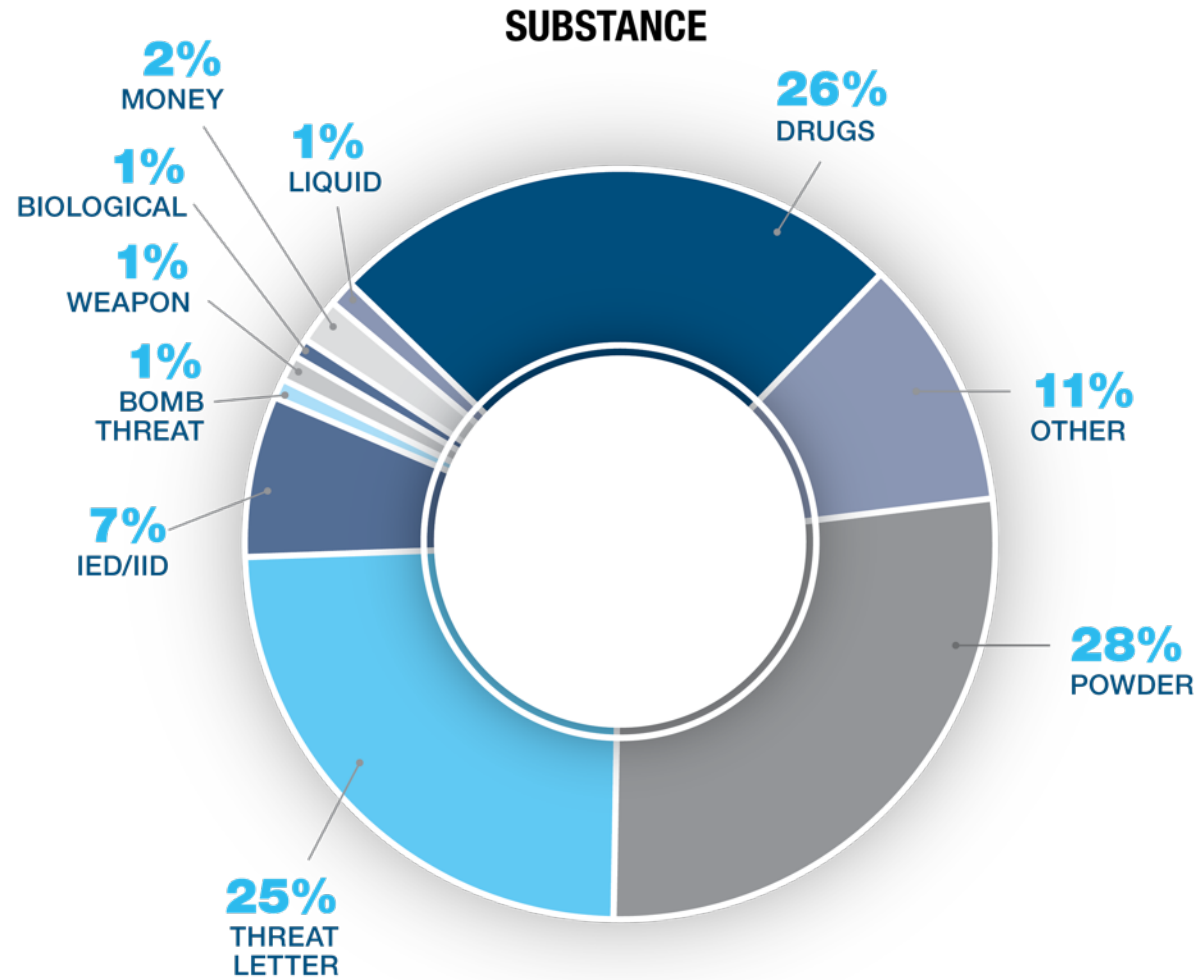


TOP 10 SUSPECTED SUBSTANCES*

1	Ricin	19%
2	Anthrax	18%
3	Other Drugs	18%
4	Marijuana/THC	11%
5	Unknown	7%
6	Cocaine	6%
7	Fentanyl	5%
8	Methamphetamine	5%
9	Other	5%
10	Suboxone	3%

