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

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  |  | جنيف، 27 مارس 2025 |
| **المرجع:** | **TSB Circular 37 SG13/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](mailto: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 والاحترام  A black and white text  AI-generated content may be incorrect.سيزو أونوي مدير 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](mailto:tsbsg13@itu.int).

ــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــــ