

DAFTAR PUSTAKA

- Addison, M., Bonuedi, I., Arhin, A. A., Wadei, B., Owusu-Addo, E., Fredua Antoh, E., & Mensah-Odum, N. (2024). Exploring the impact of agricultural digitalization on smallholder farmers' livelihoods in Ghana. *Heliyon*, 10(6), e27541. <https://doi.org/10.1016/j.heliyon.2024.e27541>.
- Ahmadi, S., Amendolagine, V., & LaSala, P. (2025). Unpacking the impacts of digitalization of knowledge transfer in agri-food sector, through sociotechnical systems theory: a systematic literature review. *Agricultural and Food Economics*, 13(1), 51. <https://doi.org/10.1186/s40100-025-00393-3>.
- Avila, F. R. de, & Barbosa, J. L. V. (2025). Smart environments in digital agriculture: a systematic review and taxonomy. *Computers and Electronics in Agriculture*, 236, 110393. <https://doi.org/10.1016/j.compag.2025.110393>.
- Azis, M., & Suryana, E. A. (2023). Komparasi dan Implementasi Kebijakan Digitalisasi Pertanian: Peluang dan Tantangan. *Jurnal Risalah Kebijakan Pertanian dan Lingkungan - Rumusan Kajian Strategis Bidang Pertanian Dan Lingkungan*, 10(3), 179-198. <https://doi.org/10.29244/jkebijakan.v10i3.51083>.
- Badan Pusat Statistik (2023). *Hasil Pencacahan Lengkap Sensus Pertanian 2023 Tahap I*. Badan Pusat Statistik.
- Badan Pusat Statistik. (2024). *Berita Resmi Statistik Keadaan Ketenagakerjaan Indonesia Agustus 2024*. Badan Pusat Statistik.

- Badan Pusat Statistik. (2025a). *Berita Resmi Statistik Pertumbuhan Ekonomi Indonesia Triwulan IV-2024*. Badan Pusat Statistik.
- Badan Pusat Statistik. (2025b). *Statistik Nilai Tukar Petani 2024 Volume 24*. Badan Pusat Statistik.
- Badan Pusat Statistik Provinsi Nusa Tenggara Timur. (2025). *Berita Resmi Statistik Pertumbuhan Ekonomi Provinsi Nusa Tenggara Timur Triwulan IV-2024*. Badan Pusat Statistik Provinsi Nusa Tenggara Timur.
- Badan Pusat Statistik. (n.d.). *Penduduk Berumur 15 Tahun Keatas yang Bekerja Selama Seminggu Terakhir Menurut Provinsi dan Lapangan Pekerjaan Utama, 2024*. Diakses pada 17 Februari 2025, dari <https://www.bps.go.id>.
- Badan Pusat Statistik. (n.d.). *Laju pertumbuhan produk domestik regional bruto atas dasar harga konstan 2010 menurut provinsi, 2024*. Diakses pada 22 Februari 2025, dari <https://www.bps.go.id>.
- Barki, K., & Rachmah, M. A. (2024). Systematic literature review: Agricultural digitalization, technological transformation towards efficient and sustainable agriculture. *Ege Üniversitesi Ziraat Fakültesi Dergisi*, 61(2), 259–271. <https://doi.org/10.20289/zfdergi.1382916>.
- Bukht, R., & Heeks, R. (2017). Defining, Conceptualising and Measuring the Digital Economy. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.3431732>.
- Caliendo, M., & Kopeinig, S. (2008). SOME PRACTICAL GUIDANCE FOR THE IMPLEMENTATION OF PROPENSITY SCORE MATCHING. *Journal of Economic Surveys*, 22(1), 31–72. <https://doi.org/10.1111/j.1467-6419.2007.00527.x>.