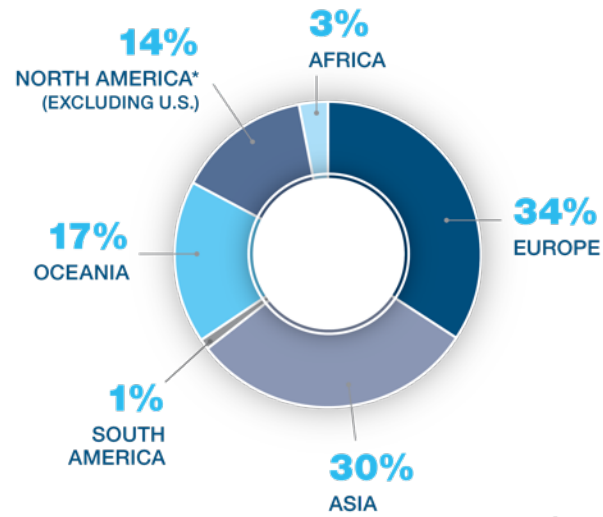
* As suspected by first responders prior to lab testing.

What's in the package?

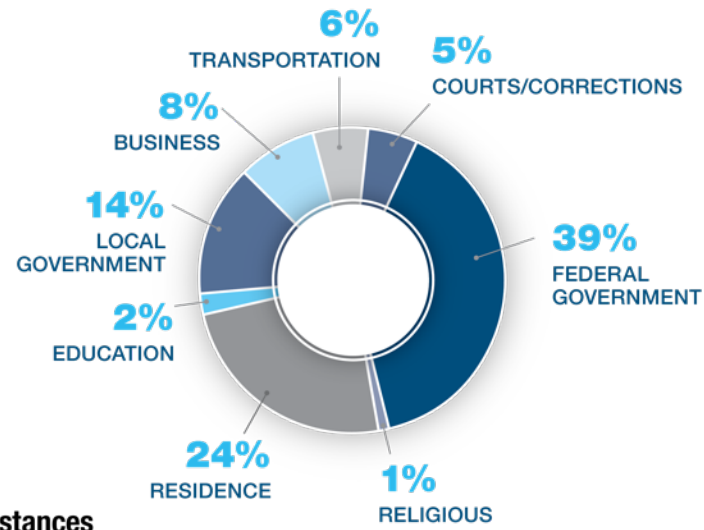


Global Incidents

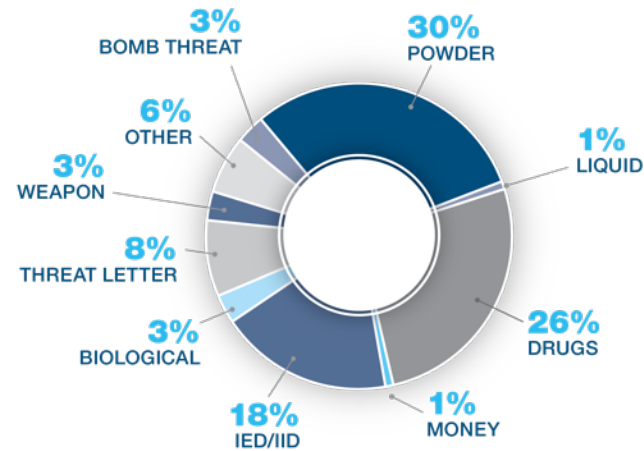
Continents



International Targets



International Substances





2021 Case Studies:
Successful Mail-borne Attacks

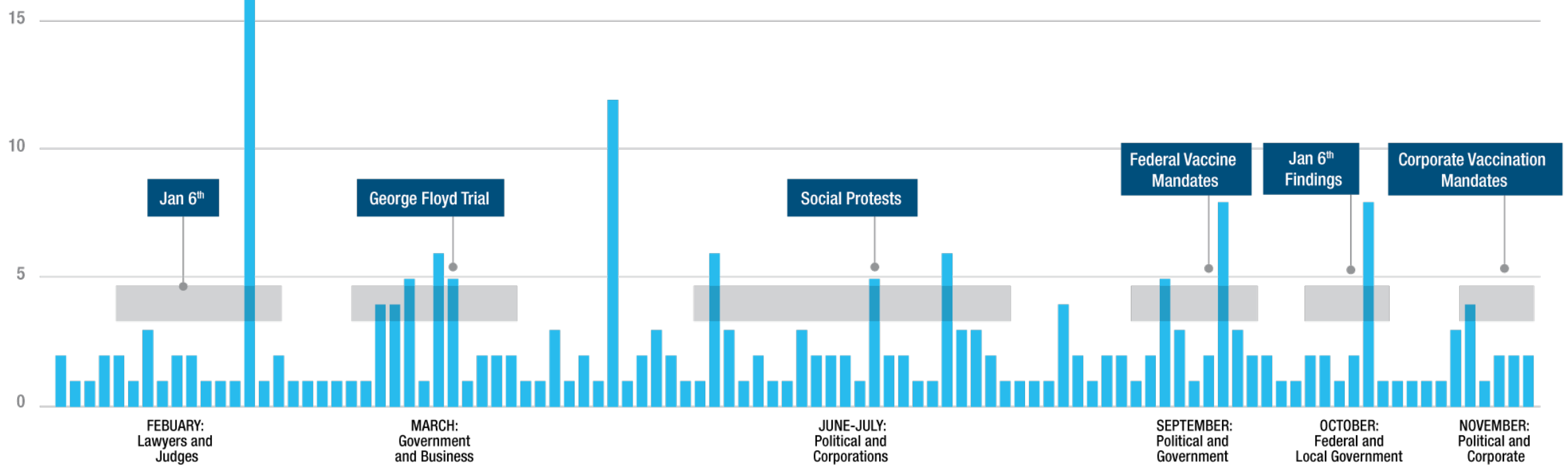
Driving Factors

- > Mistrust in the Media and Government
- > Continued COVID Response Threats
- > Mandatory Vaccine Policies
- > Feeling “Lack of Representation”



Clear Escalation Pattern

Mail incidents closely follow societal events



Emerging Trends in Mail Attacks

Notable increases:

> Harmful Intent

Toxicity in white-powder attacks

> Illegal Drugs

Distribution to residential and correction facilities

> Social Intolerance

Targeting ethnic and religious classes

> Individual Targeting

Government, political, and corporate figures

> Digital & Physical

Convergence of cyber and mail



Smuggling

Man accused of smuggling drugs into Georgia prisons with paper

- Police uncovered drugs funneled into Georgia prisons by concealing them in laced pieces of paper, ***disguised as legal correspondence*** to inmates.
- "This person had been purchasing cannabinoid in powder form, converting the powder into liquid form, soaked it into the paper, and that paper was then being turned into basically disguised formal correspondence.



Terrorism Threat

'Breaking Bad' inspired Boston researcher to seek poisons

- The former head of advanced research at a Boston-area biotechnology company told investigators he was inspired by the television show “Breaking Bad” when he tried to obtain the powerful poison ricin, federal prosecutors said.
