



# SMART NATION

## Many Smart Ideas · One Smart Nation

Singapore aspires to be a Smart Nation, one that will improve the quality of life for individuals and business opportunities for enterprises. In a Smart Nation, we also seek to create an anticipatory Government that can better serve our citizens and better use technology to enhance public services.

## MISSION

To develop information technology and telecommunications within Singapore with a view to serve citizens of all ages and companies of all sizes. IDA does this by actively supporting the growth of innovative technology companies and start-ups in Singapore, working with leading global IT companies as well as developing excellent information technology and telecommunications infrastructure, policies and capabilities for Singapore.

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# WE BUILD TECHNOLOGY, COMPANIES AND TALENTS

IDA strives to help companies build and use technology to drive economic growth. In addition, we nurture the next generation of tech talents by encouraging a culture of experimentation and invention, sparking the growth of innovation.

# WE GOVERN TO STRENGTHEN INFRASTRUCTURE AND COMPETITION

Adopting a pro-business and pro-consumer approach, IDA governs the industry through regulations and policies that allow innovation to thrive and ensure resilient connectivity. This helps to bring about an open and competitive tech landscape.





# WE DELIVER A SEAMLESS DIGITAL EXPERIENCE

IDA plays a key role in delivering a seamless digital government experience to users, through anticipating needs and co-creating with industry and citizens. Making processes smooth and efficient, these innovative services improve business operations and the lives of citizens.

# CHAIRMAN'S MESSAGE



The launch of Singapore's Smart Nation vision in late 2014 can be seen as an ambitious, but logical next step for the country. Successive masterplans have brought us to this point, where Singapore is one of the top countries in ICT-enablement, pairing a strong digital government with a vibrant tech ecosystem.

In this year's World Economic Forum Global IT Report, Singapore ranked No. 1 among 143 countries in the Networked Readiness Index, after placing second for five years running.

We are a highly-connected nation, and our people are taking to technology in a big way. On average, there are three mobile phones for every two persons, every household has a wired broadband subscription, and the total number of wireless broadband subscriptions stands

at over 10 million in a nation of 5.5 million people.

The ICT industry remains a key pillar of Singapore's economy with revenues growing 12.8 per cent to reach S\$167.05 billion in 2014, while the sector creates jobs for some 150,200 tech professionals.

Building on this foundation, we have embarked on the Infocomm Media 2025 journey to enable and complement our Smart Nation vision. Our Infocomm Media 2025 effort will grow all components of this enabling ecosystem: infocomm media infrastructure, agile enterprises, skilled manpower, cutting-edge technology and world-leading R&D capabilities.

## **BUILDING A SMART NATION**

As Singapore celebrates its 50<sup>th</sup> birthday as a successful and highly developed

country, citizens expect standards of public service delivery to keep up with the best in the world and they want to be more engaged in decision-making processes that affect them.

In response, the Government has embarked on a public sector-wide transformation effort to be One Trusted Public Service with Citizens at the Centre. As part of this transformation, we must find ways to make better use of technology to improve service delivery, anticipate demands, improve citizen engagement and manage the city better. The commitment to be a Smart Nation was thus born.

Championed by Prime Minister Lee Hsien Loong, the Smart Nation is a national initiative aimed at solving urban living challenges and improving lives through the better use of technology. Government agencies are participating in a Whole-of-Government way, working on delivering services in a seamless manner. Private sector companies want to join the effort, as they aim to remain globally competitive and know that they must leverage technology to enable them to do so.

IDA is deeply involved in strategising the Smart Nation agenda and works directly on many of the projects. We are building a Smart Nation Platform, leveraging the Nationwide Broadband Network to create a sensor network that forms the infrastructure backbone of the Smart Nation. We are working with agencies and companies to harness the power of data and analytics in projects ranging from smart queue monitoring and smart navigation to autonomous vehicles. To date, 15 trials involving more than 20 partnering companies and various public agencies have been launched as part of the Smart and Connected Jurong Lake District initiative.

As we collect more data and learn to better analyse it for insights, we also need to strengthen its governance to assure citizens that their personal data is safeguarded. To this end, the Personal

Data Protection Act, which came into effect in July 2014, helps ensure that personal data collected by organisations is secured and privacy is protected. We are also investing in better cybersecurity capabilities and working with partners, such as the Cyber Security Agency of Singapore, to increase the resilience of our ICT infrastructure and systems in a hyper-connected Smart Nation.

