REFERENCES

[1] R. Zhou *et al.*, "Online Task Offloading for 5G Small Cell Networks," *IEEE Trans Mob Comput*, vol. 1233, no. c, pp. 1–13, 2020, doi: 10.1109/TMC.2020.3036390.

[2] G. Fahira, A. Hikmaturokhman, and A. R. Danisya, "5G NR Planning at mmWave Frequency : Study Case in Indonesia Industrial Area," *Proceeding - 2020 2nd International Conference on Industrial Electrical and Electronics, ICIEE 2020*, pp. 205–210, 2020, doi: 10.1109/ICIEE49813.2020.9277451.

[3] M. Matinmikko, M. Latva-aho, P. Ahokangas, and V. Seppänen, "On regulations for 5G: Micro licensing for locally operated networks," *Telecomm Policy*, vol. 42, no. 8, pp. 622–635, 2018, doi: 10.1016/j.telpol.2017.09.004.

[4] B. Barua, M. Matinmikko-Blue, and M. Latva-Aho, "On emerging contractual relationships for local 5G micro operator networks," *Proceedings of the International Symposium on Wireless Communication Systems*, vol. 2019-Augus, pp. 703–708, 2019, doi: 10.1109/ISWCS.2019.8877181.

[5] U. K. Usman and M. A. Irwan, "KEY TEKNOLOGY 5G mmWave , Small Cell and Massive MIMO," pp. 61–69, 2020.

[6] N. Dahad, "Micro-operators to Drive 5G Adoption," *EETimes*, 2018. https://www.eetimes.com/micro-operators-to-drive-5g-adoption/ (accessed Nov. 29, 2021).

[7] Dinas Kominfo, *Studi Lanjutan 5G Indonesia 2018 Spektrum Outlook dan Use Case untuk Layanan 5G Indonesia*. 2018. [Online]. Available: http://balitbangsdm.kominfo.go.id

[8] K. K. dan Informatika, *Undang-Undang Republik Indonesia Nomor 36 Tahun 1999 Tentang Telekomunikasi*. [Online]. Available:

https://www.unhcr.org/publications/manuals/4d9352319/unhcr-protection-training-manual-european-border-entry-officials-2-legal.html?query=excom 1989

[9] H. and others Popovski, P and Mange, G and Gozalvez-Serrano, D and Rosowski, T and Zimmermann, G and Agyapong, P and Fallgren, M and H{\"o}glund, A and Queseth, O and Tullberg, "Final report on the METIS 5G system concept and technology roadmap," *METIS Document ICT-317669-METIS/D6. 6*, 2015.

[10] Metis 2020, "Deliverable D6.6 Final report on the METIS 5G system concept and technology roadmap," 2014.

[11] O. Alay *et al.*, "End to End 5G Measurements with MONROE: Challenges and Opportunities," *IEEE 4th International Forum on Research and Technologies for Society and Industry, RTSI 2018 - Proceedings*, no. September, 2018, doi: 10.1109/RTSI.2018.8548510.

[12] R. Jurdi, A. K. Gupta, J. G. Andrews, and R. W. Heath, "Modeling infrastructure sharing in mmwave networks with shared spectrum licenses," *ArXiv*, vol. 4, no. 2, pp. 328–343, 2017, doi: 10.1109/tccn.2018.2815625.

[13] Qualcomm, "Making 5G NR a reality," no. December, 2016.

[14] S. Yushan, M. Ylianttila, M. Liyanage, T. Supervisor, and P. Porambage, "Micro-Operator driven Local 5G Network Architecture for Industrial Internet Applications," 2019.

[15] M. Matinmikko, M. Latva-aho, P. Ahokangas, S. Yrjölä, and T. Koivumäki, "Micro Operators to Boost Local Service Delivery in 5G," *Wirel Pers Commun*, vol. 95, no. 1, pp. 69–82, Jul. 2017, doi: 10.1007/s11277-017-4427-5.

[16] I. Badmus, M. Matinmikko-Blue, J. S. Walia, and T. Taleb, "Network Slice Instantiation for 5G Micro-Operator Deployment Scenarios," *2019 European Conference on Networks and Communications, EuCNC 2019*, no. 318927, pp. 133–138, 2019, doi: 10.1109/EuCNC.2019.8802013.

[17] J. S. Walia, H. Hammainen, and M. Matinmikko, “5G Micro-operators for the future campus: A techno-economic study,” *Joint 13th CTTE and 10th CMI Conference on Internet of Things - Business Models, Users, and Networks*, vol. 2018-Janua, pp. 1–8, 2017, doi: 10.1109/CTTE.2017.8260985.

