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| ITU Logo | INTERNATIONAL TELECOMMUNICATION UNION  **TELECOMMUNICATION STANDARDIZATION SECTOR**  STUDY PERIOD 2017-2020 | | FG-AI4EE-WG1-O-005 | |
| **Focus Group on Environmental Efficiency for AI and other Emerging Technologies** | |
| **Original: English** | |
| **WG(s):** | | Working Group 1 | e-meeting, 16 December 2020 | |
| **OUTPUT DOCUMENT** | | | | |
| **Source:** | | Working Group 1 | | |
| **Title:** | | Third FG-AI4EE Working Group 1 e-meeting, held on 16 December 2020 | | |
| **Purpose:** | | Information | | |
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| **Keywords:** | Report, FG-AI4EE, WG1 |
| **Abstract:** | This document contains the Report of the Working Group held on 16 December 2020 |

# Introduction

Experts of Working Group 1 (WG1) met virtually on 16 December 2020.

The draft agenda can be found in document [FG-AI4EE-WG1-I-025](https://extranet.itu.int/sites/itu-t/focusgroups/ai4ee/wg/input_wg1/FG-AI4EE-WG1-I-025.docx). The agenda was approved without modification.

All documents discussed are available on WG1 SharePoint page at:

<https://extranet.itu.int/sites/itu-t/focusgroups/ai4ee/wg/SitePages/WG1.aspx>

1.1 Attendance list with affiliations

This e-meeting was attended by 14 participants. The final list of participants is available in Annex 1 of this report.

# Opening

FG-AI4EE Co-Chairman, Joel Alexander Mills opened the meeting and welcomed everyone.

# Discussion and Summary of inputs

# Presentation on draft deliverables D.WG1-09 and D.WG1-10

Joel presented the meeting agenda (see doc [FG-AI4EE-WG1-I-025](https://extranet.itu.int/sites/itu-t/focusgroups/ai4ee/wg/input_wg1/FG-AI4EE-WG1-I-025.docx)) and delivered a presentation available in document [FG-AI4EE-WG1-I-026](https://extranet.itu.int/sites/itu-t/focusgroups/ai4ee/wg/input_wg1/FG-AI4EE-WG1-I-026.pptx). This presentation summarizes progress and updates on deliverables D.WG1-09 and D.WG1-10 and WG1 activities at large.

# 3.2 Discussion on draft deliverable: D.WG1-09: A method for Intuitive Human interaction with data model (ML & AI etc.)

The first draft of this report can be found in document [FG-AI4EE-WG1-I-007](https://extranet.itu.int/sites/itu-t/focusgroups/ai4ee/wg/input_wg1/FG-AI4EE-WG1-I-007.docx)

This technical report will demonstrate a method for connecting complex data, generated by ML & AI, into a system level solution designed for humans, allowing communication between humans and machine which cultivates mutual enhancement. Up to 3 case studies will be used in this report. Joel advised that the report should refer to scientific facts that show the value for intuitive human interaction with data model generated by ML & AI.

Decisions:

* Pierre Major, OSC/NTNU Norway, ([pierre.major@ntnu.no](mailto:pierre.major@ntnu.no)) was appointed key responsible author for this report.
* Mei Seok Goh, Graffiquo, Singapore, ([seokmei.goh@graffiquo.com](mailto:seokmei.goh@graffiquo.com)) was appointed co-author of this report.
* Pierre and May will work together to coordinate inputs from members, under the supervision and guidance of Joel Alexander Mills, leader of the deliverable.

# 3. 3 Discussion on D.WG1-10: Guidelines on applying U4SSC KPIs in a digital twin city using ML, AR & AI for better climate mitigation solutions.

The first draft of this report can be found in document [FG-AI4EE-WG1-I-008](https://extranet.itu.int/sites/itu-t/focusgroups/ai4ee/wg/input_wg1/FG-AI4EE-WG1-I-008.docx)

This technical report will comprise of 4-6 case studies showing examples of projects where emerging technology, such as ML, A​R & AI, has or could have been used to reduce the negative impact of climate change in cities. The case studies will show how information from data and image driven by AL and ML can combine data sets into trends and prediction of futures outcomes. The data collected in cities can be very helpful, but it also requires to have a good understanding of how to effectively use it. Joel suggested that this report should include examples of how new technologies can be used by cities and called for examples of used cases.

Decisions:

* Pierre Major was appointed key responsible author for this report.
* Mei Seok Goh, and Malcolm Mason, UK, ([malcolm.mason@sure.com](mailto:malcolm.mason@sure.com)) were appointed co-authors of this report. All will work with each other to coordinate inputs from members, under Joel’s guidance.

Action:

* Members to send case studies on how AI is used by cities, and any other inputs, suggestions, and comments on the deliverables, in writing, to ITU Secretariat [tsbfgai4ee@itu.int](mailto:tsbfgai4ee@itu.int) ), using the template for submitting contributions (see [FG-AI4EE-WG1-I-002](https://extranet.itu.int/sites/itu-t/focusgroups/ai4ee/wg/input_wg1/FG-AI4EE-WG1-I-002.docx)).

# Next steps

The next step will be to circulate the draft deliverables for comments on 29 January 2021. The case studies should be incorporated in the draft deliverables before circulation at the end of January 2021. Members will have a period of 3 to 4 weeks to provide their comments on the reports.

During this review period, the drafts will undergo a “freeze’’. All new comments, feedback, inputs will be collected until the given deadline - as opposed to sending new drafts in that period.

Once the comments have been incorporated, the reports will be circulated again for final review.

The next big milestone will be to present the final draft reports at the next Focus Group meeting to in early April 2021 (dates TBC).

Once the reports have been approved by the Focus Group, they will be sent to parent group, ITU-T Study Group 5 for final approval at their meeting on 11-20 May 2021.

# Next e-meeting

The next meeting on those 2 deliverables will be held at the end of January 2021.

Joel will get back to ITU with a proposed date before the end of the year.

# Other business

No other business was discussed.

**Annex 1**

**List of participants**

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| **Prefix** | **First Name** | **Last Name** | **Job Title** | **Company** | **Country** |
| Mr. | Ramy | Ahmed Fathy | Director, Digital Services | National Telecommunication Regulatory Authority (NTRA) | Egypt |
| Mr. | Rüdiger | Stix | Hon.Professor & MinR | DX-Danube Excellence | Austria |
| Ms. | Elinda | Erstad | Assistant CEO & CFO | Augmentcity | Norway |
| Mr. | José Esteban | Gabarda Balaguer | Research | jose esteban gabarda balaguer | Spain |
| Ms. | Seok Mei | Goh | CEO | Graffiquo | Singapore |
| Mr. | Vasileios | Iliadis | CSO | AESTEchnologies OU | Estonia |
| Ms. | Barbara | Kolm | Director, President | Austrian Economics Center | Austria |
| Mr. | Ilia | Londo |  | International Telecommunication Union | Switzerland |
| Mr. | Pierre | Major | Head of research | NTNU Ålesund | Norway |
| Mr. | Malcolm | Mason | Product Manager | Sure International | United Kingdom |
| Mr. | Joel Alexander | Mills | Chief Executive Officer | Augment City AS | Norway |
| Mr. | Seynat | Nicolas | CTO | ESTD motors | France |
| Ms. | Charlyne | Restivo | Advisor | International Telecommunication Union | Switzerland |
| Mr. | Vimal | Wakhlu |  | ITU-APT Foundation of India | India |

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