### CATALYSING INNOVATION

As part of IDA's "Build" agenda, our other key mandate is to catalyse innovation by driving the creation of successful start-ups and new enterprises.

At this stage of Singapore's economic and ICT industry development, we need to grow enterprises that can create disruptive tech solutions to solve global urban challenges. This means creating an ecosystem of venture capitalists, incubators, mentors and experienced managers to support our technopreneurs and providing our start-ups with opportunities to build up their track record. This ecosystem has developed over the last decade, and its vibrancy today is clear and growing stronger. The steady growth in high-quality tech start-ups will attract more interest from the international venture capital community, feeding a cycle that creates more jobs and introduces more disruptive innovations into the digital economy.

The Accelerator and Accreditation programmes are two important initiatives that we have introduced to further these goals. The Accreditation programme helps promising Singapore-based tech companies to build credentials so that they are better positioned to win projects from government agencies and large enterprises. To date, eight companies have been accredited, and two have gone on to win government projects. Under our two Accelerator partnerships, mentors have provided guidance to more than 40 tech start-ups, pushing them to scrutinise their own value propositions and fine-tune their business models.

Within IDA, we are encouraging a culture of experimentation through the IDA Labs, which serve as physical lab spaces for individuals, companies, and government agencies to collaborate, generate ideas and develop new technologies for test-bedding.

Going forward, we would like to focus our R&D efforts and catalyse entrepreneurial activities around three areas - the digital consumer, digital enterprise and Smart Nation. This encompasses technologies such as predictive and behavioural analytics, machine learning, sensor technologies, modelling and simulation and many more. By setting out these priorities, we hope to help players in the ecosystem decide which areas they should invest in.

### REBUILDING ENGINEERING CAPABILITIES

As we roll out the Smart Nation, we will also need to enhance engineering capabilities and build up expertise in science and technology. IDA's Government Digital Services team is leading the way by building software applications internally. It has speeded up the development cycle and allowed Government to launch important applications fast. One example, the Singapore Civil Defence Force's MyResponder, is able to inform trained civilian responders who sign up if a person nearby has collapsed from a cardiac arrest. Launched recently, it has already been able to save lives. IDA intends to expand its team of developers, as part of the Government's efforts to enhance engineering and computer science capabilities within the public sector.

To foster an interest in engineering, science and technology areas from a young age, IDA also launched the Code@SG Movement. This is a set of programmes and activities to introduce coding and computational thinking skills to students and the masses. To date, 23,500 students have benefitted from the movement and we hope to reach out to a total of 72,000 students by next year.

On a related note, we are reaching out to the young through the Lab on Wheels, a 40-seater bus converted into a mobile tech laboratory that has been making its rounds at schools. Over the next two years, the bus is expected to reach out to 16,000 students from 80 primary schools to spark their interest in tech and innovation.

We will also help our ICT professionals to improve their tech expertise with niche skills that are in demand. In 2014, more than 240 tech professionals have benefitted from the Company-Led Training and Centre of Attachment programmes, deepening their specialist skills especially in the areas of data analytics, cybersecurity, Smart Nation Platform infrastructure and application development.

By strengthening tech expertise both within and outside of IDA and by partnering public agencies and the wider tech ecosystem, we will be well positioned to seize this big opportunity to once again reshape Singapore – as a Smart Nation, a global city and The Best Home For Our People.

The future is a very exciting one. Over the past year, members of the IDA Board and all our IDA staff have contributed in different ways towards the Smart Nation vision. We would not have achieved what we have, without their talent, dedication and initiative. We have been bold and broken new ground, while maintaining the highest standards of governance. I would like to thank everyone for their effort and I look forward to our working together to transform our Smart Nation vision into reality.



**Yong Ying-I**  
Chairman, IDA

# INFOCOMM STATISTICS

## INDUSTRY

The infocomm industry revenue

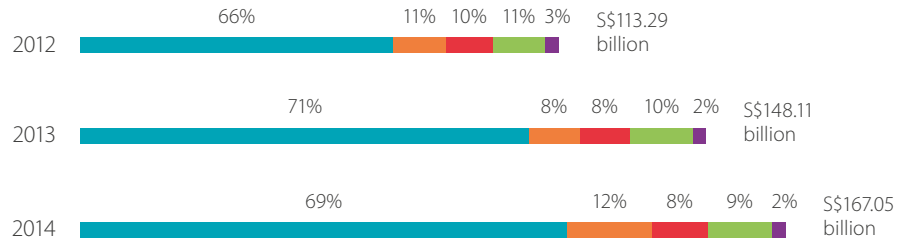
grew by **12.8%** to reach **S\$167.05 billion** in 2014.

