

REFERENCES

- Aarntzen, R. (2016). *The Use of Frameworks in Business Model Development* (Master's Thesis). Retrieved from https://essay.utwente.nl/70784/1/Aarntzen_MA_BMS.pdf
- Abdelkafi, N., & Tauscher, K. (2016). Business Models for Sustainability from a System Dynamics Perspective. *Organization and Environment*, 29(1), 74–96. <https://doi.org/10.1177/1086026615592930>
- Abdul-Rahman, H., Wang, C., & Mohamad, F. S. (2015). Implementation of Risk Management in Malaysian Construction Industry: Case Studies. *Journal of Construction Engineering*, <http://dx.doi.org/10.1155/2015/192742>
- Abraham, S. (2013). Will business model innovation replace strategic analysis? *Strategy & Leadership*, 41(2), 31–38. <https://doi.org/10.1108/10878571311318222>
- Abuzeinab, A., & Arif, M. (2014). Stakeholder Engagement: A Green Business Model Indicator. *Procedia Economics and Finance*, 18(December), 505–512. [https://doi.org/10.1016/s2212-5671\(14\)00969-1](https://doi.org/10.1016/s2212-5671(14)00969-1)
- Abuzeinab, A., Arif, M., & Qadri, M. A. (2017). Barriers to MNEs green business models in the UK construction sector: An ISM analysis. *Journal of Cleaner Production*, 160, 27–37. <https://doi.org/10.1016/j.jclepro.2017.01.003>
- Abuzeinab, A., Arif, M., & Thompson, W. (2014). Green business models in the UK construction sector: Empirical study. *IIE Annual Conference and Expo 2014*, 4134–4140.
- Achtenhagen, L., Melin, L., & Naldi, L. (2013). Dynamics of Business Models – Strategizing, Critical Capabilities and Activities for Sustained Value Creation. *Long range planning*, 46(6): 427-442. <http://dx.doi.org/10.1016/j.lrp.2013.04.002>
- Ahmed, S., Hossain, M. M., & Haq, I. (2021). Implementation of lean construction in the construction industry in Bangladesh: awareness, benefits and challenges. *International Journal of Building Pathology and Adaptation*, 39(2).
- Aho, I. (2013). Value-added business models: Linking professionalism and delivery of sustainability. *Building Research and Information*, 41(1), 110–114. <https://doi.org/10.1080/09613218.2013.736203>

- Akkermans, H., & Gordijn, J. (2006). Ontology Engineering, Scientific Method and the Research Agenda. In *EKAW2006, LNAI 4248*. (pp. 112-125). <https://research.e3value.com/docs/bibtex/pdf/AkkermansOE2006.pdf>
- Al-Debei, M. M., & Avison, D. (2010). Developing a unified framework of the business model concept. *European Journal of Information Systems*, 19(3), 359–376. <https://doi.org/10.1057/ejis.2010.21>
- Al-Debei, M. M., El-Haddadeh, R., & Avison, D. (2008). Defining the Business Model in the New World of Digital Business. *Proc AMICS 2008, 2000*, 1–11.
- Aliakbarlou, S., Wilkinson, S., & Costello, S. B. (2018), Rethinking client value within construction contracting services, *International Journal of Managing Projects in Business*, 11(4). <https://doi.org/10.1108/IJMPB-07-2017-0076>
- Al-Saleh, Y., & Mahroum, S. (2015). A critical review of the interplay between policy instruments and business models: Greening the built environment a case in point. *Journal of Cleaner Production*, 109(September 2014), 260–270. <https://doi.org/10.1016/j.jclepro.2014.08.042>
- Amit, R., & Zott, C. (2001). Value creation in e-business. *Strategic Management Journal*, 22(6–7), 493–520. <https://doi.org/10.1002/smj.187>
- Amit, R., & Zott, C. (2009). Crafting Business Architecture: The Antecedents of Business Model Design. *Strategic Entrepreneurship Journal*, 9(4), 331-350. <https://faculty.wharton.upenn.edu/wp-content/uploads/2020/04/Crafting-Business-Architecture-The-antecedents-of-business-model-design.pdf>
- Amit, R., & Zott, C. (2009). Designing Your Future Business Model: an Activity System Perspective. *Business*, 3, 463–468. <https://doi.org/10.2139/ssrn.1356511>
- Andersson, B., Bergholtz, M., Edirisuriya, A., Ilayperuma, T., Johannesson, P., Gordijn, J., ... Weigand, H. (2005). Towards a Reference Ontology for Business Models, 482–496. https://doi.org/10.1007/11901181_36
- Antunes, R., & Gonzalez, V. (2015). A Production Model for Construction: A Theoretical Framework. *Buildings*, 5(1), 209-228. doi:10.3390/buildings50102095
- Antwi, S. K., & Hamza, K. (2015). Qualitative and Quantitative Research Paradigms in Business Research: A Philosophical Reflection. *European Journal of Business and Management*, 7(3), 217-225.

- Anwar, M. (2018). Business model innovation and SMEs Performance—Does competitive advantage mediate? *International Journal of Innovation Management*, 22(7), 1–31. <https://doi.org/10.1142/S1363919618500573>
- Arend, R. J. (2013). The business model: Present and future-beyond a skeumorph. *Strategic Organization*, 11(4), 390–402. <https://doi.org/10.1177/1476127013499636>
- Assaad, R., & El-Adaway, I. H. (2020). Enhancing the knowledge of construction business failure: A social network analysis approach. *Journal of construction engineering and management*, 146(6), 04020052. <https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29CO.1943-7862.0001831>
- Attanasio, G., Preghenella, N., De Toni, A. F., & Battistella, C. (2022). Stakeholder engagement in business models for sustainability: The stakeholder value flow model for sustainable development. *Business Strategy and the Environment*, 31(3), 860–874. <https://onlinelibrary.wiley.com/doi/full/10.1002/bse.2922>
- Azzam, T., Evergreen, S., Germuth, A. A., & Kistler, S. J. (2013). Data visualization and evaluation. In T. Azzam & S. Evergreen (Eds.), *Data visualization, part 1. New Directions for Evaluation*, 139, 7–32.
- Baden-Fuller, C., & Mangematin, V. (2013). Business models: A challenging agenda. *Strategic Organization*, 11(4), 418–427. <https://doi.org/10.1177/1476127013510112>
- Baden-Fuller, C., & Morgan, M. S. (2010). Business models as models. *Long Range Planning*, 43(2–3), 156–171. <https://doi.org/10.1016/j.lrp.2010.02.005>
- Balatbat, M. C. A., Lin, C., & Carmichael, D. G. (2011). Management efficiency performance of construction businesses: Australian data. *Engineering, Construction and Architectural Management*, 18(2), 140–158. <https://doi.org/10.1108/0969998111111120>
- Baškarada, S. (2014). Qualitative Case Study Guidelines. *The Qualitative Report*, 19(40), 1–18. Retrieved from <https://nsuworks.nova.edu/tqr/vol19/iss40/3>
- Beattie, V., & Smith, S. J. (2013). Value creation and business models: Refocusing the intellectual capital debate. *British Accounting Review*, 45(4), 243–254. <https://doi.org/10.1016/j.bar.2013.06.001>
- Bengtsson, M., & Hansen, E. H. (2018). *A comparison of two frameworks for Business Model Ideation* [Norwegian School of Economics].

