

The background of the slide features a row of flags on poles, including the flag of Vietnam, the United Kingdom, the United States, and others. The Harvey Nash logo is positioned in the top left corner.

**HARVEY
NASH**

The Power of Talent

CYBER SECURITY IN VIETNAM

MULTI-CHAMBER MEETING - 22 OCTOBER 2015

WHY CYBER SECURITY



HYPER-CONNECTED WORLD

- ❑ CREATED FOR INFORMATION SHARING
- ❑ ALWAYS CONNECTED: ANYTIME, ANYPLACE
- ❑ LARGELY ANONYMOUS
- ❑ MORE ENDPOINT DEVICES : MOBILE / INTERNET OF THING
- ❑ **YOU MAY NOT KNOW YOU HAVE BEEN TARGETED**

CYBER SECURITY

WHY IT'S MATTER



DEADLY COST

\$400Bn/YEAR GLOBALLY ¹



EVERYBODY TARGETED

NOT JUST CORPORATE, BUT INDIVIDUAL AND GOVERNMENT TOO.



SHARED RESPONSIBILITY

WE ALL HAVE RESPONSIBILITY

WHO ARE THE THREAT ACTORS *



HACKTIVISM

HACKING INSPIRED BY IDEOLOGY



MOTIVATION: SHIFTING ALLEGIANCES – DYNAMIC, UNPREDICTABLE
IMPACT TO BUSINESS: PUBLIC DISTRIBUTION, REPUTATION LOSS

ORGANISED CRIME

GLOBAL, DIFFICULT TO TRACE AND PROSECUTE



MOTIVATION: FINANCIAL ADVANTAGE
IMPACT TO BUSINESS: THEFT OF INFORMATION

THE INSIDER

INTENTIONAL OR UNINTENTIONAL?



MOTIVATION: GRUDGE, FINANCIAL GAIN
IMPACT TO BUSINESS: DISTRIBUTION OR DESTRUCTION, THEFT OF INFORMATION, REPUTATION LOSS

STATE-SPONSORED

ESPIONAGE AND SABOTAGE



MOTIVATION: POLITICAL ADVANTAGE, ECONOMIC ADVANTAGE, MILITARY ADVANTAGE
IMPACT TO BUSINESS: DISRUPTION OR DESTRUCTION, THEFT OF INFORMATION, REPUTATIONAL LOSS

WHAT ARE THE TARGETS?



