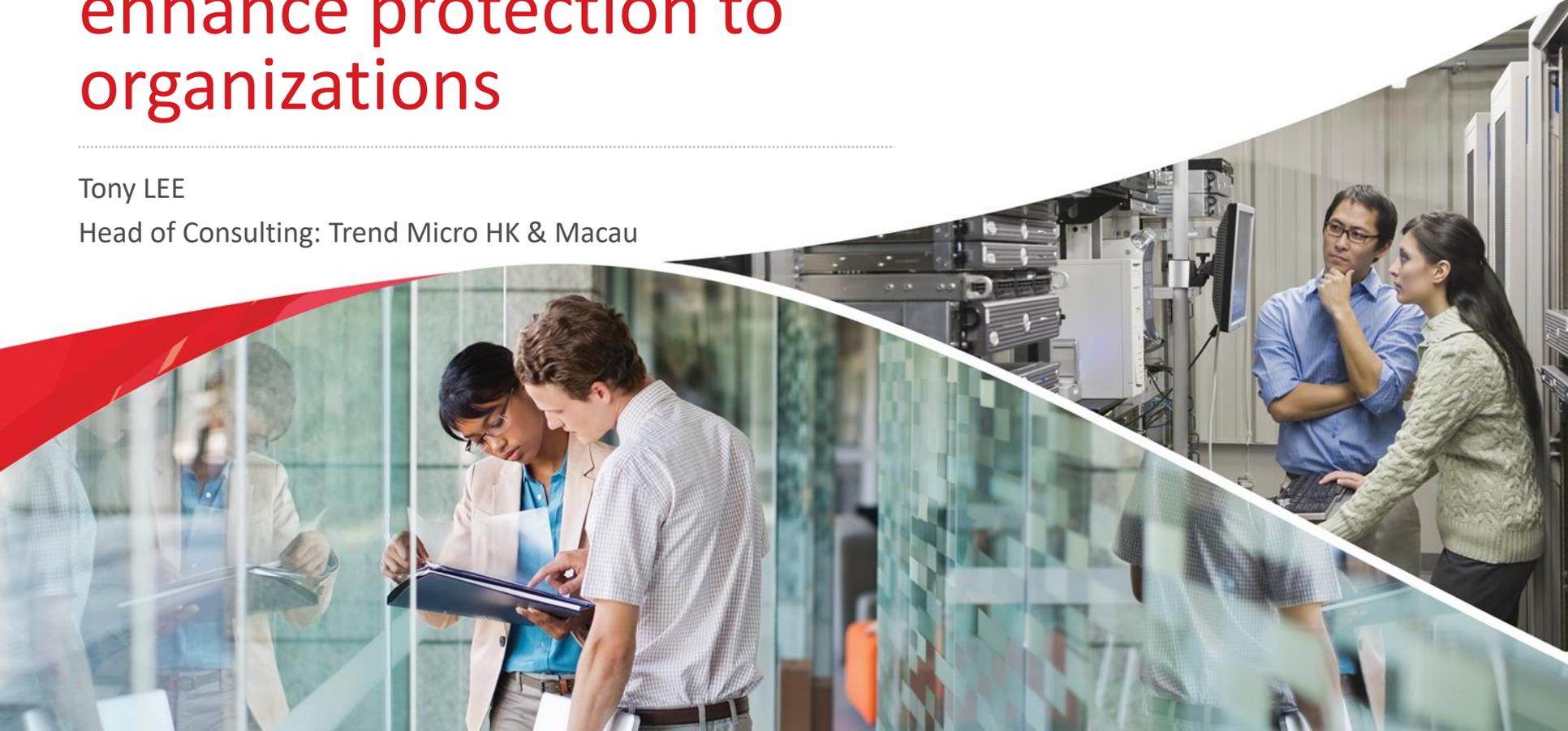


How information sharing enhance protection to organizations



Tony LEE

Head of Consulting: Trend Micro HK & Macau





Industry



Consumers



Business



Government



Healthcare



Law Enforcement



Responsible disclosure



Alerts, blogs, news, reports, guidance



24X7 response, security updates, IPS rules...



