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## Title

***E-Government as a Development Strategy: The Case of Estonia***

## Abstract

This paper examines the role of e-government (EG) in fostering economic transition and development, focusing on the Estonian case. Positioned as a development strategy, EG utilizes information and communication technologies in the public sector to enhance competitiveness and well-being. Drawing from Weberian bureaucracy, it highlights two crucial institutions: secure property rights and governance rules emphasizing transparency, trust, and security (TTS). These institutions offer a comprehensive perspective on the positive impacts of EG. The paper suggests strategies for optimizing these effects, concluding with recommendations for EG implementation and proposing avenues for further research in developing country contexts. © 2024 Taylor & Francis Group, LLC.

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## References

Acemoglu D., Naidu S., Restrepo P., Robinson J.A., Democracy does cause growth, *Journal of Political Economy*, 127, 1, pp. 47-100, (2019); Acemoglu D., Robinson J.A., Rents and economic development: The perspective of why nations fail, *Public Choice*, 181, 1-2, pp. 13-28, (2019); Acs Z.J., Estrin S., Mickiewicz T., Szerb L., Entrepreneurship, institutional economics, and economic growth: An ecosystem perspective, *Small Business Economics*, 51, 2, pp. 501-514, (2018); Acs Z.J., Szerb L., Entrepreneurship, economic growth and public policy, *Small Business Economics*, 28, 2-3, pp. 109-122, (2007); Ahn M.J., Bretschneider S., Politics of e-government: E-government and the political control of bureaucracy, *Public Administration Review*, 71, 3, pp. 414-424, (2011); Allen D.W., Berg C., Lane A.M., Potts J., Cryptodemocracy and its institutional possibilities, *The Review of Austrian Economics*, 33, 3, pp. 363-374, (2020); Almarabeh T., AbuAli A., A general framework for e-government: Definition maturity challenges, opportunities, and success, *European Journal of Scientific Research*, 39, 1, pp. 29-42, (2010); Araujo L., Saltelli A., Schnepf S.V., Do PISA data justify PISA-based education policy?, *International Journal of Comparative Education and Development*, 19, 1, pp. 20-34,

---

(2017); Barbosa A.F., Pozzebon M., Diniz E.H., Rethinking e-government performance assessment from a citizen perspective, *Public Administration*, 91, 3, pp. 744-762, (2013); Bauer P.T., From subsistence to exchange and other essays, (2000); Boettke P., Economics and public administration, *Southern Economic Journal*, 84, 4, pp. 938-959, (2018); Boltho A., Southern and Eastern Europe in the eurozone: Convergence or divergence?, *Baltic Journal of Economics*, 20, 1, pp. 74-93, (2020); Breugh J., Rackwitz M., Hammerschmid G., Leadership and institutional design in collaborative government digitalisation: Evidence from Belgium, Denmark, Estonia, Germany, and the UK, *Government Information Quarterly*, 40, 2, (2023); Brown D., Electronic government and public administration, *International Review of Administrative Sciences*, 71, 2, pp. 241-254, (2005); Bylund P.L., Packard M.D., Subjective value in entrepreneurship, *Small Business Economics*, 58, 3, pp. 1243-1260, (2022); Carter L., Yoon V., Liu D., Analyzing e-government design science artifacts: A systematic literature review, *International Journal of Information Management*, 62, (2022); Castaneda L.E.B., E-government in Latin America: A systematic review, *Revista Científica Interdisciplinaria Investigación y Saberes*, 11, 3, pp. 71-88, (2021); Chavan J., Internet banking-benefits and challenges in an emerging economy, *International Journal of Research in Business Management*, 1, 1, pp. 19-26, (2013); Cordella A., Bonina C.M., A public value perspective for ICT enabled public sector reforms: A theoretical reflection, *Government Information Quarterly*, 29, 4, pp. 512-520, (2012); Cubo A., Hernandez J.L., Porrua M., Roseth B., Guía de transformación digital del gobierno, (2022); Cucciniello M., Nasi G., Transparency for trust in government: How effective is formal transparency?, *International Journal of Public Administration*, 37, 13, pp. 911-921, (2014); D'Hauwers R., van der Bank J., Montakhabi M., Trust, transparency and security in the sharing economy: What is the government's role?, *Technology Innovation Management Review*, 10, 5, pp. 6-18, (2020); Davidson S., De Filippi P., Potts J., Blockchains and the economic institutions of capitalism, *Journal of*

