



Virginia Information Technologies Agency

# COV Information Security Program and Threat Overview

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HITSAC Briefing

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# CoVA IT Infrastructure

## Computers

59,374 PCs  
3,356 servers

## Mailboxes

58,948 accounts

## Data storage

1.5 petabytes

## Mainframes (2)

IBM  
Unisys

## Communications

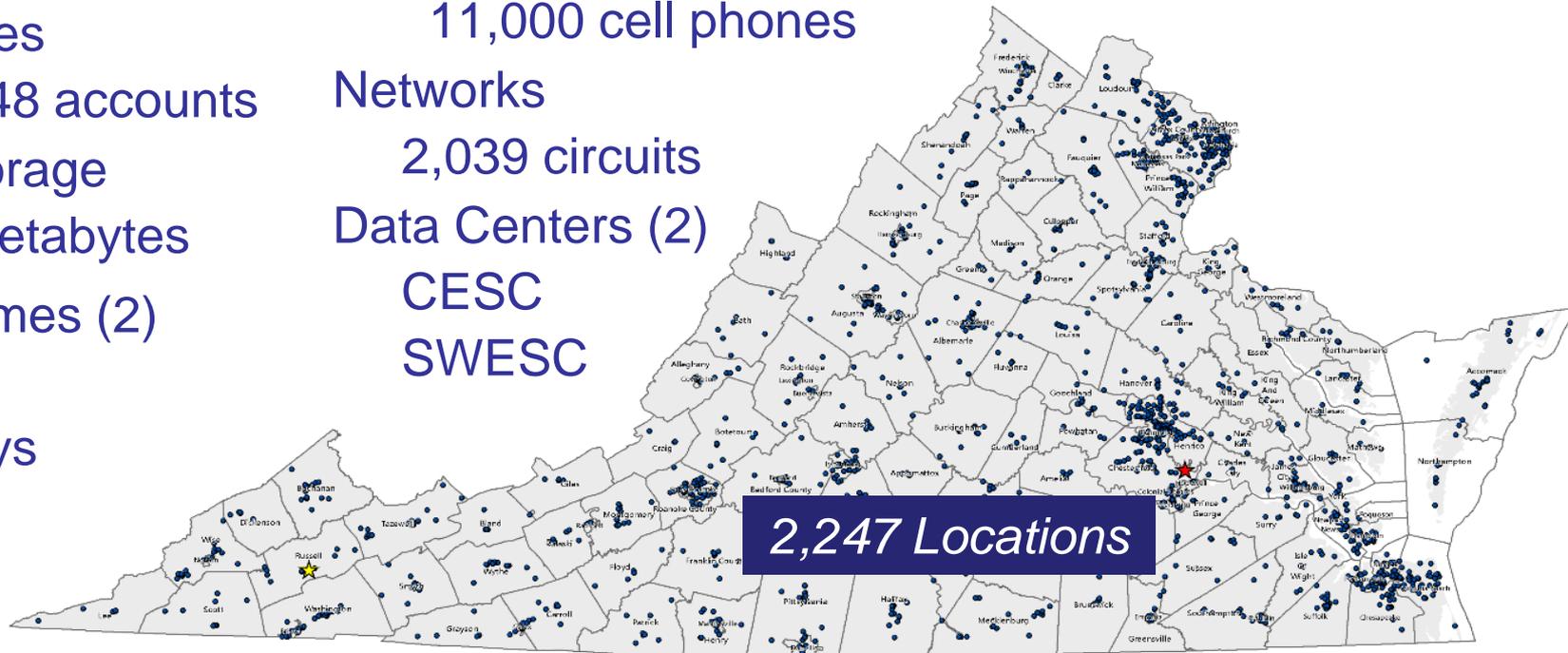
55,000 desk phones  
6,100 handhelds (PDAs)  
11,000 cell phones

