

REFERENCE

- [1] R. Ratasuk, A. Prasad, Z. Li, A. Ghosh, and M. Uusitalo, “Recent advancements in M2M communications in 4G networks and evolution towards 5G,” in *2015 18th International Conference on Intelligence in Next Generation Networks, ICIN 2015*, Mar. 2015, pp. 52–57. doi: 10.1109/ICIN.2015.7073806.
- [2] A. Prasad, Z. Li, S. Holtmanns, and M. Uusitalo, “5G Micro-Operator Networks – A Key Enabler for New Verticals and Markets,” in *25th Telecommunications forum TELFOR 2017*, Serbia, Belgrade, November 21-22, 2017. doi: 10.1109/TELFOR.2017.8249272.
- [3] P. Ahokangas, S. Moqaddamerad, M. Matinmikko, and A. A. Abouzeid, “Future micro operators’ business models in 5G Smarctic View project Legitimation of Newness and Its Impact on EU Agenda for Change View project,” 2016, doi: 10.13140/RG.2.1.4992.1525.
- [4] M. Matinmikko, M. Latva-Aho, P. Ahokangas, S. Yrjölä, and T. Koivumäki, “Micro operators to boost local service delivery in 5G,” *Wireless Personal Communications: An International Journal*, Volume 95, Issue 1, July 2017 pp 69–82, doi: 10.1007/s11277-017-4427-5
- [5] Badan Keahlian-Sekretariat Jenderal, Dewan Perwakilan Rakyat Republik Indonesia, “ANALISIS RUU TENTANG APBN-Potensi dan Tantangan Optimalisasi PNBPN Bidang Spektrum Frekuensi Radio dalam Era Transformasi Digital,” ISO 9001:2015, Certificate No. IR/QMS/00138
- [6] W. Hidayat, “DESAIN LELANG YANG EFISIEN DALAM RANGKA MENGOPTIMALKAN PNBPN LELANG,” Aug. 19, 2020.

- [7] H. Vuojala *et al.*, “Spectrum access options for vertical network service providers in 5G,” *Telecomm Policy*, vol. 44, no. 4, May 2020, doi: 10.1016/j.telpol.2019.101903.
- [8] S. J. Aliyu, “SPEKTRUM MANAJEMEN DI NIGERIA (SEBUAH STUDI KASUS HARGA SPEKTRUM),” 2011.
- [9] A. Anggorosesar and R. Wijaya, “Potensi Pasar Sekunder Spektrum Frekuensi Radio di Indonesia,” *Buletin Pos dan Telekomunikasi* 11(4):319, March 2015, doi: 10.17933/bpostel.2013.110405
- [10] A. F. S. Admaja, “Kajian Awal 5G Indonesia (5G Indonesia Early Preview),” *Buletin Pos dan Telekomunikasi*, vol. 13, no. 2, p. 97, Dec. 2015, doi: 10.17933/bpostel.2015.130201.
- [11] U. Surtia Zulpratita, “KUNCI TEKNOLOGI 5G,” *Jurnal Ilmiah Teknologi Infomasi Terapan*, April 2018, doi: 10.33197/jitter.vol4.iss2.2018.163.
- [12] A. Hikmaturokhman, K. Ramli, M. Suryanegara, “Spectrum Consideration for 5G in Indonesia,” *2018 International Conference on ICT for Rural Development (IC-ICTRuDev)*. IEEE, 2018, doi: 10.1109/ICICTR.2018.8706874.
- [13] M. Matinmikko-Blue, M. Latva-aho, “Micro operators accelerating 5G deployment,” *2017 IEEE International Conference on Industrial and Information Systems (ICIIS): conference proceedings: 15th-16th December, 2017*. doi: <https://doi.org/10.1109/ICIINFS.2017.8300396>.
- [14] C. W. Tseng, Y. K. Huang, F. H. Tseng, Y. T. Yang, C. C. Liu, and L. der Chou, “Micro Operator Design Pattern in 5G SDN/NFV Network,” *Wirel Commun Mob Comput*, vol. 2018, 2018, doi: 10.1155/2018/3471610.
- [15] ITU, “RESOLUTION 9: Participation of countries, particularly developing countries, in spectrum management,” 2014.