- Chulwa, A., Ibad, M., & Tanjung, A. (2022). Dampak Digitalisasi Pertanian terhadap Tingkat Ekonomi Masyarakat Petani di Kecamatan Adiluwih dan Gadingrejo Pringsewu. *Jurnal Perencanaan Dan Pengembangan Kebijakan*, 2(3), 176-183. <https://doi.org/10.35472/jppk.v2i3.845>.
- Creswell, J. W., & Creswell, J. D. (2023). *Research Design: Qualitative, quantitative and mixed methods approaches (6th ed.)*. SAGE Publications, Inc.
- Dunn, W. N. (2018). *Public Policy Analysis: An Integrated Approach (6th ed.)*. Routledge 2017.
- Fabregas, R., Kremer, M., & Schilbach, F. (2019). Realizing the potential of digital development: The case of agricultural advice. *Science*, 366(6471). <https://doi.org/10.1126/science.aay3038>.
- FAO. (2022). *The State of Food and Agriculture 2022: Leveraging automation in agriculture for transforming agrifood systems*. Rome: FAO. <https://doi.org/10.4060/cb9479en>.
- Forqan, B. N., Muslim, A., Aulia, R., Pertiwi, R.A., & Maulana, A. (2024). DAMPAK DIGITALISASI TERHADAP TINGKAT EKONOMI PETANI DI DESA KARANG INDAH SEBAGAI PERCONTOHAN DESA CERDAS. *Jurnal Agrimansion Agustus 2024*, 25 (2). <https://agrimansion.unram.ac.id/index.php/Agri/article/view/1701>.
- Fuglie, K., Gautam, M., Goyal, A., & Maloney, W. F. (2020). *Harvesting Prosperity: Technology and Productivity Growth in Agriculture*. World Bank. <https://doi.org/10.1596/978-1-4648-1393-1>.

- Goller, M., Caruso, C., & Harteis, C. (2021). Digitalisation in Agriculture: Knowledge and Learning Requirements of German Dairy Farmers. *International Journal for Research in Vocational Education and Training*, 8(2), 208–223. <https://doi.org/10.13152/IJRVET.8.2.4>.
- Harahap, L. M., Pakpahan, T. G., Wijaya, R. A., & Nasution, A. Z. (2024). Dampak Transformasi Digital pada Agribisnis: Tantangan dan Peluang bagi Petani di Indonesia. *Botani: Publikasi Ilmu Tanaman Dan Agribisnis*, 1(2), 99–108. <https://doi.org/10.62951/botani.v1i2.55>.
- Herin, F. P. (12 Desember 2025). Cuaca Ekstrem Berisiko Landa NTT. [kompas.id. https://www.kompas.id/artikel/cuaca-ekstrem-berisiko-landa-ntt](https://www.kompas.id/artikel/cuaca-ekstrem-berisiko-landa-ntt).
- Hsieh, H.-F., & Shannon, S. E. (2005). Three Approaches to Qualitative Content Analysis. *Qualitative Health Research*, 15(9), 1277–1288. <https://doi.org/10.1177/1049732305276687>.
- Klerkx, L., Jakku, E., & Labarthe, P. (2019). A review of social science on digital agriculture, smart farming and agriculture 4.0: New contributions and a future research agenda. *NJAS: Wageningen Journal of Life Sciences*, 90–91(1), 1–16. <https://doi.org/10.1016/j.njas.2019.100315>.
- Luo, X., Zhu, S., & Song, Z. (2023). Quantifying the Income-Increasing Effect of Digital Agriculture: Take the New Agricultural Tools of Smartphone as an Example. *International Journal of Environmental Research and Public Health*, 20(4), 3127. <https://doi.org/10.3390/ijerph20043127>.
- McFadden, J., Casalini, F., Griffin, T., & Antón, J. (2022). *The digitalisation of agriculture: A literature review and emerging policy issues* (OECD Food,

Agriculture and Fisheries Papers, No. 176).

<https://doi.org/10.1787/285cc27d-en>.

Mergel, I., Edelmann, N., Haug, N. (2019). Defining digital transformation: Results from expert interviews. *Government Information Quarterly*, 36(4).
<https://doi.org/10.1016/j.giq.2019.06.002>.

Miller, G. J., & Yang, K. (Eds.). (2008). *Handbook of research methods in public administration (2nd ed.)*. CRC Press.