- Hardware
- Software
- Telecommunication Services
- IT Services
- Content Services

Source: Annual Survey on Infocomm Industry

\* Note: Figures may not sum up to 100% due to rounding.

TOTAL INFOCOMM INDUSTRY REVENUE BY MARKET SEGMENT (2012-2014)\*



## MANPOWER

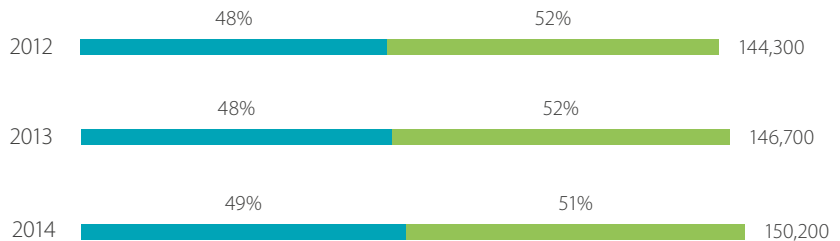
The employed infocomm manpower

reached **150,200**, which is a 2.4 per cent increase over the previous year.

- Infocomm Organisations
- End-user Organisations

Source: Annual Survey on Infocomm Manpower

NUMBER OF EMPLOYED INFOCOMM MANPOWER (2012-2014)



## TELECOMMUNICATIONS

The mobile phone penetration rate

was **148%**, while the number of broadband subscriptions increased **8.3%** to reach **11,537,200**.

- Mobile Phone Penetration Rate
- Number of Broadband Subscriptions

Source: Statistics on Telecom Services

# As of December of each year

STATISTICS ON TELECOM SERVICES (2012-2014)#





## USAGE

The proportion of households with Internet access reached **88%**.

- Computer Access
- Internet Access
- Broadband Access

Source: Annual Survey on Infocomm Access in Households and by Individuals

\* Resident Households refer to households with at least one Singapore Citizen or Permanent Resident.

### INFOCOMM ACCESS IN RESIDENT HOUSEHOLDS (2012-2014)\*



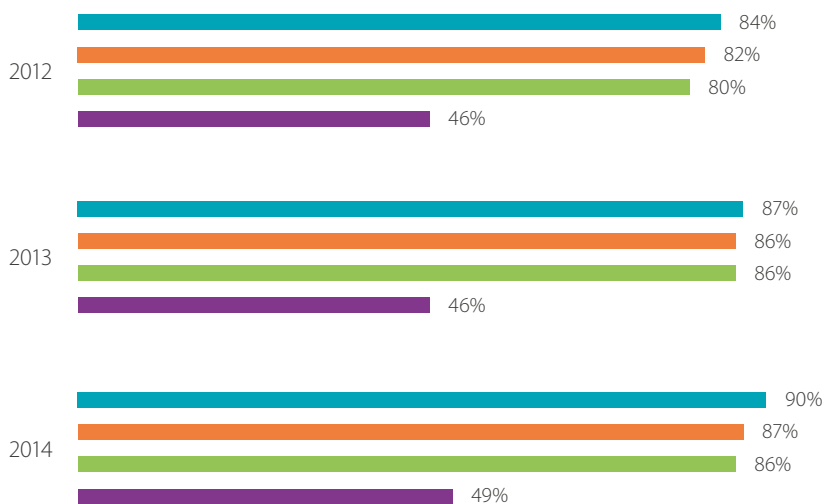
## USAGE

Enterprise usage of computers grew to **90%**, while **86%** used broadband access.

- Computer usage
- Internet usage
- Broadband usage
- Web presence

Source: Annual Survey on Infocomm Usage by Enterprises

### INFOCOMM USAGE BY ENTERPRISES (2012-2014)



# HIGHLIGHTS 2014

**9 April**  
**Showcasing Singapore tech at COMEX 2014**

IDA led a delegation of Singapore tech companies to Oman's leading IT and telecoms show, where they presented their solutions and participated in an eGovernment seminar.



**9 April**  
**Delivering digital services for Oman's Ministry Of Manpower**

IDA International signed an agreement with the Information Technology Authority and Ministry of Manpower of the Sultanate of Oman to deliver digital services for the manpower ministry.

**9 April**  
**Sparking innovation at IDA Labs**

IDA Labs opened at IDA's office and the National Design Centre, providing a place for experimentation, collaboration and building innovative products and solutions.



