|  |  |
| --- | --- |
| The International Teleocmmunication Union - Connecting the World. | **Unión Internacional de Telecomunicaciones****Oficina de Normalización de las Telecomunicaciones** |
|  |  | Ginebra, 27 de marzo de 2025 |
| **Ref**.: | **Circular TSB 37**SG13/TK | **A:**– las Administraciones de los Estados Miembros de la Unión;– el Estado de Palestina (Res. 99 (Rev. Dubái, 2018));– los Miembros de Sector del UIT-T;– los Asociados del UIT-T;– las Instituciones Académicas de la UIT**Copia a:**– el Presidente y Vicepresidentes de las Comisiones de Estudio del UIT-T;– el Director de la Oficina de Desarrollo de las Telecomunicaciones;– el Director de la Oficina de Radiocomunicaciones |
| Tel.: | +41 22 730 5126 |
| Fax: | +41 22 730 5853 |
| Correo-e: | tsbsg13@itu.int |
| **Asunto**: | **Cuestionario sobre casos de uso de la universalización de los servicios en países en desarrollo mediante redes abiertas y modelos de IA** |

Muy Señora mía/Muy Señor mío,

La Comisión de Estudio 13 del UIT-T (*Redes futuras y tecnologías de red incipientes)* acordó en su última reunión (Ginebra, 3‑14 de marzo de 2025) la distribución de un cuestionario sobre *casos de uso de la universalización de los servicios en países en desarrollo mediante redes abiertas y modelos de IA.* Este cuestionario está dirigido a los Miembros de países en desarrollo, pero se recibirán con agrado las respuestas de todos los Miembros que deseen responder al cuestionario.

La Cuestión 5/13 (*Aplicación de las redes futuras y la innovación en los países en desarrollo*) de la Comisión de Estudio 13 está preparando un Suplemento sobre *casos de uso de la universalización de los servicios en países en desarrollo mediante redes abiertas y modelos de IA.* El análisis de los resultados de la encuesta alimentará los trabajos de la C5/13 sobre el Suplemento mencionado.

Le invito a participar en la encuesta y le agradecería que cumplimentara el cuestionario que encontrará en el **Anexo 1** antes del **30 de junio 2025**. Tenga en cuenta, no obstante, que para facilitar la recopilación de las respuestas y su análisis, convendría que respondiese a la versión en línea del cuestionario: <https://www.research.net/r/YJ3GHWN>. Puede utilizar el formulario del Anexo 1 si encuentra dificultades para responder al cuestionario en línea.

Le agradezco por adelantado su participación en la encuesta. Valoramos mucho su opinión.

|  |  |
| --- | --- |
| Atentamente,A black text on a white background  AI-generated content may be incorrect.Seizo OnoeDirector de la Oficina de Normalizaciónde las Telecomunicaciones |  |

**Anexo:** 1

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

[ ]  0

[ ]  1

[ ]  2

[ ]  3

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

1. **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. **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. **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): ………………………………………………

1. **Use of Artificial Intelligence for IMT-2020 and beyond for network deployment**
	1. **Are you currently using any AI-based technology in your telecommunication network?**

[ ]  Yes (please specify):

[ ]  No

[ ]  I don’t know

* 1. **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

* 1. **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): …………………………… |  |  |  |  |  |

* 1. **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): ……………………………………………… |  |  |  |  |  |

1. **Use of Open Networks for IMT-2020 and beyond for network deployment**
	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

* 1. **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

* 1. **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

* 1. **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

* 1. **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): ……………………………………………… |  |  |  |  |  |

* 1. **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): ……………………………………………… |  |  |  |  |  |

1. **Network Deployment Landscape**
	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 3 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): ………………………………… |  |  |  |

* 1. **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.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_