## Networks

2,039 circuits  
Data Centers (2)  
CESC  
SWESC

## Printers

5,311 network  
22,000 desktop



# DATA BREACHES

DATA RECORDS LOST OR STOLEN IN 2014

1,023,108,267

2,803,036

records lost or stolen  
every day



116,793

records  
every hour



1,947

records  
every minute



32

records  
every second

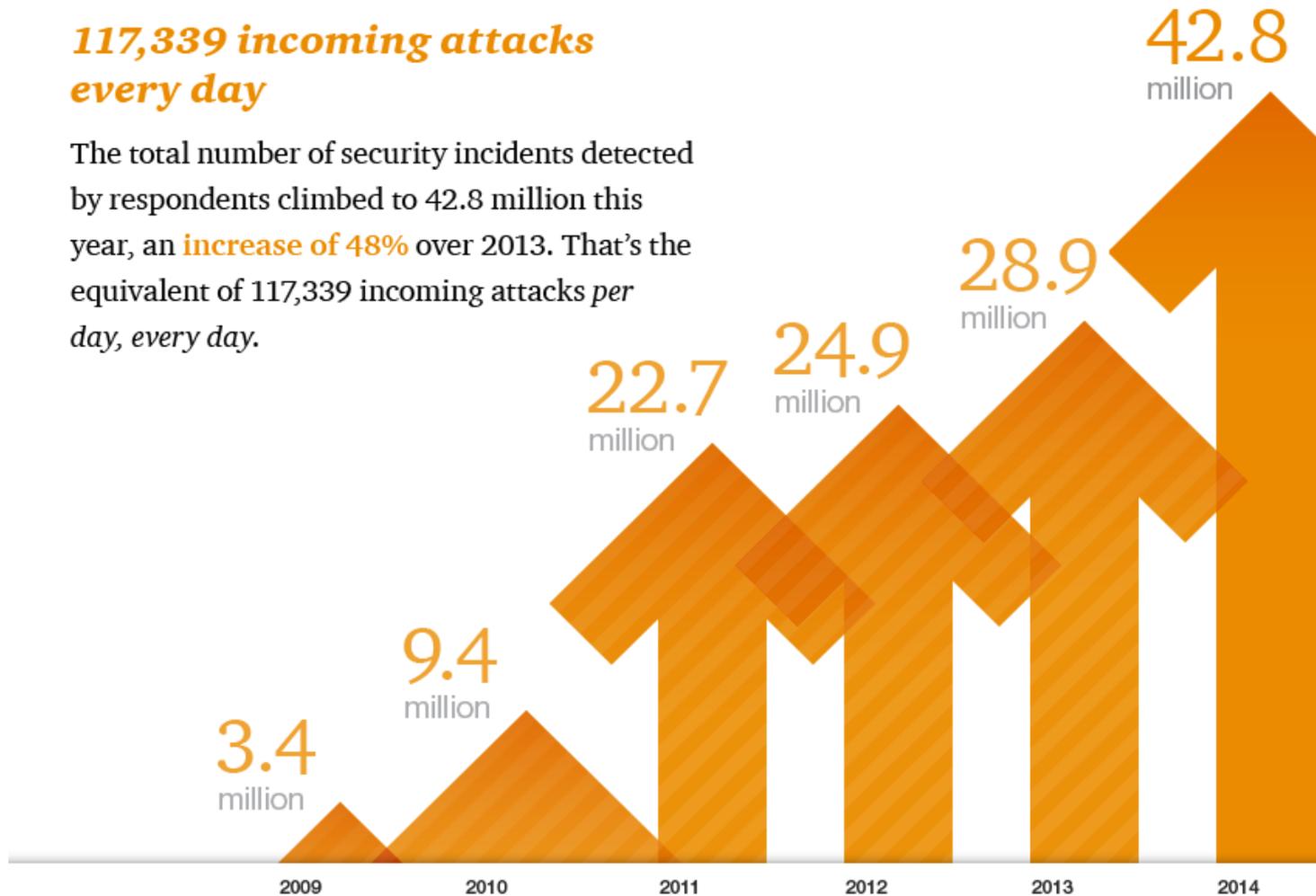


ONLY 4% of breaches were "Secure Breaches" where encryption was used and the stolen data was rendered useless.



**117,339 incoming attacks every day**

The total number of security incidents detected by respondents climbed to 42.8 million this year, an **increase of 48%** over 2013. That's the equivalent of 117,339 incoming attacks *per day, every day.*