[18] G. Athens and J. Risto, “Micro operator concept to boost local services in 5G era.”

[19] G. Public and P. Position, “GSMA Public Policy Position,” no. February, 2013.

[20] 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, 2019, doi: 10.17933/bpostel.2019.170101.

[21] Y. Septiawan, I. Santoso, and A. A. Zahra, “PERENCANAAN JARINGAN LONG TERM EVOLUTION (LTE) TIME DIVISION DUPLEX (TDD) 2300 MHz DI SEMARANG TAHUN 2015-2020.”

[22] P. Rahmawati, M. I. Nashiruddin, and M. A. Nugraha, “Capacity and Coverage Analysis of 5G NR Mobile Network Deployment for Indonesia’s Urban Market,” in *Proceedings - 2021 IEEE International Conference on Industry 4.0, Artificial Intelligence, and Communications Technology, IAICT 2021*, Jul. 2021, pp. 90–96. doi: 10.1109/IAICT52856.2021.9532574.

[23] A. A. Kusuma and M. Suryanegara, “Upgrading Mobile Network to 5G: The Technoeconomic Analysis of Main Cities in Indonesia,” 2019.

[24] TSGR, “TS 138 306 - V15.8.0 - 5G; NR; User Equipment (UE) radio access capabilities (3GPP TS 38.306 version 15.8.0 Release 15),” 2020. [Online]. Available: https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx

[25] I. Bali, “PROCEEDING 2018 International Conference on ICT for Rural Development (IC-ICTRuDEv).”

[26] TechPlayOn, “5G NR Resource Block Definition and RBs Calculation,” 2019. https://www.techplayon.com/nr-resource-block-definition-and-rbs-calculation/ (accessed Dec. 13, 2021).

[27] “5G/NR - Numerology.” https://www.sharetechnote.com/html/5G/5G_Phy_Numerology.html (accessed Dec. 13, 2021).

[28] A. D. N. R. Esa, A. Hikmaturokhman, “5G NR Planning at Frequency 3.5 GHz : StudyCase in Indonesia Industrial Area,” *Proceeding - 2020 2nd International Conference on Industrial Electrical and Electronics, ICIEE 2020*, 2020.

[29] S. B. Barutu, A. Hikmaturokhman, and M. P. K. Praja, “Planning of 5G New Radio (NR) mmWave 26 GHz in Karawang Industrial Area,” in *2020 IEEE International Conference on Communication, Networks and Satellite, Comnetsat 2020 - Proceedings*, Dec. 2020, pp. 42–49. doi: 10.1109/Comnetsat50391.2020.9329010.

[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, [Online]. Available: www.jatit.org

[31] TSGR, “TR 138 901 - V15.0.0 - 5G; Study on channel model for frequencies from 0.5 to 100 GHz (3GPP TR 38.901 version 15.0.0 Release 15),” 2018. [Online]. Available: https://portal.etsi.org/TB/ETSIDeliverableStatus.aspx

[32] L. HUAWEI TECHNOLOGIES CO., “5G Link Budget Best Partner for Innovation.” [Online]. Available: www.huawei.com

[33] *Seminar Nasional Penelitian dan Pengabdian kepada Masyarakat AVoER 10 Fakultas Teknik Universitas Sriwijaya*.

[34] R. O. NISP, "Capex Adalah: Arti, Cara Hitung dan Bedanya dengan Opex," 2021. https://www.ocbcnisp.com/id/article/2021/09/16/capex-adalah (accessed Dec. 06, 2021).

[35] D. Rianti, A. Hikmaturokhman, and D. Rachmawaty, "Techno-Economic 5G New Radio Planning Using 26 GHz Frequency at Pulogadung Industrial Area," in *2020 3rd International Seminar on Research of Information Technology and Intelligent Systems, ISRITI 2020*, Dec. 2020, pp. 272–277. doi: 10.1109/ISRITI51436.2020.9315455.

[36] E. A. Qudratovich, "CONCEPT, ECONOMIC ESSENCE AND EVOLUTION OF APPROACHES TO THE DEFINITION OF CASH FLOWS OF AN ENTERPRISE," *Galaxy int. interdiscip*, vol. 10, no. Vol. 10 No. 4: GIIRJ, pp. 709–715, 2022.

[37] Freshbooks, "What is Cash Flow Formula & How To Calculate It?," *Freshbooks*, Jun. 16, 2022. https://www.freshbooks.com/hub/accounting/cash-flow-formula (accessed Jul. 18, 2022).