<https://brage.bibsys.no/xmlui/bitstream/handle/11250/2560484/masterthesis.PDF?sequence=1>

- Berg, J. B., Thuesen, C., Ernstsen, S. K., & Anker, P. (2019). Constructing archetypes: mapping business models in the construction value chain. *Proceedings of the 35th Annual ARCOM Conference, September*, 2–4.
- Berglund, H., & Sandström, C. (2013). Business model innovation from an open systems perspective: structural challenges and managerial solutions. *Int. J. Product Development*, 18(3/4), 274-285.
- Bertels, H. M., Koen, P. A., & Elsum, I. (2015). Business models outside the core lessons learned from success and failure. *Research Technology Management*, 58(2), 20–29. <https://doi.org/10.5437/08956308X5802294>
- Birkin, F., Cashman, A., Koh, S. C. L., & Liu, Z. (2009). New sustainable business models in China. *Business Strategy and the Environment*, 18(1), 64–77. <https://doi.org/10.1002/bse.568>
- Bizon-Górecka, J., & Górecki, J. (2017). Influence of Selected Stakeholders of Construction Investment Projects on the Course of Project. *IOP Conference Series: Materials Science and Engineering*, 245(7). <https://doi.org/10.1088/1757-899X/245/7/072018>
- Bock, A. J., & George, G. (2011). The Business Model in Practice and its Implications for Entrepreneurship Research. *Entrepreneurship: Theory and Practice*, 35(1), 83–111. <https://doi.org/10.1111/j.1540-6520.2010.00424.x>
- Bock, A. J., Opsahl, T., George, G., & Gann, D. M. (2012). The Effects of Culture and Structure on Strategic Flexibility during Business Model Innovation. *Journal of Management Studies*, 49(2), 279–305. <https://doi.org/10.1111/j.1467-6486.2011.01030.x>
- Bocken, N. M. P., & Short, S. W. (2016). Towards a sufficiency-driven business model: Experiences and opportunities. *Environmental Innovation and Societal Transitions*, 18, 41–61. <https://doi.org/10.1016/j.eist.2015.07.010>
- Bocken, N. M. P., Short, S. W., Rana, P., & Evans, S. (2014). A literature and practice review to develop sustainable business model archetypes. *Journal of Cleaner Production*, 65, 42–56. <https://doi.org/10.1016/j.jclepro.2013.11.039>
- Bocken, N., Short, S., Rana, P., & Evans, S. (2013). A value mapping tool for sustainable business modelling. *Corporate Governance: The International Journal of Business in Society*, 13(5), 482–497. <https://doi.org/10.1108/CG-06-2013-0078>

- Bocken, N., Short, S., Rana, P., & Evans, S. (2013). A value mapping tool for sustainable business modelling. *Corporate Governance*, 13 (5). 482 – 497. <http://dx.doi.org/10.1108/CG-06-2013-0078>
- Boons, F., & Lüdeke-Freund, F. (2013). Business models for sustainable innovation: State-of-the-art and steps towards a research agenda. *Journal of Cleaner Production*, 45, 9–19. <https://doi.org/10.1016/j.jclepro.2012.07.007>
- Boons, F., Montalvo, C., Quist, J., & Wagner, M. (2013). Sustainable innovation, business models and economic performance: An overview. *Journal of Cleaner Production*, 45(April 2013), 1–8. <https://doi.org/10.1016/j.jclepro.2012.08.013>
- Bos-de Vos, M., Volker, L., & Wamelink, H. (2019). Enhancing value capture by managing risks of value slippage in and across projects. *International journal of project management*, 37(5), 767-783.
- Bouwman, H., de Reuver, M., Heikkilä, M., & Fielt, E. (2020). Business model tooling: where research and practice meet. *Electronic Markets*, 30(3), 413–419. <https://doi.org/10.1007/s12525-020-00424-5>
- Brady, T., Davies, A., & Gann, D. (2005). Can integrated solutions business models work in construction? *Building Research and Information*, 33(6), 571–579. <https://doi.org/10.1080/09613210500285064>
- Brege, S., Stehn, L., & Nord, T. (2014). Business models in industrialized building of multi-storey houses. *Construction Management and Economics*, 32(1–2), 208–226. <https://doi.org/10.1080/01446193.2013.840734>
- Breuer, H., & Lüdeke-Freund, F. (2014). Normative Innovation for Sustainable Business Models in Value Networks. *The Proceedings of XXV ISPIM Conference - Innovation for Sustainable Economy and Society, June*.
- Breuer, H., Fichter, K., Lüdeke-Freund, F. and Tiemann, I. (2018). Sustainability-oriented business model development: principles, criteria and tools. *International Journal Entrepreneurial Venturing*, 10(2), 256–286.
- Bröchner, J. (2010). Construction contractors as service innovators. *Building Research and Information*, 38(3), 235–246. <https://doi.org/10.1080/09613211003616706>
- Brousseau, E., & Penard, T. (2009). The Economics of Digital Business Models: A Framework for Analyzing the Economics of Platforms. *Review of Network Economics*, 6(2), 81–114. <https://doi.org/10.2202/1446-9022.1112>

- Brunoro, S., Di Giulio, R., Luig, K., Jansen, D., & Bizzarri, G. (2018). Optimizing Energy Efficiency in Collective Self-Organized Housing: Oriented Business Model and Application. *Journal of Architectural Engineering*, 24(3), 1–15. [https://doi.org/10.1061/\(ASCE\)AE.1943-5568.0000317](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000317)
- Bryman, A. (2012). *Social Research Methods* (4th ed). Oxford University Press.
- Bullinger, H., Nägele, R., Rueger, M., & Fischer, D. (2016). Business Model Innovation: From Technology Market to Market Success. *PICMET '16: Technology Management for Social Innovation*, 1264–1270. <https://doi.org/10.1109/PICMET.2016.7806562>
- Caro, F., & Martinez-de-Albeniz, V. (2009). Fast Fashion: Business Model Overview and Research Opportunities. In *Retail Supply Chain Management: Quantitative Models and Empirical Studies* (Vol. 122, pp. 237–264). <https://doi.org/10.1007/978-0-387-78902-6>
- Casadesus-Masanell, R., & Heilbron, J. (2015). Business Models Nature and Benefits. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.2606692>
- Casadesus-Masanell, R., & Ricart, J. (2010). From strategy to business models and onto tactics. *Long Range Planning*, 45. <https://doi.org/10.1016/j.lrp.2010.01.004>
- Casadesus-Masanell, R., & Zhu, F. (2013). Business model innovation and competitive imitation: The case of sponsor-based business models. *Strategic Management Journal*, 34(4), 464–482. <https://doi.org/10.1002/smj.2022>
- Cavalcante, S., Kesting, P., & Ulhøi, J. (2011). Business model dynamics and innovation: (re)establishing the missing linkages. *Management Decision*, 49(8), 1327–1342. <https://doi.org/10.1108/00251741111163142>
- Central Bank of Sri Lanka. (2021). *Economic and Social Statistics of Sri Lanka 2021*. <https://www.cbsl.gov.lk/en/publications/other-publications/statistical-publications/economic-and-social-statistics-of-sri-lanka/ess-2021>
- Cheng, E. W. L., Li, H., Love, P. E. D., & Irani, Z. (2001). An e-business model to support supply chain activities in construction. *Logistics Information Management*, 14(1/2), 68–78. <https://doi.org/10.1108/09576050110363239>
- Chesbrough, H. (2010). Business Model Innovation: Opportunities and Barriers, *Long Range Planning*, 43(2-3), 354-363. doi: 10.1016/j.lrp.2009.07.010

- Chesbrough, H. (2007a). Business model innovation: it's not just about technology anymore. *Strategy & Leadership*, 35(6), 12–17. <https://doi.org/10.1108/10878570710833714>
- Chesbrough, H. (2010). Business model innovation: Opportunities and barriers. *Long Range Planning*, 43(2–3), 354–363. <https://doi.org/10.1016/j.lrp.2009.07.010>
- Chesbrough, H. W. (2007b). Have Open Business Models. *MITSloan Management Review*, 48(2), 22–28. https://doi.org/10.1111/j.1540-5885.2008.00309_1.x
- Chinowsky, P., Molenaar, K., & Realph, A. (2007). Learning Organizations in Construction. *Journal of Management in Engineering*, 23(1), 27–34. [https://doi.org/10.1061/\(ASCE\)0742-597X\(2007\)23:1\(27\)](https://doi.org/10.1061/(ASCE)0742-597X(2007)23:1(27))
- Chinyio, E., & Olomolaiye, P. (2010). Construction Stakeholder Management. In *Construction Stakeholder Management* (Issue June 2018). <https://doi.org/10.1002/9781444315349>
- Christensen, L. B., Johnson, R. B., & Turner, L. A. (2014). *Research Methods, Design, and Analysis* (12th ed), USA: Pearson.
- Christian, T., & Lars, H. (2013). Rethinking the Business Model in Construction by the Use of Off-Site System Deliverance: Case of the Shaft Project. *Journal of Architectural Engineering*, 19(4), 279–287. doi:10.1061/(ASCE)AE.1943-5568.0000095
- Cocchi, A. (2013). The emerging properties of business models: A systemic approach. *Technology Transfer in a Global Economy*, 277–302. https://doi.org/10.1007/978-1-4614-6102-9_15
- Cosenz, F., & Noto, G. (2018). A dynamic business modelling approach to design and experiment new business venture strategies. *Long Range Planning*, 51(1), 127–140. <https://doi.org/10.1016/j.lrp.2017.07.001>
- Crespin-Mazet, F., & Ghauri, P. (2007). Co-development as a marketing strategy in the construction industry. *Industrial Marketing Management*, 36(2), 158–172. <https://doi.org/10.1016/j.indmarman.2006.02.011>
- Creswell, J. W. (2014). *Research Design: Qualitative, Quantitative and Mixed Methods Approaches* (4th ed). Thousand Oaks, CA: Sage
- Creswell, J.W. (2002). *Research design: Qualitative, quantitative, and mixed methods approaches*. New York: Sage Publications.