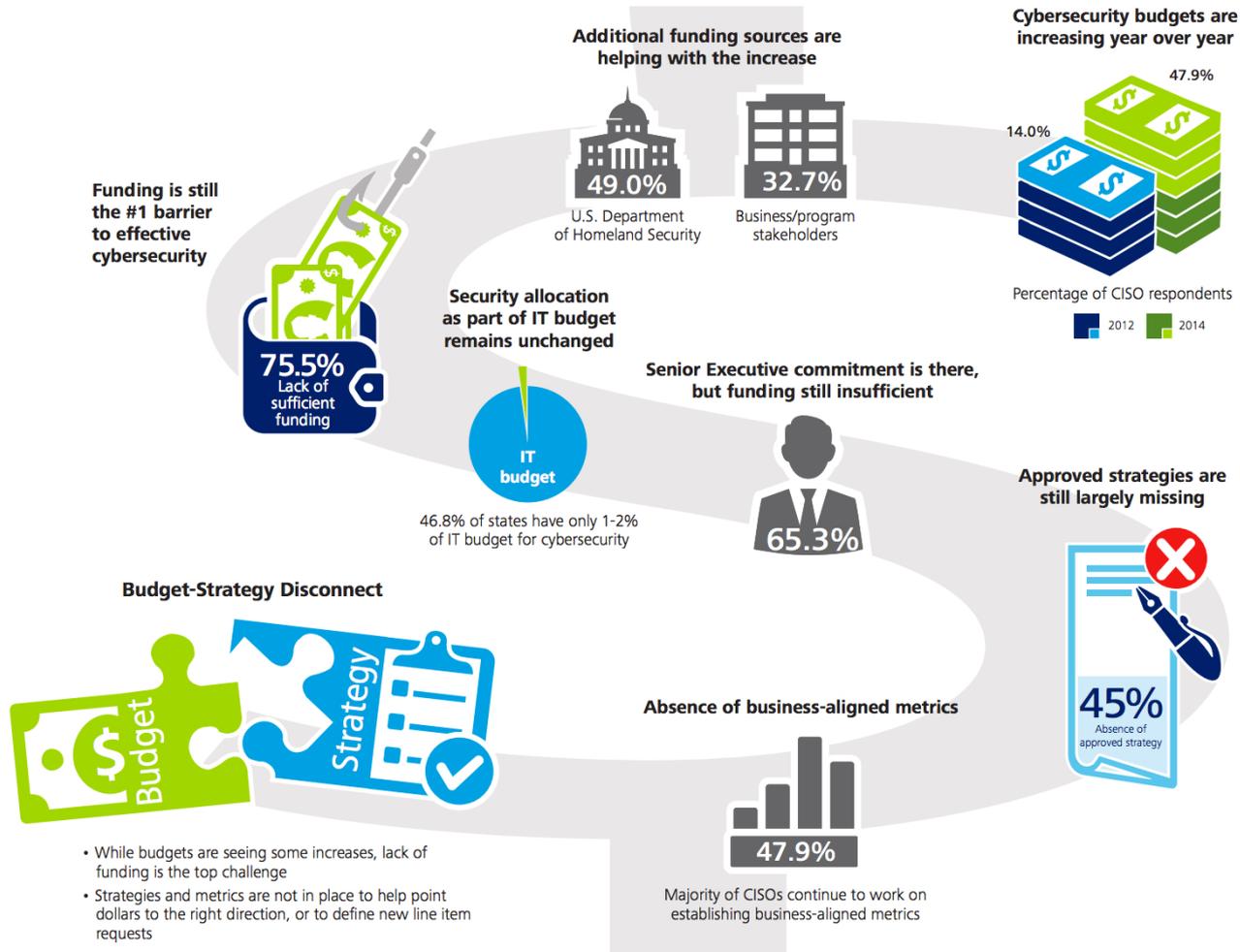




# Verizon Data Breach Investigation Report

INDUSTRY	NUMBER OF SECURITY INCIDENTS				CONFIRMED DATA LOSS			
	TOTAL	SMALL	LARGE	UNKNOWN	TOTAL	SMALL	LARGE	UNKNOWN
Accommodation (72)	368	181	90	97	223	180	10	33
Administrative (56)	205	11	13	181	27	6	4	17
Agriculture (11)	2	0	0	2	2	0	0	2
Construction (23)	3	1	2	0	2	1	1	0
Educational (61)	165	18	17	130	65	11	10	44
Entertainment (71)	27	17	0	10	23	16	0	7
Financial Services (52)	642	44	177	421	277	33	136	108
Healthcare (62)	234	51	38	145	141	31	25	85
Information (51)	1,496	36	34	1,426	95	13	17	65
Management (55)	4	0	2	2	1	0	0	1
Manufacturing (31-33)	525	18	43	464	235	11	10	214
Mining (21)	22	1	12	9	17	0	11	6
Other Services (81)	263	12	2	249	28	8	2	18
Professional (54)	347	27	11	309	146	14	6	126
Public (92)	50,315	19	49,596	700	303	6	241	56
Real Estate (53)	14	2	1	11	10	1	1	8
Retail (44-45)	523	99	30	394	164	95	21	48
Trade (42)	14	10	1	3	6	4	0	2
Transportation (48-49)	44	2	9	33	22	2	6	14
Utilities (22)	73	1	2	70	10	0	0	10
Unknown	24,504	144	1	24,359	325	141	1	183
<b>TOTAL</b>	<b>79,790</b>	<b>694</b>	<b>50,081</b>	<b>29,015</b>	<b>2,122</b>	<b>573</b>	<b>502</b>	<b>1,047</b>