VALUABLE INFORMATION

INTELLECTUAL PROPERTY
CUSTOMER AND PERSONAL DATA
BUSINESS PROCESSES



BUSINESS CRITICAL INFORMATION

PLANS, STRATEGIES AND TRANSACTIONS
FINANCIAL INFORMATION
PRODUCT'S DESIGNS



REPUTATION

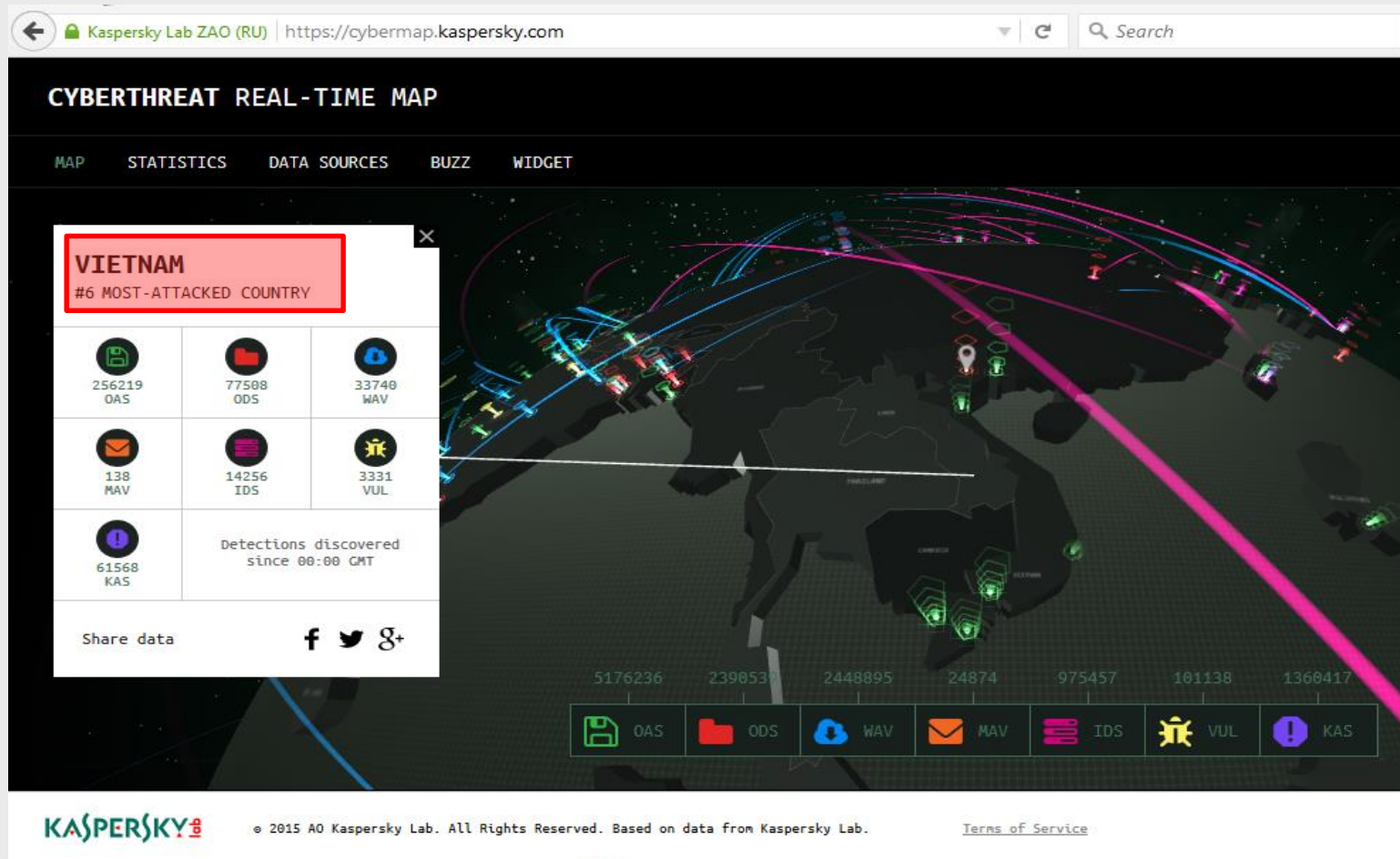
GOVERNMENT, BUSINESS, PERSONAL



GOVERNMENT CONFIDENTIAL

POLITICAL, ECONOMIC AND MILITARY

CYBER SECURITY IN VIETNAM



CYBER SECURITY IN VIETNAM 2014-2015

6,000

VIETNAMESE WEBSITES
HACKED IN 2014
Incl. 246 .GOV.VN ²



1,039

VIETNAMESE WEBSITES
HACKED BY CHINESE HACKERS
DURING AUG-2014
DISRUPTION



<5%

45% OF 475 BUSINESS INVEST
LESS THAN 5% OF THEIR
BUDGET INTO IT ISSUES ³



3

MOST COMMON ATTACK TYPES



DENIED OF SERVICES



MALWARES



HACKING / PENETRATION

CYBER SECURITY IN VIETNAM



LAWS & REGULATIONS

- LAW 51/2005/QH11 ON ELECTRONIC TRANSECTIONS
- LAW 67/2006/QH11 ON INFORMATION TECHNOLOGY
- LAW 21/2008/QH12 ON HIGH TECHNOLOGY
- LAW 41/2009/QH12 ON TELECOMMUNICATIONS
- LAW ON INTERNET SECURITY (Draft – Jun 2015)
- DECREE 72/2013/ND-CP ON MANAGEMENT, PROVISION AND USE OF INTERNET SERVICES AND ONLINE INFORMATION
- DECREE 25/2014/ND-CP ON PREVENTION AND COMBAT OF CRIMES AND OTHER LAW VIOLATIONS INVOLVING HIGH TECHNOLOGY



GOVERNMENT AGENCIES

- AUTHORITY of INFORMATION SECURITY (AIS)
- NATIONAL ELECTRONIC AUTHENTICATION CENTER (NEAC)
- INFORMATION SECURITY AGENCY (A68)
- VIETNAM GOVERNMENT CERTIFICATION AUTHORITY (VGCA)
- VIETNAM COMPUTER EMERGENCY RESPONSE TEAM (VNCERT)
- CIVIL CRYPTOGRAPHY ADMINISTRATION AGENCY
- ICT AND CYBER SECURITY MONITORING CENTER - GOVERNMENT CIPHER COMMITTEE

EDUCATION & TRAINING

99/QĐ-TTg : PROPOSAL ON TRAINING AND DEVELOPMENT OF INFORMATION SECURITY RESOURCES TO 2020

8 UNIVERSITIES & INSTITUTES

2,000 BSc/MSc in 2020



CYBER SECURITY IN VIETNAM

WEAKNESSES



MANAGEMENT INVOLVEMENT



SECURITY FRAMEWORK



SECURITY PERSONNEL



SECURITY MINDSET



CONTINUOUSLY IMPROVEMENT

CYBER SECURITY

IMPROVEMENT ASPECTS



THANK YOU !

REFERENCES

* Taken from 2014 VNISA-KMPG security seminar materials

(1) Net Losses: Estimating the Global Cost of Cybercrime Economic impact of cybercrime

(http://csis.org/files/attachments/140609_McAfee_PDF.pdf)

(2) Ministry of Public Security / Vietnamnet News

(<http://m.english.vietnamnet.vn/fms/science-it/126897/growing-cyber-threats.html>)

(3) VNISA survey, 2014 / Thanhniennews

(<http://www.talkvietnam.com/2014/12/vietnam-vulnerable-to-cyber-attacks-but-agencies-poorly-equipped/>)