

dilakukan dengan mensinergikan bank syariah dengan bank induknya, baik dalam transfer teknologi, *channel*, maupun strategi penguatan kelembagaan lainnya.

5.3 Keterbatasan Penelitian dan Arah Bagi Penelitian Selanjutnya

Penelitian ini mempunyai beberapa keterbatasan, antara lain:

1. Peneliti selanjutnya menguji variabel lain yang diharapkan dapat mempengaruhi efisiensi perbankan syariah. penentuan variabel-variabel independen agar lebih banyak dan divariasikan agar model yang diformulasikan lebih baik lagi.
2. Penambahan variabel makroekonomi dalam menganalisis kinerja efisiensi BUS.
3. Menambahkan sampel dan periode dalam penelitian.
4. Objek penelitian, selain kawasan Asia Tenggara (ASEAN), juga wilayah *Middle East Nort Africa* (MENA), wilayah Asia lainnya juga termasuk wilayah Eropa. Sehingga hasil penelitian akan lebih *comprehensive* dan lebih memiliki kontribusi.
5. Alat yang digunakan dalam menghitung tingkat efisiensi selain DEA juga digunakan alat analisis lain, sehingga hasil perhitungannya dapat diperbandingkan.

DAFTAR PUSTAKA

- Aam Slamet Rusydiana & Tim Smart Consulting. (2013). *Mengukur Tingkat Efisiensi Dengan Data Envelopment Analysis (DEA): Teori dan Aplikasi*, Bogor: SMART Publishing.
- Adhityawarman, Fafa Yushifa Permana. (2015). “Analisis Faktor-Faktor Yang Mempengaruhi Tingkat Efisiensi Perbankan Syariah di Indonesia”. *Diponegoro Journal Of Accounting* 4(3): 1-14.
- Aisyah, Siti and Muhamad Nadratuzzaman Hosen. (2018). “Total Factor Productivity and Efficiency Analysis on Islamic Banks in Indonesia”. *Jurnal Keuangan dan Perbankan* 22(1): 137–47.
- Alqahtani, Faisal, David G. Mayes, and Kym Brown. (2017). “Islamic Bank Efficiency Compared To Conventional Banks During the Global Crisis in the GCC Region”. *Journal International Finance Markets Institution Money* 51: 58–74.
- Anwar, Mokhamad. (2015). “Efficiency of Sharia and Conventional Banks: Evidence From Indonesia”. *Proceedings of the Asia Pacific Conference on Business and Social Sciences*: 615-34
- Archer, Timothy Scott. (2010). *The Efficiency Theory: Improving Society by Eliminating Wasteful Programs, Restructuring the Economy, and Fixing Education*. New York: CreateSpace Independent Publishing Platform
- Arfiani, Lydia Rahmadhini, dan Ade Sofyan Mulazid. (2017). “Analisis Faktor-Faktor yang Mempengaruhi Tingkat Bagi Hasil Simpanan Mudharabah pada Bank Umum Syariah Indonesia Studi Kasus pada Bank Umum Syariah di Indonesia Periode 2011-2015.” *Ekonomi Dan Perbankan Syariah* 4 (1): 1–23.
- Batir, Tugba Eyceyurt, David A. Volkman and Bener Gungor. (2017). “Determinants of Bank Efficiency in Turkey: Participation Banks Versus Conventional Banks”. *Borsa Istanbul Review* 17(2): 86-96.
- Berger, Allen N., and David B. Humphrey, (1997). “Efficiency of Financial Institutions: International Survey and Directions For Future Research”. *European Journal of Operational Research* 98: 175-212.
- Berger, Allen N., and Lorreta J. Mester. (1997). “Inside The Back Box: What Explains Differences in The Efficiencies of Financial Institutions?”. *Journal of Banking and Finance* 21(7): 895-947.
- Bhattacharyya, Aditi and Sudeshna Pal. (2013). “Financial Reforms and Technical Efficiency in Indian Commercial Banking: A Generalized Stochastic Frontier Analysis”. *Review of Financial Economics* 22(3): 109-17.
- Blaug, Mark. (2001). “Is Competition Such a Good Thing? Static Efficiency”. *Review of Industrial Organization* 19(1): 37–48.