- After he spoke to agents, they alleged he researched poisons that could be made at home, prosecutors said.



Government Officials & World Leaders

Death Threats, White Powder and Rand Paul

- An unknown person mailed a package containing suspicious white powder to the home of Republican Kentucky Senator Rand Paul—the second instance in five days.



Letter addressed to the Pope with three bullets inside

- Italian police are investigating a disturbing death threat addressed to Pope Francis. Law enforcement in Milan has confirmed an envelope containing three bullets was sent to the Vatican.



Anti-vaccine Sentiment

Man arrested over a package sent to vaccine plant

- A hoax package mailed to a Covid-19 vaccine production plant in southeast Wales caused a shutdown that lasted several hours.
- The package itself was not a complete threat but it was a clear message that the 53-year-old man charged with sending it wanted to disrupt the facility.
- The man has been charged with dispatching an article by post "to induce the belief it is likely to explode or ignite."





Looking Ahead: Prepare for 2022

RAYSECUR™

What will 2022 bring?

Trends

- Insider threats
- Workplace violence
- Response to vaccine mandates
- Response to mid-term elections

Trigger Topics

- COVID Response
- Personal Biases
- Firing/Layoff
- Growing Empowerment

Locations

- Corporate
- Government
- Labs and Testing Facilities
- Jails and Prisons

Types

- White Powder Toxicity
- Death Threats
- Hate Crimes
- Extortion

2022 Forecast

- White Powder Increasing
 - Mid-Term Election Response
 - Higher Profile Targeting
 - Drug Increase
 - Local officials
-
- Through February, 2022
 - United States — up 5% over 2021
 - International — jumped 100% from 2021