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Institutional Economics, 14, 4, pp. 639-658, (2018); Davison R.M., Wagner C., Ma L.C., From government to e-government: A transition model, Information Technology & People, 18, 3, pp. 280-299, (2005); Doran N.M., Puiu S., Badircea R.M., Pirtea M.G., Doran M.D., Ciobanu G., Mihit L.D., E-government development—A key factor in government administration effectiveness in the European Union, Electronics, 12, 3, (2023); We have built a digital society, and we can show you how, (2024); Ehin P., Solvak M., Willemsen J., Vinkel P., Internet voting in Estonia 2005–2019: Evidence from eleven elections, Government Information Quarterly, 39, 4, (2022); Endres A.M., Harper D.A., Economic development and complexity: The role of recombinant capital, Cambridge Journal of Economics, 44, 1, pp. 157-180, (2020); Espinosa V.I., Salvador Allende’s development policy: Lessons after 50 years, Economic Affairs, 41, 1, pp. 96-110, (2021); Espinosa V.I., Principios Modernos de Economía del Desarrollo, (2023); Espinosa V.I., Alonso Neira M.A., Huerta de Soto J., Principles of sustainable economic growth and development: A call to action in a post-COVID-19 world, Sustainability, 13, 23, (2021); European green capital award, (2023); Evans D., Yen D.C., E-Government: Evolving relationship of citizens and government, domestic, and international development, Government Information Quarterly, 23, 2, pp. 207-235, (2006); Feldmann H., Economic freedom and human capital investment, Journal of Institutional Economics, 13, 2, pp. 421-445, (2017); Fleetwood S., Austrian economics and the analysis of labor markets, The Review of Austrian Economics, 20, 4, pp. 247-267, (2007); Foss N.J., Klein P.G., Bjornskov C., The context of entrepreneurial judgment: Organizations, markets, and institutions, Journal of Management Studies, 56, 6, pp. 1197-1213, (2019); Fountain J.E., Building the virtual state: Information technology and institutional change, (2004); Fountain J.E., On the effects of e-government on political institutions, Routledge handbook of science, technology, and society, pp. 462-478, (2014); Frolund C.W., Institutions, uncertainty, and entrepreneurial judgment, Journal of Institutional Economics, 17, 6, pp. 913-923, (2021); Fugini M.G.,

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Maggiolini P., Valles R.S., E-Government and employment services: A case study in effectiveness, (2014); Fung A., Putting the public back into governance: The challenges of citizen participation and its future, *Public Administration Review*, 75, 4, pp. 513-522, (2015); Gerxhani K., Cichocki S., Formal and informal institutions: Understanding the shadow economy in transition countries, *Journal of Institutional Economics*, 19, 5, pp. 1-17, (2023); Gibreel O., Hong A., A holistic analysis approach to social, technical, and socio-technical aspect of e-government development, *Sustainability*, 9, 12, (2017); Gil-Garcia J.R., Dawes S.S., Pardo T.A., Digital government and public management research: Finding the crossroads, *Public Management Review*, 20, 5, pp. 633-646, (2018); Grimmelikhuijsen S., Linking transparency, knowledge and citizen trust in government: An experiment, *International Review of Administrative Sciences*, 78, 1, pp. 50-73, (2012); Gwartney J., Lawson R., The concept and measurement of economic freedom, *European Journal of Political Economy*, 19, 3, pp. 405-430, (2003); Hall J.C., Lawson R.A., Economic freedom of the world: An accounting of the literature, *Contemporary Economic Policy*, 32, 1, pp. 1-19, (2014); Handoyo S., Worldwide governance indicators: Cross country data set 2012-2022, *Data in Brief*, 51, (2023); Hellmann T., Thiele V., Scaling versus selling startups: The role of foreign acquirers in entrepreneurial ecosystems, *Journal of Political Economy Microeconomics*, 1, 2, pp. 348-399, (2023); Hooda A., Gupta P., Jeyaraj A., Giannakis M., Dwivedi Y.K., The effects of trust on behavioral intention and use behavior within e-government contexts, *International Journal of Information Management*, 67, (2022); Huerta de Soto J., Statism and the economy: The deadliest virus, (2024); World digital competitiveness ranking, (2024); Janowski T., Digital government evolution: From transformation to contextualization, *Government Information Quarterly*, 32, 3, pp. 221-236, (2015); Kassen M., Blockchain and e-government innovation: Automation of public information processes, *Information Systems*, 103, (2022); Kim S., Lee J., E-participation, transparency, and trust in local government, *Public Administration*