- Cunningham, G., & Odeyinka, H. (2016). Risks Associated with Current Business Development and Innovation Strategies Within Construction Organisations in Northern Ireland. *Cobra 2016, September*.
- D'Souza, A., Wortmann, J.C., Huitema, G., & Velthuijsen, H. (2015). A business model design framework for viability; a business ecosystem approach. *Journal of Business Models*, 3(2), 1-29.
- Dalby, J., Lueg, R., Nielsen, L. S., Pedersen, L., & Tomoni, A. C. (2014). National Culture and Business Model Change — A Framework for Successful Expansions. *Journal of Enterprising Culture*, 22(04), 463–483. <https://doi.org/10.1142/S0218495814500198>
- Das, P., Perera, S., Senaratne, S., & Osei-Kyei, R. (2020). Developing a construction business model transformation canvas. *Engineering, Construction and Architectural Management*, 28(5), 1423–1439. <https://doi.org/10.1108/ECAM-09-2020-0712>
- Das, P., Perera, S., Senaratne, S., & Robert, O.-K. (2019). Smart Modern Construction Businesses: The Transforming Business Models in Industry 4.0. *Proceedings of the 2019 International Conference on Innovation, Technology, Enterprise and Entrepreneurship (ICITEE 2019)*, 24-25 November 2019, 365–374.
- DaSilva, C. M., & Trkman, P. (2014). Business model: What it is and what it is not. *Long Range Planning*, 47(6), 379–389. <https://doi.org/10.1016/j.lrp.2013.08.004>
- Dave, B., Koskela, L., Kagioglou, M., & Bertelsen, S. (2008). A critical look at integrating people, process and information systems within the construction sector. *Proceedings for the 16th Annual Conference of the International Group for Lean Construction*, March 2016, 795–807.
- Demil, B., & Lecocq, X. (2010). Business model evolution: In search of dynamic consistency. *Long Range Planning*, 43(2–3), 227–246. <https://doi.org/10.1016/j.lrp.2010.02.004>
- Dentchev, N., Baumgartner, R., Dieleman, H., Jóhannsdóttir, L., Jonker, J., Nyberg, T., Rauter, R., Rosano, M., Snihur, Y., Tang, X., & van Hoof, B. (2016). Embracing the variety of sustainable business models: social entrepreneurship, corporate intrapreneurship, creativity, innovation, and other approaches to sustainability challenges. *Journal of Cleaner Production*, 113, 1–4. <https://doi.org/10.1016/j.jclepro.2015.10.130>

- Doganova, L., & Eyquem-Renault, M. (2009). What do business models do?. Innovation devices in technology entrepreneurship. *Research Policy*, 38(10), 1559–1570. <https://doi.org/10.1016/j.respol.2009.08.002>
- Dollah, S., Abduh, A., & Rosmaladewi. (2017). Benefits and Drawbacks of NVivo QSR Application. *Advances in Social Science, Education and Humanities Research*, 149, 61-63
- Doz, Y. L., & Kosonen, M. (2010). Embedding strategic agility: A leadership agenda for accelerating business model renewal. *Long Range Planning*, 43(2–3), 370–382. <https://doi.org/10.1016/j.lrp.2009.07.006>
- Dubosson-Torbay, M., Osterwalder, A., & Pigneur, Y. (2001). E-business model design, classification, and measurements. *Thunderbird International Business Review*, 44(1), 5-23
- Dudin, M. N., Kutsuri, G. N., Fedorova, I. J. evna, Dzusova, S. S., & Namitulina, A. Z. (2015). The innovative business model canvas in the system of effective budgeting. *Asian Social Science*, 11(7), 290–296. <https://doi.org/10.5539/ass.v11n7p290>
- Dudin, M., Kucuri, G., Fedorova, I., Dzusova, S., & Namitulina, A. (2015). The Innovative Business Model Canvas in the System of Effective Budgeting. *Asian Social Science*, 11(7), 290-296. <https://ssrn.com/abstract=2581565>
- Dudycz, H., & Korczak, J. (2016), Process of Ontology Design for Business Intelligence System. *FedCSIS 2015, LNBP 243*, 17–28. doi: 10.1007/978-3-319-30528-8_2
- Duyshart, B., Walker, D., Mohamed, S., & Hampson, K. (2003). An example of developing a business model for information and communication technologies (ICT) adoption on construction projects – the National Museum of Australia project. *Engineering, Construction and Architectural Management*, 10(3), 179–192. <https://doi.org/10.1108/09699980310478430>
- Easterby-Smith, M., Golden-Biddle, K., & Locke, K. (2007). Working with Pluralism: Determining Quality in Qualitative Research. *Organizational Research Methods*, <https://doi.org/10.1177/1094428108315858>
- Eriksson, P. E. (2013). Exploration and exploitation in project-based organizations: Development and diffusion of knowledge at different organizational levels in construction companies. *International Journal of Project Management*, 31(3), 333–341. <https://doi.org/10.1016/j.ijproman.2012.07.005>

- Fielit, E. (2013). Conceptualising Business Models: Definitions, Frameworks and Classifications. *Journal of Business Models*, 1(1), 85–105. <https://doi.org/10.5278/ojs.jbm.v1i1.706>
- Fjeldstad, O. D., & Snow, C. C. (2018). Business models and organization design. *Long Range Planning*, 51(1), 32–39. <https://doi.org/10.1016/j.lrp.2017.07.008>
- França, C. L., Broman, G., Robèrt, K. H., Basile, G., & Trygg, L. (2017). An approach to business model innovation and design for strategic sustainable development. *Journal of Cleaner Production*, 140, 155–166. <https://doi.org/10.1016/j.jclepro.2016.06.124>
- Frankenberger, K., Weiblen, T., & Gassmann, O. (2013). Network configuration, customer centricity, and performance of open business models: A solution provider perspective. *Industrial Marketing Management*, 42(5), 671–682. <https://doi.org/10.1016/j.indmarman.2013.05.004>
- Frankenberger, K., Weiblen, T., Csik, M., & Gassmann, O. (2013). The 4I-framework of business model innovation: a structured view on process phases and challenges. *International Journal of Product Development*, 18(3/4), 249. <https://doi.org/10.1504/IJPD.2013.055012>
- Friis, J. D., Lueg, R., Mayanja, R., Salling, S. T., & Sørensen, K. A. M. (2015). Business model or strategy: Which comes first? A lifecycle perspective in the Scandinavian software industry. *Problems and Perspectives in Management*, 13(2), 161–169.
- Fritscher, B., & Pigneur, Y. (2010). Task Models and Diagrams for User Interface Design. *Task Models and Diagrams for User Interface Design*, 5963(September), 28–43. <https://doi.org/10.1007/978-3-642-11797-8>
- Gajendran, T., Brewer, G., & Marimuthu, M. (2013). Internationalisation of construction business and E-commerce: Innovation, integration and dynamic capabilities. *Australasian Journal of Construction Economics and Building*, 13(2), 1–17. <https://doi.org/10.5130/AJCEB.v13i2.3321>
- Gambardella, A., & McGahan, A. M. (2010). Business-model innovation: General purpose technologies and their implications for industry structure. *Long Range Planning*, 43(2–3), 262–271. <https://doi.org/10.1016/j.lrp.2009.07.009>
- Gamil, Y., & Rahman, I. A. R. (2019). Awareness and challenges of building information modelling (BIM) implementation in the Yemen construction

