BUILDING TRUST IN CYBERSPACE

3rd WORLDWIDE CYBERSECURITY SUMMIT IN NEW DELHI

EastWest Institute
Forging Collective Action for a Safer and Better World

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The EastWest Institute is an international, non-partisan, not-for-profit policy organization focused on confronting critical challenges that endanger peace. EWI was established in 1980 as a catalyst to build trust, develop leadership, and promote collaboration for positive change. The institute has offices in New York, Brussels, Moscow and Washington, D.C.

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The EastWest Institute is tackling the need to protect Internet users and secure critical infrastructure. From Dallas and London to New Delhi and Silicon Valley, EWI is addressing the challenges triggered by the explosion of new technologies.
Cyberspace
In the span of three years, the magnitude of the cybersecurity problem has grown exponentially. Each day brings headlines of new breaches, resulting in staggering losses. Some are purely criminal in nature, while others involve far more complex schemes of cyber espionage and cyber sabotage. We live in an age when hundreds of viruses—/g110/g96/g105/g95/g3/g101/g88/g100/g92/g106/g3/g99/g96/g98/g92/g3/g54/g105/g108/g111/g101/g92/g105/g35/g3/g61/g99/g88/g100/g92/g3—are threatening to undermine international trust at every level.

Member of EWI’s board of directors, summed up the cybersecurity problem this way: “What we have now learned over the last 10 or 20 years, is that you cannot assume trust. That is why we’re dealing with a persistent problem of criminality, theft of intellectual property and even efforts to sabotage or damage our infrastructure using the Internet.”

- Michael Chertoff

What we have now learned over the last 10 or 20 years, is that you cannot assume trust. That is why we’re dealing with a persistent problem of criminality, theft of intellectual property and even efforts to sabotage or damage our infrastructure using the Internet.

All of which underscores the point that securing cyberspace is a global challenge—one that cannot be solved by a single company or country on its own. That is why the EastWest Institute launched the Worldwide Cybersecurity Initiative, bringing together government and corporate partners to protect the world’s digital infrastructure. Experts from across the globe agree that progress in cybersecurity will only be achieved through trust-building among nations and between the private and public sectors. With a 30-year history of trust-building that dates back to the Cold War era, EWI is uniquely positioned to propel that effort.

To do so, EWI began hosting annual Worldwide Cybersecurity Summits, kick-starting an ongoing process to propose solutions to specific problems. The first summit, “Protecting the Digital Economy,” took place in 2010 in Dallas where a broad spectrum of experts from the United States, Russia, China, India and other nations discussed the limitations of current cyber legislation and identified top priorities for the EWI cybersecurity agenda. The top six issues: protecting undersea cable infrastructure; priority international-
Mobilizing for International Action

Follow this timeline for a quick overview of the steps taken by EWI to strengthen cybersecurity, bringing together private and public partners from key countries around the world.
communications; conflict policy and rules of engagement; cybersecurity breach information sharing; ICT development/supply chain integrity; and emergency response coordination capability.

The Dallas summit launched a series of breakthrough groups—small international groups of experts committed to addressing specific cybersecurity threats. It also resulted in new Track 2 bilateral processes with experts from the United States and Russia to develop “rules of the road” for cyber conflicts, and experts from the United States and China to produce joint recommendations for fighting spam and botnets. Such processes continue throughout the year—culminating at the summits where the next practical steps are mapped out.

The London summit in 2011, “Mobilizing for International Action,” built on the work of the Dallas summit, with meetings of existing breakthrough groups and informal opportunities for cross-sector collaboration. Specific recommendations were advanced for international connectivity and emergency preparedness of the financial services sector.

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“The Next Billion Netizens Connect” was the theme of EWI’s third summit in 2012 in New Delhi, which continued this process. This location underscores India’s rapid emergence as a key player on cybersecurity issues.

Three breakthrough groups were chosen for the New Delhi summit in consultation with the Indian government and private sector leaders: ICT development/supply chain integrity; the role of international companies in cloud computing and storage; and payload security. At the New Delhi summit, leading Indian and Chinese cyber experts declared their commitment to increased cooperation between their two countries, particularly between their Computer Emergency Readiness Teams (CERTs). This offered a concrete example of the kind of trust-building EWI is working to promote.

