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| A black and white logo  Description automatically generated with low confidence | INTERNATIONAL TELECOMMUNICATION UNION**TELECOMMUNICATIONSTANDARDIZATION SECTOR**STUDY PERIOD 2022-2024 | FG-AI4H-S-005 |
| ITU-T Focus Group on AI for Health |
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| **WG(s):** | Plenary | Geneva, 3-5 July 2023 |
| **DOCUMENT** |
| **Source:** | FG-AI4H |
| **Title:** | Updated list of FG-AI4H deliverables |
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| **Abstract:** | This document summarizes the current status of the planned deliverables for the ITU-T Focus Group on AI for health (FG-AI4H), based on the output list from the meeting in Cambridge, 21-24 March 2023, as found in R-200 / DEL00S and subsequent updates from the meeting and by the secretariat. |

NOTE – Latest version of deliverables are stored in the FG-AI4H collaboration area at <https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/SitePages/Deliverables.aspx>. The page will be updated after each FG-AI4H meeting.

Table 1 – Updated list of deliverables (updated version of R-200)

| No. | Deliverable | Updated initial draft editor | Availability\* |
| --- | --- | --- | --- |
| 0 | Overview of the FG-AI4H deliverables | Shan Xu (CAICT, China) | [P-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-044.docx) |
| *0.1* | *Common unified terms in artificial intelligence for health* | *Markus Wenzel* *(Fraunhofer HHI, Germany)* | [*P-201*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-201.docx)*(agreed at P)* |
| *1* | *AI4H ethics considerations* | *Andreas Reis* *(WHO)* | [*O-201*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-O-201.docx)(*agreed at O)* |
| *2* | *Overview of regulatory considerations on artificial intelligence for health* | *Shada Alsalamah* *(WHO)* | [*P-202*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-202.docx)*(agreed at P)* |
| *2.1* | *Mapping of IMDRF essential principles to AI for health software* | *Luis Oala* *(Dotphoton, Switzerland),* *Pradeep Balachandran* *(Technical Consultant eHealth, India),* *Pat Baird* *(Philips, USA),* *Thomas Wiegand* *(Fraunhofer HHI, Germany)* | [R-047](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-047.docx)*(agreed online, 2023-03-16)* |
| *2.2* | *Good practices for health applications of machine learning: Considerations for manufacturers and regulators* | *Pradeep Balachandran* *(India) and* *Christian Johner* *(Johner Institut, Germany)* | [*P-203*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-203.docx)*(agreed at P)* |
| *3* | *AI4H requirement specifications* | *Pradeep Balachandran* *(India)* | [*R-049*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-049.docx)*(agreed online, 2023-03-16)* |
| *4* | *AI software life cycle specification* | *Pat Baird* *(Philips, USA)* | [*R-044*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-044.docx)*(Agreed at R)* |
| 5 | Data specification | Marc Lecoultre (MLlab.AI, Switzerland) | [G-205](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-205.docx%22%20%5Ct%20%22_blank) |
| *5.1* | *Data requirements* | *[**Marc Lecoultre* *(MLlab.AI, Switzerland)]\*\** | [*R-066*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-066.docx)*(agreed online, 2023-03-16)* |
| 5.2 | Data acquisition  | Rajaraman (Giri) Subramanian (Calligo Tech, India), Vishnu Ram (India) | [G-205-A02](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-205-A02.docx) |
| *5.3* | *Data annotation specification* | *Shan Xu* *(CAICT, China),* *Harpreet Singh* *(ICMR, India),* *Sebastian Bosse* *(Fraunhofer HHI, Germany)* | [*R-067*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-067.docx)*(agreed online, 2023-03-16)* |
| *5.4* | *Training and test data specification*  | *Luis Oala* *(Dotphoton, Switzerland),* *Pradeep Balachandran* *(India)* | [*R-066*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-066.docx)*(agreed online, 2023-03-16)* |
| *5.5* | *Data handling*  | *Marc Lecoultre* *(MLlab.AI, Switzerland)* | [*R-048*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-048.docx)*(agreed online, 2023-03-16)* |
| 5.6 | Data sharing practices | Ferath Kherif (CHUV, Switzerland), Banusri Velpandian (ICMR, India), WHO Data Team | [L-044](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-044.pptx) |
| *6* | *AI training best practices specification* | *Xin Ming Sim* *and* *Stefan Winkler* *(AI Singapore)* | [*R-051*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-051.docx)*(agreed online, 2023-03-16)* |
| *7* | *AI for health evaluation considerations* | *Markus Wenzel* *(Fraunhofer HHI, Germany)* | [*R-042-R1*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-042-R1.docx)*(agreed online, 2023-03-16)* |
| 7.1 | AI4H evaluation process description | Yu (Ursula) Zhao (WHO) | [G-207-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-G-207-A01.docx) |
| *7.2* | *AI technical test specification* | *Auss Abbood* *(Robert Koch Institute, Germany)* | [*R-069*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-069.docx)*(agreed online, 2023-03-16)* |
| 7.3 | Data and artificial intelligence assessment methods (DAISAM) reference | Luis Oala (Dotphoton, Switzerland) | [P-032](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-032.docx)([L-052](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-052.pptx)) |
| *7.4* | *Clinical evaluation of AI for health* | *Naomi Lee* *(NICE, UK),* *Eva Weicken* *(Fraunhofer HHI, Germany),* *Shubhanan Upadhyay* *(ADA Health, Germany)* | [*R-202*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-202.docx)*(agreed at R)* |