Understanding Risk

In general, the risk associated with the operation of an organization's mail center can be viewed through three basic factors. The following "formula" can be used as the basis for determining an organization's mail center risk level:

$$\mathbf{RISK} = \mathbf{THREAT} + \mathbf{VULNERABILITY} + \mathbf{CONSEQUENCE}$$

§3.2 US DHS Risk Definition (pg. 13)

- **THREAT** – known or perceived motivations and mechanisms (CBRNE or hoax)
- **VULNERABILITY** – strengths and weaknesses of the physical organization or site
- **CONSEQUENCE** – magnitude of impact should a threat occur

Five Pillars of Effective Mail Security



People



Procedures



Training



Technology



Emergency Response

Preventing the People Risk



U.S. Postal Inspection Service Report

- > Most mail threats motivated by someone within or close to the organization
- > Know your people, your customers, and anticipate changes in the business climate

Overt Mail Security

- > Let employees know all mail is subject to screening
- > Stamp security screened mail
- > Discourage insider threats and reinforce security culture

Operating Procedures and Standards Matter



Global Mailroom Mail Screening Process

SOP-001: Mail Security Screening

SOP-002: Suspicious Item Screening

SOP-003: Emergency Response

Appendix: Site-Specific Information

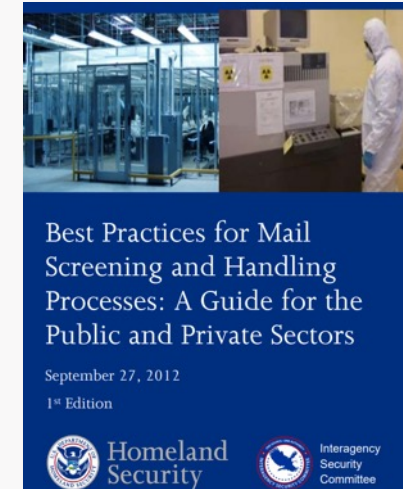
Site #1

Site #2

Site #...

Site #...

Site #...



