



ICT REGULATORS' LEADERSHIP RETREAT



PROVISIONAL PROGRAMME

GETTING READY FOR TOMORROW: REGULATION IN A DATA-DRIVEN CONNECTED WORLD

(Reserved for Heads of Regulatory Authorities only)

Singapore, 18-20 March 2015

FORMAT OF THE RETREAT

The format of the Retreat is based on interactivity with the interveners and among the participants. Each session will include: short lectures followed by interactive discussions, group discussions and brief interventions by regulators wishing to share their experiences. The first two days will provide a global perspective and the third day will focus on Singapore's experience.



INTERVENERS



Mira Burri is a lecturer at the University of Bern and a senior research fellow at the World Trade Institute. She has been leading projects on the digital technologies and trade governance for the past 10 years. She teaches the course on International Law of Contemporary Media, and co-teaches International Trade Regulation and International Intellectual Property Law. Prior to joining World Trade Institute in 2005, Mira was a research fellow at the University of Lucerne and contributed actively to establishing the i-call research centre.

She has published in a number of peer-reviewed outlets such as the Journal of International Economic Law, the Common Market Law Review, the European Law Review, the International Journal of Cultural Property and I/S: A Journal of the Law and Policy of the Information Society. Mira is a member of the editorial board of the International Journal of Communications Law and Policy and of the International Journal of Cultural Property, as well as a rapporteur to the UK Economic and Social Research Council. She is a founding member of the Interdisciplinary Network of Centres on Internet and Society.



Andy Haire, Chairman, AJH Communications has more than 30 years of experience spanning four continents and has been associated with some of the industry's most successful telecom initiatives. He advises both governments and communication providers and is an expert in industry policy, market growth, strategy, technical opportunity, and economic structure. He has been responsible for policy that included seminal work in privacy, data protection, and property rights

– in both the public and private sectors. His portfolio included architecting major policy frameworks in the telecoms, technology, and postal sectors, as well as serving as regulator for 10 years at Singapore's IDA, soon after its inception in the year 2000. Andy holds a degree in engineering in the United States, attended the advanced management program from Harvard University.

INTERVENERS



Sekhar Kondepudi is an Associate Professor of Smart Buildings and Smart Cities at the National University of Singapore with over 25 years of global experience in multiple technology verticals including Smart Cities, Internet of Things (IoT) and Energy Efficiency. He is also currently Vice-Chair for the Focus Group on Smart Sustainable Cities at the ITU and is active in providing strategic advisory services to both public and private sectors related to Smart Sustainable Cities, IoT and Energy Efficiency. He has made presentations and

conducted workshops and trainings on smart cities and smart buildings all across the world. In the recent past, Dr. Kondepudi has led Global Product Management and Business Development for Smart+ Connected Communities (S+CC) at Cisco Systems where he led headed up a team developing software, related products and solutions for Smart Buildings and Smart Cities with successful implementations in multiple global locations including Songdo, Korea. He also worked at a variety of high tech start-ups in Silicon Valley, USA.



Bruno Lanvin is the Executive Director of INSEAD's European Competitiveness Initiative (IECI). From 2007 to 2012, he has been the Executive Director of INSEAD's eLab, managing INSEAD's teams in Paris, Singapore and Abu Dhabi. From 2000 to 2007, Bruno worked for the World Bank, where he was inter alia Senior Advisor for E-strategies, and Regional Coordinator (Europe and Central Asia) for ICT and e-government issues. He was also heading the Capacity Building Practice of the World Bank's Global

ICT Department, and Chairman of the Bank's e-Thematic Group. Since 2002, he has been co-authoring the Global Information Technology Report, (INSEAD-World Economic Forum); he is currently the co-editor of the Global Innovation Index Report (INSEAD-WIPO-Cornell University). A frequent speaker in high-level meetings, he advises a number of global companies and governments, and is a member of numerous boards, including that of the Tallinn e-government Academy.