- industry. *Journal of Engineering, Design and Technology*, 17(5), 1077-1084. <https://doi.org/10.1108/JEDT-03-2019-0063>
- Gand, K., & Esswein, W. (2018). Adapting a business model ontology to the application case of health information technology. *MKWI 2018 - Multikonferenz Wirtschaftsinformatik, 2018-March*, 720–731.
- Geissdoerfer, M., Bocken, N. M. P., & Hultink, E. J. (2016). Design thinking to enhance the sustainable business modelling process – A workshop based on a value mapping process. *Journal of Cleaner Production*, 135, 1218–1232. <https://doi.org/10.1016/j.jclepro.2016.07.020>
- Gimhan, A., Zainudeen, N., & Pandithawatta, S. (2019, July 03-05). *SWOT Analysis for Large Scale Contractors of Sri Lanka* [Paper presentation]. 2019 Moratuwa Engineering Research Conference (MERCon), Moratuwa, Sri Lanka.
- Girmscheid, G., & Rinas, T. (2012). Business design modeling for industrialization in construction: Cooperative approach. *Journal of Architectural Engineering*, 18(2), 164–175. [https://doi.org/10.1061/\(ASCE\)AE.1943-5568.0000089](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000089)
- Girotra, K., & Netessine, S. (2013). Business Model Innovation for Sustainability. *Manufacturing and Service Operations Management*, 15(4), 537–544. <https://doi.org/10.1287/msom.2013.0451>
- Gordijn, J., Osterwalder, A., & Pigneur, Y. (2005). Comparing two business model ontologies for designing e-business models and value constellations. *18th Bled EConference EIntegration in Action - Conference Proceedings*, December.
- Goulding, J.S., Pour Rahimian, F., Arif, M., & Sharp, M.D. (2014), New offsite production and business models in construction: priorities for the future research agenda. *Architectural Engineering and Design Management*. Retrieved from <http://dx.doi.org/10.1080/17452007.2014.891501>
- Guarino, N., & Giaretta, P. (1995). Ontologies and Knowledge Bases: Towards a Terminological Clarification. *N.J.I. Mars (ed.), Towards Very Large Knowledge Bases*, Retrieved from <http://www.loa.istc.cnr.it/old/Papers/KBKS95.pdf>
- Hacklin, F., & Wallnöfer, M. (2012). The business model in the practice of strategic decision making: insights from a case study. *Management Decision*, 50(2), 166–188. <https://doi.org/10.1108/00251741211203515>

- Hacklin, F., Björkdahl, J., & Wallin, M. W. (2017). Strategies for business model innovation: How firms reel in migrating value. *Long Range Planning*, 51(1), 82–110. <https://doi.org/10.1016/j.lrp.2017.06.009>
- Hafeez, S., Hussain, S., Javed, Y., & Saeed, B. Bin. (2016). Influence of benefits realization management on business strategies and project success in Pakistan's construction projects. *International Review of Management and Marketing*, 6(3), 481–493.
- Hakim, C. (2000). *Research Design : Successful Designs for Social and Economic Research* (2nd ed). Routledge.
- Hamel, G. (2000). An Action Plan for Transforming Companies into Industry Revolutionaries, LEADING THE REVOLUTION: *The Summary in Brief. Executive Book Summaries*, 22(12), 22-29.
- Hampson, K. and Brandon, P., 2004. *Construction 2020: a vision for Australia's property and construction industry*, CRC Construction innovation, Australia.
- Hamrouni, B., Bourouis, A., Korichi, A., & Brahmi, M. (2021). Explainable ontology-based intelligent decision support system for business model design and sustainability. *Sustainability (Switzerland)*, 13(17), 1–28. <https://doi.org/10.3390/su13179819>
- Harding, J. (2019). *Qualitative Data Analysis: From start to finish* (2nd ed). London: Sage Publications.
- Hart, C. (2018). *Doing a Literature Review: Releasing the Research Imagination* (2nd ed). Sage publications.
- Hedman, J., & Kalling, T. (2003). The business model concept: Theoretical underpinnings and empirical illustrations. *European Journal of Information Systems*, 12(1), 49–59. <https://doi.org/10.1057/palgrave.ejis.3000446>
- Heikkilä, M., Bouwman, H., Heikkilä, J., Solaimani, S., & Janssen, W. (2015). Business model metrics: an open repository. *Information Systems and E-Business Management*, 14(2), 337–366. <https://doi.org/10.1007/s10257-015-0286-3>
- Ho, P. H. K. (2016). Analysis of Competitive Environments , Business Strategies , and Performance in Hong Kong ' s Construction Industry. *Journal of Management in Engineering*, 32(2). [https://doi.org/10.1061/\(ASCE\)ME.1943-5479.0000399](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000399).

- Holden, M. T., & Patrick, L. (2004). Choosing the Appropriate Methodology: Understanding Research Philosophy. *The Marketing Review*, 4(4), 397-409.
- Höök, M., Stehn, L., & Brege, S. (2015). The development of a portfolio of business models: a longitudinal case study of a building material company. *Construction Management and Economics*, 33(5–6), 334–348. <https://doi.org/10.1080/01446193.2015.1075052>
- Horta, I. M., Camanho, A. S., Johnes, J., & Johnes, G. (2013). Performance trends in the construction industry worldwide: An overview of the turn of the century. *Journal of Productivity Analysis*, 39(1), 89–99. <https://doi.org/10.1007/s11123-012-0276-0>
- Hossain, M. (2017). Business Model Innovation: Past Research, Current Debates, and Future Directions. *SSRN Electronic Journal*, October. <https://doi.org/10.2139/ssrn.2836439>
- Huang, H., Lai, M., Kao, M., & Chen, Y. (2012). Target Costing, Business Model Innovation, and Firm performance: An Empirical Analysis of Chinese Firms. *Canadian Journal of Administrative Sciences*, 29, 322-335.
- Isik, Z., Ardit, D., Dikmen, I., & Birgonul, M. T. (2010). Impact of Resources and Strategies on Construction Company Performance. *Journal of Management in Engineering*, 26(1), 9–18. [https://doi.org/10.1061/\(ASCE\)0742-597X\(2010\)26:1\(9\)](https://doi.org/10.1061/(ASCE)0742-597X(2010)26:1(9))
- Itami, H., & Nishino, K. (2010). Killing two birds with one stone: Profit for now and learning for the future. *Long Range Planning*, 43(2–3), 364–369. <https://doi.org/10.1016/j.lrp.2009.07.007>
- Jabareen, Y. (2009). Building a Conceptual Framework: Philosophy, Definitions, and Procedure. *International Journal of Qualitative Methods*. <https://journals.sagepub.com/doi/full/10.1177/160940690900800406>
- Jabłónski, A., & Jabłónski, M. (2016). Research on business models in their life cycle. In *Sustainability (Switzerland)* (Vol. 8, Issue 5). <https://doi.org/10.3390/su8050430>
- Jamil, M., Mufti, N.A., & Khan, A.H., (2008). Risk identification for international joint venture construction projects. In: ed. *First international conference on construction in developing countries, Karachchi 4-5 August 2008*, Pakistan: NED University of Engineering and Technology, 291-299.
- Jang, Y., Jeong, I., & Cho, Y. K. (2020). Business failure prediction of construction contractors using a LSTM RNN with accounting, construction market, and

- macroeconomic variables. *Journal of management in engineering*, 36(2), 04019039. [https://ascelibrary.org/doi/abs/10.1061/\(ASCE\)ME.1943-5479.0000733](https://ascelibrary.org/doi/abs/10.1061/(ASCE)ME.1943-5479.0000733)
- Jansen, H. (2010). The Logic of Qualitative Survey Research and its Position in the Field of Social Research Methods. *Forum: Qualitative Social Research*, 11(2). <https://doi.org/10.17169/fqs-11.2.1450>
- Johnson, M. W. (2010). *Seizing the White Space: Business Model Innovation for Growth and Renewal*. Boston: Harvard Business Press.
- Johnson, M. W., Christensen, C. M., & Kagermann, H. (2008). Reinventing your business model. *Harvard Business Review*, 86(12). <https://doi.org/10.1111/j.0955-6419.2005.00347.x>
- Jonas, Y., Aigbavboa, C., & Thwala, W. (). Human Factor Related Challenges of Marketing Construction Business Enterprise. *Advances in Human Factors, Business Management, Training and Education*, 1123-1133. https://link.springer.com/chapter/10.1007/978-3-319-42070-7_102
- Jonker, J. (2012). *New Business Models, An exploratory study of changing transactions creating mutiple value(s)*. <https://www.nieuwebusinessmodellen.nl/dl/pdf/boeken/WPNBMENG2012.pdf>
- Jonkers, H., Quartel, D., Berg, H. V. D., & Franken, H. (2011). Integration of Business Decision Modeling in Organization Design. *BIZZdesign*. Retrieved from <http://logon.bg/wordpress/wp-content/uploads/2013/10/Whitepaper-Integration-of-Business-Decison-Modeling-in-Organization-Design.pdf>
- Joyce, A., & Paquin, R. L. (2016). The triple layered business model canvas: A tool to design more sustainable business models. *Journal of Cleaner Production*, 135(November 2017), 1474–1486. <https://doi.org/10.1016/j.jclepro.2016.06.067>
- Joyce, A., Paquin, R., & Pigneur, Y. (2015). The triple layered business model canvas A tool to design more sustainable business models. *ARTEM Organizational Creativity International Conference*, 33. <https://doi.org/10.1016/j.jclepro.2016.06.067>
- Kagioglou, M., Cooper, R., Aouad, G., Hinks, J., Sexton, M.G.,& Sheath, D.M. (1998).*A generic guide to the design and construction process protocol*. University of Salford, Salford