- [16] S. Dan, T. Yaqing, L. Ming, and L. Jianyuan, "Comparative analysis of frequency estimation methods," *Conference: Control Conference (CCC)*, 2012 31st Chinese, January 2012.
- [17] Australian Government, "About Spectrum auctions," *Australian Communications and Media Authority*, 2021, [Online]. Available: <https://www.acma.gov.au/about-spectrum-auctions>
- [18] D.-W. Kim, "Spectrum auction in Korea: design and implication," 2016.
- [19] B. A. Shaw, H. F. Beltrán, and K. W. Sowerby, "Assigning spectrum fairly: managing spectrum using long-term nationwide and short-term local spectrum licenses," *Information Systems & Economics eJournal*, 2014, doi: <https://doi.org/10.2139/SSRN.2418121>
- [20] Federal Communications Commission, "SECOND REPORT AND ORDER AND SECOND FURTHER NOTICE OF PROPOSED RULEMAKING," 2021.
- [21] RADIO SPECTRUM POLICY GROUP, "RSPG Opinion on Licensed Shared Access RSPG Opinion on Licensed Shared Access," 2013.
- [22] M. Mueck, M. Dolores Pérez Guirao, R. Yallapragada, and S. Srikanteswara, "Regulation and Standardization Activities Related to Spectrum Sharing," 2020, doi: <https://doi.org/10.1002/9781119551539.ch2>
- [23] M. Matinmikko-Blue, S. Yrjölä, P. Ahokangas, and H. Hämmäinen, "A Service of zbw Leibniz-Informationszentrum Wirtschaft Leibniz Information Centre for Economics," *ZEF Working Paper Series 94*, May 2012. ISSN 1864-6638
- [24] E. Tonye and R. Nlend, "Planning and simulation of LTE radio network: case of the city of Yaoundé," vol. 14, no. 2, pp. 19–29, doi: [10.9790/2834-1402011929](https://doi.org/10.9790/2834-1402011929).

- [25] S. Ariyanti, “Perbandingan Biaya Jaringan dan Kelayakan Teknologi LTE pada Frekuensi 900 MHz, 1800 MHz, 2100 MHz, & 2300 MHz untuk Mendukung Rencana Pita Lebar di Indonesia [Comparison of Network Cost & Feasibility LTE Technology to Support Broadband Plan in Indonesia],” *Buletin Pos dan Telekomunikasi*, vol. 17, no. 1, p. 1, Aug. 2019, doi: 10.17933/bpostel.2019.170101.
- [26] T. Yuwanto, “Analisis Tekno Ekonomi Biaya Capex dan Opex Implementasi Jaringan Long Term Evolution Area Banten,” *Jurnal Telekomunikasi dan Komputer*, vol. 8, no. 1, p. 1, Dec. 2017, doi: 10.22441/incomtech.v8i1.2142.
- [27] A. Wahyudin, N. Amalia, and I. Lindra, “Cost Benefit Analysis of MVNO Business Models for LTE 4G Services in Bandung city,” *Proc. 2017 4th Int. Conf. New Media Stud. CONMEDIA 2017*, pp. 102–107, 2017, doi: 10.1109/CONMEDIA.2017.8266039.
- [28] U. T. Hidayat, R. Munadi, N. M. Ardiansyah, E. Chumaidiyah, “Analisa Perbandingan Perancangan dan Kelayakan Implementasi Jaringan LTE dan WIMAX di Surabaya pada Area Urban, Suburban, dan Rural dengan Pendekatan Techno-Economy,” *ISU TEKNOLOGI STT MANDALA Vol.6 No.1 Desember 2013*.
- [29] M. M. AL-DEBEI and D. AVISON, “Business model requirements and challenges in the mobile telecommunication sector,” *Journal of Organisational Transformation & Social Change*, vol. 8, no. 2, pp. 215–235, Dec. 2011, doi: 10.1386/jots.8.2.215_1.
- [30] A. Hikmaturokhman, R. Deiny Mardian, K. Ramli, M. Suryanegara, and I. K. Rohman, “5G SPECTRUM VALUATION OF MILIMETER WAVE TECHNOLOGY: A CASE STUDY OF INDONESIA INDUSTRIAL AREA FOR ACCELERATION OF BROADBAND DEVELOPMENT,” *J Theor Appl Inf Technol*, vol. 15, no. 5, 2021.