Free tools



Public/Private Partnerships



ZERO DAY INITIATIVE



TELUS Security Labs

Trend Micro Research



Cyber Threats



Vulnerabilities & Exploits



Targeted Attacks



AI & Machine Learning



IoT



OT / IIoT



Cybercriminal Undergrounds



Future Threat Landscape

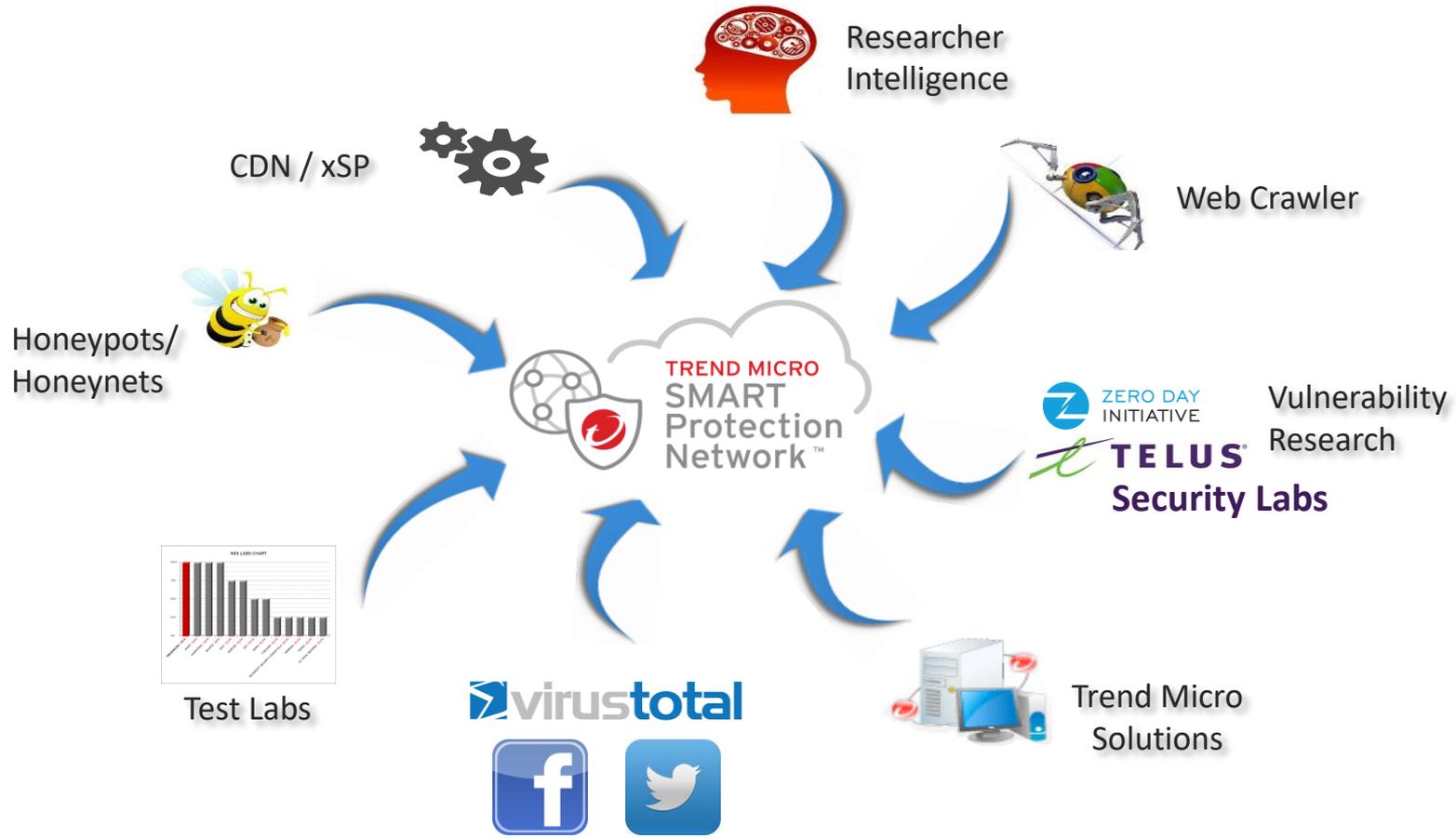


Insights to improve Trend Micro's core technology and products

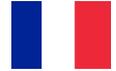
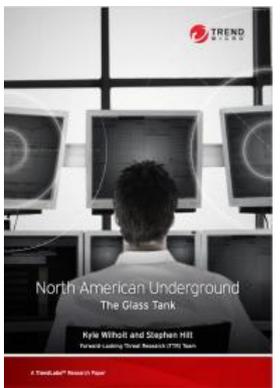
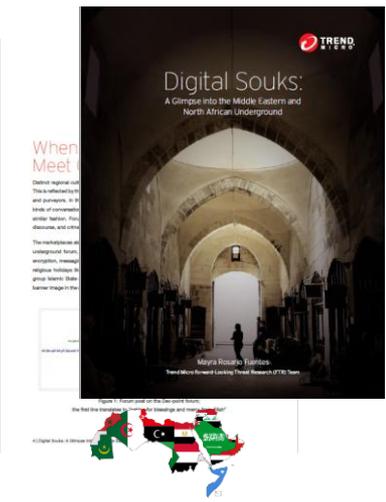
Global Reach: Threat Research Centers



Collected Data Comes From Many Sources



Global Underground Research

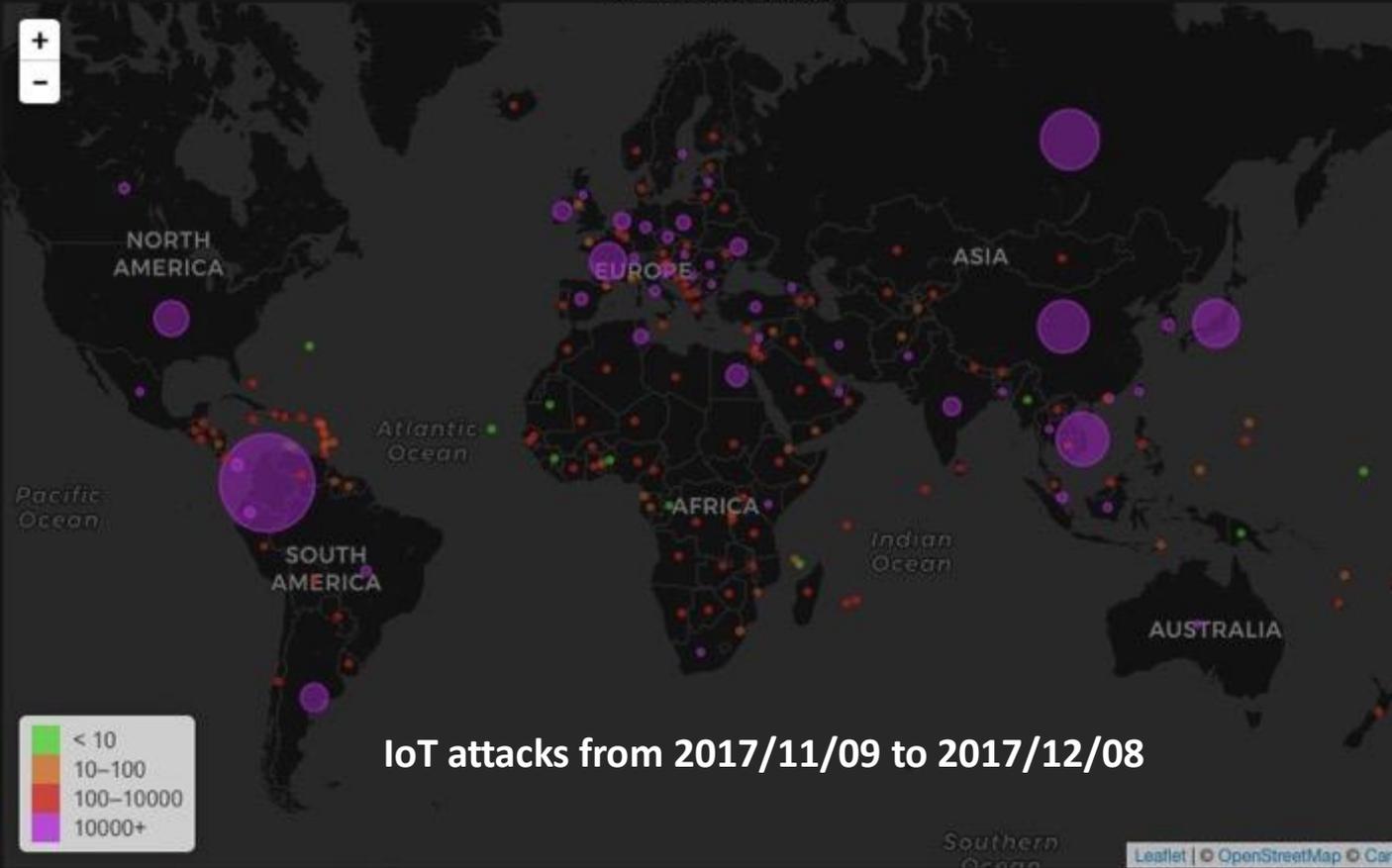


Tor

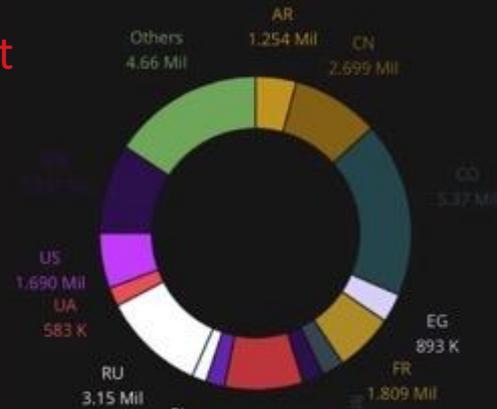


IoTRS Dashboard - Monitor the trend of global IoT threat

Location of Attackers



Top Countries

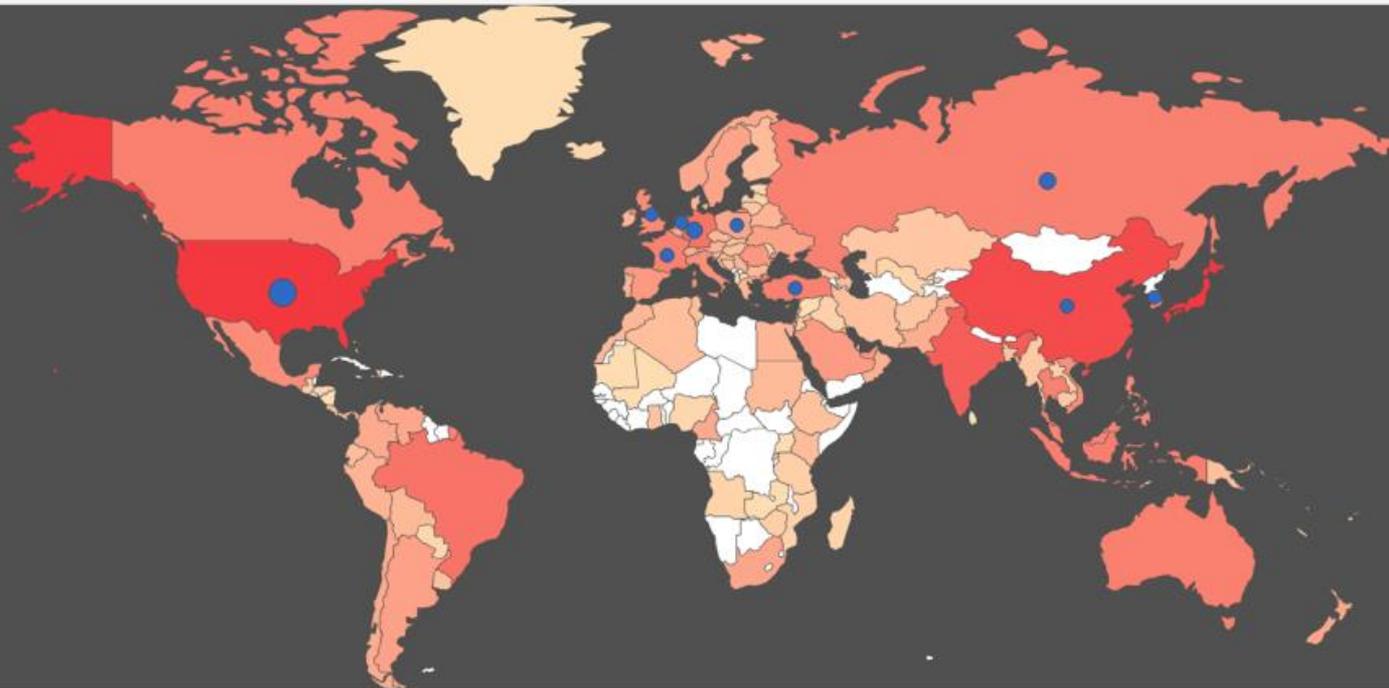


Top Attackers

IP	Country	Amount
185.188.207.12	RU	833.37 K
95.213.170.195	RU	321.78 K
185.13.37.96	FR	295.08 K
109.248.9.108	RU	271.98 K
193.201.224.206	UA	258.26 K
5.188.10.144	HR	258.25 K
195.22.127.83	PL	243.87 K
109.236.91.85	NL	239.95 K
195.154.151.12	FR	151.93 K
14.160.13.174	VN	151.80 K