- Kallio, J., Tinnila, M., & Tseng, A. (2006). An international comparison of operator-driven business models. *Business Process Management Journal*, 12 (3), 281 – 298. <http://dx.doi.org/10.1108/14637150610667962>
- Kärnä, S., Junnonen, J., & Sorvala, V. (2009). Modelling structure of customer satisfaction with construction. *Journal of Facilities Management*, 7(2), 111–127. <https://doi.org/10.1108/14725960910952505>
- Keung, C., & Shen, L. (2017). Network strategy for contractors' business competitiveness, *Construction Management and Economics*, 35(8-9), 482-497. doi:10.1080/01446193.2017.1329539
- Khanagha, S., Volberda, H., & Oshri, I. (2014). Business model renewal and ambidexterity: Structural alteration and strategy formation process during transition to a Cloud business model. *R and D Management*, 44(3), 322–340. <https://doi.org/10.1111/radm.12070>
- Kim, Y. (2010). The Pilot Study in Qualitative Inquiry: Identifying Issues and Learning Lessons for Culturally Competent Research. *Qualitative Social Work*. <https://doi.org/10.1177/1473325010362001>
- Kimiagari, S., & Keivanpour, S. (2018). An interactive risk visualisation tool for large-scale and complex engineering and construction projects under uncertainty and interdependence. *International Journal of Production Research*, 57(21). <https://doi.org/10.1080/00207543.2018.1503426>
- Kindström, D., & Kowalkowski, C. (2014). Service innovation in product-centric firms: a multidimensional business model perspective, *The journal of business & industrial marketing*, 29(2), 96-111. <http://dx.doi.org/10.1108/JBIM-08-2013-0165>
- Klang, D., Wallnöfer, M., & Hacklin, F. (2014). The business model paradox: A systematic review and exploration of antecedents. *International Journal of Management Reviews*, 16(4), 454–478. <https://doi.org/10.1111/ijmr.12030>
- Kothari, C.R. (2004). *Research Methodology: Methods and Techniques* (2nd ed), New Delhi: New Age International Publishers.
- Kshetri, N. (2007). Barriers to e-commerce and competitive business models in developing countries: A case study. *Electronic Commerce Research and Applications*, 6(4), 443–452. <https://doi.org/10.1016/j.elrap.2007.02.004>
- Kujala, S., Artto, K., Aaltonen, P., & Turkulainen, V. (2010). Business models in project-based firms - Towards a typology of solution-specific business

- models. *International Journal of Project Management*, 28(2), 96–106. <https://doi.org/10.1016/j.ijproman.2009.08.008>
- Kumar, R. (2011). *Research Methodology: A Step-by-Step Guide for Beginners* (3rd ed). New Delhi: Sage.
- Lambert, S. (2006). A business model research schema. *19th Bled EConference "EValues" - Conference Proceedings, February*, 1–19.
- Lambert, S. C. (2015). The Importance of Classification to Business Model Research. *Journal of Business Models*, 3(1), 49–61. <https://doi.org/10.5278/ojs.jbm.v3i1.1045>
- Lessing, J., & Brege, S. (2018). Industrialized Building Companies' Business Models: Multiple Case Study of Swedish and North American Companies. *Journal of Construction Engineering and Management*, 144(2). [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001368](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001368)
- Lewandowski, M. (2016). Designing the business models for circular economy-towards the conceptual framework. *Sustainability (Switzerland)*, 8(1), 1–28. <https://doi.org/10.3390/su8010043>
- Li, S., & Ling, F. Y. Y. (2012). Critical strategies for Chinese architectural, engineering and construction firms to achieve profitability. *Engineering, Construction and Architectural Management*, 19(5), 495–511. <https://doi.org/10.1108/09699981211259586>
- Lim, J. N., & Ofori, G. (2007). Classification of innovation for strategic decision making in construction businesses. *Construction Management and Economics*, 25(9), 963–978. <https://doi.org/10.1080/01446190701393026>
- Lincoln, Y., Lynham, S., & Guba, E. (2013). Paradigmatic controversies, contradictions, and emerging confluences, revisited. In N. Denzin & Y. Lincoln (Eds.), *The landscape of qualitative research* (4th ed., pp. 199–266). Thousand Oaks, CA: SAGE.
- Lindgren, P., Taran, Y., & Boer, H. (2010). From single firm to network-based business model innovation. *International Journal of Entrepreneurship and Innovation Management*, 12(2), 122–137. <https://doi.org/10.1504/IJEIM.2010.034417>
- Ling, F. Y. Y., & Li, S. (2016). Business models for foreign firms offering construction-related consultancy services in China. *Construction Management and Economics*, 34(4–5), 218–235. <https://doi.org/10.1080/01446193.2016.1189585>

- Liu, G., Li, K., Zhao, D., & Mao, C. (2017). Business Model Innovation and Its Drivers in the Chinese Construction Industry during the Shift to Modular Prefabrication. *Journal of Management in Engineering*, 33(3).
- Lu, W., Shen, L., & Yam, M. C. H. (2008). Critical Success Factors for Competitiveness of Contractors: China Study. *Journal of Construction Engineering and Management*, 134 (12). doi: 10.1061/_ASCE_0733-9364_2008_134:12_972_
- Lüdeke-Freund, F. (2010). Towards a Conceptual Framework of 'Business Models for Sustainability'. In *Proceedings of ERSCP-EMSU Conference 2010: Knowledge Collaboration & Learning for Sustainable Innovation*, Retrieved from https://papers.ssrn.com/sol3/papers.cfm?abstract_id=2189922
- Magretta, J. (2002). Why business model matter. *Harvard Business Review*, 80(5), 86–92.
- Mäkinen, S. & Seppänen, M., (2007), Assessing business model concepts with taxonomical research criteria. *Management Research News*, 30 (10), pp. 735-748.
- Martina, G., Paulob, S., & Steveb, E. (2017). The Cambridge Business Model Innovation Process. *Procedia Manufacturing*, 8, 262 – 269. <https://www.sciencedirect.com/science/article/pii/S2351978917300392>
- Martínez-Olvera, C. (2009). Benefits of using hybrid business models within a supply chain. *International Journal of Production Economics*, 120(2), 501–511. <https://doi.org/10.1016/j.ijpe.2009.04.006>
- Martins, L. L., Rindova, V. P., & Greenbaum, B. E. (2015). Unlocking the Hidden Value of Concepts: A Cognitive Approach to Business Model Innovation. *Strategic Entrepreneurship Journal*, 1-19. doi: 10.1002/sej.1191.
- Mason, K., & Spring, M. (2011). The sites and practices of business models. *Industrial Marketing Management*, 40(6), 1032–1041. <https://doi.org/10.1016/j.indmarman.2011.06.032>
- Massa, L., Tucci, C. L., & Afuah, A. (2017). A critical assessment of business model research. *Academy of Management Annals*, 11(1), 73–104. <https://doi.org/10.5465/annals.2014.0072>
- Mboli, J. S., Thakker, D. K., & Mishra, J. L. (2020). An Internet of Things-enabled decision support system for circular economy business model. *Software - Practice and Experience*, November 2019, 1–16. <https://doi.org/10.1002/spe.2825>

