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| Title: ITU logo | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATION STANDARDIZATION SECTOR**STUDY PERIOD 2022-2024 | TSAG-TD109 |
| TSAG |
| **Original: English** |
| **Question(s):** | N/A | Geneva, 12-16 December 2022 |
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| **Source:** | ITU-T Study Group 5 |
| **Title:** | LS/i on information on ongoing work on green and low carbon development of Metaverse [from ITU-T SG5] |
| **LIAISON STATEMENT** |
| **For action to:** | TSAG |
| **For information to:** | ITU-T SG2, SG3, SG9, SG11, SG12, SG13, SG15, SG16, SG17, SG20 |
| **Approval:** | ITU-T Study Group 5 meeting (Rome, 27 October 2022) |
| **Deadline:** | N/A |
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A new liaison statement has been received from SG5.

This liaison statement follows and the original file can be downloaded from the ITU ftp server at <http://handle.itu.int/11.1002/ls/sp17-sg5-oLS-00057.docx>.

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|  | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2022−2024 | **SG5-LS57** |
| **STUDY GROUP 5** |
| **Original: English** |
| **Question(s):** | All/5 | Rome, 17−27 October 2022 |
| **Ref.: SG5-TD570-R1** |
| **Source:** | ITU-T Study Group 5 |
| **Title:** | LS on information on ongoing work on green and low carbon development of Metaverse  |
| **LIAISON STATEMENT** |
| **For action to:** | TSAG |
| **For comment to:** | - |
| **For information to:** | All ITU-T Study Groups |
| **Approval:** | ITU-T Study Group 5 meeting (Rome, 27 October 2022) |
| **Deadline:** | N/A |
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| **Abstract:** | This document contains information on a proposed new work item submitted to ITU‑T SG5 on green and low carbon development of Metaverse. Taking into consideration the ongoing discussion on the possible creation of a new focus group on Metaverse, ITU‑T SG5 would like to propose to TSAG to consider integrating environmental sustainability aspects in the ToR of this new FG, if it is to be created.  |

ITU-T Study Group 5 would like to inform TSAG, that ITU-T SG5 received a Contribution proposing the creation of a new work item on “Guidance on green and low carbon development of Metaverse” during its last meeting (Rome, 17–27 October 2022). The proposal was discussed within Q11/5 “Climate change mitigation and smart energy solutions”. ITU-T SG5 acknowledged the importance of green and low carbon aspects of Metaverse. During the discussion, consideration was given to developing a Recommendation or technical report on this topic. Additionally, SG5 experts considered the Liaison Statement submitted from ITU-T Study Group 17 on “the establishment of a Focus Group on the “immersive virtual universe”.

Taking into consideration the ongoing discussions and the possible creation of a new Focus Group on Metaverse (or immersive virtual universe) under TSAG, ITU-T SG5 decided to postpone the creation of the new work item proposal and seek further guidance from TSAG.

ITU-T SG5 would like to propose to TSAG that in case of the creation of the new Focus Group, to consider the environmental sustainability aspects in its terms of reference. In this regard, ITU-T members are encouraged to contribute to TSAG on this topic.

Additionally, ITU-T SG5 would like to inform TSAG that several Recommendations on E-waste and circular economy (ITU-T L.1000 series), power feeding and energy storage (ITU-T L.1200 series), energy efficiency, smart energy and green data centres (ITU-T L.1300 series), assessment methodologies of ICT and CO2 trajectories (ITU-T L.1400 series) and adaptation to climate change (ITU-T L.1500 series) could be helpful to the development of Metaverse (or immersive virtual universe) especially for environmental sustainability aspects.

ITU-T Study Group 5 looks forward to collaborating with TSAG on the creation of such a Focus Group and leading the coordination of environmental sustainability aspects related to any standardization of the Metaverse (or immersive virtual universe).

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