|  |  |  |
| --- | --- | --- |
| The International Teleocmmunication Union - Connecting the World. | **Международный союз электросвязи****Бюро стандартизации электросвязи** |  |
|  | Женева, 27 марта 2025 года |
| **Осн**.: | **Циркуляр 37 БСЭ**SG13/TK | **Кому**:− Администрациям Государств − Членов Союза− Государству Палестина (Рез. 99 (Пересм. Дубай, 2018 г.))− Членам Сектора МСЭ-Т− Ассоциированным членам МСЭ-Т, участвующим в работе 13‑й Исследовательской комиссии− Академическим организациям − Членам МСЭ**Копии**:− Председателям и заместителям председателей исследовательских комиссий МСЭ-Т− Директору Бюро развития электросвязи− Директору Бюро радиосвязи |
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| **Предмет**: | **Вопросник по сценариям использования универсализации услуг в развивающихся странах с применением открытых сетей и моделей ИИ** |

Уважаемая госпожа,
уважаемый господин,

На последнем собрании 13-й Исследовательской комиссии МСЭ-Т (*Будущие сети и появляющиеся сетевые технологии*) (Женева, 3−14 марта 2025 г.) было принято решение распространить вопросникпо сценариям использования универсализации услуг в развивающихся странах с применением открытых сетей и моделей ИИ. Данный вопросник предназначен для Членов из развивающихся стран, однако приветствуются ответы и других Членов.

13-я Исследовательская комиссия в рамках своего Вопроса 5/13 (*Применение будущих сетей и инноваций в развивающихся странах*) разрабатывает Добавление по сценариям использования универсализации услуг в развивающихся странах с применением открытых сетей и моделей ИИ. Анализ результатов ответов, полученных в ходе обследования, будет способствовать работе над вышеуказанным Добавлением в рамках Вопроса 5/13.

Предлагаю вам принять участие в этом обследовании и буду признателен, если вы заполните вопросник, содержащийся в **Приложении 1**, не позднее **30 июня 2025 года**. При этом для большей эффективности сбора и анализа ответов просим вас использовать онлайновую версию вопросника, размещенную по адресу: [https://www.research.net/r/YJ3GHWN](https://eur03.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.research.net%2Fr%2FYJ3GHWN&data=05%7C02%7Ctsbsg13%40itu.int%7C3b67a2540b1346cda5dd08dd6c6e70a2%7C23e464d704e64b87913c24bd89219fd3%7C0%7C0%7C638785943787071832%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=b1mCiCuUE%2B9zMA59Wk59Cy7i7DE2iqL8GZsrZj2GOro%3D&reserved=0). В случае возникновения трудностей с использованием онлайновой формы вы можете воспользоваться формой, представленной в Приложении 1.

Заранее благодарю вас за участие в этом обследовании. Для нас важно ваше мнение.

|  |  |
| --- | --- |
| С уважением,A black text on a white background  AI-generated content may be incorrect.Сейдзо ОноэДиректор Бюростандартизации электросвязи**Приложение**:1 |  |

ПРИЛОЖЕНИЕ 1

Questionnaire on Use Cases of services universalization in developing countries using open networks and AI models

Responder’s Information

|  |  |
| --- | --- |
| **Country**: |   |
| **Sector**: |   |
| **Organization**: |   |
| **Name**: |   |
| **Title**: |   |
| **Address**: |   |
| **Telephone**: |   |
| **Fax**: |   |
| **E-Mail**: |   |

**Instructions**:

Multiple choice to some questions is possible and is welcome.

# 1 Status of IMT-2020 and beyond in network deployment

**1.1 How many telecom operators have already commercially launched IMT-2020 and beyond services in your country?**

[ ]  0

[ ]  1

[ ]  2

[ ]  3

[ ]  Other (Please specify): ………………………………………………

**1.2 What percentage of your country's population has access to IMT-2020 and beyond services?**

[ ]  0%

[ ]  Less than 10%

[ ]  10-30%

[ ]  30-50%

[ ]  More than 50%

[ ]  Do not know

**1.3 How many telecom operators in your country have a focus/strong presence or market segment in rural/remote areas?**

[ ]  0

[ ]  1

[ ]  2

[ ]  3

[ ]  Other (Please specify): ………………………………………………

**1.4 Which sectors will benefit the most from IMT-2020 and beyond services in your country?**

[ ]  Government (e-services)

[ ]  Healthcare

[ ]  Transportation

[ ]  Education

[ ]  Entertainment and media

[ ]  Manufacturing

[ ]  Agriculture

[ ]  Retail

[ ]  Others (please specify): ………………………………………………

# 2 Use of Artificial Intelligence for IMT-2020 and beyond for network deployment

**2.1 Are you currently using any AI-based technology in your telecommunication network?**

[ ]  Yes (please specify):

[ ]  No

[ ]  I don’t know

**2.2 Have you implemented strategies to use AI-based technology in your telecommunication
networks in the next 5 years?**

[ ]  Yes (please specify):

[ ]  No

[ ]  I don’t know

**2.3 Rate the following benefits of using Artificial Intelligence in IMT-2020 and beyond networks on a scale of 1 to 5 (1=low benefit 5=high benefit) with regards to network deployment in developing countries.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ****Response**** | ****1**** | ****2**** | ****3**** | ****4**** | ****5**** |
| Service orchestration and automation |  |  |  |  |  |
| Increased network capacity and efficiency |  |  |  |  |  |
| Private network deployment |  |  |  |  |  |
| Service deployment |  |  |  |  |  |
| Increased network capacity and efficiency |  |  |  |  |  |
| Client support |  |  |  |  |  |
| Energy consumption |  |  |  |  |  |
| Open systems  |  |  |  |  |  |
| Support for innovative applications and services |  |  |  |  |  |
| Support for digital transformation in the long term |  |  |  |  |  |
| Other (Please specify and rate): …………………………… |  |  |  |  |  |

