**Executive summary, Study Group Leadership Assembly**

The second Study Group Leadership Assembly took place alongside ITU Telecom World in Budapest, 9-10 September 2019.

It brought together more than 50 participants, including Chairmen, Vice-Chairmen, Working Party leaders and Rapporteurs of TSAG and the eleven ITU-T study groups and eight focus groups, to discuss technical matters of growing strategic relevance to ITU standardization, and to identify opportunities for collaboration.

Topics considered by the assembly included the standardization needs of AI-enabled multimedia systems for health and vehicles; 5G systems and their enablers, including transport networks, network slicing, fixed-mobile convergence; the use of machine learning to manage and orchestrate networks and provision network resources and deliver data-driven networking and services; numbering, naming, addressing and identification requirements and resource assignment; and security, privacy and trust.

A year ahead of the next World Telecommunication Standardization Assembly (WTSA-20), participants reiterated the need to strengthen collaboration and cooperation among all ITU-T activities, and to share information and results more regularly and effectively. Participants also stressed the crucial role of TSAG and its rapporteur groups in assessing to what extent the current study group structure and existing mechanisms for internal and external collaboration can meet the needs of the sector.

Areas identified for closer collaboration, and for the standardization sector to take a lead in, included:

* Use of AI and machine learning for networks and services;
* Network slicing (e.g., diversity of network slices, their management and operation, identification and security requirements);
* Network functions and capabilities at the boundary of data plane, control plane and management plane (orchestration);
* A framework to benchmark AI algorithms with respect to their performance and robustness;
* Applications enabled by AI systems in health, autonomous and assisted driving;
* Numbering, naming, addressing and identification for IoT, 5G, network slicing and other technology trends;
* Identity management, ENUM, caller ID spoofing, and mitigation of other SS7 vulnerabilities;
* Security, privacy and trust for networks and network functions in the 5G era;
* Cybersecurity threat intelligence;
* Energy efficiency aspects and climate change;
* Architecture considerations and methodologies, including orchestration of various functions.

The five thematic sessions of the Study Group Leadership Assembly are summarized below in more detail. Agenda and presentation material is available at <https://itu.int/en/ITU-T/studygroups/2017-2020/Pages/sgla.aspx>.

*[include session summaries reviewed by moderators and presenters – comments on session summaries by Monday, 16 September, 9 AM]*