- Carvallo, and Adnan Kasman. (2005). “Cost efficiency in the Latin American and Caribbean Banking Systems”. *Journal of International Financial Markets, Institutions and Money* 15(1): 55–72.
- Charnes, A, W. W Cooper, and E. Rhodes. (1978). Measuring efficiency and productivity change during the Asian financial crisis. *Internasional Journal of Services Technology and Management* 6 (6): 525-543
- Coelli T. J, *A Guide to DEAP Version 2.1: Data Envelopment Analysis (Computer) Program*, Armidale: University Of New England, 1996.
- Darrat, Ali F., Topuz, Can and Yousef, Tarik. (2002), “Assessing cost and technical efficiency of banks in Kuwait”, paper presented at the ERF’s 8th Annual Conference 2002, Cairo, Egypt: 1-22.
- Diana Yumanita dan Ascarya. (2005). *Analisa Efisiensi Perbankan Syariah Di Indonesia*, Pusat Pendidikan dan Studi Kebanksentralan: Bank Indonesia,
- Dong, Yizhe, Robert Hamilton and Mark Tippett. (2014). “Cost Efficiency of the Chinese Banking Sector: A Comparison of Stochastic Frontier Analysis and Data Envelopment Analysis”. *Economic Modelling* 36: 298–308.
- Endri. (2008). Efisiensi Teknis Perbankan Syariah di Indonesia. *Finance and Banking*
- Farell, Michael J. (1957). “The Measurement of Productive Efficiency”. *Journal of the Royal Statistical Society* 120(3): 253 – 90.
- Fathony, Moch. (2012). “Estimasi dan Faktor-Faktor yang Memengaruhi Efisiensi Bank Domesti dan Asing di Indonesia”. *Jurnal Keuangan dan Perbankan* 16(2): 223-37.
- Firdaus, Muhammad Faza and Muhamad Nadratuzzaman Hosen. 2013. “Efisiensi Bank Umum Syariah Menggunakan Pendekatan Two-Stage Data Envelopment Analysis”. *Buletin Ekonomi Moneter dan Perbankan Bank Indonesia* 16(2): 167-88.
- García, Jesús Gustavo Garza. (2012). “Determinants Of Bank Efficiency In Mexico: A Two-Stage Analysis”. *Applied Economics Letters* 19(17): 1679-82.
- Gemala, Dewi. (2004). *Aspek-aspek Hukum dalam Perbankan dan Perasuransian Syariah di Indonesia*, (Jakarta: Kencana) h. 61
- Ghafur, Muhammad. (2007). *Potret Perbankan Syariah di Indonesia Terkini: Kajian Kritis Perkembangan Perbankan Syariah*. Yogyakarta: Biruni Press.
- Ghofur, Abdul dan Sukmaningrum, Puji Sucia. (2018). *Pengaruh Good Corporate Governance Terhadap Efisiensi Bank Syariah Tahun 2012-2016 Dengan Kinerja*

- Sosial Sebagai Variabel Intervening.* Jurnal Ekonomi dan Bisnis Islam, Vol 4 No 1
- Global Islamic Finance Report. (2017). Islamic Finance Country Index 2016
- Hadad, Muliaman D., Wimboh Santoso, Eugenia Mardanugraha, and Dhaniel Illyas. (2003). “Pendekatan Parametrik Untuk Efisiensi Perbankan Indonesia”. *Riset Sistem Perbankan Bank Indonesia*: 1-25.
- Hansen, Don R., and Marynne M. Mowen. (2003). *Management Accounting, Sixth Edition*. United Stated of America: Thomson South Western.
- Hauner, David. (2005). “Explaining Efficiency Differences Among Large German and Austrian Banks”. *Applied Economics* 37(9): 969-80.
- Heralina, Aida. (2007). “Perbandingan Efisiensi Bank Syariah dan Bank Konvensional di Indonesia”. *Jurnal Ekonomi Keuangan dan Bisnis Islami*, 3(1): 1-18.
- Hidayat, Rahmat. (2014). *Efisiensi Perbankan Syariah: Teori dan Praktik*, Bekasi: Gramata Publishing.
- Husnan, Suad and Enny Pudjiastuti. (2006). *Dasar-Dasar Manajemen Keuangan. Edisi Kelima*. UPP STIM YKPN : Yogyakarta.
- Ibnu, Syamsi. (2004). *Efisiensi, Sistem, Dan Prosedur Kerja*, (Jakarta: PT Bumi Aksara.
- Karim, Adiwarman A. 2011. *Ekonomi Miko Islam*. Jakarta: Rajawali Press
- Karim, Mohd Zaini Abd, Chan, Sok-Gee Chan, and Sallahudin Hassan (2010). Bank Efficiency and Non-Performing Loan: Evidence From Malaysia and Singapore. *Prague Economic Paper* 2: 118- 32.
- Kumbhakar, Subal C., and C. A. Knox Lovell. (2000). *Stochastic Frontier Analysis*. Cambridge: Cambridge University Press
- Leibenstein, H. (1996). *Allocative Efficiency Vs' X-efficiency*, American Economic Review, Vol 56,392-425.
- Mankiw, N. Gregory. (2008). *Principles of Economics. 5th edition*. USA: South Western Cengange Learning.
- Mokhtar, Hamim S. Ahmad, Naziruddin Abdullah, and Syed Musa AlHabshi. (2007). “Technical and Cost Efficiency of Islamic Banking in Malaysia”, *Review of Islamic Economics* 11(1): 5-40.
- Muhammad, *Manajemen Bank Syariah: Edisi Revisi*, (Yogyakarta: Unit Penerbit dan Percetakan AMP YKPN, 2005) h. 21
- Muharam, Harjum, dan Pusvitasisari Rizki. 2007. “Analisis Perbandingan Efisiensi Bank Syariah di Indonesia dengan Metode Data Envelopment Analysis” II (3): 80–116.