**April**  
**Developing coding as a national capability**

The Code@SG movement was introduced to bring coding and computational thinking to students from an early age. It has since benefitted 23,500 students.

**26 May**  
**Engaging youths on infocomm security**

The National Infocomm Security Competition, part of the Cyber Security Awareness campaign, is aimed at encouraging adoption of good cyber security practices.

**27 May**  
**Collaborating with industry to deliver citizen-centric services**

Themed "Infocomm Initiatives in the Public Sector", the annual Industry Briefing provided over 800 attendees first-hand details on collaborative opportunities through \$1.2 billion worth of ICT tenders.

**30 May**  
**Providing more flexible workspace options**

The first three Smart Work Centres officially opened at public libraries, offering a professional work environment that is conveniently located to facilitate work-life balance and boost productivity.

**17 June**  
**Laying the foundations for a Smart Nation**

IDA announced the Smart Nation Platform, which will bring together a nationwide sensor network and data analytics capabilities for stronger situational awareness, enabling better creation and delivery of citizen-centric government services.

**17 June**  
**Building an ICT manpower masterplan for Brunei Darussalam**

IDA International signed an agreement with the Authority for Info-communications Technology Industry of Brunei Darussalam to provide consultancy services for a national ICT manpower masterplan and training in ICT industry competency framework.



**7 July**  
**Mentoring start-ups for success**

The first 12 start-ups graduated at Demo Day from an accelerator programme run by JFDI.Asia, in partnership with IDA subsidiary Infocomm Investments, with many going on to raise seed funding faster and at higher company valuations.

**17 July**  
**Creating an interest in coding and robotics**

The Robotics & Maker Academy was launched in partnership with Singapore Polytechnic to equip 10,000 primary and secondary school students with computational thinking skills and basic understanding of coding and robotics.



**23 July**  
**Gaining real-world experience through CLT**

62 fresh professionals were presented certificates for completing the Company-Led Training programme.



**29 July****Helping start-ups build credentials**

The Accreditation@IDA programme went live, helping young and promising Singapore companies build their credentials to handle projects by government agencies and large enterprises.

**5 August****Encouraging computational thinking**

More than 250 participants took part in the 24-hour code::XtremeApps programming competition which was aimed at creating greater hands-on interest in technology.

**6 August****Upgrading data sciences and analytics skills**

There was strong response for IDA's inaugural Massive Open Online Course on data science, which allows working professionals to learn or upgrade their skills in this area.

**20 August****Making it easier for SMEs to harness ICT**

iSPRINT was enhanced to incorporate the ICT for Productivity and Growth programme and support SMEs in the piloting of new solutions, scaling up proven sectoral solutions and leveraging high-speed connectivity.

**21 August****Supporting promising talents through scholarships**

To build up Singapore's pipeline of ICT talent, IDA awarded 20 Integrated Infocomm Scholarships and 20 National Infocomm Scholarships to students.

**21 August****Telling the Singapore story with data**

To commemorate SG50, the Data Visualisation Challenge was launched and participants were encouraged to use government datasets to create innovative visualisations that illustrate Singapore's evolution. The finals were held on 31 October.

**6 September****Sharing tech experiences with youths**

More than 500 youths participated in the first-ever Tech Fest to hear professionals from global tech companies, start-ups and local tech groups share their experiences and advice.

**26 August****Reinforcing security awareness**

The Infocomm Security Seminar focused on the public and private sectors' need to be vigilant against evolving cyber security threats and to build capabilities to secure digital assets.

**28 September****Equipping seniors with infocomm skills**

More than 5,000 seniors took part in the annual Silver Infocomm Day, where they picked up ICT skills through seminars, hands-on workshops and exhibitions.

**28 September****Boosting digital inclusion**

The Digital Inclusion Fund was announced to support programmes that provide affordable fibre broadband connectivity for low-income households and encourage voluntary welfare organisations to adopt IT solutions.

**1 October****Helping businesses get started on security**

IDA started the trial of the Infocomm Security Starter Kit, an online self-help tool that enables businesses to assess their IT security plans, such as network security and governance.

**9-12 October****Learning about cyber threats across all ages**

The Cyber Security Expo 2014 provided an immersive experience for the public to learn about various cyber security threats and cyber security practices to adopt.

**15 October**  
**Crowdsourcing feedback on mobile broadband experiences**

IDA launched the pilot for a mobile app, MyConnection SG, which engages consumers to find out more about their mobile broadband usage experience and identify areas for service improvement.

