WSIS Forum 2018 OUTCOME DOCUMENT

Template for Submission of Executive Summaries for

Thematic/Country Workshop/ Action Line Facilitation Meetings/ Interactive Sessions/ High Level Dialogues/Publication Releases/Briefings

Deadline: Thursday 22 March, 2018
Exception: For sessions on Friday 23 March, please send at the latest 2 hours after the session
*Please note that the WSIS Forum 2018 Outcome Document will be released on the **23rd of March***
(the last day of the Forum)

1) **Title of your session**
   "ICT Professional's Duty of Care in protecting everyone in the Fourth Industrial Revolution – an essential requirement in achieving the SDGs".

2) **Name of Organization/s organizing the session**
   IFIP IP3

3) **Relevance with the WSIS Action Lines – please specify the Action lines C1 to C11** Action Line C5 – Building Confidence and Security in the Use of ICT

4) **Key achievements, announcements, launches, agreements, and commitments (these will be reflected in the press release and Outcomes Document of the WSIS Forum 2018)**
   IFIP IP3 recently Accredited the Professional certification scheme of Information Processing Society Japan. This furthers our work in developing ICT as a Global Profession, with ICT practitioners maintaining and updating their knowledge, skills and competence, and behaving ethically and being accountable to society for what they do.

5) **Main outcomes highlighting the following:**

   I.   **Debated Issues**
   - How do we get ICT providers to comply with requirements without regulation? There is some discussion about a "Hippocratic Oath" for those who create Artificial Intelligence products, but what sanction is there for those who break the oath. Compliance will come but usage – when companies and governments only employ certified professionals, it will

become a de facto requirement even though it is not legislated. The same applied to those that provide products.

- Cyber-physical systems comprise three clusters: Physical (4D printing, IoT, …), Digital (transformation), Biological (CRISPR, Cloning, Synthetic life)
- CASAL are four forms of life:
    - **C**lassic, the modern form of our species existing for tens of thousands of years and represented by panel members and member states
    - **A**ugmented, those of us, who are already augmented by technology wearables and implants
    - **S**ynthetic, early fully synthetic genomes, which are appearing in labs this year with humans appearing in under ten years
    - **A**rtificial, early AI children evidenced by Sophia (Robot), as a hint of what is to come—sharing/accelerating their development and knowledge through a Mind Cloud.
- Trust as a multi-disciplinary concept.

II. **Quotes**
   - "Predictability, consistency and transparency are all requirements for systems." Ansgar Koene, University of Nottingham
   - "There is such rapid change in technology, and we take technology for granted. When we hear about progress in Artificial Intelligence, and Robotics we realize that machines are getting smarter, but maybe also more malicious". Marilyn Cade, IGF
   - "Moore's law is kinda running out of steam … [we need quantum computing to] create all of these rich experiences we talk about, all of this artificial intelligence." Satya Nadella, Microsoft CEO (quote contained in presentation, not from audience).
   - We used to believe that the world would end by a cataclysmic natural event, such as those predicted by Nostradamus. But in the 21st Century, given our almost total reliance on technology, it is more likely that a cyber-breach could cause the end of the world as we know it." Moira de Roche, IFIP IP3 Chair (Presenter)
   - "Industry 4.0 technologies will impact all of the 17 Sustainable Development Goals.", Stephen Ibaraki, IFIP IP3 Vice-Chair (Presenter)

III. **Overall outcomes of the session highlighting**
   - We have a duty to promote Trust and the Duty of Care on both the provider and consumer side of ICT Products and services. the vision for implementation of WSIS Action lines beyond 2015.
   - The rapid developments in Artificial Intelligence make trust and security imperative – we must catch up because we are not there yet with systems already in daily use.

IV.   **Main linkages with the Sustainable Development Goals**
- Ai will Contribute to:
    - SDG! – used to track poverty levels
    - SDG3 – Diagnosis of illness
    - SDG4 – development programs and education
    - SDG8 – Micro-finance
    - SDG9 – Innovation & Infrastructure, Hybrid manufacturing using e.g. 3D printers
    - SDG 11 & 12 – Greenhous emissions & Smart Cities
    - SDG 17 – Global partnerships
- Trust & Duty of Care – Intersect all SDGs because they ultimately rely on safe, secure ICTs

V.   **Emerging Trends related to WSIS Action Lines identified during the meeting**
Action Line C7 – ICT and applications are affected by Industry 4.0 technologies

VI.   **Suggestions for Thematic Aspects that might be included in the WSIS Forum 2019**

How can we use Industry 4.0 technologies to prevent cyber-attacks

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