**2.4 Rate the main technical challenges or concerns about using Artificial Intelligence in IMT-2020 and beyond networks on a scale of 1 to 5 (1=low concern 5=high concern)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ****Response**** | ****1**** | ****2**** | ****3**** | ****4**** | ****5**** |
| High infrastructure cost |  |  |  |  |  |
| Uncertain return on investment (RoI) |  |  |  |  |  |
| Deployment complexity |  |  |  |  |  |
| Integration with existing networks |  |  |  |  |  |
| Regulatory issues |  |  |  |  |  |
| Lack of expertise |  |  |  |  |  |
| Cybersecurity risks |  |  |  |  |  |
| Data privacy and protection concerns |  |  |  |  |  |
| Energy consumption |  |  |  |  |  |
| Other (Please specify and rate): …………………………… |  |  |  |  |  |

# 3 Use of Open Networks for IMT-2020 and beyond for network deployment

**3.1 Are you currently using any tool/framework/equipment that provides openness to your current telecommunication network infrastructure?**

[ ]  Yes (please specify):

[ ]  No

[ ]  I don’t know

**3.2 Have you implemented or considered strategies to use open networks in your telecommunication infrastructure for the upcoming years?**

[ ]  Yes (please specify):

[ ]  No

[ ]  I don’t know

**3.3 In your opinion, which type of network will benefit the most on the use of Open Networks for IMT-2020 and beyond in developing countries?**

[ ]  Public network

[ ]  Private Network

[ ]  Both

[ ]  I don’t know

**3.4 Has the Local Regulatory Authority implemented or considered strategies to regulate Open Networks for IMT-2020 and beyond for network deployment:**

[ ]  Yes (please specify):

[ ]  No

[ ]  I don’t know

**3.5 On a scale of 1 to 5, where do you consider the use of open networks and open interfaces will benefit your current telecommunication network? (1=low benefit, 5=high benefit)?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ****Response**** | ****1**** | ****2**** | ****3**** | ****4**** | ****5**** |
| Access Network  |  |  |  |  |  |
| Private Network Deployment |  |  |  |  |  |
| Service Deployment |  |  |  |  |  |
| OPEX and CAPEX optimization |  |  |  |  |  |
| Core Network |  |  |  |  |  |
| Scalability |  |  |  |  |  |
| Other (Please specify and rate): …………………………… |  |  |  |  |  |

**3.6 On a scale of 1 to 5, which do you consider the use of open networks and open interfaces will present the major challenges for your current telecommunication network? (1=low challenge, 5=major challenge)?**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ****Response**** | ****1**** | ****2**** | ****3**** | ****4**** | ****5**** |
| Infrastructure cost |  |  |  |  |  |
| Deployment complexity |  |  |  |  |  |
| Integration with existing networks |  |  |  |  |  |
| Regulatory issues |  |  |  |  |  |
| Lack of expertise |  |  |  |  |  |
| Equipment and Software providers |  |  |  |  |  |
| Cybersecurity risks |  |  |  |  |  |
| Data privacy and protection concerns |  |  |  |  |  |
| Energy consumption  |  |  |  |  |  |
| Customer adoption |  |  |  |  |  |
| Device availability and compatibility |  |  |  |  |  |
| Other (Please specify and rate): …………………………… |  |  |  |  |  |

# 4 Network Deployment Landscape

**4.1 Which IMT-2020 and beyond use cases do you consider would benefit from using artificial intelligence and open networks for network deployment?**

|  |  |  |  |
| --- | --- | --- | --- |
| ****IMT-2020 and beyond use cases**** | ****Short-term(within 1 year)**** | ****Mid-term(1 to 3 years)**** | ****Long-term(More than   years)**** |
| **High-speed mobile Internet access** |  |  |  |
| **Fixed Wireless Access (FWA)** |  |  |  |
| Augmented Reality (AR) and Virtual Reality (VR) |  |  |  |
| Enhanced entertainment and media (including gaming) |  |  |  |
| e-Government  |  |  |  |
| **Healthcare applications and telemedicine** |  |  |  |
| **Smart agriculture** |  |  |  |
| **Smart transportation and autonomous vehicles** |  |  |  |
| **Industrial automation and smart factories** |  |  |  |
| **Public safety and emergency services** |  |  |  |
| **Cloud computing and edge computing** |  |  |  |
| **Environmental monitoring** |  |  |  |
| Smart grids and energy management |  |  |  |
| Smart retail solutions |  |  |  |
| Education and e-learning |  |  |  |
| Other (Please specify): …………………………… |  |  |  |

**4.2 What are the key considerations for prioritizing IMT-2020 and beyond use cases in your country when using artificial intelligence and open networks? Rate the following considerations on a scale of 0 to 5 (1= least important, 5 = most important):**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ****Response**** | ****1**** | ****2**** | ****3**** | ****4**** | ****5**** |
| Economic benefits |  |  |  |  |  |
| Technological maturity |  |  |  |  |  |
| Digital inclusion and societal needs and benefits |  |  |  |  |  |
| Alignment with national regulatory frameworks and policies |  |  |  |  |  |
| Compliance to standards |  |  |  |  |  |
| Infrastructure availability  |  |  |  |  |  |
| Ease of adoption |  |  |  |  |  |
| Cost and maintenance |  |  |  |  |  |
| Scalability and sustainability |  |  |  |  |  |
| Other (Please specify and rate): …………………………… |  |  |  |  |  |

*Thank you for your active participation in this survey!*

If you have questions, please, contact us at tsbsg13@itu.int.