## Budget-strategy disconnect

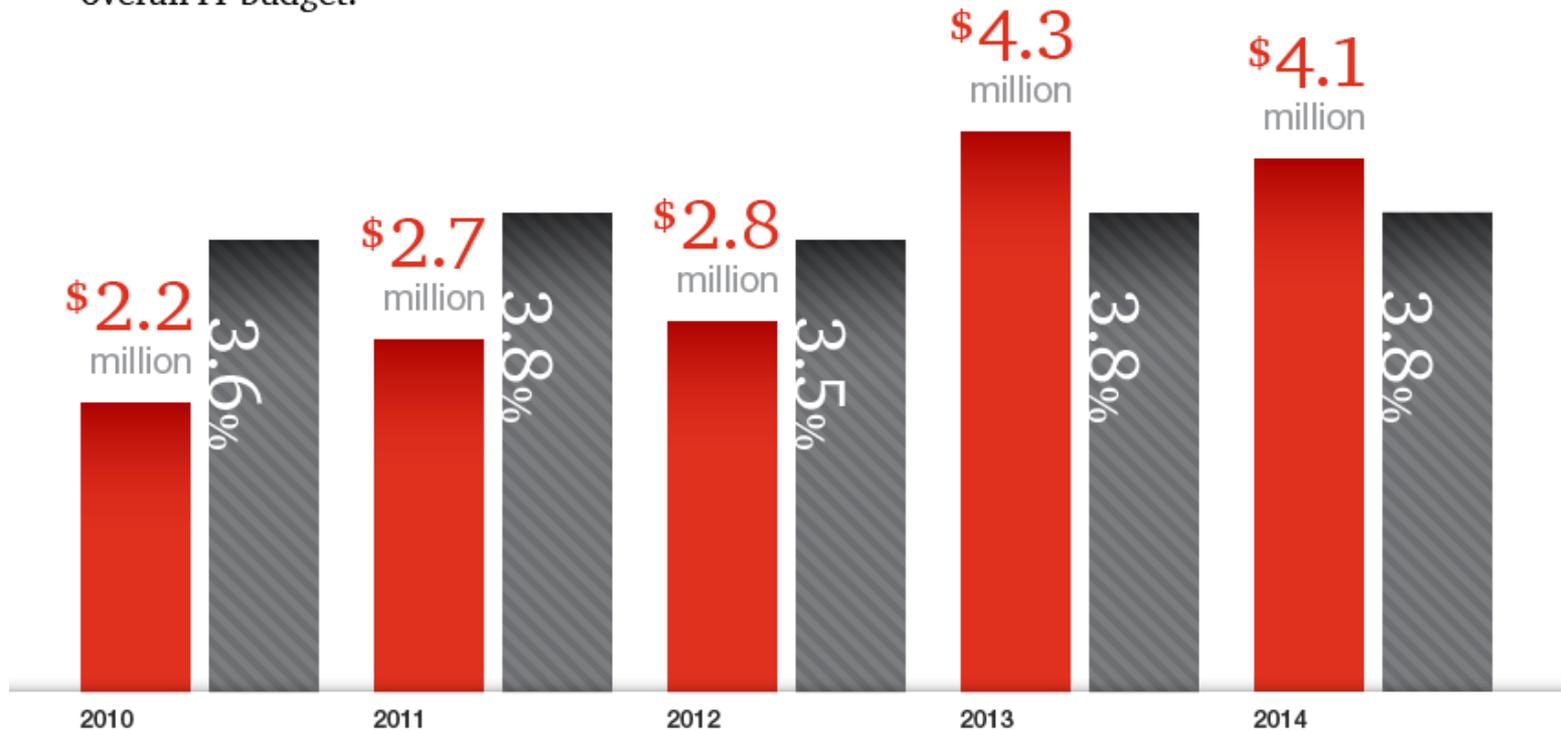


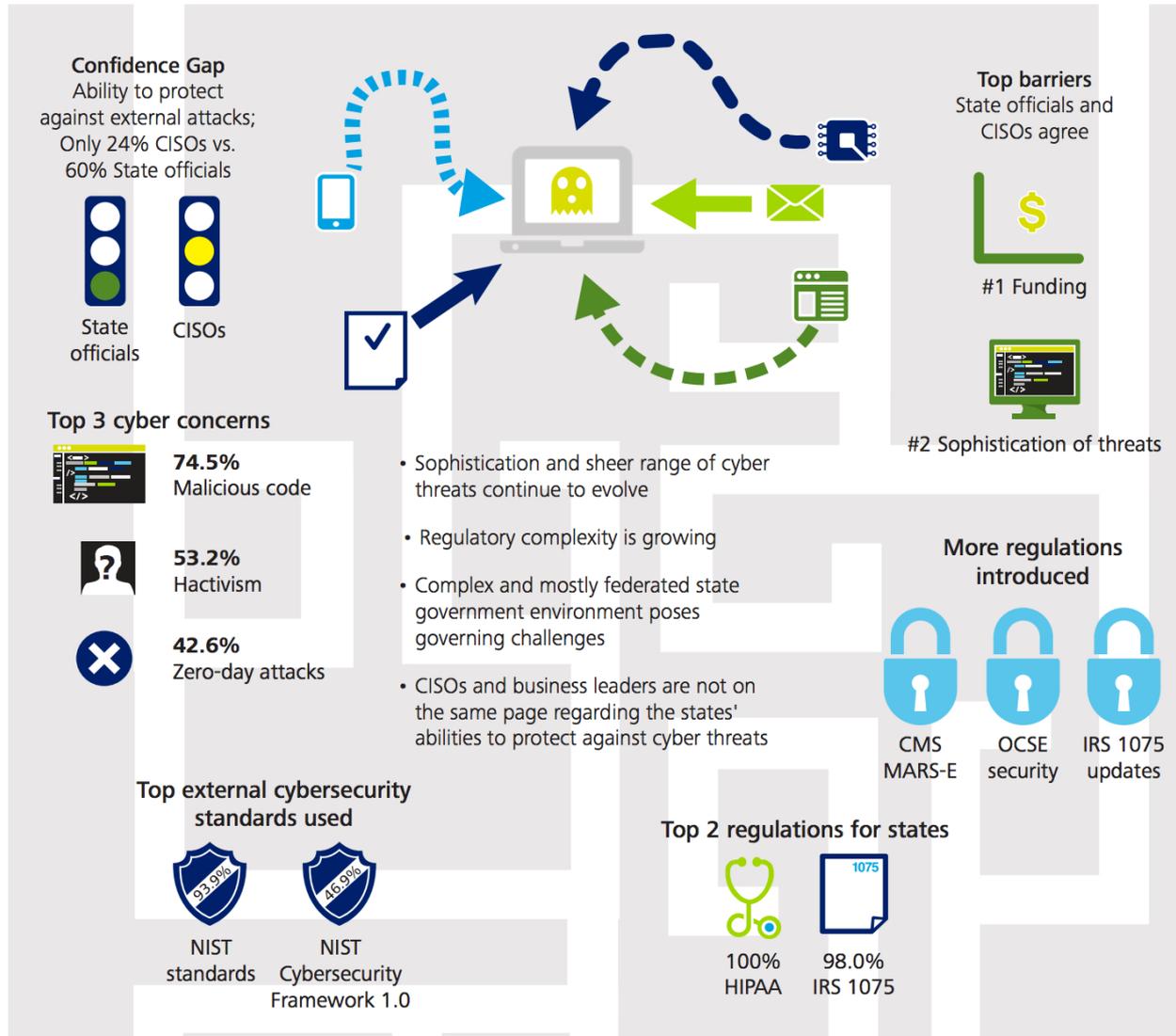


### Reversing a three-year trend

The average information security budget dipped to **\$4.1 million**, down 4% over last year. Security spending remains stalled at only 3.8% of the overall IT budget.

