

Thematic Workshop



Partnering for Success: Creativity and Professionalism in Delivering Trustworthy ICT (IFIP IP3)

Monday 25 May 2015

09:00 – 10:45

Room C1

Managing the risks of ICT the global profession. The undesired consequences of leaving ICT to just anybody; the role of governments in building the knowledge economy.

“Given the reach of ICT in our lives, it is important for an ICT professional to be technically strong (in order to use the right technology for the relevant problem) ethically grounded (to ensure that technology is put to the right use), socially conscious (so that the technical solution takes into consideration elements of sustainability) and business savvy (to ensure commercial viability which is required for social prosperity and funding of new developments).”

- Tan Moorthy InfoSys, GIC

“It’s quite important for us to look at this issue [professionalism] and try to work with our members to increase those skills and proficiencies.”

- SG Houlin Zhao

“... I think with the degree of software that we’re surrounded by everywhere, that at some point we may be called to task for failing to do something that protects people’s interests and there may be liability, and as soon as that happens I think that some point of accreditation will be inescapable”

- Vint Cerf, Internet Pioneer



Debated Issues

- Is there a need for an ICT profession now?
- What is the role of governments in professionalising ICT practice
- What role can IFIP IP3 play in assisting countries that recognise the benefits of a having a professional ICT workforce

Key achievements and challenges shared by the audience and/or panellists:

- Risks are present in everyday systems which are not managed sufficiently well
- Software systems failures in air, land systems eg Boeing 787 inflight control glitch which can bring down the plane
- The global economy is on the cusp of a dramatic growth spurt driven by smart machines that finally take full advantage of advances in computer processing, artificial intelligence, networked communication and the digitization of just about everything.

- Exponential growth: computing power, digital information, cheap IoT communicating, Big Data, unlimited speed, data recombination, ubiquity
- Future needs:
 - Driving greater demand for high-level programmers
 - An education system focussed on PROFESSIONALISM skills for smart machines,
 - Ethical conduct
 - Accountability, credentialing, professional development, quality assurance
- Solutions include:
 - Collaboration with partners is the key
 - Rigorous standards of practice
 - Professionalism in those who create, manage and operate computing systems

Main Outcomes of the Session highlighting

- Governments have a significant role in professionalising the ICT workforce globally
- Countries need assistance in creating a professional ICT workforce?
- Trustworthy computing requires professionalism in ICT as evidenced in the emphasis being placed on security issues
- Governments will be required to consider some form of regulation in specific high risk areas EG USA's move from 10 states to 40 within 12 months to regulate and licence software engineering

The vision for implementation of WSIS Action lines beyond 2015:

Preparing the WSIS stakeholders in achieving progress with respect to AL C3, C4, C5, C10, C11

Main linkages with the Sustainable Development Goals:

The SDGs linked in the matrix to AL C3, C4, C5, C10, C11.

Emerging Trends related to WSIS Action Lines identified during the meeting

- Governments will be required to consider some form of (co) regulation and licencing in specific high risk areas of ICTs
- Governments can benefit from utilising mutual recognition

Suggestions for Thematic Aspects that might be included in the WSIS Forum 2016

The time is fast approaching for a high level event around the subject of professionalism and trustworthy computing and the use of mutual recognition schemes to evaluate and recognise individual countries professionalism in ICT programs.

Panellists:

- Brenda Aynsley OAM, ACS Fellow, CP Chair IFIP IP3 - *Managing the risks of ICT the global profession. The undesired consequences of leaving ICT to just anybody; the role of governments in building the knowledge economy.*
- Stephen Ibaraki FCIPS, I.S.P., MVP, DF/NPA, CNP - *The evolving dependence on ICTs in the Second Machine Age*
- Moira de Roche IITPSA Fellow and Board Director - *IFIP IP3 developing global partnerships to deliver the gold standard of professionalism*

Session's link to WSIS Action Lines:

- C1. The role of public governance authorities and all stakeholders in the promotion of ICTs for development
- C4. Capacity building
- C5. Building confidence and security in the use of ICTs
- C6. Enabling environment
- C10. Ethical dimensions of the Information Society
- C11. International and regional cooperation