Command & Control Research

Map of Total Region Census - Active Endpoints of CnC within the last 7 days:

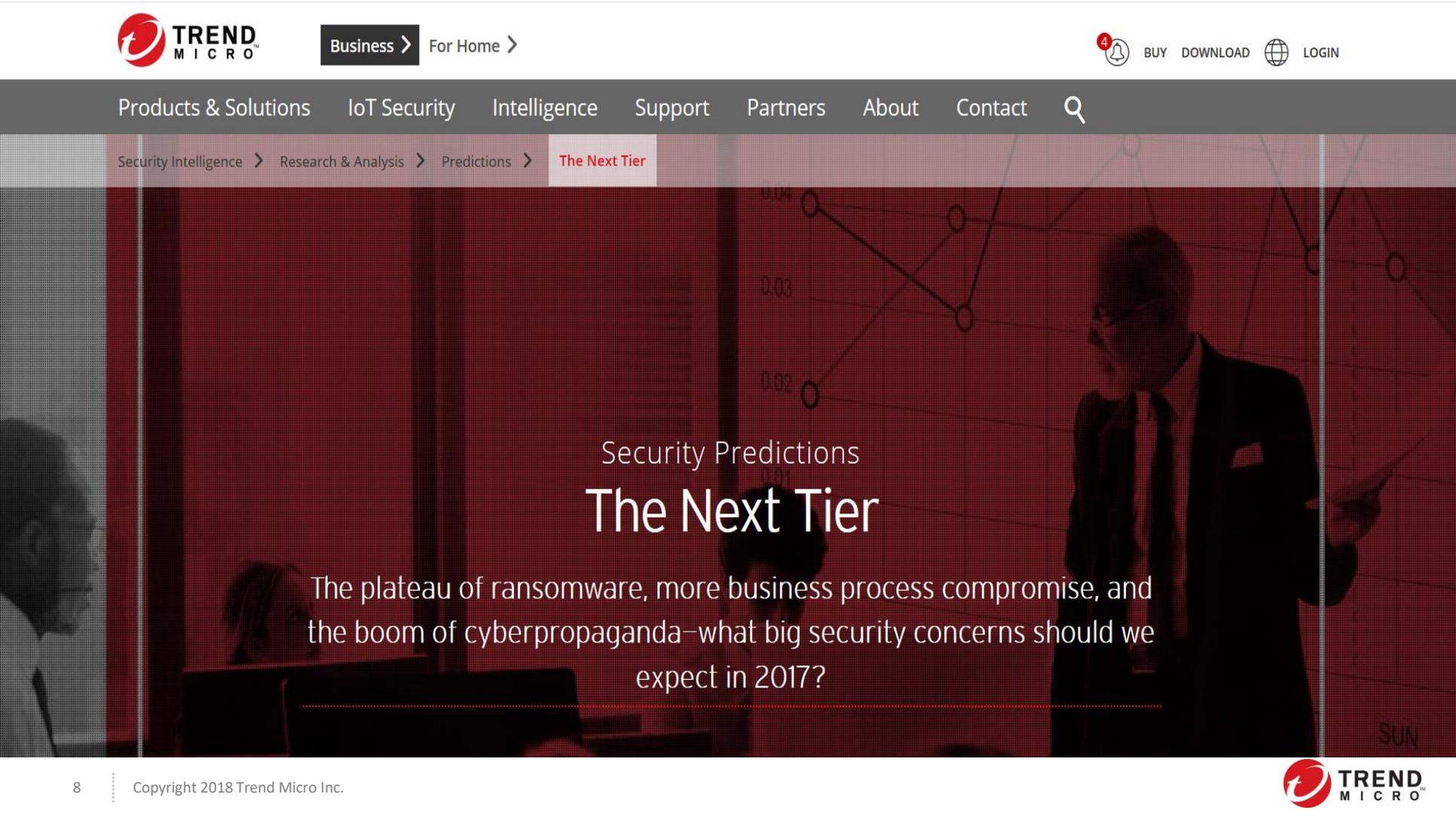


Week 2018-05-27 ~ 2018-06-02

The red shade represents the severity of C&C victim. The darker color means the more C&C victims in that country.

The blue circle represents the number of C&C sites. The bigger circle means the more C&C sites in that country.