**20 October**  
**Monitoring consumer satisfaction with telecom services**

The 2014 Consumer Awareness and Satisfaction Survey indicated that consumers in Singapore were generally satisfied with telephone and broadband services, both fixed and mobile.

**21 October**  
**Anchoring Europe's top FinTech accelerator in Singapore**

Startupbootcamp FinTech launched the Asian version of its successful London FinTech accelerator programme in Singapore to grow a strong pipeline of financial technology start-ups here.

**21 October**  
**Bridging Singapore and London tech communities**

Infocomm Investments Pte Ltd (IIPL) launched its London presence, providing partnership opportunities for Singapore and London tech start-ups to access each other's markets.



**28 October**  
**Boosting the data ecosystem with DaaS**

A Data-as-a-Service (DaaS) pilot was launched using a federated approach to help data providers increase the visibility of their datasets and reach out to new customers.

**28 October**  
**Securing accreditation**  
 V-Key, Tagit and Kai Square broke new ground for Singapore tech companies when they became the first companies to receive accreditation under the Accreditation@IDA programme.

**28-29 October**  
**Discussing how Data Works**  
 The two-day Smart Nation: Data Works brought together leading data experts, specialists and industry leaders to provide insights into how organisations use data and effective analytics strategies.

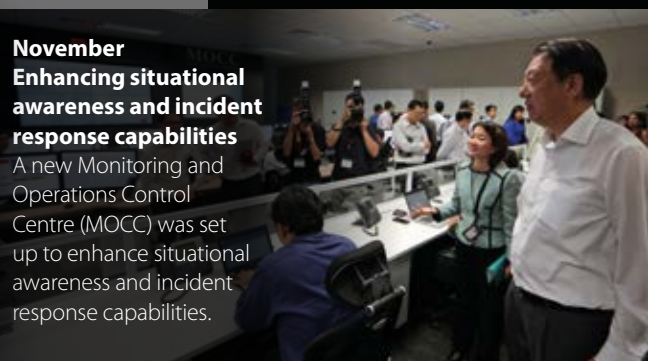
**29 October**  
**Stepping up efforts to drive cloud adoption**

IDA enhanced the Cloud Service Provider Registry with analytics on cloud service performance and availability and introduced accreditation for Multi-Tier Cloud Security Standard certification bodies.



**November**  
**Enhancing situational awareness and incident response capabilities**

A new Monitoring and Operations Control Centre (MOCC) was set up to enhance situational awareness and incident response capabilities.



**1 November**  
**Paving the way for innovative use of TVWS**

Regulations were introduced for the use of spectrum in the TV White Space, providing business certainty for companies looking to roll out innovative applications and services over TVWS.

**8 November**  
**Bringing fun tech to primary school students**

IDA launched Lab on Wheels, a 40-seater bus retrofitted with engaging technology to provide primary school students with a fun way to learn tech and spark their interest in a tech career.



### 24 November Reinforcing Singapore's commitment to Smart Nation vision

Prime Minister Lee Hsien Loong officially launched the vision and made the call for a whole-of-Government, whole-of-nation approach to building a Smart Nation.



ENCE IN INFOCOMM INNOVATION

### 24 November Achieving recognition for ICT innovation

12 private and public organisations won the prestigious National Infocomm Awards for the development of innovative infocomm products and solutions, and for the innovative use of ICT.



## HIGHLIGHTS 2015

### January Enhanced Cyber Watch Centre

The enhanced Cyber Watch Centre features new capabilities such as website monitoring and malware protection, strengthening the government's detection and analytical capabilities against cyber threats.

### 1 January Reducing roaming rates for mobile subscribers

IDA and Brunei Darussalam's ATI worked with mobile operators in their respective countries to reduce roaming rates for voice calls, SMS, video calls and data.

### 21 January Fostering partnerships between Singapore and US start-ups

IPL's new office in San Francisco offers collaborative space, and entrepreneurial and business activities to strengthen links between the Singapore and US start-up communities.

### 23 January Facilitating HetNet trials for seamless wireless connectivity

To facilitate trials for Heterogeneous Network (HetNet) deployments, IDA offered short-term availability of some Time Division Duplex spectrum in the 2.3 GHz and 2.5 GHz band.

### 25 January Facilitating feedback on municipal issues

The OneService app developed by the Municipal Services Office and IDA automatically sends feedback on various issues to the relevant agency, bringing about more timely response.