EWI has already begun planning for its fourth summit, to be held in Silicon Valley in November 2013. It will be called the 4th Worldwide Cybersecurity Trustbuilding Summit—and will bring together innovators with global leaders to address cross-border challenges. From Dallas to London to New Delhi and Silicon Valley, the search for practical solutions continues.
Delivering Solutions

The chart and select examples below show the progress on EWI's cybersecurity recommendations to date. The institute considers a recommendation as having entered the implementation stage when the first “required commitments” are made and “next steps” taken. It moves to the “institutionalization” stage when private companies, governments or NGOs have integrated the recommendation into their work to achieve sustainability.

2010-12:

Recommendations produced: 27

52% Implemented

26% Institutionalized

Fighting Spam and Botnets In 2010, EWI assembled a group of Chinese and American experts to devise recommendations for eliminating spam, still a major source of computer viruses. M3AAWG, a key partner on this project, is in the process of bringing the two recommendations and 46 best practices to India’s government and Internet service providers to spur transnational cooperation on the issue.

Reliability of Global Undersea Communications Cable Infrastructure (ROGUCCI) Undersea communications cables are responsible for carrying over 99 percent of all international Internet traffic. Due in part to EWI’s work in the field, India’s government has committed to achieving best-in-class performance forauthorizing the repair of these cables. Under new policies, repair time will be reduced from 12 weeks to a few days.

Measuring the Cybersecurity Problem

In 2013, EWI will advocate for the establishment of an independent, trusted entity to receive reports on private sector cybersecurity breaches. Once companies have committed to contributing information anonymously, this entity will be able to establish benchmarks, delivering the clearest picture yet of the cybersecurity problem.
New Delhi 2012

At the 3rd Worldwide Cybersecurity Summit in New Delhi, more than 300 participants from 22 countries heard from an impressive international line-up of cyber experts and policy strategists from both the private and public sectors.
The focus of the New Delhi summit was on areas where international cooperation is vital—and the vulnerabilities pose serious risks. EastWest Institute President John Mroz declared: “We are here for a purpose—to build trust and find solutions together.” He pointed out that the two previous annual summits in Dallas and London have led to the implementation of 52 percent of the 27 recommendations that came out of those consultations. “This is a process, not just a conference,” he added.

The conference’s location was no accident. “We are all in the room today because we recognize that India is an essential partner on cybersecurity,” said Ross Perot, Jr., chairman of the EastWest Institute.

High-ranking Indian officials—among them, Deputy National Security Advisor Latha Reddy and Secretary R. Chandrashekhar of the Department of Telecommunications—not only participated in the summit but also helped frame key issues on the agenda. In addition, the EastWest Institute partnered with the National Association of Software and Service Companies (NASSCOM), the Federation of Indian Chambers of Commerce and Industry (FICCI) and the Data Security Council of India (DSCI), which sponsored three breakthrough groups. The topics were chosen in consultation with the Indian government and private sector leaders.

Kapil Sibal, India’s Minister for Communications and Information Technology, appealed for “a global agreement” on how to protect the key infrastructure of the digital world. Pointing out that for the first time in human history everyone is operating from the same platform, Sibal declared: “It is no longer a question of a nation protecting its own security; it’s a question of the global community protecting itself. India pledges to work with the global community.”

- Kapil Sibal
global community protecting itself.” He called for a new understanding about what constitutes cyber crime and how to combat it, including the idea of empowering “cyber justices” in the future who would adjudicate such cases. “India pledges to work with the global community,” he added.

While there were mixed reactions to Sibal’s proposals, most participants agreed that the rapid pace of technological change has triggered a corresponding leap in exposure to vulnerabilities that can be exploited by cyber criminals. But some proposed solutions have also raised fears about government intrusion that could threaten privacy and individual freedoms.

Erin Nealy Cox, Executive Managing Director at Stroz Friedberg, pointed out that companies often lack basic information on the cybersecurity problems they face. “CEOs need more metrics in this area,” she said, arguing that without such information much of the spending on cybersecurity could prove ineffective.

In his concluding keynote address, Deloitte’s Indian-born Chairman of the Board Punit Renjen commended EWI’s decision to hold the summit in New Delhi. “India has a cyber vision that is grand and it is bold,” he said, pointing to the way the Internet has lifted millions from poverty. But he also noted that most of the population still lacks connectivity, and cyber crime is already taking a heavy toll, with an estimated $6 billion in annual losses in India and $400 billion worldwide. “Right now it seems that the bad guys are winning,” he said.

