INTERNATIONAL ALLIANCE OF RESEARCH UNIVERSITIES

NUS National University of Singapore

IARU CYBERSECURITY FORUM 2018

4-5 April 2018, National University of Singapore

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AT A GLANCE

- Background
- Forum highlights
- Moving Forward
- Recommendations for approval
- Discussion

BACKGROUND

The forum's objectives were to:

- Provide a shared context for cybersecurity leaders and professionals in member universities to **share ideas and experiences that advances knowledge**;

- Develop a **community of strategies, governance and management practices** in cybersecurity *for higher education*;

- Enable dialogue among members and **explore next-generation cybersecurity technologies** to respond to evolving threats.

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FORUM HIGHLIGHTS

Charting the first steps...

Invited speaker from Singapore's Cyber Security Agency

sharing Singapore's perspectives and approaches at the national level

Sharing of experiences and issues by participating universities

Australian National University, University of Cape Town, University of Copenhagen, ETH Zurich, Peking University and University of Tokyo

Sessions facilitated by NUS

***Opening address** by NUS President*

***Keynote address** by NUS Chief IT Officer on NUS' Information and Cybersecurity Governance Framework*

***Sharing by NUS IT** on the campus' cybersecurity landscape*

***Sharing by NUS School of Computing** on National Cybersecurity R&D Laboratory*

***Facilitation and discussion by NUS IT** on Cybersecurity KPIs and Behavioral Analytics*

MOVING FORWARD

4 initial areas of collaborations to strengthen our approaches to cybersecurity

1. KPIs and Benchmarking

Action by: All IARU members

- **Develop a standard set of KPIs that all members can use for engaging the Board/Senior Management**

- Establish a methodology/indices to assess maturity of cybersecurity developments on our campus. This can either be developed by IARU members or a consulting company
- Develop benchmarks that can serve as proxies/measures to identify potential gaps in processes and resource optimisation. E.g. % of investment in cybersecurity

2. Virtual Teams

Action by: Domain-relevant IARU members

- **Form sub-groups and virtual teams/conferences** to discuss specific areas and consider mini-projects that are relevant to some universities, with an end goal of sharing the findings with the group.

MOVING FORWARD

4 initial areas of collaborations to strengthen our approaches to cybersecurity

3. Shared Online Platform

Action by: NUS IT

- **Establish a shared online platform** where IARU members can post best practices, challenges, solutions, research information, people matters, outreach models and policies, for knowledge sharing and exchange of views

4. Contact Points for specific issues

Action by: All IARU members

- **Share contact points** to help each other achieve greater clarity on specific issues (e.g. in areas of risk classification and technical controls arising from the General Data Protection Regulation in the EU, as raised by University of Copenhagen)

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RECOMMENDATIONS FROM THE FORUM FOR APPROVAL

The organising and coordinating team at NUS IT (on behalf of all participants) recommends the following for approval:

1) Four areas of collaboration

Participants agree that the 4 identified areas of collaboration are a good baseline/starting point before embarking on more in-depth projects in the future.

2) An annual meeting of IT Security personnel from IARU universities

Given the fast moving and evolving nature of cybersecurity threats, an annual platform to share ideas/experience and outcomes of areas of collaborations will be useful.

DISCUSSION

1. A perspective on cybersecurity measures and academic freedom - a balance of policy, controls, ease-of-use and convenience in system and data access, and information sharing.

2. Cybersecurity professionals are in high demand. What then constitutes effective cybersecurity education - as organisations are looking for graduates who are armed with excellent technical knowledge, critical thinking skills but yet, keeping pace with the fast-changing industry landscape.

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THANK YOU