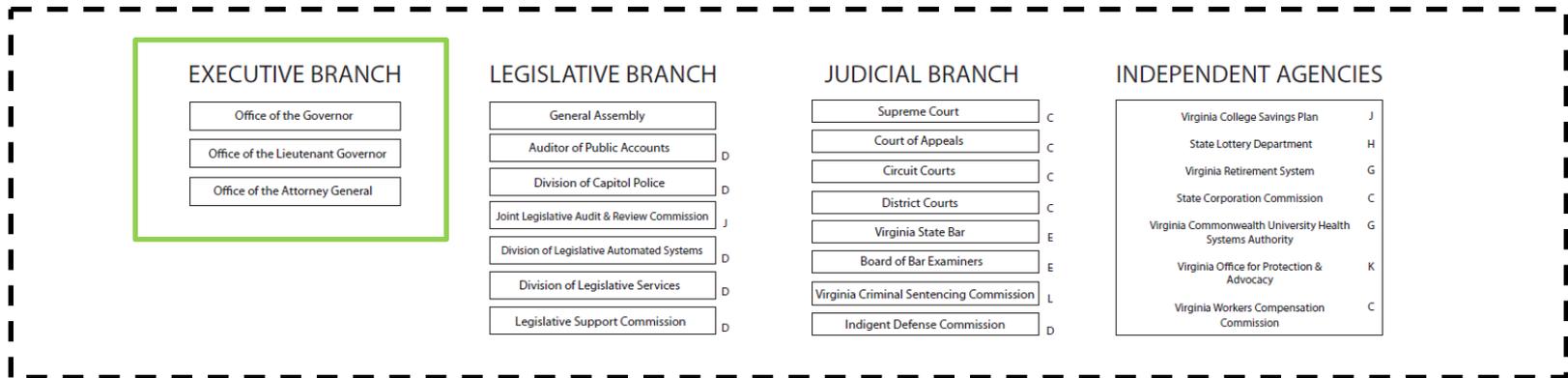
- % of IT budget spent on information security
- Information security budget for 2014







# Information Security in the Commonwealth



VITA is tasked with security governance of all three branches of Commonwealth Government.

VITA controls the infrastructure of the executive branch agencies. Agencies remain responsible for application management.

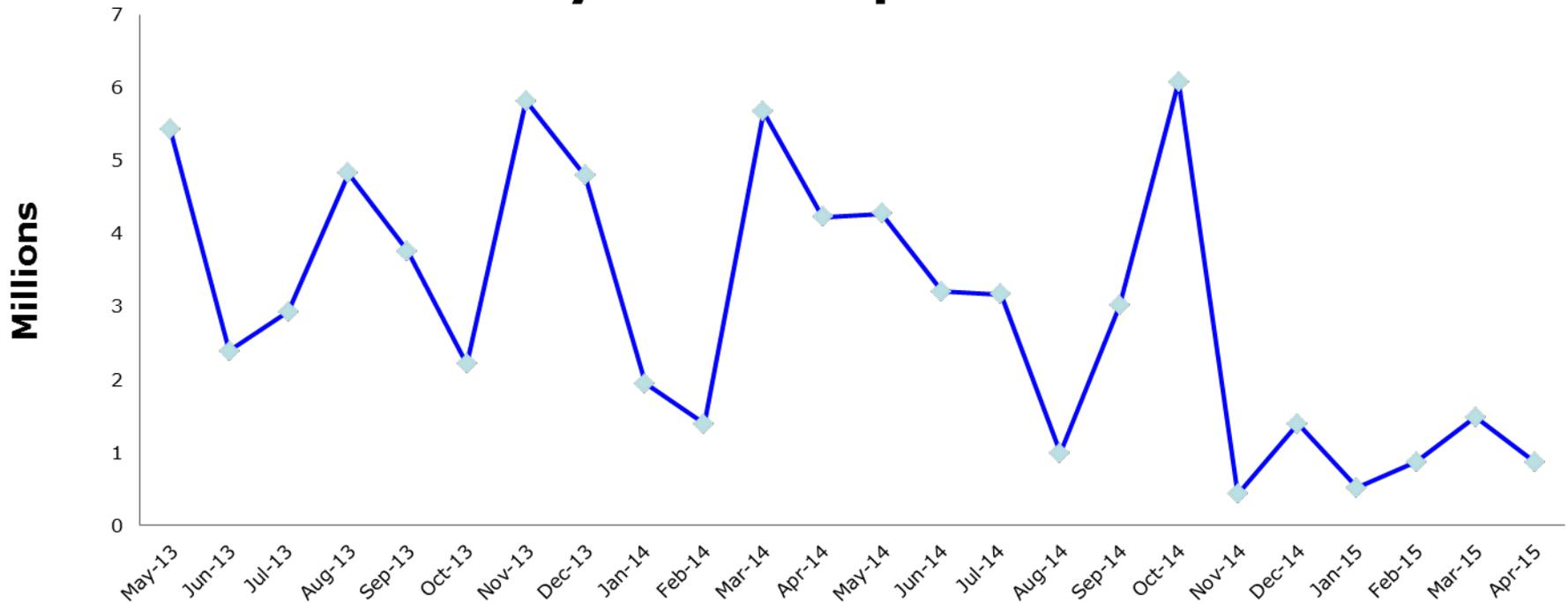


# COV Information Security Program

- IT Security Audit Program
  - Sensitive systems audited every 3 years
- Risk Management Program
  - Business impact analysis
  - Risk assessment
  - Vulnerability and intrusion detection data
  - Assessment and audit analysis

