

Second Annual Event

Encouraging Digital Security Innovation





BETTER POLICIES FOR BETTER LIVES



REFAEL FRANCO Deputy Director General Head of Robustness Division



Israeli CERT Alert



התרעה דחופה: פגיעויות קריטיות בציוד VPN של מספר יצרנים [עדכון]

תקציר

.1. לאחרונה פורסם כי ציוד VPN של מספר יצרנים מוכרים (Palo-Alto, Pulse Secure ,Fortinet) חשוף לפגיעויות העלולות לאפשר לתוקף מרוחק ובלתי-מזוהה הרצת קוד על הציוד, או קריאה של קבצים מהציוד, כולל פרטי הזדהות של משתמשים. 2. לחלק מהפגיעויות קיים POC ברשת, וחלקו ניתנו עש באמצעות גישה ל- URL מסוים על ציוד ה- VPN. 3. מומלץ לכל ארגון העושה שימוש בציוד פגיעה, לבחון שגר ולהתקין את עדכוני האבטחה פרטים 🗐 ם הם: 1. המוצרים ר Palo Alto Networks GlobalProtect portal and GobalPr ct Gateway PAN-OS 7.1.18 and earlier PAN-OS 8.0.11-h1 and earlier PAN-OS 8.1.2 and earlier Pulse Connect Secure and Pulse Policy Secure Pulse Connect Secure 9.0R1 - 9.0R3.3 Pulse Connect Secure 8.3R1 - 8.3R7

💿 in 🖬 - מערך הסייבר הלאומי ב-cyber.gov.il 🌐 team@cyber.gov.il 🖂 119 🗞 מערך הסייבר גער אירועי סייבר:



Sharing information & tools via vpn ssl event



ISRAEL CYBER JOURNEY



- SECURING ISRAEL'S CYBERSPACE
- SECURING ISRAEL'S LEADING POSITION IN CYBERSPACE











Innovation Labs



Government Involvement Formula

RISK DAMAGE GOVERNMENT

M.FAILURE





Robustness

Cyber robustness is aimed to reducing the attack surface and creating a more difficult environment for offensive rivals actions, at the Israeli cyber space.





Government Involvement





National SCADA lab





Pump

Government Innovation Cyber Tenders





Heat Map – Risk & Damage Indicators











Supply Chain Eco System











Supply Chain Eco System





Our Global Reach





Supply Chain Eco System









FC3 – Finance



Meteor

Innovation Labs



SCADA & OT



Transportation & Aviation



Biometric & ID



Cloud & 5G





>>> THANK YOU





OECD Global Forum on Digital Security for Prosperity

Session 1 - Strategic Initiatives for Digital Security Innovation

> 14 November 2019 London

Ioannis Askoxylakis Cybersecurity Technology & Capacity Building Digital Society, Trust and Cybersecurity DG Communications Networks, Content and Technology European Commission



EU action in cybersecurity





The Proposal for a European Cybersecurity Industrial, Technology & Research Competence Centre & Network of National Coordination Centres



European Cybersecurity Industrial Technology and Research Competence Centre





2021-2027 proposed EU cybersecurity funding sources







DIGITAL EUROPE - initial funding priorities 1/2

- Support to the network of National Coordination Centres;
- Key capacity building: the cybersecurity shield

Deploying a quantum-secured public communication infrastructure (terrestrial segment) with the aim at deploying Quantum Key Distribution (QKD) in various large-scale networks; Deploying through cyber ranges, with Member States and industry, a European cyber threat information network;



DIGITAL EUROPE - initial funding priorities 2/2

Certification scheme(s)

Support certification capacities Support SMEs to certify their products Provide certification testbed;

Widening the deployment of cybersecurity tools

Support for faster validation and market take-up of innovative cyber security solutions by businesses and public buyers;

Supporting the NIS Directive implementation

Strengthening the activities started under the current CEF Telecom programme (national authorities, CSIRTs, OES, DSP, ...)