| 7.4A | Checklist (Annex) | *Naomi Lee* *(NICE, UK),* *Eva Weicken* *(Fraunhofer HHI, Germany),* *Shubhanan Upadhyay* *(ADA Health, Germany)* | [R-063](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-063.docx) |
| 7.5 | Assessment platform | Luis Oala (Dotphoton, Switzerland), Marc Lecoultre and Steffen Vogler (Bayer AG, Germany) | [I-037](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-037.docx) |
| 8 | AI4H scale-up and adoption | Sameer Pujari (WHO), Yu Zhao and Javier Elkin [Previously: Robyn Whittaker (New Zealand)] | –([O-056](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-O-056.pptx)) |
| 9 | AI4H applications and platforms | Manjeet Chalga (ICMR, India) | [L-050](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-L-050.docx)([P-055](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-P-055.pptx)) |
| 9.1 | Mobile applications | Khondaker Mamun (UIU, Bangladesh), Manjeet Chalga (ICMR, India) | [Q-047](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FG-AI4H-Q-047.docx) |
| 9.2 | Cloud-based AI applications | Khondaker Mamun (UIU, Bangladesh) | [I-049](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-I-049.docx) |
| *10* | *AI4H use cases: Topic description documents* | *Eva Weicken* *(Fraunhofer HHI, Germany)* | [*R-050*](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-050.docx)*(agreed online, 2023-03-16)* |
| 10.1 | Cardiovascular disease management (TG-Cardio) | Benjamin Muthambi (Watif Health, South Africa) | [R-006-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-006-A01.docx) |
| 10.2 | Dermatology (TG-Derma) | Harsha Jayakody (Flash Health, Sri Lanka), Ivy Lee (American Academy of Dermatology, USA) | [R-007-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-007-A01.docx) |
| 10.3 | Diagnosis of bacterial infection and anti-microbial resistance (TG-Bacteria) | Nada Malou (MSF, France) | [R-008-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-008-A01.docx) |
| 10.4 | Falls among the elderly (TG-Falls) | Pierpaolo Palumbo (University of Bologna, Italy) | [R-012-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-012-A01.docx) |
| 10.5 | Histopathology (TG-Histo) | Frederick Klauschen (LMU Munich & Charité Berlin, Germany) | [R-013-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-013-A01.docx) |
| 10.6 | Malaria detection (TG-Malaria) | Rose Nakasi (Makerere University, Uganda) | [R-014-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-014-A01.docx) |
| 10.7 | Maternal and child health (TG-MCH) | Alexandre Chiavegatto Filho (University of São Paulo, Brazil) | [R-015-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-015-A01.docx) |
| 10.8 | Neurological disorders (TG-Neuro) | Marc Lecoultre (MLlab.AI, Switzerland) and Ferath Kherif (CHUV, Switzerland) | [R-016-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-016-A01.docx) |
| 10.9 | Ophthalmology (TG-Ophthalmo) | Arun Shroff (MedIndia) | [R-017-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-017-A01.docx) |
| 10.10 | Outbreak detection (TG-Outbreaks) | Auss Abbood and Alexander Ullrich (Robert Koch Institute, Germany); Khahlil Louisy and Alexander Radunsky (Institute for Technology & Global Health, ITGH, US) | [R-018-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-018-A01.docx) |
| 10.11 | Psychiatry (TG-Psy) | Nicolas Langer (ETH Zurich, Switzerland) | [R-019-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-019-A01.docx) |
| 10.12 | AI for radiology (TG-Radiology) | Darlington Ahiale Akogo (minoHealth AI Labs, Ghana) | [R-023-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-023-A01.docx) |
| 10.13 | Snakebite and snake identification (TG-Snake) | Rafael Ruiz de Castaneda (UniGE, Switzerland) | [R-020-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-020-A01.docx) |
| 10.14 | Symptom assessment (TG-Symptom) | Henry Hoffmann (Ada Health, Germany) and Martin Cansdale (Healthily, UK) | [R-021-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-021-A01.docx) |
| 10.15 | Tuberculosis (TG-TB) | Manjula Singh (ICMR, India) | [R-022-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-022-A01.docx) |
| 10.16 | Volumetric chest CT (TG-DiagnosticCT) | Kuan Chen (Infervision, China) | [R-009-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-009-A01.docx) |
| 10.17 | Dental diagnostics and digital dentistry (TG-Dental) | Falk Schwendicke and Joachim Krois (Charité Berlin, Germany); Tarry Singh (deepkapha.ai, Netherlands) | [R-010-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-010-A01.docx) |
| 10.18 | Falsified Medicine (TG-FakeMed) | Franck Verzefé (TrueSpec-Africa, DRC) | [R-011-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-011-A01.docx) |
| 10.19 | Primary and secondary diabetes prediction (TG-Diabetes) | Andrés Valdivieso (Anastasia.ai, Chile) | [R-024-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-024-A01.docx) |
| 10.20 | AI for endoscopy (TG-Endoscopy) | Jianrong Wu (Tencent Healthcare, China) | [R-025-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-025-A01.docx) |
| 10.21 | AI for musculoskeletal medicine (TG-MSK) | Peter Grinbergs (EQL, UK), Mark Elliott (Warwick University, UK) | [R-026-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-026-A01.docx) |
| 10.22 | AI for human reproduction and fertility (TG-Fertility) | Susanna Brandi, Eleonora Lippolis, (Merck KGaA, Darmstadt, Germany) | [R-027-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-027-A01.docx) |
| 10.23 | AI for traditional medicine (TG-TM) | Saketh Ram Thrigulla (Ministry of Ayush, India) | [R-028-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-028-A01.docx) |
| 10.24 | AI for point-of care diagnostics (TG-POC) | Nina Linder (University of Helsinki, Finland) | [R-029-A01](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-029-A01.docx) |