“This is a great, great challenge; that’s why these summits are so important,” Renjen continued. “EWI has certainly provided leadership by serving as a catalyst for collective transnational action.”

“EWI has certainly provided leadership by serving as a catalyst for collective transnational action.”

- Punit Renjen
“We like to use the term that we ‘leapfrogged’ in technology, because in a sense our whole industrial revolution has been compressed into 60 years, what other countries took 100, 200, 250 years to do. We started off with almost no industry when we became independent in 1947, except for a textile industry, which had actually been driven into the ground by the introduction of a lot of imported textiles. So we really had to start from scratch. Particularly with the IT technology, cyber technology, we did leapfrog.”

LATHA REDDY
DEPUTY NATIONAL SECURITY ADVISOR, INDIA

“I think we’re entering an age of interdependence. More and more, nations of the world are becoming dependent on each other, with economies, with security, with opportunities. An industrial age has moved into an information age, and now we’re going into an interdependence age. Not one country or one company can solve the issues of cybersecurity alone.”

HARRY D. RADUEGE, JR.
LT. GENERAL (RET.), CHAIRMAN, DELOITTE CENTER FOR CYBER INNOVATION
“The more you frighten people, the less people will use technology that drives the economy forward.”

JOHN SUFFOLK
GLOBAL CYBER SECURITY OFFICER, HUAWEI

“We had very good talks with Dr. Rai on how to improve cooperation between China and India’s computer emergency response teams. We can help each other to stop the threats.”

ZHOU YONGLIN
DIRECTOR, INTERNET SOCIETY OF CHINA

“Just imagine how the world and society would function if every three to five minutes, our cell phones would ring. Today, we are aware of spam whenever we open our mailbox; a good 30 to 40 percent is spam, despite the special filters that are applied. Imagine what could happen if it were to occur on the voice side: we’d all go mad.”

J. SATYANARAYANA
SECRETARY, DEPARTMENT OF ELECTRONICS AND IT, MINISTRY OF COMMUNICATIONS AND IT, INDIA
“Cyberspace is not a lawless space, but a space where laws do apply and where there are constraints on state behavior. That’s one part of it. The second part is the practical things we can do to build better confidence, better transparency, better cooperation and, ultimately, better stability. The point here is to avoid conflict and to make sure that conflict doesn’t benefit any state.”

CHRISTOPHER PAINTER
COORDINATOR FOR CYBER ISSUES, U.S. DEPARTMENT OF STATE

“We have to act fast to catch up to the development of hacking technology.”

TORU NAKAYA
DIRECTOR-GENERAL, INSTITUTE FOR INFORMATION AND COMMUNICATIONS POLICY (IICP), MINISTRY OF INTERNAL AFFAIRS AND COMMUNICATIONS, JAPAN

“I think private sector CEOs need more metrics in this area. One would agree that a CEO would not be making a sound decision if he just went on his own sense of whether he was making profits, or he felt like his return on investment was good. He’s going to want to rely on solid metrics, and I think in the area of cybersecurity and risk, we ought to expect metrics as well.”

ERIN NEALY COX
EXECUTIVE MANAGING DIRECTOR, STROZ FRIEDBERG
“I do believe that apart from having closed communication networks, which connect key people, it is important to be able to have a layer of priority communication in the public network.”

**R. CHANDRASHEKHAM**
SECRETARY, DEPARTMENT OF TELECOMMUNICATIONS, MINISTRY OF COMMUNICATIONS AND IT, INDIA

“Will we become a rogue nation or will we become a cybersecurity superpower is really the question.”

**PRADEEP GUPTA**
CHAIRMAN & MANAGING DIRECTOR, CYBER MEDIA (INDIA) LTD.

“Today’s cyber world calls for vigilance. It also demands that we move with urgency, because the challenges we’re facing are growing with both strength and velocity.”

**PUNIT RENJEN**
CHAIRMAN OF THE BOARD, DELOITTE LLP
“We’ve seen considerable work moving forward in botnet mitigation and in helping to understand the issues involved in undersea cables, yet we still have a lot more to do. The other outcome that I want to highlight is the commitment to coming to the table. Having these vigorous conversations helps to drive awareness and will move the ball forward.”

