HITA: Portfolio Management Applications

Term Project

UNLV MIS 764

Written By:

Kenneth Larot Yamat

**Due:** May 5th, 2024

Introduction

Introduce HITA, Harmonious Information Technology Affordances

Current Measurement Techniques

Find paper where HITA is first Introduced   
  
Find paper where HITA or Organizational HITA is measured.

Probably the U-shaped non-liner paper in the title

Explain measurement techniques used in paper.

Develop an alternative way to measure HITA using a company’s publicly available financial statements.

Motivation

Develop a way to integrate HITA into investment decisions as an additional variable for portfolio management applications.

Literature

Importance

Theory

Conceptualization

Selection

Randomly Selected

395 Packaging Corp of America PKG

Revenue: 7,802,000,000

Intangible: 1,154,000,000

9 Eli Lilly & Co. LLY

Revenue: 34,124,000,000

Intangible: 11,846,000,000

443 The J.M. Smucker Company SJM

Revenue: 8,529,000,000

Intangibles: 9,646,000,000

156 Air Products & Chemicals, Inc. APD

Revenue: 12,600,000,000

Intangibles: 01,196,000,000

49 Pfizer Inc. PFE

Revenue: 061,996,000,000

Intangibles: 132,683,000,000

40 Abbott Laboratories ABT

Revenue: 40,109,000,000

Intangibles: 32,494,000,000

463 C.H. Robinson Worldwide, Inc. CHRW

Revenue: 17,596,000,000

Intangibles: 01,620,000,000

18 Johnson & Johnson JNJ

Revenue: 85,159,000,000

Intangibles: 70,733,000,000

368 Hologic Inc HOLX

Revenue: 4,030,000,000

Intangibles: 4,170,000,000

190 Metlife, Inc. MET

Revenue: 66,905,000,000

Intangibles: 11,793,000,000

300 Dollar Tree Inc. DLTR

Revenue:

Intangibles:

Criteria Based Selection

Energy: CVX CHEVRON CORP

Revenue:

Intangibles:

Materials: LIN LINDE PLC

Revenue:

Intangibles:

Industrials: CAT CATERPILLAR INC

Revenue:

Intangibles:

Con. Disc.: AMZN AMAZON.COM INC

Revenue:

Intangibles:

Con. Stap.: WMT WALMART INC

Revenue:

Intangibles:

Health Care: NVO NOVO NORDISK A/S

Revenue:

Intangibles:

Financials: JPM JPMORGAN CHASE & CO

Revenue:

Intangibles:

Info. Tech.: MSFT MICROSOFT CORP

Revenue:

Intangibles:

Comm. Serv.: META META PLATFORMS INC

Revenue:

Intangibles:

Utilities: NEE NEXTERA ENERGY INC

Revenue:

Intangibles:

Real Estate: PLD PROLOGIS INC

Revenue:

Intangibles:

Compare Intangible Assets and Revenue

13 Exxon Mobil Corporation XOM

Revenue:

Intangibles:

Also removed for a new randomly selected company

335 Coterra Energy Inc. CTRA had to be replaced with a new, randomly selected company, they didn’t have any listed

Revenue per employee

Reason for using intangible assets

It’s not easy to determine how much of a balance sheet is IT related

IT assets would be part of plant, property, and equipment, but a more granular

Breakdown may take more

References

Chatterjee, S., Moody, G. D., Lowry, P. B., Chakraborty, S., & Hardin, A. (2021). The nonlinear influence of harmonious information technology affordance on organisational innovation. Information Systems Journal, 31(3), 294–322. https://doi.org/10.1111/isj.12311

Chatterjee, S., Moody, G., Lowry, P. B., Chakraborty, S., & Hardin, A. (2015). Strategic relevance of organizational virtues enabled by information technology in organizational innovation. Journal of Management Information Systems, 32(3), 158–196. https://doi.org/10.1080/07421222.2015.1099180

Chatterjee, S., Moody, G., Lowry, P. B., Chakraborty, S., & Hardin, A. (2020). Information technology and organizational innovation: Harmonious information technology affordance and courage-based actualization. Journal of Strategic Information Systems, 29, 101596. https://doi.org/10.1016/j.jsis.2020.101596

Li, Y., and T. Chi. 2013. Venture capitalists’ decision to withdraw: The role of portfolio configuration from a real options lens. Strategic Management Journal 34: 1351-1366.