NOTES

\* Approved deliverables are indicated in *italics*. The document numbers indicated reflect the status as of the end of the Meeting R. Some links provided are to slide sets; these slide sets are not meant to be the deliverable documents, but rather a status update concerning progress of the respective deliverable. Documents in parenthesis are status updates, not a deliverable text.

\*\* Acting editor

Other documents already approved:

| No. | Deliverable | Editor(s) | Reference |
| --- | --- | --- | --- |
| [AHG-DT4HE Output 1](https://www.itu.int/en/ITU-T/focusgroups/ai4h/Documents/FGAI4H-DT4HE-O-001.pdf) | Guidance on digital technologies for COVID health emergency | Shan Xu (CAICT, China), Ana Riviere-Cinnamond (PAHO)  | [K-042](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-042.docx)*(agreed K)* |
| [TG-Dental Output 1](https://www.itu.int/en/ITU-T/focusgroups/ai4h/Documents/FGAI4H-TG-Dental-O-001.pdf) | Artificial intelligence in dental research: A checklist for authors and reviewers | Falk Schwendicke, Joachim Krois (Charité Berlin, Germany) | [M-004](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-M-004.docx)*(agreed M)* |
| [TG-Dental Output 2](https://www.itu.int/en/ITU-T/focusgroups/ai4h/Documents/FGAI4H-TG-Dental-O-002.pdf) | Artificial intelligence for oral and dental healthcare: Core education curriculum | Falk Schwendicke, Joachim Krois (Charité Berlin, Germany) | [R-033](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-R-033.docx)*(agreed R)* |

Possible future Deliverables:

| No. | Deliverable | Updated initial draft editor | Reference |
| --- | --- | --- | --- |
| – | Open Code Initiative reference software implementation | Marc Lecoultre (MLlab.AI, Switzerland) | [K-043](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-043.docx) |
| – | Risk management in AI for health | Pat Baird (Philips, USA) | [K-034](https://extranet.itu.int/sites/itu-t/focusgroups/ai4h/docs/FGAI4H-K-034.pptx)  |

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