

## **Proposal for a BPF on Internet of Things, Big Data, Artificial Intelligence**

I - NAMES OF AT LEAST TWO CO-FACILITATORS (MAG member + non-MAG members as appropriate)

Concettina Cassa (MAG Member & Co-facilitator 2018 BPF IoT, Big Data, AI); Maarten Botterman (DC IoT Chair); Michael Nelson (Cloudflare); Alex Comminos

II - BACKGROUND

Internet of Things (IoT), Big Data, and Artificial Intelligence (AI) play a critical role in connecting, analysing and generating value from the vast variety and high volume of data generated by devices, networks and applications used by billions of users around the world.

The expectations on how IoT, Big Data and AI are going to contribute to solving complex problems and facing global challenges related to the environment, transportation, healthcare etc. are high and complement a growing list of examples of how they support individual users' daily lives.

There are however a large number of unknowns, potential impacts, risks and social and economic implications that need to be explored and ask for guidance, measures, and policies for managing the impact of applying IoT, Big Data, and AI technologies.

III - DESCRIPTION

### *Relevance and focus of a BPF on IoT, Big Data, AI*

IoT, Big Data, and AI technologies are being used in many different ways in many different fields, both in the on- and offline world. From an IGF and Internet Governance (IG) perspective, it is relevant to focus on where these technologies are being used in concert in an Internet context - an area that is growing exponentially - and explore how to stimulate development and widespread use, as well as avoid unintended negative side-effects.

### *Building on the work of the 2018 BPF IoT, Big Data, AI*

The BPF identified existing platforms and communication mechanisms for stakeholder discussion where stakeholders can cooperate to contribute to mediating problems, avoiding issues and supporting the use of IoT, Big Data, AI in the Internet.

The BPF 2018 identified a number of good practices that contribute to a more effective stakeholder dialogue dealing with IoT, Big Data, and AI in an Internet context:

- #1 Define terms narrowly
- #2 Strive to be technology neutral
- #3 Collaborate with stakeholders
- #4 Consider ethics and human rights
- #5 Watch out for bias and incomplete data sets
- #6 Make privacy and transparency policy goals and business practices
- #7 Ensure that systems are adequately secured before they get to the market

## #8 Foster technologies and business practices that empower SMEs

### Proposal for a BPF IoT, Big Data, AI in 2019

Within the IGF's remit, the BPF intends to continue to limit its scope to the growing area where IoT, Big Data and AI meet in an Internet context. Fully using its 2018 work as a starting point, the BPF proposes for 2019 to:

- Challenge and review the identified best practices and complete the report with concrete and practical examples. (e.g. in the field of healthcare, environmental protection, e-commerce, public safety, cybersecurity, and infrastructure)
- Identify existing and new ways to enhance trust in IoT, Big Data, AI applications and technologies in an Internet context
- Identify how AI can affect outcomes both in terms of social justice, and in terms of the allocation of societal resources.
- Identify how AI can complement or pose challenges to privacy and data protection as well as transparency and good governance
- Identify how IoT, Big Data, AI can contribute to achieving the UN SDGs
- Identify the impact on policies and regulations, including policy making processes, of the application of IoT, Big Data, AI applications.

#### IV - OUTREACH PLAN AND MULTISTAKEHOLDER ENGAGEMENT IN THE WORK

At the BPF workshop during the 2018 IGF meeting in Paris it was felt that the BPF, if continued, would benefit from more and more varied participation.

We envisage a broad participation from the different stakeholder groups and multi-disciplinary input, and intend to obtain this by a mix of general outreach to all interested parties and targeted outreach to existing working groups on AI related issues (e.g. ICANN, RIRs, IETF, ISOC, ITU, AgID, OECD, IEEE, UN High Level Panel on Digital Cooperation, Global Commission on Cyber Security (GCSC); Global Forum for Cyber Expertise (GFCE), the European Group on Ethics in Science and New Technologies (EGE), UNESCO, the work of the DC on IoT and other IGF intersessional activities, etc.).

Link to the 2018 BPF IoT, Big Data, AI final output:

[http://www.intgovforum.org/multilingual/filedepot\\_download/6733/1438](http://www.intgovforum.org/multilingual/filedepot_download/6733/1438)