- McGrath, R. G. (2010). Business models: A discovery driven approach. *Long Range Planning*, 43(2–3), 247–261. <https://doi.org/10.1016/j.lrp.2009.07.005>
- Mezger, F. (2014). Toward a capability-based conceptualization of business model innovation.de: insights from an explorative study. *R&D Management*, 44(5), 429–449. <https://doi.org/10.1111/radm.12076>
- Michael G. Jacobides, M. G., & MacDuffie, J. P. (2013). How to drive value your way. *Harvard business review*, 91 (7-8), 92-100.
- Mirarab, A., Mirtaheri, S. L., & Asghari, S. A. (2020). A model to create organizational value with big data analytics. *Computer Systems Science and Engineering*, 35(2), 69-79.
- Mokhlesian, S., & Holmén, M. (2012). Business model changes and green construction processes. *Construction Management and Economics*, 30(9), 761–775. <https://doi.org/10.1080/01446193.2012.694457>
- Mokhlesian, S., & Holmén, M. (2012). Business model changes and green construction processes. *Construction Management and Economics*, 30(9), 761-775.
- Morar, D. D. (2013). An overview of the consumer value literature—perceived value, desired value. *Marketing from information to decision*, (6), 169-186.
- Morkunas, V. J., Paschen, J., & Boon, E. (2019). How blockchain technologies impact your business model. *Business Horizons*, 62(3), 295–306. <https://doi.org/10.1016/j.bushor.2019.01.009>
- Morris, M. H., Shirokova, G., & Shatalov, A. (2013). The Business Model and Firm Performance: The Case of Russian Food Service Ventures. *Journal of Small Business Management*, 51(1), 46–65. <https://doi.org/10.1111/j.1540-627X.2012.00377.x>
- Morris, M., Schindehutte, M., & Allen, J. (2005). The entrepreneur's business model: Toward a unified perspective. *Journal of Business Research*, 58(6), 726–735. <https://doi.org/10.1016/j.jbusres.2003.11.001>
- Mutka, S., & Aaltonen, P. (2013). The impact of a delivery project's business model in a project-based firm. *International Journal of Project Management*, 31(2), 166–176. <https://doi.org/10.1016/j.ijproman.2012.07.006>
- Nenonen, S., & Storbacka, K. (2009). Business model design : conceptualizing networked value co-creation Suvi Nenonen. *International Journal of Quality and Service Sciences*, 2, 0–15. <https://doi.org/10.1108/17566691011026595>

- Nielsen, C., & Lund, M. (2014). A Brief History of the Business Model Concept. *The Basics of Business Models*, 21-27. <http://bookboon.com/en/the-basics-of-business-models-ebook>
- O'Brien, B. C., Harris, I. B., Beckman, T. J., Reed, D. A., & Cook, D. A. (2014). Standards for Reporting Qualitative Research: A Synthesis of Recommendations. *Academic Medicine*, 89(9), 1245-1251.
- Odediran, S. J., Babalola, M. O., & Adebiyi, H. A. (2013). Assessment of Business Development Strategies in the Nigerian Construction Industry. *Journal of Business & Management*, 2(1), 34–45. <https://doi.org/10.12735/jbm.v2i1p34>
- Onetti, A., Zucchella, A., Jones, M. V., & McDougall-Covin, P. P. (2012). Internationalization, innovation and entrepreneurship: Business models for new technology-based firms. *Journal of Management and Governance*, 16(3), 337–368. <https://doi.org/10.1007/s10997-010-9154-1>
- Ormston, R., Spencer, L., Barnard, M., & Snape, D. (2014). *The foundations of qualitative research*, London: Sage.
- Osborne, S. P., Radnor, Z., Vidal, I., & Kinder, T. (2014). Editorial Essay a Sustainable Buisness Model for Public Organisations? *Public Management Review*, 16(2), 165–172.
- Osterwalder, A. (2004). The Business Model Ontology - A Proposition in a Design Science Approach. *Business Doctor*, 1–169. <https://doi.org/10.1111/j.1467-9310.2010.00605.x>
- Osterwalder, A. and Pigneur, Y. (2010), *Business Model Generation: A Handbook for Visionaries, Game Changers, and Challengers*, John Wiley & Sons. New Jersey, NJ.
- Osterwalder, A., & Pigneur, Y. (2013). Designing business models and similar strategic objects: The contribution of IS. *Journal of the Association for Information Systems*, 14(5), 237–244. <https://doi.org/10.17705/1jais.00333>
- Osterwalder, A., Pigneur, Y., & Tucci, C. L. (2005). Clarifying Business Models: Origins, Present, and Future of the Concept. *Communications of the Association for Information Systems*, 16(July). <https://doi.org/10.17705/1cais.01601>
- Osterwalder, A., Pigneur, Y., & Tucci, C. L. (2005). Clarifying Business Models : Origins , Present , and Future of the Concept Clarifying Business Models : Origins , Present , and Future of the Concept. *Communications of AIS*, 15(May), 1–40. <https://doi.org/10.1.1.83.7452>

- Othman, A. A. E. (2015). An international index for customer satisfaction in the construction industry. *International Journal of Construction Management*, 15(1), 33–58. <https://doi.org/10.1080/15623599.2015.1012140>
- Pan, W., & Goodier, C. (2012). House-Building Business Models and Off-Site Construction Take-Up. *Journal of Architectural Engineering*, 18(2), 84–93. [https://doi.org/10.1061/\(ASCE\)AE.1943-5568.0000058](https://doi.org/10.1061/(ASCE)AE.1943-5568.0000058)
- Pateli, A. G., & Giaglis, G. M. (2003). A methodology for business model evolution: application in the mobile exhibition industry. *16th Bled Electronic Commerce Conference – ETransformation, JANUARY 2003*, 17.
- Pathirana, L. P. D. S. (2020). Effect of COVID -19 and Strategic Response: A Review on Sri Lankan Construction Industry. *SSRG International Journal of Economics and Management Studies (SSRG-IJEMS)*, 7(6), 73-77.
- Pekuri, A. (2015). *The role of business models in construction business management* (Doctoral dissertation). Retrieved from https://www.researchgate.net/publication/278302207_The_role_of_business_models_in_construction_business_management
- Pekuri, A., Pekuri, L., & Haapasalo, H. (2013). The role of business models in finnish construction companies. *Australasian Journal of Construction Economics and Building*, 13(3), 13–23. <https://doi.org/10.5130/ajceb.v13i3.3402>
- Pekuri, A., Pekuri, L., & Haapasalo, H. (2015). Business models and project selection in construction companies. *Construction Innovation*, 15(2), 180–197. <https://doi.org/10.1108/CI-12-2013-0055>
- Pekuri, A., Suvanto, M., Haapasalo, H., & Pekuri, L. (2014). Managing value creation: The business model approach in construction. *International Journal of Business Innovation and Research*, 8(1), 36–51. <https://doi.org/10.1504/IJBIR.2014.058045>
- Perera, C. S. R., & Gunatilake, S. (2020). Value chain management in Sri Lankan construction industry: contractor's perspective. *International Journal of Construction Management*, 1(11). <https://doi.org/10.1080/15623599.2020.1843110>
- Perkmann, M., & Spicer, A. (2010). *What are business models? Developing a theory of performative representations*. 265–275. [https://doi.org/10.1108/S0733-558X\(2010\)0000029020](https://doi.org/10.1108/S0733-558X(2010)0000029020)
- Peter, M., Montecchiari, D., Hinkelmann, K., & Gatziu Grivas, S. (2020). Ontology-Based Visualization for Business Model Design. In *Lecture Notes in Business*

Information Processing (Vol. 400). Springer International Publishing.
https://doi.org/10.1007/978-3-030-63479-7_17

Petrovic, O., Kittl, C., & Teksten, R. D. (2001). Developing Business Models for Ebusiness. *SSRN Electronic Journal*. <https://doi.org/10.2139/ssrn.1658505>

Piscicelli, L., Ludden, G. D. S., & Cooper, T. (2018). What makes a sustainable business model successful? An empirical comparison of two peer-to-peer goods-sharing platforms. *Journal of Cleaner Production*, 172, 4580–4591. <https://doi.org/10.1016/j.jclepro.2017.08.170>

Priem, R. L., Wenzel, M., & Koch, J. (2018). Demand-side strategy and business models: Putting value creation for consumers center stage. *Long Range Planning*, 51(1), 22–31. <https://doi.org/10.1016/j.lrp.2017.07.007>

Rahman, A., & Alzubi, Y. (2015). Exploring key contractor factors influencing client satisfaction level in dealing with construction project: An empirical study in Jordan. *International Journal of Academic Research in Business and Social Sciences*, 5(12), 109-126.