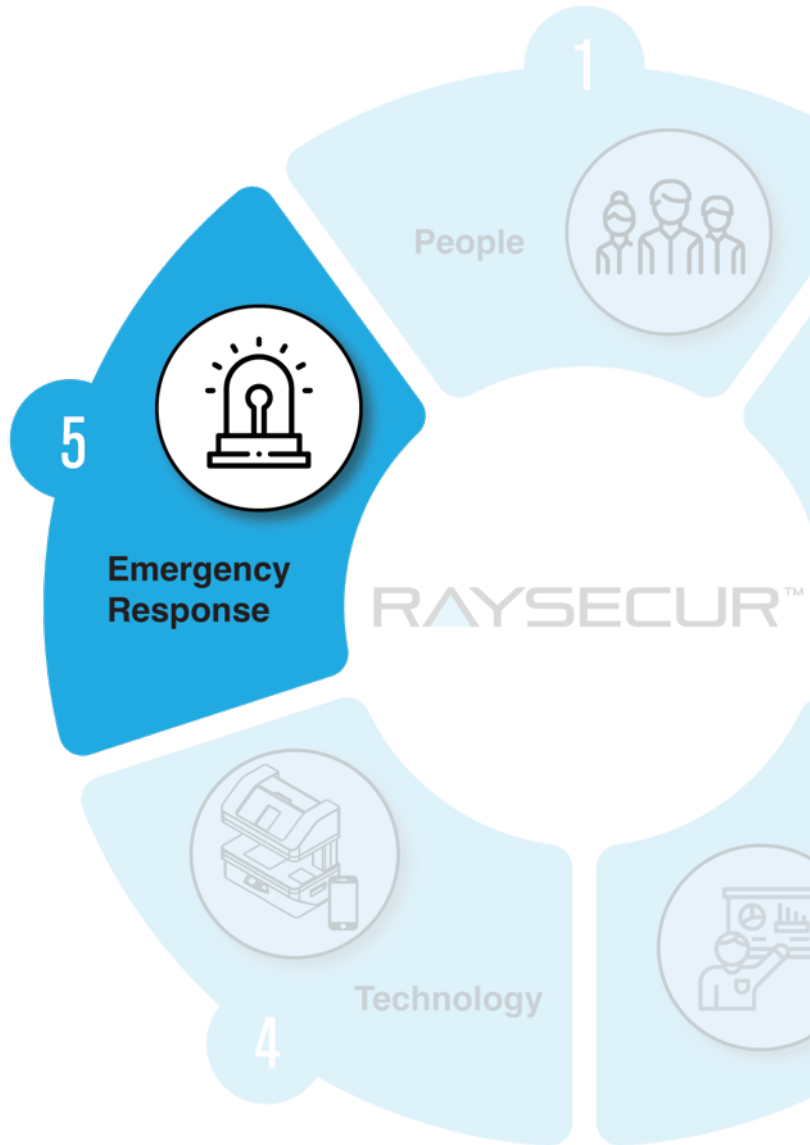
> Global Mail Security Standards

- US Department of Homeland Security (USDHS)
- UK Center for the Protection of National Infrastructure (CPNI)

> Risk Evaluation Approach

- Based on established government guidelines
- Flexible to adapt to individual risk criteria for each facility
- Provides objective criteria to quantify risk

Emergency Response Planning



USPIS Response

- > 4 hours
- > Unmarked SUV
- > Dangerous Mail Specialist
- > Screen up through identification
- > Resolve or escalate



Local (911) Response

- > Faster response times
- > Numerous personnel
- > Evacuations
- > **Very similar mail screening equipment**



Closing the Mail Security Gap

Dangerous Mail in Context — Think Globally

- > **10 times** per day on average, according to USPS data
- > ~**3x** greater risk in EU, relative to North America
- > Need to consider in the aggregate vs. isolated individual events

Combating Mail Threats

- > Understand your organization's risk profile
- > Advance planning, countermeasure implementation, and prevention

> **RISK** = THREAT + VULNERABILITY + CONSEQUENCE

Additional Resources

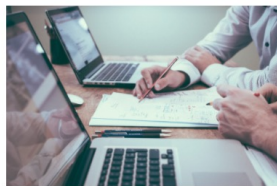


2021 Annual Mail Threat Report

The Industry's Only Comprehensive Report on Mail-borne Threats



Monthly Security Alerts Delivered to Your Inbox

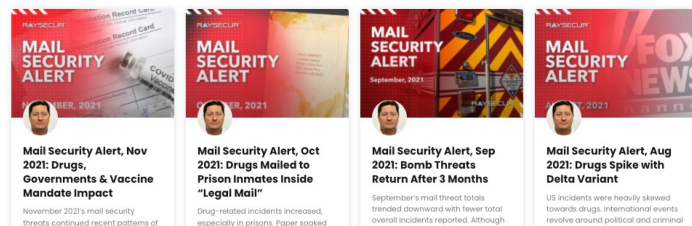


Mail Security Alerts

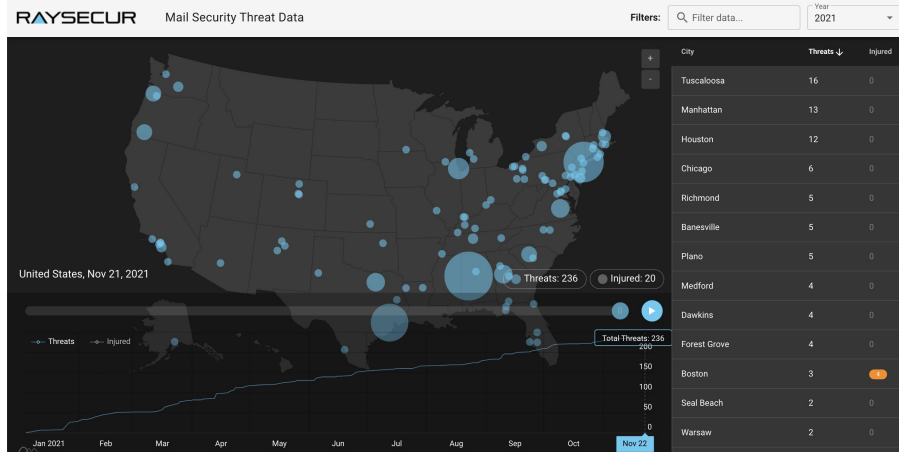
RaySecur is designated by the US DHS, and we'd love for you to join our community.

We provide ongoing mailroom threat incident analysis – find out what is happening near you so you can respond quickly

[Sign up for Alerts](#)



Mail Threat Data Center Interactive, Dynamic Map of Incidents



RaySecur Mail Security Experts



PHONE

844-729-7328



Info@raysecur.com



Thank you!

Questions?