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Review, 72, 6, pp. 819-828, (2012); Kirzner I.M., The entrepreneurial market process—An exposition, Southern Economic Journal, 83, 4, pp. 855-868, (2017); Klesment M., The Estonian economy under soviet rule: A historiographic overview, Journal of Baltic Studies, 40, 2, pp. 245-264, (2009); Kocisova K., Stavarek D., The evaluation of banking stability in the European Union countries, International Journal of Monetary Economics and Finance, 11, 1, pp. 36-55, (2018); Laar M., Leading a successful transition: The Estonian miracle, European View, 7, 1, pp. 67-74, (2008); Laffer A.B., The Laffer curve: Past, present, and future, Background, 1765, 1, pp. 1-16, (2004); Lips M., Digital government: Managing public sector reform in the digital era, (2019); Liuhto K., Entrepreneurial transition in post-soviet republics: The Estonian path, Europe-Asia Studies, 48, 1, pp. 121-140, (1996); MacLean D., Titah R., A systematic literature review of empirical research on the impacts of e-government: A public value perspective, Public Administration Review, 82, 1, pp. 23-38, (2022); Maharaj M.S., Munyoka W., Privacy, security, trust, risk and optimism bias in e-government use: The case of two southern African development community countries, South African Journal of Information Management, 21, 1, pp. 1-9, (2019); McMahon F., Economic freedom (Fraser Institute and Heritage Foundation), Encyclopedia of quality of life and well-being research, pp. 1795-1799, (2014); Mehisto P., Kitsing M., Lessons from Estonia's education success story: Exploring equity and high performance through PISA, (2022); Meynhardt T., Public value inside: What is public value creation?, International Journal of Public Administration, 32, 3-4, pp. 192-219, (2009); Miljan T., Historical dictionary of Estonia, (2015); Miller T., Kim A., Roberts J., Index of economic freedom, (2022); Mitchell M.D., Boettke P.J., Zhukov K., The road to freedom: Estonia's rise from soviet vassal state to one of the freest nations on earth, (2023); Nofer M., Gomber P., Hinz O., Schiereck D., Blockchain, Business & Information Systems Engineering, 59, 3, pp. 183-187, (2017); Olnes S., Ubacht J., Janssen M., Blockchain in government: Benefits and implications of distributed ledger technology for

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information sharing, *Government Information Quarterly*, 34, 3, pp. 355-364, (2017); Pakhnenko O., Kuan Z., Ethics of digital innovation in public administration, *Business Ethics and Leadership*, 7, 1, pp. 113-121, (2023); Piano E.E., Salter A.W., The fundamental Coase of development: Property rights foundations of the effective state, *Journal of Institutional Economics*, 17, 1, pp. 37-52, (2021); Potts J., Evolutionary institutional economics, *Journal of Economic Issues*, 41, 2, pp. 341-350, (2007); PISA results, (2024); Purju A., Voucher privatisation in Estonia, *Communist Economies and Economic Transformation*, 7, 3, pp. 385-408, (1995); Redford A., Property rights, entrepreneurship, and economic development, *The Review of Austrian Economics*, 33, 1-2, pp. 139-161, (2020); Semenzin S., Rozas D., Hassan S., Blockchain-based application at a governmental level: Disruption or illusion? The case of Estonia, *Policy and Society*, 41, 3, pp. 386-401, (2022); Sokolov B., Kolosov A., Blockchain technology as a platform for integrating corporate systems, *Automatic Control and Computer Sciences*, 55, 3, pp. 234-242, (2021); Szentmihalyi S., Digitalisation and convergence—the example of Estonia, *Financial and Economic Review*, 22, 1, pp. 143-158, (2023); Tammpuu P., Masso A., Transnational digital identity as an instrument for global digital citizenship: The case of Estonia’s E-residency, *Information Systems Frontiers*, 21, 3, pp. 621-634, (2019); Tarko V., Understanding post-communist transitions: The relevance of Austrian economics, *The Review of Austrian Economics*, 33, 1-2, pp. 163-186, (2020); International tax competitiveness index, (2023); Taylor N., *Estonia: A modern history*, (2020); Tolbert C.J., Mossberger K., The effects of e-government on trust and confidence in government, *Public Administration Review*, 66, 3, pp. 354-369, (2006); Troitino D.R., Priorities and challenges: The digital transition in the European integration, *Digital development of the European Union: An interdisciplinary perspective*, pp. 7-19, (2023); Twizeyimana J.D., Andersson A., The public value of E-Government—A literature review, *Government Information Quarterly*, 36, 2, pp. 167-178, (2019); E-Government development index (EGDI), (2024); Human development reports,

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(2023); Weerakkody V., Irani Z., Lee H., Osman I., Hindi N., E-government implementation: A bird's eye view of issues relating to costs, opportunities, benefits and risks, *Information Systems Frontiers*, 17, 4, pp. 889-915, (2015); West D.M., Equity and accessibility in e-government: A policy perspective, *Journal of E-Government*, 1, 2, pp. 31-43, (2005); World development indicators, (2024); Zhang Y., Kimathi F.A., Exploring the stages of E-government development from public value perspective, *Technology in Society*, 69, (2022)

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