Rainer, A., & Hans-Dieter, Z. (2001). Business Models. *EM-Electronic Markets*, 11(1). 3-9. <https://www.tandfonline.com/doi/abs/10.1080/713765630>

Rajala, R., & Westerlund, M. (2007). Business Models – A New Perspective on Firms’ Assets and Capabilities. *The International Journal of Entrepreneurship and Innovation*, 8(2), 115–125. <https://doi.org/10.5367/000000007780808039>

Ranasinghe, S.P., & Pathirana, L. P. D. S. (2021). Impact of Covid-19 on Construction Industry in Sri Lanka and Recommendations for Sustainability during the Post-Pandemic Era. *International Journal of Multidisciplinary and Current Educational Research (IJMCER)*, 3 (4), 156-163.

Rasmussen, B. (2007). Business Models and the Theory of the Firm. *Pharmaceutical Industry Project*, Jun, 1–11. http://www.cses.com/documents/pharma/32-Business_Models_Rasmussen.pdf

Rauter, R., Jonker, J., & Baumgartner, R. J. (2017). Going one’s own way: drivers in developing business models for sustainability. *Journal of Cleaner Production*, 140(May), 144–154. <https://doi.org/10.1016/j.jclepro.2015.04.104>

Reim, W., Parida, V., & Örtqvist, D. (2015). Product-Service Systems (PSS) business models and tactics - A systematic literature review. *Journal of Cleaner Production*, 97, 61–75. <https://doi.org/10.1016/j.jclepro.2014.07.003>

- Ribeirinho, M. J., Mischke, J., Strube, G., Sjödin, E., Blanco, J. L., Palter, R., ... & Andersson, T. (2020). *The next normal in construction: How disruption is reshaping the world's largest ecosystem*. McKinsey & Company: Zurich, Switzerland.
<https://www.mckinsey.com/~/media/McKinsey/Industries/Capital%20Projects%20and%20Infrastructure/Our%20Insights/The%20next%20normal%20in%20construction/The-next-normal-in-construction.pdf>
- Richardson, J. E. (2011). The Business Model: An Integrative Framework for Strategy Execution. *SSRN Electronic Journal*, September, 1–27.
<https://doi.org/10.2139/ssrn.932998>
- Richter, M. (2013). German utilities and distributed PV: How to overcome barriers to business model innovation. *Renewable Energy*, 55, 456–466.
<https://doi.org/10.1016/j.renene.2012.12.052>
- Ritter, T., & Lettl, C. (2018). The wider implications of business-model research. *Long Range Planning*, 51(1), 1–8. <https://doi.org/10.1016/j.lrp.2017.07.005>
- Rohrbeck, R., Konnertz, L., & Knab, S. (2013). Collaborative business modelling for systemic and sustainability innovations. *International Journal of Technology Management*, 63(1/2), 4. <https://doi.org/10.1504/IJTM.2013.055577>
- Rosca, E., Arnold, M., & Bendul, J. C. (2017). Business models for sustainable innovation – an empirical analysis of frugal products and services. *Journal of Cleaner Production*, 162, S133–S145.
<https://doi.org/10.1016/j.jclepro.2016.02.050>
- Rumble, R., & Mangematin, V. (2015). Business model implementation: The antecedents of multi-sidedness. *Advances in Strategic Management*, 33(October), 97–131. <https://doi.org/10.1108/S0742-332220150000033021>
- Sabatier, V., Mangematin, V., & Rouselle, T. (2010). From Business model to Business model portfolio in the european biopharmaceutical industry. *Long Range Planning*, 43(2–3), 431–447.
http://econpapers.repec.org/RePEc:hal:gemwpa:hal-00430782_v1
- Saebi, T., Lien, L., & Foss, N. J. (2017). What Drives Business Model Adaptation? The Impact of Opportunities, Threats and Strategic Orientation. *Long Range Planning*, 50(5), 567–581. <https://doi.org/10.1016/j.lrp.2016.06.006>
- Saunders, M., Lewis, P. and Thornhill, A. (2009). Research Methods for Business Students. 5th ed. England: Pearson Education Limited.

- Saunders, M., Lewis, P., & Thornhill, A. (2009). *Research Methods for Business Students*, (5thed). Italy: Rotolito Lombarda.
- Saunders, M., Lewis, P., & Thornhill, A. (2016). *Research Methods for Business Students*, (7thed). UK: Pearson.
- Saunders, M., Lewis, P., & Thornhill, A. (2019). *Research Methods for Business Students*, (8thed). UK: Pearson.
- Schaltegger, S., Hansen, E. G., & Lüdeke-Freund, F. (2016). Business Models for Sustainability: Origins, Present Research, and Future Avenues. *Organization and Environment*, 29(1), 3–10. <https://doi.org/10.1177/1086026615599806>
- Schaltegger, S., Lüdeke-Freund, F., & Hansen, E. G. (2012). Business cases for sustainability: The role of business model innovation for corporate sustainability. *International Journal of Innovation and Sustainable Development*, 6(2), 95–119. <https://doi.org/10.1504/IJISD.2012.046944>
- Schneider, S., & Spieth, P. (2013). Business model innovation: Towards an integrated future research agenda. *International Journal of Innovation Management*, 17(1). <https://doi.org/10.1142/S136391961340001X>
- Seddon, P. B., & Lewis, G. P. (2003). Strategy and Business Models : What ' s the Difference ? *Information Systems*, July, 10–13.
- Shafer, S. M., Smith, H. J., & Linder, J. C. (2005). The power of business models. *Business Horizons*, 48(3), 199–207. <https://doi.org/10.1016/j.bushor.2004.10.014>
- Shyam, R. (2017). *Innovation and Sustainable Growth through Inclusive Business Models – A Few Illustrations*. 2, 1144–1148.
- Smith, W. K., Binns, A., & Tushman, M. L. (2010). Complex business models: Managing strategic paradoxes simultaneously. *Long Range Planning*, 43(2–3), 448–461. <https://doi.org/10.1016/j.lrp.2009.12.003>
- Smyth, H., Fellows, R., Liu, A., & Tijhuis, W. (2016). Editorial for the Special Issue on Business Development and Marketing in Construction. *Construction Management and Economics*, 34(4–5), 205–217. <https://doi.org/10.1080/01446193.2016.1199370>
- Snihur, Y., & Tarzijan, J. (2018). Managing complexity in a multi-business-model organization. *Long Range Planning*, 51(1), 50–63. <https://doi.org/10.1016/j.lrp.2017.06.010>

- Snihur, Y., & Tarzijan, J. (2018). Managing complexity in a multi-business-model organization. *Long Range Planning*, 51(1), 50–63. <https://doi.org/10.1016/j.lrp.2017.06.010>
- Sniukas, M. (2015). The Micro-Foundations of Business Model Innovation as a Dynamic Capability. In *Universidad Nacional de Colombia*. <https://doi.org/10.1017/CBO9781107415324.004>
- Spieth, P., Schneckenberg, D., & Ricart, J. E. (2014). Business model innovation - state of the art and future challenges for the field. *R and D Management*, 44(3), 237–247. <https://doi.org/10.1111/radm.12071>
- Stefan, S., & Branislav, Z. (2016). Relationship between Business Strategy and Business Model Studied in a Sample of Service Companies. *Journal of Competitiveness*, 8 (4), 72 – 84. <https://pdfs.semanticscholar.org/15de/e2470e56f44a24e8b1c53a8f1f27a4948ae9.pdf>
- Stewart, D.W., & Zhao, Q. (2000). Internet marketing, business models, and public policy. *Journal of Public Policy & Marketing*, 19(2), 287.
- Storbacka, K., Windahl, C., Nenonen, S., & Salonen, A. (2013). Industrial Marketing Management Solution business models : Transformation along four continua ☆. *Industrial Marketing Management*, 42(5), 705–716. <https://doi.org/10.1016/j.indmarman.2013.05.008>
- Stubbs, W., & Cocklin, C. (2008). Conceptualizing a “sustainability business model.” *Organization and Environment*, 21(2), 103–127. <https://doi.org/10.1177/1086026608318042>
- Sunindijo, R. Y., Hadikusumo, B. H., & Phangchunun, T. (2014). Modelling service quality in the construction industry. *International Journal of Business Performance Management*, 15(3), 262–276. <https://doi.org/10.1504/IJ BPM.2014.063026>
- Tanko, B. L., Abdullah, F., & Ramly, Z. M. (2018). Benefits of Adopting Value Management to Mitigate the Problems in the Nigerian Construction Industry. *Advanced Science Letters*, 24(5), 3818-3822. <https://www.ingentaconnect.com/contentone/asp/asl/2018/00000024/00000005/art00165>
- Taran, Y., Nielsen, C., Montemari, M., Thomsen, P., & Paolone, F. (2016). Business Model Process Configurations: A Mapping Tool for Fostering Innovation. *R&D Management Conference (Fast?) Connecting R&D*.