HORIZON EUROPE - initial funding priorities 1/2

- Automated security quantification and certification
 Verifiable security, privacy, and ethics
- Resilient infrastructures and interconnected systems

Advanced cryptography; quantum Automated threat prediction, detection and response Human factors – risk and crisis management Authentication of IoT objects



HORIZON EUROPE - initial funding priorities 2/2

Securing disruptive technologies

Security ing AI - 5G - IoT – blockchain – distributed computing Big Data privacy

Hardware and supply chain security

Cryptography and its implementation Secure systems, despite vulnerable components Virtualisation



EU pilots to prepare the European Cybersecurity Competence Network



More than 160 partners from 26 EU Member States

More info at:

https://ec.europa.eu/digital-single-market/en/news/four-eu-pilot-projects-launched-prepare-european-cybersecurity-competence-network



Current EU funding opportunities



Forthcoming topics in H2020 1/2

- SU-ICT-02-2020: Building blocks for resilience in evolving ICT systems. (RIA, 47.00 MEUR 19/11/2019)
- SU-DS02-2020: Intelligent security and privacy management. (RIA/IA, 38.00 MEUR 27/08/2020)
- SU-DS03-2019-2020: Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises. (IA, 10.80 MEUR 27/08/2020)



Forthcoming topics in H2020 2/2

- SU-DS04-2018-2020: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches. (IA, 20.00 MEUR 27/08/2020)
- SU-INFRA01-2018-2019-2020: Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe. (IA, 20.70 MEUR 27/08/2020)
- SU-AI-2020: Artificial Intelligence and security: providing a balanced assessment of opportunities and challenges for Law Enforcement in Europe (IA, CSA 20.00 MEUR 27/08/2020)



The EU Cybersecurity Act



What's new with the new proposal?





Cybersecurity Certification

A voluntary European cybersecurity certification framework....



...to enable the creation of tailored EU cybersecurity certification schemes for ICT products and services...

...that are valid across the EU





Thank you for your attention!



Opportunities and Challenges to Enable Digital Security Innovation: MIT's systematic approach to innovation through ecosystems and stakeholders

Dr Phil Budden MIT School of Management

Here East, London: 14 November 2019



The World Is Flat THE TWENTY-FIRST CENTURY Thomas L. Friedman

In the new global innovation economy, the world is NOT flat.....

...a growing number of innovation ecosystems with unique comparative advantage that can support such entrepreneurship across sectors...

...and this seems true of cyber/digital security too.



MIT's approach to Innovation Ecosystems



MIT's iEcosystem approach recognizes engagement with multiple <u>Stakeholders</u> (not just those in the 'triple helix')



In MIT's Innovation Ecosystem model, we outline this '<u>System</u>'



Each Capacity has 5 <u>input</u> categories, combining for 'innovation-driven entrepreneurship'



https://innovation.mit.edu/assets/Assessing-iEcosystems-V2-Final.pdf

Leaders only then choose a <u>Strategy</u> for change (eg to enhance digital security innovation)



Designing programmatic/policy interventions (PPIs) based on a region's <u>comparative advantage(s)</u>

MIT hosted Workshop: 'Enhancing Cybersecurity: the Role of Innovation Ecosystems' in April 2019



2. MIT'S FIVE STAKEHOLDER-MODEL FOR INNOVATION ECOSYSTEMS

The Seminar opened with a presentation by Prof. Fiona Murray (MIT) and Dr. Phil Budden (MIT) on MIT's five stakeholder model for Innovation Ecosystems. The presentation underlined that innovation-driven activity today is highly concentrated in key global locations. Research shows that, within highly concentrated geographic regions, innovation-driven activity is also characterized by significant agglomeration and exchange of resources, strongly grounded in teams building high-growth, innovation-driven enterprises. These so-called 'innovation ecosystems' are multi-stakeholder in nature, with critical roles for government, private corporations, risk capital providers, entrepreneurs and universities.

Figure 1: MIT's Five Stakeholder Model for Innovation Ecosystems



Given the multi-stakeholder and cross-sectoral nature of cybersecurity, innovation in this field is likely to thrive in such innovative ecosystems.

The success of cyber innovation ecosystems – as with other innovation ecosystems - depends on the capacity to efficiently transition ideas to impact (often in the form of new successful innovation-driven enterprises who may later partner with large corporations for distribution and service provision) which is enabled through a diverse set of programs and policies implemented

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https://innovation.mit.edu/assets/Enhancing-Cybersecurity-The-Role-of-Innovation-Ecosystems.pdf

Given MIT's ecosystem approach to innovation, what is it that the different Stakeholders need for cyber/digital innovation?



On to the first Session of the Panel...





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