- Dedicated researchers
- Internal/external C&C sourcing channels
- Pre-filtering automation before involving human analysis
- Query some internal/external services



Security Predictions The Next Tier

The plateau of ransomware, more business process compromise, and the boom of cyberpropaganda—what big security concerns should we expect in 2017?



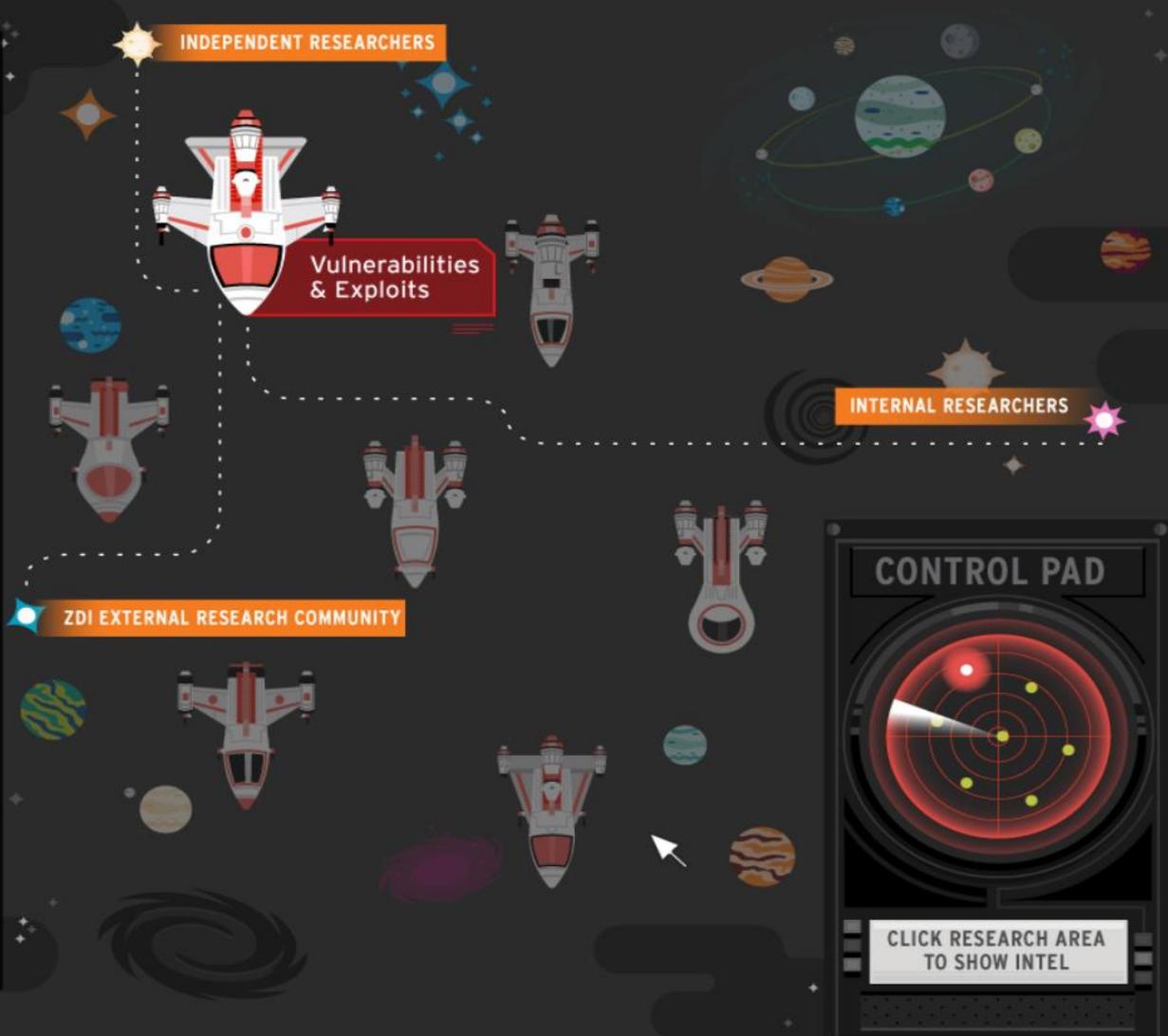
Vulnerabilities & Exploits

The Trend Micro Zero Day Initiative (ZDI) manages a bug bounty program where thousands of global security researchers inside and outside of Trend Micro discover and submit new vulnerabilities.