- Tashakkori, A., & Teddlie, C. (2003). Issues and dilemmas in teaching research methods courses in social and behavioural sciences: US perspective. *International Journal of Social Research Methodology*, 6(1). <https://doi.org/10.1080/13645570305055>
- Teece, D. J. (2010). Business models, business strategy and innovation. *Long Range Planning*, 43(2–3), 172–194. <https://doi.org/10.1016/j.lrp.2009.07.003>
- Thuesen, C., & Hvam, L. (2013). Rethinking the Business Model in Construction by the Use of Off-Site System Deliverance: Case of the Shaft Project. *Journal of Architectural Engineering*, 19(4), 279–287. [https://doi.org/10.1061/\(asce\)ae.1943-5568.0000095](https://doi.org/10.1061/(asce)ae.1943-5568.0000095)
- Timmers, P. (1998). Business Models for Electronic Markets. *Electronic Markets*, 8(2), 3–8. <https://doi.org/10.1080/10196789800000016>
- Todaria, S., Azevedo, C., & Ferreira, J. J. P. (2020). Modelling the social business venture - an ontology-based approach. *International Journal of Innovation and Learning*, 28(3), 317–355. <https://doi.org/10.1504/IJIL.2020.109840>
- Tongur, S., & Engwall, M. (2014). The business model dilemma of technology shifts. *Technovation*, 34(9), 525–535. <https://doi.org/10.1016/j.technovation.2014.02.006>
- Tranfield, D., Denyer, D., & Smart, P. (2003). Towards a Methodology for Developing Evidence-Informed Management Knowledge by Means of Systematic Review. *British Journal of Management*, 14(3), 207–222. <https://doi.org/10.1111/1467-8551.00375>
- Türko, E. S. (2016). Business plan vs business model canvas in entrepreneurship trainings: A comparison of students' perceptions. *Asian Social Science*, 12(10), 55–62. <https://doi.org/10.5539/ass.v12n10p55>
- Twining, P., Heller, R.S., Nussbaum, M., & Tsai, C. (2017). Some guidance on conducting and reporting qualitative studies. *Computers & Education*, 106. <https://doi.org/10.1016/j.compedu.2016.12.002>
- Upward, A., & Jones, P. (2015). An Ontology for Strongly Sustainable Business Models: Defining an Enterprise Framework Compatible With Natural and Social Science. *Organization and Environment*, 29(1), 97–123. <https://doi.org/10.1177/1086026615592933>
- Uschold, M., Gruninger, M., & Uschold, M. (1996). *Ontologies - principles methods and applications*. February. Retrieved from

<http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.48.5917&rep=rep1&type=pdf>

- Uusitalo, T., & Antikainen, M. (2018, March 25-28). *The concept of value in circular economy business models* [Paper presentation]. The ISPIM Innovation Forum, Boston, USA.
- Van den Brink, R. J. (2016). *Circular business model prototypes for a service provider in the construction industry* (Master's thesis). Retrieved from <https://repository.tudelft.nl/islandora/object/uuid:229e1340-846c-4f82-981a-f36bc481cf0>
- Veit, D., Clemons, E., Benlian, A., Buxmann, P., Hess, T., Kundisch, D., Leimeister, J. M., Loos, P., & Spann, M. (2014). Business models: An information systems research agenda. *Business and Information Systems Engineering*, 6(1), 45–53. <https://doi.org/10.1007/s12599-013-0308-y>
- Velu, C. (2014). *Business Model Innovation and Third-Party Alliance on the Survival of New Firms*. 44(0), 1–44.
- Verhoeven, B., & Johnson, L. W. (2017). Business Model Innovation Portfolio Strategy for Growth Under Product-Market Configurations. *Journal of Business Model*, 5(1), 35–50.
- Verstraete, T., Jouison-Laffitte, E., Kremer, F., & Hlady-Rispal, M. (2017). Assessing business model relevance for business leaders in the construction industry. *International Journal of Entrepreneurship and Small Business*, 30(1), 58–79. <https://doi.org/10.1504/IJESB.2017.081039>
- Visnjic, I., Wiengarten, F., & Neely, A. (2014). Only the Brave: Product Innovation, Service Business Model Innovation, and Their Impact on Performance. *Journal of Product Innovation Management*, 33(1), 36–52. <https://doi.org/10.1111/jpim.12254>
- Walliman, R (2011). *Research Methods: The Basics*. London: Routledge.
- Webster, J., & Watson, R. T. (2002). Analyzing the Past to Prepare for the Future: Writing a Literature Review. *MIS Quarterly*, 26(2). <https://www.jstor.org/stable/4132319>
- Weking, J., Hein, A., Böhm, M., & Krcmar, H. (2018). A hierarchical taxonomy of business model patterns. *Electronic Markets*, 30, 447–468. <https://link.springer.com/article/10.1007/s12525-018-0322-5>

- Wikström, K., Artto, K., Kujala, J., & Söderlund, J. (2010). Business models in project business. *International Journal of Project Management*, 28(8), 832–841. <https://doi.org/10.1016/j.ijproman.2010.07.001>
- Wirtz, B. W., 2016. *Business Model Management: Design Process Instruments*. 2nd ed. Germany: Speyer.
- Wirtz, B. W., Pistoia, A., Ullrich, S., & Göttel, V. (2015). Business Models: Origin, Development and Future Research Perspectives. *Long Range Planning*, 49(1), 36–54. <https://doi.org/10.1016/j.lrp.2015.04.001>
- Witjes, S., & Lozano, R. (2016). Towards a more Circular Economy: Proposing a framework linking sustainable public procurement and sustainable business models. *Resources, Conservation and Recycling*, 112, 37–44. <https://doi.org/10.1016/j.resconrec.2016.04.015>
- Yin, R. K. (2009). *Case study research: Design and methods* (4th Ed.). Thousand Oaks, CA: Sage publications.
- Yin, R. K. (2018). *Case Study Research and Applications: Design and Methods* (6th ed.). Thousand Oaks, CA: Sage publications.
- Yin, R.K. (2013). *Case study research: Design and methods*. London, UK: Sage publications.
- Yip, A. W. H., & Bocken, N. M. P. (2018). Sustainable business model archetypes for the banking industry. *Journal of Cleaner Production*, 174, 150–169. <https://doi.org/10.1016/j.jclepro.2017.10.190>
- Yun, J. J., Jung, W. Y., & Yang, J. (2015), Knowledge strategy and business model conditions for sustainable growth of SMEs. *Journal of Science & Technology Policy Management*, 6(3), 246 – 262. <http://dx.doi.org/10.1108/JSTPM-01-2015-0002>
- Yunus, M., Moingeon, B., & Lehmann-Ortega, L. (2010). Building social business models: Lessons from the grameen experience. *Long Range Planning*, 43(2–3), 308–325. <https://doi.org/10.1016/j.lrp.2009.12.005>
- Zhao, X., Chen, L., Pan, W., & Lu, Q. (2017). AHP-ANP-Fuzzy Integral Integrated Network for Evaluating Performance of Innovative Business Models for Sustainable Building. *Journal of Construction Engineering and Management*, 143(8), 1–14. [https://doi.org/10.1061/\(ASCE\)CO.1943-7862.0001348](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001348)

- Zhao, X., Hwang, B. G., & Lu, Q. (2018). Typology of business model innovations for delivering zero carbon buildings. *Journal of Cleaner Production*, 196, 1213–1226. <https://doi.org/10.1016/j.jclepro.2018.06.018>
- Zott, C., & Amit, R. (2008). The Fit Between Product Market Strategy And Business Model: Implications For Firm Performance. *Strategic Management Journal*, 29, 1–26. doi: 10.1002/smj.642
- Zott, C., & Amit, R. (2010). Business model design: An activity system perspective. *Long Range Planning*, 43(2–3), 216–226. <https://doi.org/10.1016/j.lrp.2009.07.004>
- Zott, C., Amit, R., & Massa, L. (2011). The business model: Recent developments and future research. *Journal of Management*, 37(4), 1019–1042. <https://doi.org/10.1177/0149206311406265>