**ANGELA MCKAY**  
PRINCIPAL SECURITY STRATEGIST, MICROSOFT  

“They say, ‘The more you sweat in peace the less you bleed in war.’ And cybersecurity is war. The point is how often have you rehearsed and practiced your incident response to be ready for combat? You’ve got to put all three contours of preventive, detective and corrective action across the domains of people, processes and technology.”

**BURGESS COOPER**  
VICE PRESIDENT & CHIEF TECHNOLOGY SECURITY OFFICER, VODAFONE INDIA  

“In order to achieve international cooperation we need to first focus on local efforts, awareness and local cooperation.”

**VARTAN SARKISSIAN**  
CEO, KNIGHTSBRIDGE CYBERSYSTEMS
Troubling Numbers

Every year during the summit we poll our international participants about the current situation in cyberspace and what needs to be done. Here are some of the results.

93% THINK THAT THE CYBERSECURITY RISK IS HIGHER THAN ONE YEAR AGO
33% feel protected online

41% think their online privacy is not sufficiently protected
“We’re not looking for sudden, simple, single solutions. This has got to be incremental. I think we’ve got to avoid the seduction of that pursuit of the single but rather unattainable solution. So we need to build on existing legislation, recognizing the regional differences.”

MIKE ST. JOHN-GREEN
FORMER DEPUTY DIRECTOR, OFFICE OF CYBER SECURITY AND INFORMATION ASSURANCE, U.K.

"The second big driver for what we’re doing is how do we create a payment system which allows the government to accurately credit money or goods to people’s accounts in an unambiguously verifiable way. That’s all about making the use of public funds more efficient, more effective and more equitable."

NANDAN NILEKANI
CHAIRMAN OF THE UNIQUE IDENTIFICATION AUTHORITY OF INDIA

“Now that we’re on this train, I don’t think it’s possible to get off. The Internet is becoming so integrated into everybody’s life that I just don’t think escape or a return to a pre-Internet age is possible.”

JOHN M. HOWELL EXECUTIVE DIRECTOR, IEEE COMMUNICATIONS SOCIETY
“At the end of the day, most of the corporate leaders dramatically underestimate the threat and they don’t know what to do with that. In some cases the regulation is not there; in some cases they are basically squeezed between their budgets and balance sheets. In many cases, they think that whatever their CTOs are doing for the companies is more than enough.”

ARMEN SARKISSIAN
VICE-CHAIRMAN, EASTWEST INSTITUTE;
FORMER PRIME MINISTER OF ARMENIA

“There are four aspects that are now shaping the entire cyberspace. One is connectivity; the second is mobility; the third is the social media, and the fourth is consumerization.”

GULSHAN RAI
DIRECTOR GENERAL, CERT INDIA,
DEPT OF ELECTRONICS & IT, INDIA

“The challenge is to go from individual personal relationships to a process that allows for a continuous exchange of important information as opposed to exceptional exchange of information.”

GREG SHANNON
CHIEF SCIENTIST, CERT PROGRAM,
CARNEGIE MELLON UNIVERSITY

“Insecurity in the cyber world comes in all forms and is perpetrated by all kinds of players.”

MARIA LIVANOS CATTAUI
FORMER SECRETARY GENERAL, INTERNATIONAL CHAMBER OF COMMERCE; MEMBER, BOARD OF DIRECTORS, EASTWEST INSTITUTE
50% think that corporate boards grossly underestimate the cybersecurity problem.

17% think that they are too confused.
62% say that their governments are in the early stages of understanding the cybersecurity problem and committing to international cooperation.
“If any issue consistently emerged from the cyber summit in Dallas, the summit in London and yesterday’s outstanding summit activities, it’s the criticality of strong international cooperation, public and private, to drive the policy changes, the business process changes and multilateral agreements to improve cybersecurity.”

BOB CAMPBELL  
CEO, CAMPBELL GLOBAL SERVICES; MEMBER, BOARD OF DIRECTORS, EASTWEST INSTITUTE

“This summit process has proven effective in developing innovative recommendations, seeing these recommendations implemented by major companies and governments, and then seeing their recommendations institutionalized by long-term sustainable changes.”

VIJAY BHARGAVA  
PRESIDENT, IEEE COMMUNICATIONS SOCIETY

“Some of the points we have reflected in our Information Technology Act could actually become a global yardstick or a point or base on which all of the international diplomacy on cybersecurity can go forward.”