ZDI then manages the disclosure process with the affected vendor to ensure a patch can be created and deployed by the vendor in a responsible manner. ZDI covers many areas, including operating systems and applications across consumer and commercial software and mobile platforms. Part of the research is also understanding exploit code used by threat actors. As a security vendor, having this pre- and post-patch research allows us to quickly protect against these vulnerabilities.

For example, through information from the ZDI program, Trend Micro's TippingPoint product provides a virtual patch for a vulnerability on average 72 days before the vendor releases their formal patch. This minimizes the window of exposure the organization has against an exploit of the vulnerability. In 2017, ZDI disclosed 66.3% of the known vulnerabilities disclosed by the top reporting agencies in the world.*

[*Read the complete analysis here.](#)



Global Threat Intelligence

GLOBAL THREAT INTELLIGENCE

Accurately analyzes and identifies threats faster

- TBs analyzed
- 6B+ new, unique threats identified yearly
- Advanced Analytics to detect real-time, 0-hour threats

GLOBAL SENSOR NETWORK

Collects more threat information in more places

- 250M+ of sensors
- 3T+ Threat queries yearly
- Files, IPs, URLs, mobile apps, vulnerabilities, and more

PROACTIVE PROTECTION

Blocks new threats sooner

- 65B+ threats blocked yearly
- 500,000+ business
- Millions of individuals and families

TREND MICRO
SMART
Protection
Network™

2017 Trend Micro Zero-Day Coverage

512

TOTAL
number of **zero-day filters**
delivered in 2017 to
Trend Micro customers

.....
37.4% of all 2017
filters delivered
were zero-day!

50

LARGEST
number of zero-
day filters
delivered in a
**single Digital
Vaccine package**

42
DAYS

AVERAGE
of zero-day
predisclosed filter
coverage for 2017
Microsoft
Bulletins

.....
~ 6 weeks of
zero-day
coverage on
average!

63
DAYS

AVERAGE
of zero-day
predisclosed
filter coverage
for 2017 **Adobe**
Bulletins

.....
Over 2 months
of zero-day
coverage on
average!