### 11 February Growing digital media start-ups

IPL signed a Memorandum of Understanding with Singapore Press Holdings and global accelerator Plug and Play to run a corporate accelerator programme for Singapore-based digital media start-ups.



### 11 February Creating a BASH for start-ups

Singapore's biggest integrated start-up facility, BASH (Build Amazing Startups Here), was launched as the go-to place for tech builders, investors and innovators.

### 13 February Providing greater transparency on 4G performance

IDA's survey of mobile network operators' 4G network performance showed that nationwide outdoor street-level coverage was achieved 18 months ahead of the June 2016 timeline.

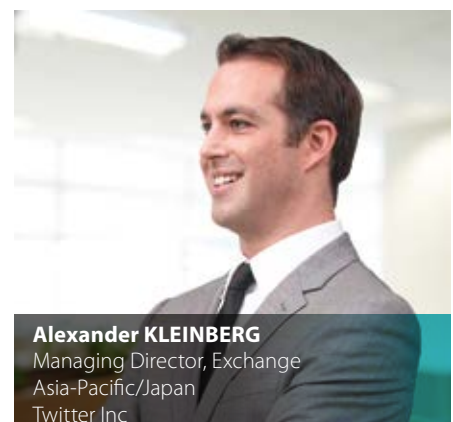
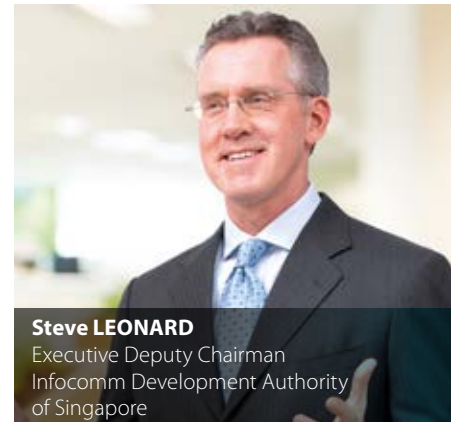
### 12 March Helping retailers reach out to online customers

A seminar on Enabling Digital Retail was organised as part of IDA's e-commerce initiative to help small enterprise retailers and wholesalers learn strategies and best practices.

### 18 March Bridging both the IT and generation divide

More than 420 seniors were guided through IT basics at the Intergenerational IT Bootcamp held at the Tanjong Pagar Group Representation Constituency and Radin Mas Single Member Constituency.

# BOARD OF DIRECTORS





**Dr Bruno LANVIN**  
Executive Director, Global Indices  
INSEAD



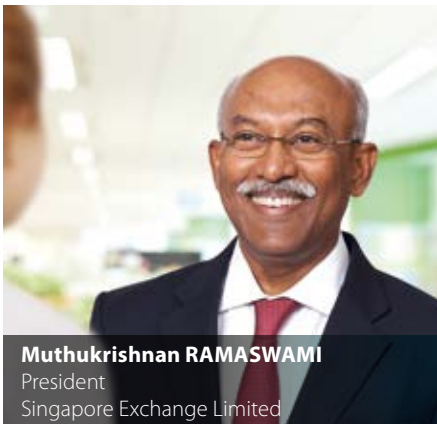
**Gabriel LIM**  
Chief Executive Officer  
Media Development Authority of Singapore



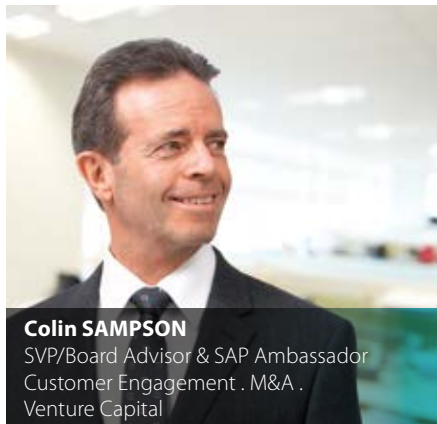
**NG Cher Pong**  
Chief Executive  
Singapore Workforce Development Agency



**Jimmy PHOON**  
Chief Executive Officer &  
Chief Investment Officer  
SeaTown Holdings International Pte Ltd



**Muthukrishnan RAMASWAMI**  
President  
Singapore Exchange Limited



**Colin SAMPSON**  
SVP/Board Advisor & SAP Ambassador  
Customer Engagement . M&A .  
Venture Capital



**Shirley WONG**  
Managing Partner  
TNF Ventures Pte Ltd



**Janet YOUNG**  
Managing Director & Head  
Group Channels & Digitalization  
United Overseas Bank Group

*Until 7 Dec 2014*

- **KOH Lin-Net**, Former Chief Executive Officer, Media Development Authority of Singapore