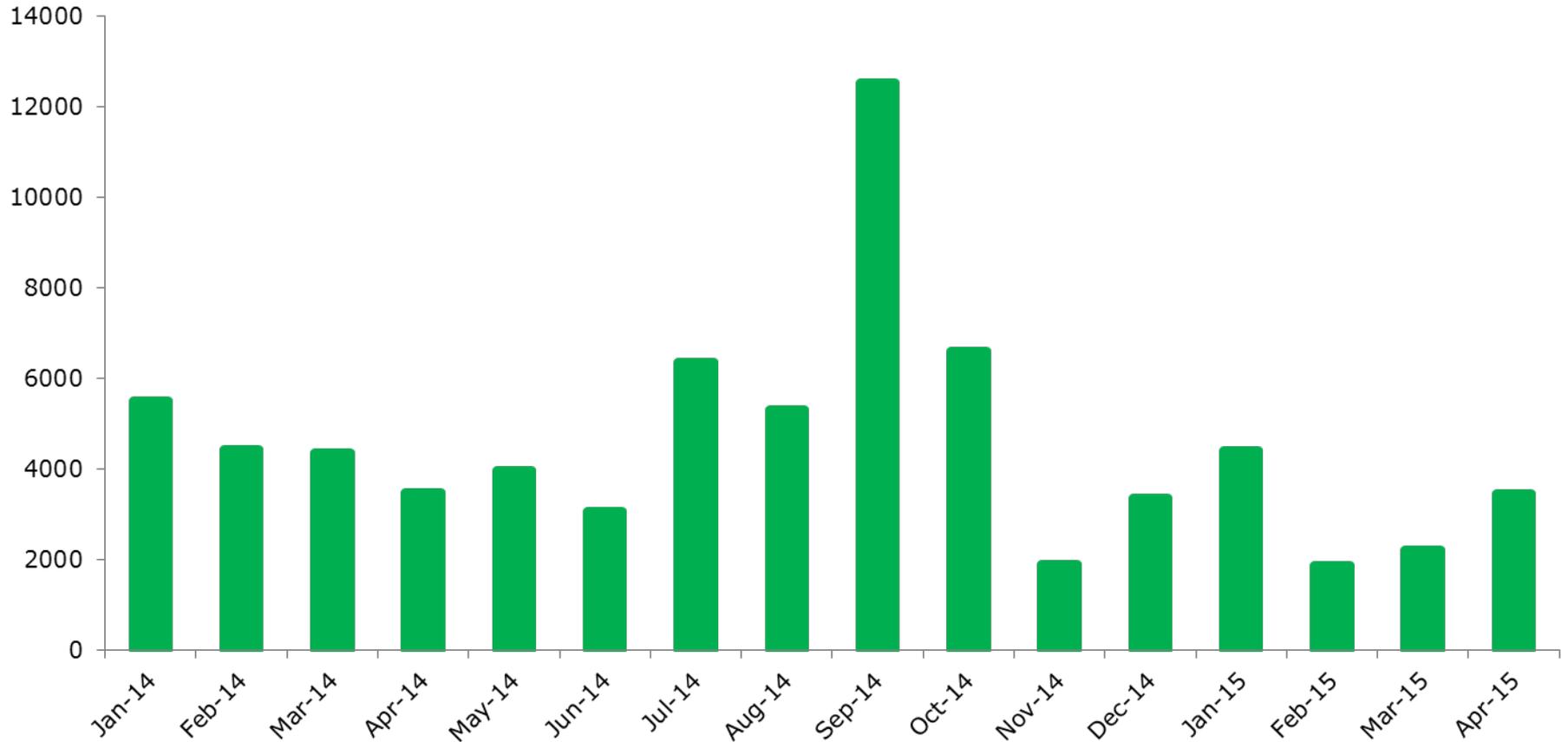
# 71,637,858 Attack Attempts on COV Systems