Nasir, M. A., Ismiasih, & Jamhari. (2021). Digital extension and the development of agricultural performance in Indonesia. IOP Conference Series: *Earth and Environmental Science*, 883(1), 012040. <https://doi.org/10.1088/1755-1315/883/1/012040>.

OECD. (2019). *Going Digital: Shaping Policies, Improving Lives*. OECD.
<https://doi.org/10.1787/9789264312012-en>.

OECD. (2020). *OECD Digital Economy Outlook 2020*. OECD.
<https://doi.org/10.1787/bb167041-en>.

Porciello, J., Coggins, S., Mabaya, E., & Otunba-Payne, G. (2022). Digital agriculture services in low- and middle-income countries: A systematic scoping review. *Global Food Security*, 34, 100640.
<https://doi.org/10.1016/j.gfs.2022.100640>.

Pressman, J. L., & Wildavsky, A. B. (1973). *Implementation: How great expectations in Washington are dashed in Oakland; or, why it's amazing that federal programs work at all*. In The Oakland Project Series. Berkeley, CA: University of California Press.

- Rahman, M., Kohinoor, M. S. R., & Sami, A. A. (2023). Enhancing Poultry Farm Productivity Using IoT-Based Smart Farming Automation System. 2023 26th *International Conference on Computer and Information Technology (ICCIT)*, 1–6. <https://doi.org/10.1109/ICCIT60459.2023.10441525>.
- Riccucci, N. M. (2010). Public administration: *Traditions of inquiry and philosophies of knowledge*. Georgetown University Press.
- Rosenbaum, P. R., & Rubin, D. B. (1983). The Central Role of the Propensity Score in Observational Studies for Causal Effects. *Biometrika*, 70(1), 41. <https://doi.org/10.2307/2335942>.
- Sarkar, N. C., Mondal, K., Das, A., Mukherjee, A., Mandal, S., Ghosh, S., Bhattacharya, B., Lawes, R., & Samsul, H. (2023). Enhancing livelihoods in farming communities through super-resolution agromet advisories using advanced digital agriculture technologies. *Journal of Agrometeorology*, 25(1). <https://doi.org/10.54386/jam.v25i1.2080>.
- Schroeder, K., Lampietti, J., & Elabed, G. (2021). *What's Cooking: Digital Transformation of the Agrifood System*. World Bank. <https://doi.org/10.1596/978-1-4648-1657-4>.
- Sen, A. (1999). *Development as freedom*. Oxford University Press.
- Suntornmeth, P., Fankam-Ai, W., Homjun, K., Ketui, N., Sanguansri, A., & Kaewsirirung, S. (2025). Enhancing Social and Economic Well-being through Smart Farming: A Case Study in Pa-Laew Pak Dee Dee, Nan, Thailand. 2025 *Joint International Conference on Digital Arts, Media and Technology with ECTI Northern Section Conference on Electrical, Electronics, Computer and Telecommunications Engineering (ECTI DAMT*

& *NCON*), 152–157.

<https://doi.org/10.1109/ECTIDAMTNCON64748.2025.10962083>.

Van Meter, D. S., & Van Horn, C. E. (1975). The Policy Implementation Process.

Administration & Society, 6(4), 445–488.

<https://doi.org/10.1177/009539977500600404>.

Verbeek, P.-P. (2009). Let's Make Things Better: A Reply to My Readers. *Human*

Studies, 32(2), 251–261. <https://doi.org/10.1007/s10746-009-9118-0>.

Verbeek, P.-P. (2020). *What things do: philosophical reflections on technology,*

agency, and design. The Pennsylvania State University Press.

<https://doi.org/10.5325/j.ctv14gp4w7>.

Wei, H., Wang, Y., Yang, C., & Yu, P. (2024). Empirical Analysis of the Role of

Digital Agriculture in Enabling Coordinated Development of Ecosystem

Services and Human Well-Being: Evidence from Provincial Panel Data in

China. *Sustainability*, 16(23), 10199. <https://doi.org/10.3390/su162310199>.