SUBIMAL BHATTACHARJEE  
COUNTRY HEAD, GENERAL DYNAMICS
“The global cyber commons requires safe navigation by nations for their well-being, economic growth and national security. International cooperation to enhance openness, strengthen governance, and stabilize cyberspace is essential. India, with the third largest number of Internet users, is an important stakeholder.”

KAMLESH BAJAJ
CEO, DATA SECURITY COUNCIL OF INDIA (DSCI)

“One of our prominent speakers told me privately that his major worry is that one day we will cross a really difficult divide, and will confront a situation when people will die as a result of a cybersecurity attack. That could be a game changer of the worst type.”

JOHN EDWIN MROZ
PRESIDENT AND CEO, EASTWEST INSTITUTE

“If we knew better what cybersecurity was and had a handle on it, then I think we might see that our understandings of it would converge.”

STUART GOLDMAN
CHAIR (FMR), ATIS NETWORK INTEROPERABILITY FORUM; BELL LABS FELLOW (RET.)

“Submarine cables are often overlooked, but they are very critical and form part of the critical infrastructure. I think if you look at cybersecurity, if that’s the virtual gatekeeper of cyberspace, then the submarine cable network is the physical media that connects all that. Without the submarine cable network, you don’t have the Internet and you don’t have cyberspace.”

DEAN VEVERKA
CHAIRMAN, INTERNATIONAL CABLE PROTECTION COMMITTEE (ICPC); DIRECTOR NETWORKS AND VICE PRESIDENT OPERATIONS, SOUTHERN CROSS CABLES LIMITED
55% doubt that their country can defend itself against sophisticated cyber attacks.
WHAT KIND OF RULES SHOULD APPLY IN CYBERSPACE?

Is cyberspace a truly new society that deserves its own rules or an extension of the real world—and should most or all of its rules apply?
“Technologically, cyberspace is without boundaries but the privacy issues are country-specific. The issues which may be very acceptable for open discussion in the U.S. may have their own sensitivities in India. So the whole question is, how do you address all these issues so that the different stakeholders—government, regulators, service providers, civil society, the media—have some common acceptance of cybersecurity?”

ARBIND PRASAD
DIRECTOR GENERAL,
FEDERATION OF INDIAN
CHAMBERS OF COMMERCE
AND INDUSTRY (FICCI)

“We really are operating in concentric circles. First, companies need to protect the data of their customers and themselves, and then around that is industry and, third, at a country-level. But these three circles are not enough, and the world has moved farther. I think global concentricity, where we are intersecting with what happens across the world, becomes even more important.”

SOM MITTAL
PRESIDENT, NATIONAL ASSOCIATION OF
SOFTWARE AND SERVICE COMPANIES
(NASSCOM)

“In the area of theft of intellectual property and espionage, there’s been very little progress, and maybe it’s the nature of that challenge. That there isn’t likely to be very much progress internationally because there are some strikingly different incentives that operate across the globe.”

MICHAEL CHERTOFF
CHAIRMAN AND CO-FOUNDER, CHERTOFF
GROUP; FORMER U.S. SECRETARY OF HOMELAND
SECURITY; MEMBER, BOARD OF DIRECTORS, EWI
Working Together

The institute's summit process is oriented around ongoing breakthrough groups, diverse collections of experts assigned to devise solutions to major cybersecurity challenges.
The success of EWI’s Worldwide Cybersecurity Initiative is measured in part by the policy breakthroughs made in the interactive working sessions, both during the summit meeting and in the follow-up activities throughout the year.

The objective for each of the breakthrough groups is to have actionable recommendations for industry and government that, if implemented, will have significant impact in making cyberspace and the real world safer, more stable and more secure. As in London and Dallas, the format of the New Delhi summit included new and continuing breakthrough groups, immersing participants in interactive sessions with professional peers from around the world. Following consultation with the Indian government and private sector leaders, three new issues, discussed below, emerged as central areas of focus at the New Delhi summit.

Globally Distributed Processing and Data Storage (the “Cloud”)

The transition to so-called “cloud” style design and management brings both new efficiencies and new vulnerabilities. While there is much work underway (e.g., IEEE, Cloud Security Alliance) to optimize security within the constraints of distributed processing and storage, fundamental issues at the core of the discussion remain unresolved. Which policies apply to the data of country A when managed by country B? Will country A know if country X has its data? How? These and other questions have made many uneasy. Equally urgent are concerns about governments overreacting with regulations that could stifle innovation or otherwise restrict freedoms.