## May 2013 – Apr 2015



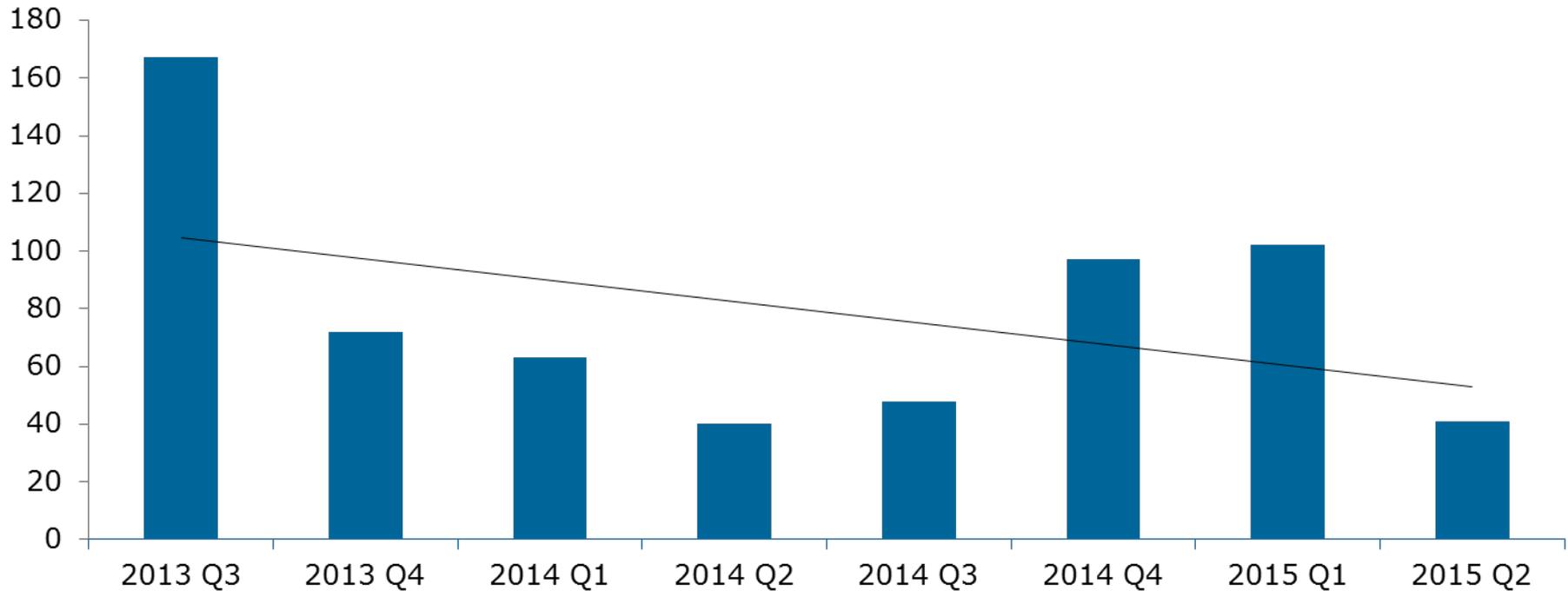


# 73,129 Malware Blocked Jan 2014 – April 2015



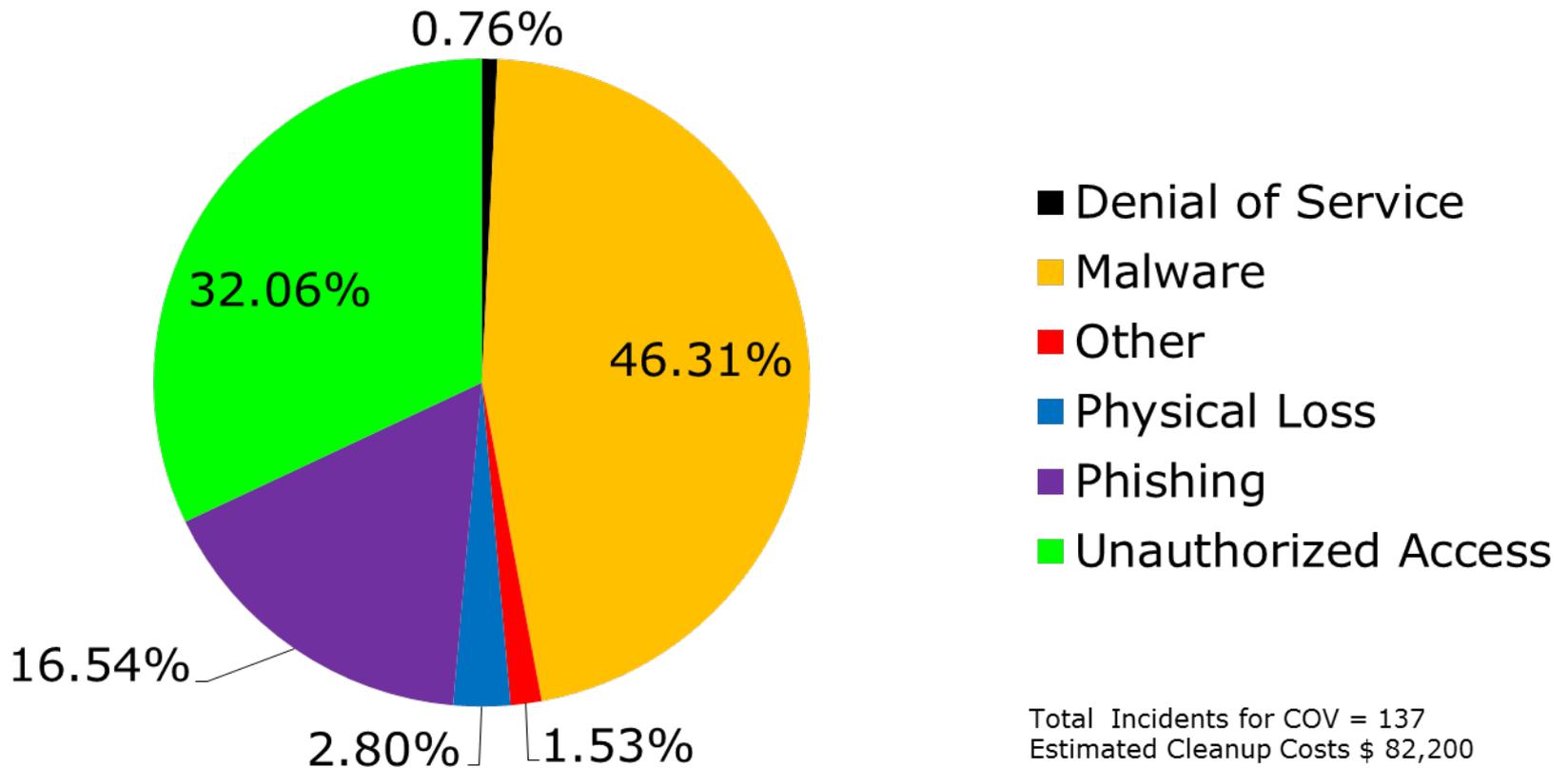
# Cyber Security Incident Trends

Incident Trends by Quarter  