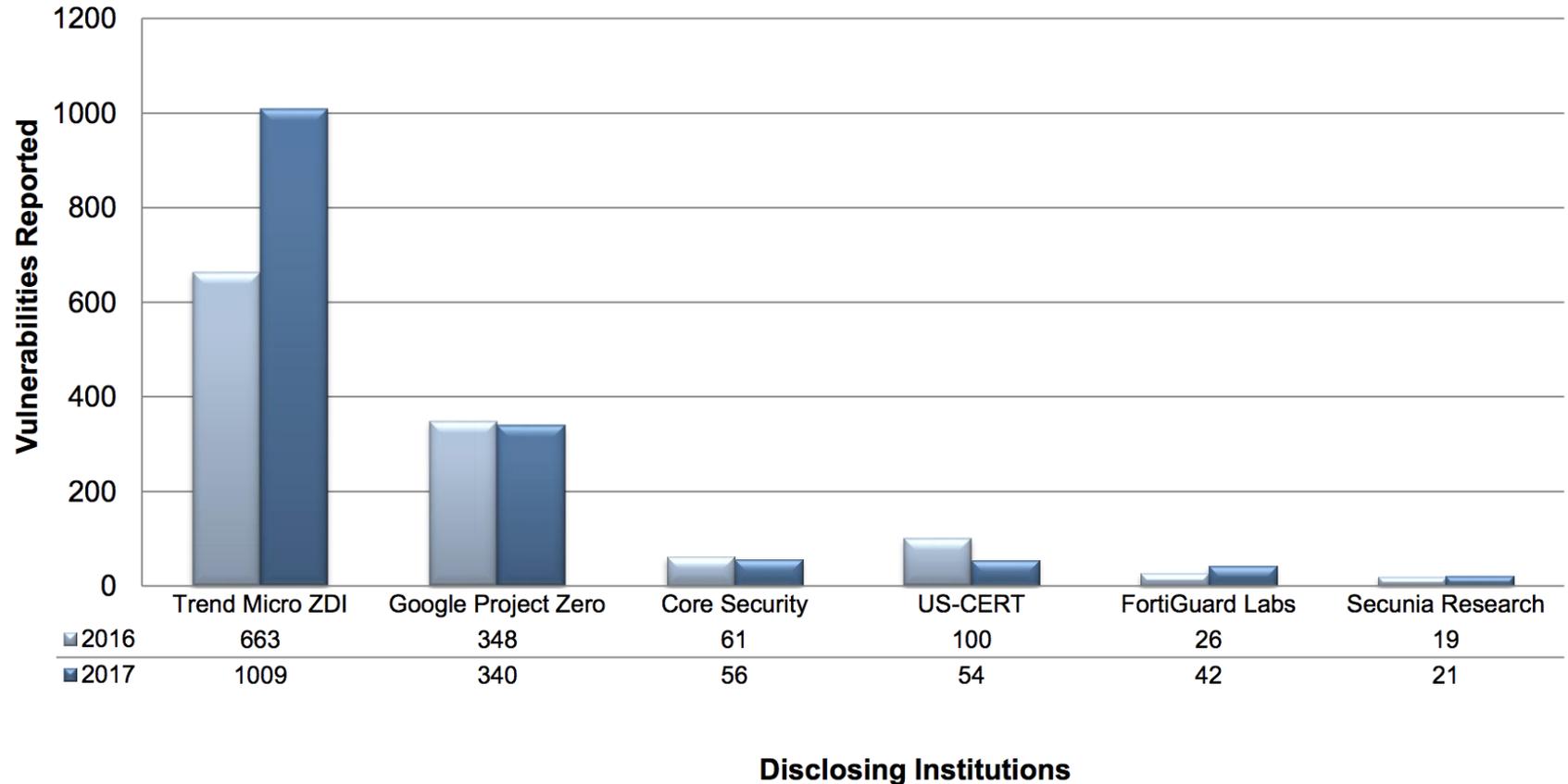
72
DAYS

AVERAGE
of zero-day
predisclosed
filter coverage
for 2017
OVERALL

.....
~ 2½ months
of zero-day
coverage on
average!

Disclosed **1009** vulnerabilities!

Public Vulnerability Research Market: Total Vulnerabilities by Disclosing Institutions, Global, 2016 and 2017



Note: All figures are rounded. The base year is 2017. Source: Frost & Sullivan analysis.

Smart Protection Network in 2017



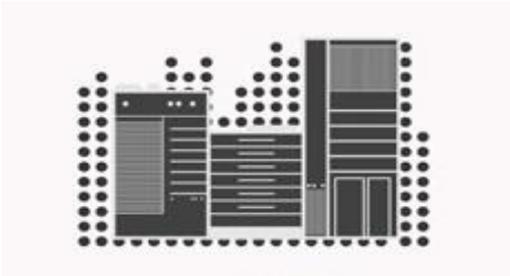
... received **3T+**
reputation queries from
customers



... blocked **65B+**
total threats



... identified **6B+** new,
unique threats



... Blocked **600M+**
ransomware threats



2017 Stats

Threat Queries to Trend Micro



 **28 Billion**
Malicious App

 **106 Billion**
Email

 **631 Billion** File



2017 Stats

Threats Blocked by Trend Micro

 **58 Million**
Malicious Apps

 **58 Billion** Email Threats

 **1 Billion**
Malicious URLs

 **7 Billion** Malicious Files

Welcome to Threat Connect Internal Test Bed

This test bed is to be used only for testing activities by authorized Trend Micro personnel. Do not share access to this test bed with external parties.

Use the given examples or specify your own query parameters.

Examples

Detection Name:	<input type="text" value="Trend Micro detection name"/>	PE_RAMNIT.DEN
File SHA-1:	<input type="text" value="SHA1 hash value"/>	aa244ec0ab9c8073d194e954c429e1aadae48895
File MD5:	<input type="text" value="MD5 hash value"/>	1f68490f559ba30210a8b2422557489f
IP Address:	<input type="text" value="IP address"/>	59.120.54.79
FQDN:	<input type="text" value="Domain name"/>	keyscratch.com
URL:	<input type="text" value="URL"/>	http://synapsetest.ru/analizer/dtmf000/config.php
CVE:	<input type="text" value="CVE"/>	CVE-2015-5122
Email Address:	<input type="text" value="Email address"/>	0015gh@opqueqcnc.com
Mutex Name:	<input type="text" value="Mutex name"/>	uxJLpe1m
Attacker Group:	<input type="text" value="Name of attacker group monitored by Trend Micro"/>	F-Cross, LAH
DDI Rule ID:	<input type="text" value="Detection rule ID of Deep Discovery Inspector"/>	255

Send Query

Reset

Thanks

TMHK@TRENDMICRO.COM.HK