The answers to these and other questions directly impact the safety, security and integrity of phenomena like social networking, information leak posting, personal broadcasting and tracking and profiling the online behavior of netizens. Agreements, standards, policies and recommendations need to catch up to already introduced innovative services that have befuddled government, legal and social paradigms.

This group builds on work that began as an India-U.S. Track 2 bilateral, which put forth voluntary principles that multi-national companies should subscribe to when designing and operating “cloud” applications.
ICT Development/Supply Chain Integrity

Governments and businesses are unable to determine the integrity of the hardware and software on which they vitally depend for the reliability and security of their critical operations. Major initiatives are underway by national governments to improve their oversight of the technology responsible for national critical infrastructure as well as vital national security operations. The overwhelming majority of expertise and experience resides in the private sector, where much of the hardware and software design, development, deployment and operation occur. Thus governments are typically at a substantial disadvantage, forced to rely on the private sector for insights. That said, private sector insight can be biased as a result of status quo approaches.

This group builds on work underway within an India-U.S. Track 2 bilateral and is working toward articulating international principles for the integrity of ICT development/supply chains that may be otherwise overlooked or underemphasized within national initiatives.

Payload Security

In a perfect world, the government can access the critical information it needs in a timely manner to ensure national security and public welfare, while citizens and private sector enterprises can enjoy cyberspace with safety, security and privacy – i.e. freedom from being needlessly observed or interrupted. Private sector network operators and service providers should meet both needs in an efficient, reliable and collaborative manner. However, neither government nor private sector objectives are met adequately, making the present state acceptable to neither.

As essential data now often traverses international borders, the lack of a common understanding of the appropriate rigor for its protection and access is a major obstacle for everyone. This group builds on work underway within India-U.S. Track 2 bilateral talks to address gaps in international policies affecting monitoring and privacy.
Additional Breakthrough Groups

Pursuing World Class Performance for International Connectivity: Timely Outage Repairs for Global Undersea Communications Cable Infrastructure (GUCCI)
Applying the International Cable Protection Committee’s best practices for timely outage repairs of undersea cables is essential to both maintaining stable international connectivity and restoring service as soon as possible in the event of an outage.

Harmonizing Legal Frameworks
Advancing non-partisan, objective recommendations for potential new legal mechanisms is critical to combating cyber crime and cyber attacks.

Priority International Communications: Strategy for Implementation
This breakthrough topic explores the steps the international community must take towards implementing the four recommendations proposed by EWI’s report Priority International Communications (PIC): Staying Connected in Times of Crisis.

Emergency Preparedness for the Financial Service Sector in Cyberspace
Collaboration in the international financial services sector is imperative to prepare for future crises, such as sophisticated attacks that could occur in cyberspace.

Dealing with the New Power Structure of Non-State Actors in Cyberspace
Proactive measures are needed to promote constructive cooperation with non-state actors in cyberspace, and assure that the existing prescribed instruction and training regarding the Geneva and Hague protections for civilians are sufficient in the event of cyber conflict.

International Aspects of Critical Infrastructure Protection
Despite relevant stipulations in the Geneva and Hague conventions, there are currently no distinctive, clearly visible markers for protected humanitarian entities such as hospitals in cyberspace; this group seeks to devise means of addressing this potentially dangerous problem.

Measuring the Cybersecurity Problem
Producing the first worldwide, standardized, high-level benchmarks for cybersecurity compromises is vital in a world of increased complexity, connectivity and criticality.

Stopping Cyberspace Pollution: International Cooperation on Fighting Spam and Botnets
Botnet creators and spammers have made their identities extremely difficult to uncover, their spam messages more difficult to recognize and needed countermeasures more difficult to apply. International cooperation and policy is crucial to effectively addressing the problem.

Implementing Public Health Models for the Internet
In the face of mounting cyber threats, international cooperation based on a global public health model can improve device health and reduce security risks.
New Ideas

The 3rd Worldwide Cybersecurity Summit provided an excellent opportunity for experts, stakeholders and decision-makers from industry, government and academia to review papers on the international policy-related aspects of cybersecurity.

Thirteen papers were presented and discussed on topics such as: the worldwide response to a cyber crises (e.g., priority international communications and trusted information sharing); global awareness and education (e.g., protecting youth, spam, and the private-public partnerships needed to secure the global economy); and worldwide governance, frameworks and protocols for day-to-day behavior in cyberspace, and responses to cyber conflict. All of the authors presented their papers at the Poster Session of the summit.

