

Enhancing Cyber Security – The Role of Innovation Ecosystems

February 13th 2019

MIT's ILP Conference Center, 1 Main St, Cambridge, MA

Introduction

Cyber security is a mission of great importance worldwide. For governments, this is reflected in increased budgets for cyber defense: according to World Bank estimates, by 2030 a total of 0.5 percentage of the world GDP will be used on cyber security. This change is being driven by increasing digitalization that not only improves lives, but also increases vulnerability to cyberattacks on, for example, infrastructure, banks, hospitals, factories, and homes. Today's estimates of the damage caused by cyberattacks are around \$3 trillion annually, but by 2021 they will have risen to over \$6 trillion. Thus, effective cyber security is about protecting our everyday lives and the functionality of our societies in an increasingly digital world.

The low (and dropping) price of cyber weapons as well as the need for more rapid security responses, has led governments to the conclusion that the ability to control and defend cyberspace, demands enhanced collaboration between government and private actors such as universities, entrepreneurs, large corporations, and risk capital. We refer to such multi-stakeholder approaches as key to an innovation ecosystem approach in cyber security.

Organized by the MIT Innovation Initiative, Cyber Security Research Center at the Hebrew University of Jerusalem, Israel National Cyber Directorate, and UK Science and Innovation Network, the seminar will address the following questions:

- What are the current best practices of an innovation ecosystem approach relevant to cyber security?
- What success factors for the cyber mission can be developed from ecosystem best practices?
- How can we create impact by translating the best practices and success factors into initiatives such as advanced training courses, training guidelines, and professional and academic publications?

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Seminar program

08:30 – 09:00 Breakfast and registration

09:00 – 09:15 **Welcome by Prof. Fiona Murray**, MIT Sloan School of Management

09:15 – 09:45 Goals of the seminar by Dr. Lars Frølund, MIT Innovation Initiative & Dr. Amit Sheniak, The Hebrew University of Jerusalem.

09:45 – 10:15 Innovation Ecosystems and Stakeholders by Prof. Fiona Murray, MIT Sloan School of Management and Dr. Phil Budden, MIT Sloan School of Management

10:15 – 11:00 **Keynote and Q&A:** Cybersecurity and Innovation Ecosystems – Israeli experience by Ruth Shoham, Executive Director for Strategy and Capacity Building, Israel National Cyber Directorate

Q&A Moderated by Dr. Amit Sheniak, Cyber Security Research Center, The Hebrew University of Jerusalem

11:00 – 11:15 Coffee and networking

11:15 – 12:30 **Panel discussion: Cyber Security and the Role of Innovation Ecosystems – *Best Practices from Corporations***

Presentations by:

- Andy Ellis, Chief Security Officer, Akamai
- Tristan Morgan, CTO, BT Security
- Natalia Oropeza, Chief Cybersecurity Officer, Siemens AG
- Parisa Tabriz, Director of Engineering, Google

Q&A Moderated by Dr. Lars Frølund, MIT Innovation Initiative

12:30 – 13:30 Lunch and networking

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13:30 - 14:15 **Keynote and Q&A:** Cybersecurity and Innovation Ecosystems by Jonathan Darby, Head of Cyber Security Growth & Innovation, UK Department for Digital, Culture, Media & Sport.

Q&A Moderated by Dr. Phil Budden, Senior Lecturer, MIT Sloan School of Management

14:15 – 14:30 Coffee Break

14:30 – 15:45 **Panel discussion:** Cyber Security and the Role of Innovation Ecosystems – *Best Practices from Entrepreneurs and Risk Capital*

Presentations by:

- Sean Dalton, Founding Partner, METEOR VC
- Sam Curry, CTO, Cybereason
- Galina Antova, Co-founder, Claroty

Q&A Moderated by Deborah Housen-Couriel, Cyber Security Research Center, The Hebrew University of Jerusalem

15:45 – 16:00 Coffee and networking

16:00 – 17:15 **From Insights to Impact** – Group work addressing questions on how to further develop our knowledge and create impact.

Moderated by Dr. Lars Frølund, MIT Innovation Initiative & Dr. Amit Sheniak, The Hebrew University of Jerusalem

17:15 – 17:30 Closing Remarks and Next Steps by Prof. Fiona Murray (MIT), Deborah Housen-Couriel, (Hebrew University of Jerusalem,) Ruth Shoham, (Israel National Cyber Directorate), and Jonathan Darby (UK Department for Digital, Culture, Media & Sport).

18:00 – 20:00 **Informal dinner at the MIT ILP Conference Center**