INTERVENERS



Viktor Mayer-Schönberger is Professor of Internet Governance and Regulation at the Oxford Internet Institute at Oxford University. He is also a faculty affiliate of the Belfer Center of Science and International Affairs at Harvard University. In addition to the recent international bestseller “Big Data” (co-authored with Kenneth Cukier), Viktor has published nine books (including the awards-winning “Delete: The Virtue of Forgetting in the Digital Age” with Princeton University Press) and is the author of over a hundred articles and book chapters on the information economy. He has

chaired the Rueschlikon Conference on Information Policy in the New Economy, bringing together leading strategists and decision-makers of the new economy. He is a frequent public speaker, and sought expert for print and broadcast media worldwide.



Malcom Webb, Partner, WebbHenderson, is advising clients in the telecommunications, energy and other infrastructure sectors. Malcom provides expert legal advice on both corporate and commercial transactions and strategic regulatory and competition law issues. He advises companies, regulators, governments and other clients. His regulatory and competition experience includes wholesale access regulation, market power issues, disputes and merger clearances. In the telecommunications sector, Malcom’s recent work has involved next generation broadband projects, submarine cable

arrangements, infrastructure sharing transactions, wholesale agreements, access to content and net neutrality issues, mobile termination rates, market liberalization and network procurement transactions. Malcom has been ranked as one of the top three communications regulatory lawyers in the world by The International Who’s Who of Business Lawyers 2012 and 2013.

INTERVENERS



Keng Thai Leong, Deputy Chief Executive and Director-General (Telecoms & Post), Infocomm Development Authority of Singapore and Chairman of the Personal Data Protection Commission, has more than 25 years of experience in the telecommunications industry. In his position as Director-General of Telecommunications since 1996, Mr Leong has played a key role in significant milestones of the industry, including the full liberalization of the sector, the introduction of a competition regulatory framework, and most recently, the deployment of the Next Generation Nationwide Broadband

Network. Mr Leong is concurrently holding the appointment of the Chairman of the Personal Data Protection Commission (PDPC), the statutory body set up to administer the Personal Data Protection Act (PDPA). In addition, he is also appointed as a Commissioner to the UN Broadband Commission for Digital Development.



Aileen Chia is the Assistant Chief Executive and Deputy Director-General (Telecoms & Post) at the Infocomm Development Authority (IDA) of Singapore. She oversees the policy and competition development functions of IDA, which takes charge of developing and implementing infocomm related policies and frameworks to enhance the vibrancy and competitiveness of the infocomm sector in Singapore. Ms Chia is also a member on the Personal Data Protection Commission. The Commission is set up to promote and enforce personal data protection so as to foster an

environment of trust among businesses and consumers, contributing to a vibrant Singapore economy.

During Day 1 of the Retreat, executives will discuss the changing market dynamics and rules of the game to identify adaptive measures to support investment and innovation in a digital economy.

9:00 – 9:30

WELCOME AND OPENING SESSION

- **Mr Brahima Sanou**, Director of the Telecommunication Development Bureau (BDT), ITU
- **Mr Keng Thai Leong**, Deputy Chief Executive & Director-General (Telecoms & Post) of the Infocomm Development Authority of Singapore (IDA)

9:30 – 12:30

COMPETITION IN THE DIGITAL AGE

- How to maintain a level playing field among all ICT players in a borderless digital world? Balancing ex-ante remedies with ex-post regulation, should competition strategies be different from one market to another? Is the digital ecosystem calling for a shift towards a general competition framework or towards the creation of a new framework for the ICT sector?
- The essentials: attracting infrastructure investment, sharing strategies and open access models
- Net neutrality: traffic management practices, ensuring competition among ISPs (including telecom operators)
- Preventing anti-competitive behaviors and enforcement measures in a globalized world, what can national ICT regulators do?