For a full list of presented papers visit the summit website at www.cybersummit2012.com.
In the News

The 3rd Worldwide Cybersecurity Summit made it to the front pages of major newspapers in India and attracted wide media interest abroad. Here are some headlines and soundbites from the summit.

“Now, there are no bangs, no explosions and no declarations of war, but cyber crimes can inflict just as much damage. Experts from the U.S. and India are meeting at a summit in Delhi to discuss vital cybersecurity areas.”

Business India

“We have 1.2 billion people and will be the largest in terms of population in the world in years to come. Cyber crime affects us perhaps much more than any other country in the world,’ Telecom and IT Minister Kapil Sibal said on the sidelines of the 3rd Worldwide Cybersecurity Summit.”

The Economic Times

“If we can figure this out here, it’s a massive business opportunity across the world,’ Mr. Perot told India Real Time on the sidelines of the EastWest Institute’s cybersecurity summit in New Delhi Tuesday. The EastWest Institute is a New York-based think tank that focuses on issues of global security and is chaired by Mr. Perot.”

Wall Street Journal

“India's importance in this domain can be judged from the fact that, after the previous two editions in London and Dallas, Delhi will play host to the Third Worldwide Cybersecurity Summit.”

Reuters

“John Suffolk, [Huawei]'s global cybersecurity chief, told Reuters at a cybersecurity conference in New Delhi that he was sending a team of engineers to talk to German security researcher Felix Lindner, who has exposed vulnerabilities in the company’s routers, from its $100 home Internet devices to multi-million dollar equipment.”
“Union Telecom Minister Kapil Sibal on Tuesday called for a global effort to fortify cyber security. Interacting with reporters at the third Worldwide Cybersecurity Summit here, Sibal said that such security is necessary as online space doesn't have a boundary and information could travel miles, affecting or influencing sensitive matters.”

“ANI NEWS

“The global summit sought to bring more stability and safety into the global cyberspace by identifying critical security areas and ways to address them.”

“DATAQUEST

"While governments fear crippling cyber-attacks on critical infrastructures such as nuclear power plants and banking systems, citizens have smaller risks like identity theft and credit card fraud to grapple with. The recently concluded Worldwide Cybersecurity Summit, held in Delhi, has done well to throw some light on the enormity of the challenge of fighting this menace."
The United States, China, India, Russia, Israel and many other countries will be represented as the summit appoints three breakthrough groups, composed of government and private sector experts, to address:

International Critical Infrastructure Protection
As the global economy is vitally dependent on international critical infrastructures, what steps can be taken to secure their safe and resilient operation?

Acts of Aggression in Cyberspace
Viruses like Stuxnet and Flame cracked open the door to new possibilities for both state and non-state actors alike. How do these actions fit the paradigms of traditional conflict?

Multinational Company Data Handling Expectations
How should policy gaps that arise from the misalignments of expectations from conflicting national laws, variations in procedures, etc. be addressed?

The Stanford Institute for Economic Policy and Risks (SIEPR) is also set to host a special plenary session and dinner on the second day of the summit at Stanford University, providing a vibrant academic setting for the proceedings.

In addition to the breakthrough groups, the summit will feature plenary sessions to address aspects of cybersecurity critically hindered by distrust. They are:

Political Action Promoting International Cybersecurity
Failure to pass effective cybersecurity legislation and the uproar over international bodies’ attempts to regulate cyberspace are just some of the challenges facing policy makers today.

Industrial Espionage
Private sector firms are regularly the victims of cyber crime. However, concrete data on these breaches are largely absent, making it extremely difficult to devise effective solutions.

Social Networking Policy Envelope
The Internet’s future is now being envisioned and designed by innovators in Silicon Valley and elsewhere, raising a whole host of new policy issues at the global level. How can existing and future policy gaps be addressed in such a way that they will be “future-proof”? And what will be the role of the private sector and individual netizens in that future?

When it comes to cybersecurity, policy continues to lag far behind the pace of technological innovation. By bringing together representatives from the world’s great cyber powers to address these critical issues, the EastWest Institute is taking the lead in bridging that gap.

Keep an eye on www.ewi.info to learn more about summit programming and registration.
“See something or say something,” Eric Fischer

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