[38] T. Kania, "6 Rumus Cash Flow Mudah yang Wajib Kamu Ketahui," *DailySocial*, Feb. 23, 2022. https://dailysocial.id/post/rumus-cash-flow#:~:text=Arus%20kas%20bersih%20atau%20net,penjumlahan%20tiga%20komponen%20cash%20flow.&text=Arus%20kas%20aktivitas%20operasional%20adalah,tunai%20yang%20didapatkan%20oleh%20perusahaan. (accessed Jul. 16, 2022).

[39] Ovidiu – Vasile Guler, *MODELLING FINANCIAL SUSTAINABILITY WITH PERFORMANCE INDICATORS: NPV AND IRR*. 2019. [Online]. Available: https://www.researchgate.net/publication/340023294

[40] N. Ramadhani, "Internal Rate of Return Adalah: Fungsi, dan Rumus," *Akseleran*, Feb. 08, 2021. https://www.akseleran.co.id/blog/internal-rate-of-return-adalah/ (accessed Jul. 18, 2022).

[41] GoCardless, “How to calculate the payback period,” *GoCardless* , Apr. 2022. https://gocardless.com/guides/posts/how-to-calculate-payback-period/ (accessed Sep. 17, 2022).

[42] Jababeka, “2020 Laporan Tahunan Jababeka.”

[43] D. Kusumawardani and A. Kurniawan, “POLA SEBARAN PERUMAHAN DI WILAYAH PENGEMBANGAN (WP) I DAN WILAYAH PENGEMBANGAN (WP) II KABUPATEN BEKASI”.

[44] “Data Jumlah Penduduk Per Kecamatan Kabupaten Bekasi,” *OPEN SATU DATA KABUPATEN BEKASI*, Jan. 04, 2022. https://opensatudata.bekasikab.go.id/?q=node/665 (accessed Feb. 11, 2022).

[45] L. D. Jatmiko, “Ada 5 Skenario Mikro Operator yang Berpeluang Hadir di Era 5G,” Jan. 22, 2022. https://teknologi.bisnis.com/read/20220117/101/1489719/ada-5-skenario-mikro-operator-yang-berpeluang-hadir-di-era-5g (accessed May 05, 2022).

[46] M. K. Adityo, M. I. Nashiruddin, and M. A. Nugraha, “5G Fixed Wireless Access Network for Urban Residential Market: A Case of Indonesia.”

[47] “KABUPATEN BEKASI DALAM ANGKA BADAN PUSAT STATISTIK KABUPATEN BEKASI BPS-STATISTICS OF BEKASI REGENCY.”

[48] J. Winanda, “Telah Hadir di Indonesia, Jaringan 5G Siap Didukung Oleh Gadget Terbaru vivo,” *Merdeka.com*, May 21, 2021. https://www.merdeka.com/teknologi/telah-hadir-di-indonesia-jaringan-5g-siap-didukung-oleh-gadget-terbaru-vivo.html (accessed Aug. 30, 2022).

[49] Huawei, “5G mmWave Discussion with VNICTP,” 2020.

[50] Alibaba, “Huawei Easy Macro Base Station AAU5243 Double Frequency Type Active Antenna Unit.” https://www.alibaba.com/product-detail/Huawei-Easy-Macro-Base-Station-AAU5243_1600457219690.html?spm=a2700.shop_plgr.41413.14.16166a7abktb2q (accessed Aug. 20, 2022).

[51] Alibaba, “HUAWEI aau5831 RRU5310 AAU5613 AAU5619 AAU5639 AAU5639W 5G Device 02312CHN TX3400/RX3400.” https://www.alibaba.com/product-detail/HUAWEI-aau5831-RRU5310-AAU5613-AAU5619-AAU5639_1600150894292.html?spm=a2700.galleryofferlist.normal_offer.d_image.32b9190d4urdbn (accessed Aug. 20, 2022).

[52] BPS, “Indeks Harga Konsumen (2018=100) Menurut Kelompok dan Sub Kelompok 07 Informasi, Komunikasi dan Jasa Keuangan 2021.” https://www.bps.go.id/indicator/3/1911/2/indeks-harga-konsumen-2018-100-menurut-kelompok-dan-sub-kelompok-07-informasi-komunikasi-dan-jasa-keuangan.html (accessed Sep. 23, 2022).

[53] B. A. Shaw and K. W. Sowerby, *Traffic Profiles and Licensed Spectrum Sharing in Cellular Networks*. Sydney, 2017.

[54] Bank Indonesia, “ Suku Bunga Kredit Rupiah Menurut Kelompok Bank 2022,” *Badan Pusat Statistik*, Jun. 2022. https://www.bps.go.id/indicator/13/383/1/suku-bunga-kredit-rupiah-menurut-kelompok-bank.html (accessed Aug. 31, 2022).