- Muljawan, Dadang, Januar Hafidz, Rieska Indah Astuti, and Rini Oktapiani. 2014. “Faktor-Faktor Penentu Efisiensi Perbankan Indonesia Serta Dampaknya Terhadap Perhitungan Suku Bunga Kredit”. *Working Paper Bank Indonesia*, 2: 1-77.
- Noor, Mohamad Akbar Noor Mohamad and Nor Hayati Bt Ahmad. 2012. “The Determinants of World Islamic Banks’ Efficiency: Does Country Income Level have an Impact?”. *Journal of Islamic Economics, Banking and Finance*, 8 (2): 10-44.
- Otoritas Jasa Keuangan. 2018. Laporan Perkembangan
- Pambuko, Z. B. (2016). Determinan Tingkat Efisiensi Perbankan Syariah Di Indonesia: Two Stages Data Envelopment Analysis. [<http://journal.ummg.ac.id/index.php/cakrawala/article/view/249>]. *Cakrawala: Jurnal Studi Islam*, 11(2), 178-194.
- Ramly, Ar Royyan, dan Hakim Abdul. (2017). “Pemodelan Efisiensi Bank di Indonesia: Perbandingan antara Bank Syariah dan Bank Konvensional.” *Bisnis dan Manajemen* 7 (2): 131–48.
- Salvatore, Dominick. (2004). *Managerial Economics in a Global Economy: Fifth Edition*, New York: South Western Publishing Co.
- Setyaningsih, Ari, dan Setyaningsih Sri Utami. (2013). “Analisis Perbandingan Kinerja Keuangan Perbankan Syariah dengan Perbankan Konvensional.” *Jurnal Ekonomi dan Kewirausahaan* 13 (1): 100–115.
- Sufian, Fadzlan and M. Akbar Noor Mohamad Noor. (2009). The Determinants of Islamic Banks’ Efficiency Changes Empirical Evidence from the MENA and Asian Banking Sectors. *International Journal of Islamic and Middle Eastern Finance and Management*, 2(2): 120-38.
- Sufian, Fadzlan and Muhamed Zulkhibri Abd. Majid. (2007). “Consolidation and Efficiency: Evidence from Non-Bank Financial Institutions in Malaysia”. *Munich Personal Research Papers in Economics Paper*, 12 (2): 1-30
- Sufian, Fadzlan, Fakarudin Kamarudin and Annuar md. Nassir. (2016). “Determinants of Efficiency in the Malaysian Banking Sector: Does Bank Origins Matter?”. *Intellectual Economics* 10(1): 38-54
- Sufian, Fadzlan. (2006). “The Efficiency of Non-Bank Financial Institutions: Empirical Evidence from Malaysia”. *International Research Journal of Finance and Economics* (6): 49-65
- Sugiarto, Agus. (2003). Mencari Struktur Perbankan Yang Ideal. *Publikasi Perbankan dan Stabilitas Keuangan Bank Indonesia*: 1-8.
- Sugiyono. (2014). *Metode Penelitian Kuantitatif Kualitatif dan R&D*. Bandung: Alfabeta.

- Surifah. (2011). “Kepemilikan Ultimat, Tingkat Risiko, Efisiensi dan Kinerja Industri Perbankan di Indonesia”. *Jurnal Siasat Bisnis* 15 (1): 37-53.
- Survey and Directions for Future Research. *European Journal of Operational The Genewa Papers*, 32, pp. 264-282.
- Suseno, and Siti Astiyah. (2009). *Seri Kebanksentralan No. 22: Inflasi*. Jakarta: Pusat Pendidikan dan Studi Kebanksentralan (PPSK), Bank Indonesia
- Todaro, Michael P, and Stephen C Smith. (2011). *Economic Development*. 5th edition. England: Pearson Education.
- Wahab. 2015. “Analisis Faktor-Faktor Syariah di Indonesia dengan Pendekatan Two Stage Stochastic Frontier Aproach (Studi Analisis di Bank Umum Syariah).” *Jurnal Pemikiran dan Penelitian Ekonomi Islam* VI (2): 57–76
- Wang Wang, J. L., Jeng V., dan Peng, J. L. (2007). The Impact of Corporate Governance.
- Widiarti, Astoeti Wahjoe, Hermanto Siregar, and Trias Andati. (2015). “The Determinants Of Bank’s Efficiency In Indonesia”. *Buletin Ekonomi Moneter dan Perbankan Bank Indonesia* 18(2): 130-9