*From 8 Dec 2014*

- **Gabriel LIM**

# SENIOR LEADERSHIP TEAM



**Steve LEONARD**  
Executive Deputy Chairman



**Jacqueline POH**  
Managing Director



**LEONG Keng Thai**  
Deputy Chief Executive &  
Director-General (Telecoms & Post)



**Fiona CHUA**  
Chief Financial Officer,  
Finance, Investment &  
Procurement Group



**FOO Shu Ching**  
General Counsel,  
Group Legal



**Lena GOH**  
Chief Marketing &  
Communications Officer,  
Corporate & Marketing  
Communication





**CHAN Cheow Hoe**

Assistant Chief Executive,  
Government Chief  
Information Office



**Aileen CHIA**

Assistant Chief Executive &  
Deputy Director-General  
(Telecoms & Post)



**KHOONG Hock Yun**

Assistant Chief Executive  
(Development) &  
Chief Data Officer



**Prof TOH Chai Keong**

Assistant Chief Executive,  
Engineering & Technology  
Group



**June KOH**

Director,  
Strategic Planning,  
Policy and Research &  
Human Capital Development



**LAU Yin Cheng**

Cluster Director,  
Human Resource &  
Organisation Development  
Cluster



**TAN Eng Pheng**

Senior Director,  
Clusters Group

From 23 Jun 2014 **Lena GOH**

From 8 Sep 2014 **Prof TOH Chai Keong**

From 8 May 2015 **FOO Shu Ching, June KOH, LAU Yin Cheng**

# MEMBERS OF IDA BOARD COMMITTEES

## Audit & Risk Committee (AC)

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**Muthukrishnan  
RAMASWAMI**

Chairman

**Gabriel LIM**

**Colin SAMPSON**

**LEE Ah Boon**

Co-opted member

## Budget & Projects Review Committee (BPRC)

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**NG Cher Pong**

Chairman

**Dr Lily CHAN**

**Eddie CHAU**

**Alexander KLEINBERG**

**Dr Bruno LANVIN**

**Shirley WONG**

## Human Resource & Remuneration Committee (HRRC)

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**YONG Ying-I**

Chairman

**Janet ANG**

**Steve LEONARD**

**TAN Li-San**

Co-opted member

## Investment Committee (IC)

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**Jimmy PHOON**

Chairman

**Jacqueline POH**

**Janet YOUNG**

**Madeleine LEE**

Co-opted member

# SUBSIDIARIES

## IDA International Pte Ltd

IDA International is a wholly-owned subsidiary of the Infocomm Development Authority of Singapore (IDA) and serves as the execution arm for collaborations on public service infocomm between Singapore and countries around the world. IDA International helps public agencies in other countries deliver better socio-economic outcomes through infocomm by providing services such as eGovernment consultancy, national masterplanning, industry and cluster development, and management of public service infocomm programmes. It also assists its foreign government counterparts to better understand and benefit from Singapore's unique experience and know-how through knowledge transfer - enabling them to implement their programmes successfully.

## IDA International Board Members



**Asad JUMABHOY**  
Chairman  
Director  
*Tangerine Time Pte Ltd*



**WU Choy Peng**  
Deputy Chairman  
Group Chief Information Officer  
*Singapore Telecommunications Ltd*



**Steve LEONARD**  
Executive Deputy Chairman  
*Infocomm Development Authority of Singapore*



**Jimmy PHOON**  
Chief Executive Officer &  
Chief Investment Officer  
*SeaTown Holdings International Pte Ltd*



**Jacqueline POH**  
Managing Director  
*Infocomm Development Authority of Singapore*



**Anthony TAN**  
Executive Vice President  
Chinese Media Group  
*Singapore Press Holdings Ltd*



**TAN Li San**  
Deputy Secretary  
(Industry & Information)  
*Ministry of Communications and Information*



**Vincent WONG**  
Chief Executive Officer  
*IDA International Pte Ltd*

# SUBSIDIARIES

## Infocomm Investments Pte Ltd

Infocomm Investments Pte Ltd (I IPL) builds and invests in Singapore and global infocomm technology start-ups. Managing more than S\$200 million, it accelerates the development of start-ups in their formative phase, and invests further as they move towards growth and expansion. I IPL plays a central role in building a vibrant and sustainable ecosystem in Singapore for start-ups to flourish through its investments, partnerships across sectors and global reach. I IPL is a wholly-owned subsidiary of the Infocomm Development Authority (IDA) of Singapore.

