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| The International Teleocmmunication Union - Connecting the World. | **الاتحـاد الدولـي للاتصـالات****مكتب تقييس الاتصالات** |

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|  |  | جنيف، 27 مارس 2025 |
| **المرجع:** | **TSB Circular 37SG13/TK** | **إلى:**- إدارات الدول الأعضاء في الاتحاد؛- دولة فلسطين (القرار 99 (المراجَع في دبي، 2018))؛- أعضاء قطاع تقييس الاتصالات بالاتحاد؛- المنتسبين إلى لجنة الدراسات 13 لقطاع تقييس الاتصالات؛- الهيئات الأكاديمية المنضمة إلى الاتحاد |
| الهاتف: | +41 22 730 5126 |
| الفاكس: | +41 22 730 5853 |
| البريد الإلكتروني: | tsbsg13@itu.int |
| **نسخة إلى:**- رؤساء لجان دراسات قطاع تقييس الاتصالات ونوابهم؛- مدير مكتب تنمية الاتصالات؛- مدير مكتب الاتصالات الراديوية |
| **الموضوع:** | **استبيان بشأن حالات استخدام تعميم الخدمات في البلدان النامية باستخدام الشبكات المفتوحة ونماذج الذكاء الاصطناعي** |

حضرات السادة والسيدات،

تحية طيبة وبعد،

وافقت لجنة الدراسات 13 بقطاع تقييس الاتصالات (*شبكات المستقبل وتكنولوجيات الشبكات الناشئة*) في اجتماعها الأخير (جنيف، 14-3 مارس 2025) على نشر الاستبيان بشأن *حالات استخدام تعميم الخدمات في البلدان النامية باستخدام الشبكات المفتوحة ونماذج الذكاء الاصطناعي*. ويستهدف هذا الاستبيان الأعضاء من البلدان النامية، ولكن يُرحب أيضاً بإجابات الأعضاء الآخرين.

تضطلع لجنة الدراسات 13، في إطار المسألة 13/5 (*تطبيق شبكات المستقبل والابتكار في البلدان النامية*)، بإعداد إضافة بشأن *حالات استخدام تعميم الخدمات في البلدان النامية باستخدام الشبكات المفتوحة ونماذج الذكاء الاصطناعي.* وسيدعم تحليل نتائج الردود على الاستقصاء العمل في إطار المسألة 13/5 بشأن الإضافة المذكورة أعلاه.

وأدعوكم إلى المشاركة في هذا الاستقصاء وسأكون ممتناً لو قمتم بملء الاستبيان الوارد في **الملحق 1** في موعد أقصاه **30 يونيو 2025**. ومع ذلك، تُرجى ملاحظة أنه لتحقيق كفاءة أكبر في جمع الردود وتحليلها، نرجو استعمال النسخة الإلكترونية التالية من الاستبيان: [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). ويمكن استعمال الاستمارة الواردة في الملحق 1 في حالة وجود صعوبات في استعمال النسخة الإلكترونية.

|  |  |
| --- | --- |
| وأود أن أشكركم مقدماً على مشاركتكم في هذا الاستقصاء. ونعرب لكم عن تقديرنا لآرائكم.وتفضلوا بقبول فائق التقدير والاحترامA black and white text  AI-generated content may be incorrect.سيزو أونويمدير مكتب تقييس الاتصالات.الملحقات: 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.

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