Interveners:

- **Malcom Webb**, Partner, WebbHenderson
- **Andy Haire**, Chairman, AJH Communications
- **Bruno Lanvin**, Executive Director, INSEAD

WEDNESDAY

12:30 – 14:00 LUNCH

14:00 – 17:00 **THE CHANGING RULES OF THE GAME**

- Overview of the different types of over-the-top (OTT) services, their core business models, the differences between traditional telecom and OTT businesses and regulatory frameworks
- How to build synergies between OTT players and ICT network operators? Is regulatory intervention needed? Or, are commercial agreements the answer?
- How to treat interactive online multimedia services?
- Regulation of overseas suppliers versus domestic players and their enforcement
- Let start here today! Strengthening cooperation at all levels, for example, roaming, network security and managing OTT services, regulatory exchange, etc.

Interveners:

- **Mira Burri**, Senior Research Fellow and Lecturer in law, World Trade Institute (University of Bern)
- **Malcom Webb**, Partner, WebbHenderson

Day 2 will focus on understanding the importance of data in a digital world, its impact on societies, what it means from a regulatory perspective and how to balance smart innovation with consumer protection measures.

9:00 – 12:00

SMART CITIES AND OPEN DATA: WHEN BIGGER IS SMARTER

- Smart sustainable cities: defining the concept, its attributes, the infrastructure involved, the importance of integrated management and the role of ICTs
- The importance of data for Smart cities development and the need for anonymization and open data
- Smart policies and regulation, what regulatory framework needs to be put in place to foster the development of smart sustainable cities?
- The role of the ICT regulator as facilitator
- Brief introduction to the ITU training modules on Smart Sustainable cities

Interveners:

- **Sekhar Kondepudi**, Associate Professor, National University of Singapore
- **Viktor Mayer-Schönberger**, Professor, Oxford Internet Institute
- **Andy Haire**, Chairman, AJH Communications

THURSDAY

12:00 – 13:30

LUNCH

13:30 – 16:30

BIG DATA FOR BETTER DECISIONS

- Big data versus open data
- Understanding the business models behind the rush for data
- The impact of data on the digital economy and on societies
- Exploring the risks of big data (data protection, privacy, security, etc.)
- Preparing for the Internet of Things, cognitive computing, artificial intelligence, etc.
- The role of the regulator in fostering access to big data and innovative new services while ensuring security of data and consumer protection

Interveners:

- **Bruno Lanvin**, Executive Director, INSEAD
- **Viktor Mayer-Schönberger**, Professor, Oxford Internet Institute

16:30 – 18:30

VISIT TO A MUNICIPAL TOWNSHIP TO SHOWCASE PILOT SMART SOLUTIONS

On Day 3, executives will learn from Singapore's experience in the following areas:

9:00 – 10:30

SINGAPORE'S REGULATORY APPROACH IN A CONNECTED WORLD

- **Mr Leong Keng Thai**, Deputy Chief Executive & Director-General (Telecoms & Post) of the Infocomm Development Authority of Singapore (IDA)

10:30 – 12:00

MEETING TODAY'S CHALLENGES AND THE FUTURE DIRECTION OF SINGAPORE'S DATA PROTECTION LAW

Security, privacy, data protection and awareness raising

- **Ms Aileen Chia**, Personal Data Protection Commission, Singapore

12:00 – 13:00

CONCLUDING AND CLOSING DISCUSSION: THE ROLE OF THE REGULATOR TODAY AND IN PREPARING FOR TOMORROW

This concluding session will provide interveners and participants with an opportunity to hold concluding discussions on the role of the regulator today and in getting ready for tomorrow by bringing together forward looking approaches and regulatory measures identified over the course of the Retreat as well as measures to strengthen global collaboration.

This session will also serve to identify topics to be covered in the next Retreat.

13:00 – 14:00

CLOSING LUNCH





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Place des Nations, 1211 Geneva 20, Switzerland