## I IPL Board Members



### Steve LEONARD

#### Chairman

Executive Deputy  
Chairman  
*Infocomm Development Authority  
of Singapore*



### Andrew KHAW

Senior Director  
Productivity Growth through ICT  
*Infocomm Development Authority  
of Singapore*



### LEE Kheng Nam

Deputy Chairman & Director  
*Vertex Venture Holdings Ltd*



### SAW Ken Wye

Chief Executive Officer  
*CrimsonLogic Pte Ltd*



### Selwyn Sean SCHARNHORST

Director  
Industry Division  
*Ministry of Communications and  
Information*



### Jeremy TAN

Chief Executive Officer  
*Korvac Holdings Pte Ltd*



### James TONG

Chief Executive Officer  
*Movitech*

# SUBSIDIARIES

## Singapore Network Information Centre (SGNIC) Pte Ltd

As the national registry for “.sg” domain names, the Singapore Network Information Centre (SGNIC) Pte Ltd administers the Internet domain name space in Singapore, formulating policies pertaining to “.sg” registrations and administering the registration of second-level and third-level domain names through its accredited registrars. There are more than 172,000 domain names under SGNIC’s management, which include Internationalised Domain Names that end with “新加坡” and “சிங்கப்பூர்”, the Chinese and Tamil equivalents of “.sg” respectively. SGNIC also provides consultancy services in setting up a country-code top level domain registry and fosters closer collaboration amongst the global Internet community. SGNIC has been chairing the Asia Pacific Top Level Domain (APTLD) organisation since the beginning of 2014.

### SGNIC Board Members



**LEONG Keng Thai**  
Chairman  
Deputy Chief Executive &  
Director-General  
(Telecoms & Post)  
Infocomm Development  
Authority of Singapore



**CHAN Cheow Hoe**  
Assistant Chief Executive  
Government Chief  
Information Officer  
Infocomm Development  
Authority of Singapore



**Aileen CHIA**  
Assistant Chief Executive &  
Deputy Director-General  
(Telecoms & Post)  
Infocomm Development  
Authority of Singapore



**LIEW Woon Yin**  
Director  
Abundanti



**Christopher NG**  
Assistant Chief Executive  
(Regulatory)  
Media Development Authority  
of Singapore

## Assurity Trusted Solutions Pte Ltd

Assurity Trusted Solutions Pte Ltd (“Assurity”) is a wholly-owned subsidiary of the Infocomm Development Authority of Singapore (“IDA”). It was incorporated to operate the National Authentication Framework (NAF), a project to improve the security of consumers performing online transactions. It is supported by the Monetary Authority of Singapore and various regulators such as the Ministry of Finance and the Ministry of Health. NAF is part of IDA’s Intelligent Nation 2015 vision, which includes developing a secure and trusted infocomm infrastructure. As one of the key initiatives of the Infocomm Security Masterplan and the National Trust Framework, NAF will facilitate the delivery of safe online services offered by the public and private sectors.

### Assurity Board Members



**Jacqueline POH**  
Chairman  
Managing Director  
Infocomm Development  
Authority of Singapore



**Eddie CHAU**  
Co-Founder &  
Chairman  
V-Key Inc



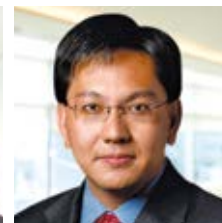
**CHUA Foo Yong**  
Former Vice Chairman  
Singapore Media  
Academy



**Charles FAN**  
Chief Executive Officer  
Assurity Trusted  
Solutions Pte Ltd



**Bruce LIANG**  
Chief Information Officer  
Ministry of Health and  
MOH Holdings Pte Ltd



**Selwyn Sean SCHARNHORST**  
Director  
Industry Division  
Ministry of  
Communications and  
Information

Until 3 Jun 2014  
Until 31 Jan 2015

**LIM Hup Seng**, Former Executive Chairman, Assurity Trusted Solutions Pte Ltd  
**CHONG See Lee**, Former Head, Internal Audit Department, MINDEF

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The mission of the Infocomm Development Authority of Singapore (IDA) is to develop information technology and telecommunications within Singapore with a view to serve citizens of all ages and companies of all sizes. IDA does this by actively supporting the growth of innovative technology companies and start-ups in Singapore, working with leading global IT companies as well as developing excellent information technology and telecommunications infrastructure, policies and capabilities for Singapore.

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