July 2014 – May 2015



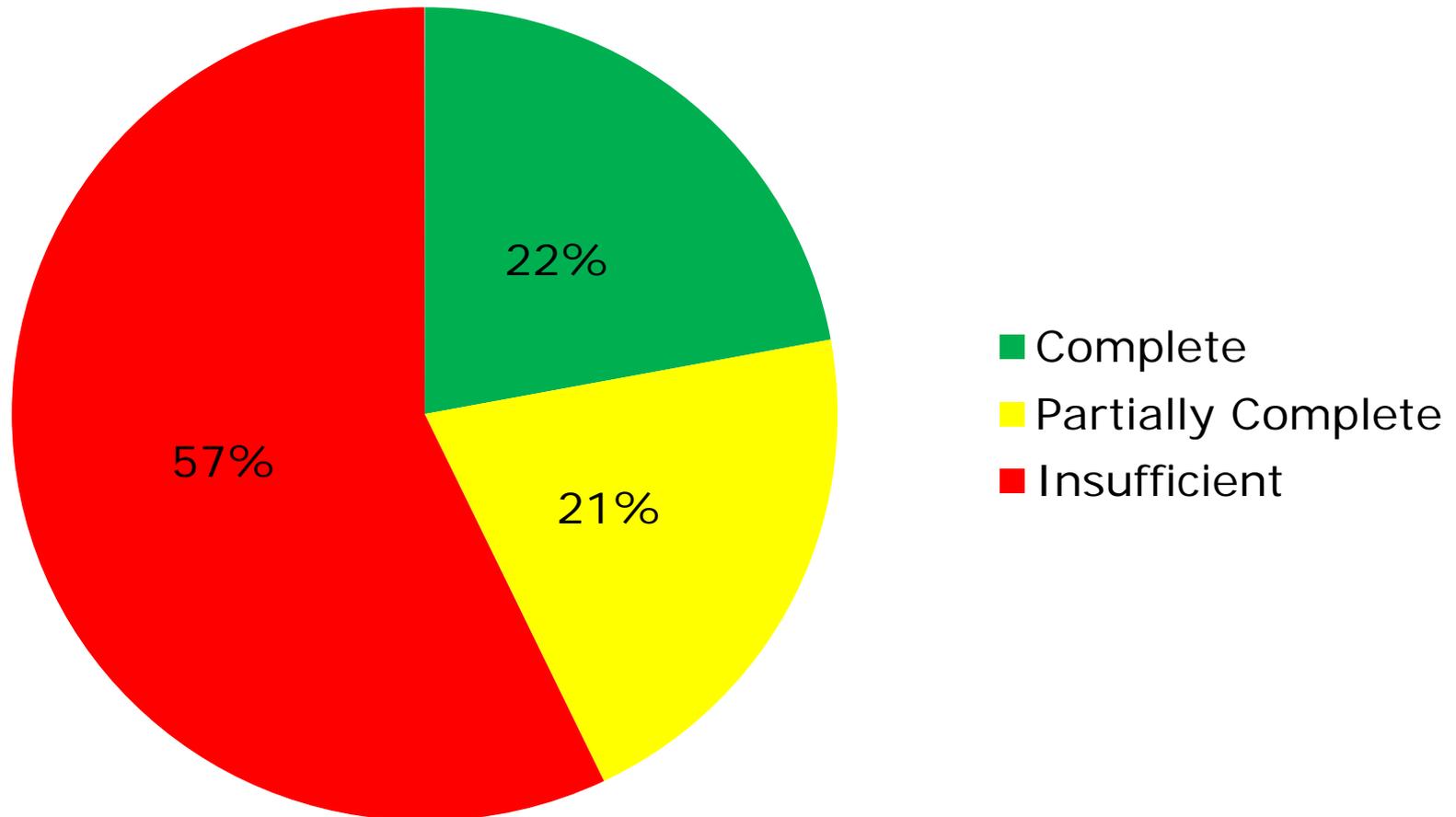
## Security Incidents by Type Jan 2014 – May 2015

### Percentage of COV Incidents





# 2014 Information Security Audit Program





# Questions?