Tong, T. & Y. Li. 2011. Real Options and Investment Mode Decision: Evidence from Corporate Venture Capital and Acquisition. Organization Science. 22(3): 659-674

Courtney, C., Dutta, S., and Li, Y. 2017. Resolving information asymmetry: Signaling and crowdfunding success. Entrepreneurship Theory and Practice 41(2): 265-290.

Liu, Y., Y. Li, X. Hao, and Y. Zhang. 2019. Narcissism and entrepreneurial learning from Failure. Journal of Business Venturing. 34 (3), 496-512

Li, Y., S. Zahra and S. Lan. 2017. Heterogeneity in New Venture Formation Rates across Nations: The Schumpeterian and Institutional Economics Views. Entrepreneurial Finance: Managerial and Policy Implications. 1-35. Lead article

Li, Y., and E. Yao. 2019. All ties are not created equal: Institutional equity ties, IPO performance, and market growth of new ventures. In D. Cumming & S. Johan (ed.). Oxford Handbook of IPO

Wang, E. T. G., Hu, H.-f., & Hu, P. J.-H. (2013). Examining the role of information technology in cultivating firms’ dynamic marketing capabilities. Information & Management, 50(6), 336-343. https://doi.org/10.1016/j.im.2013.04.007

Randolph, R. V., Hu, H.-f., & Silvernail, K. D. (2020). Better the devil you know: Inter-organizational information technology and network social capital in coopetition networks. Information & Management. Advance online publication. https://doi.org/10.1016/j.im.2020.103344

Randolph, R. V., Hu, H., Silvernail, K. (2018). Knowledge Networking and Coopetition: The Role of Shared Technology in Promoting Goal Convergence. 2018 Western Academy of Management Conference, 59 9.

Hu, H.-F., Moore, W. L., & Hu, P. J. (2024). Incorporating user perceptions and product attributes in software product design and evaluation. Journal of Information Technology, 36(2), 123-137.

Chatterjee, S., Chakraborty, S., Fulk, K., & Lowry, P. B. (2024). The role of dissonant relational multiplexity in information system implementation failures. Journal of the Association for Information Systems (JAIS). Advance online publication. https://aisel.aisnet.org/jais/vol25/iss2/1/

Chatterjee, S., Sarker, S., Lee, M. J., Xiao, X., & Elbanna, A. (2021). A possible conceptualization of the information systems (IS) artifact: A general systems theory perspective. Information Systems Journal, 31(4), 550-578. https://doi.org/10.1111/isj.12292

Oberlander, A. M., Roglinger, M., & Rosemann, M. (2021). Digital opportunities for incumbents – A resource-centric perspective. Journal of Strategic Information Systems. https://doi.org/10.1016/j.jsis.2021.101670

Capurro, R. (2017). Digitization as an ethical challenge. AI & Soc, 32(3), 277–283. https://doi.org/10.1007/s00146-016-0686-z

Wessel, L., Baiyere, A., Ologeanu-Taddei, R., Cha, J., & Jensen, T. B. (2021). Unpacking the Difference Between Digital Transformation and IT-Enabled Organizational Transformation. Journal of the Association for Information Systems, 22(1), 102-129. https://doi.org/10.17705/1jais.00655

Bertoni, S. (2015, April 15). Twinkie's Miracle Comeback: The Untold, Inside Story of a $2 Billion Feast. Forbes. https://www.forbes.com/sites/stevenbertoni/2015/04/15/twinkie-billion-dollar-comeback-hostess-metropoulos-apollo-jhawar/?sh=159db56e7235

Saab, V., Miller, K., Yamat, K. L. (2024, April 28). 4.3. Digitalization: Advances and Challenges [PowerPoint slides & Oral presentation]. MIS 764, University of Nevada, Las Vegas, Las Vegas, Nevada.

Saab, V., Miller, K., & Yamat, K. L. (2024). Module Paper 1: Business Value Of IT [Student Paper] MIS 764, University of Nevada, Las Vegas, Las Vegas, Nevada.

Saab, V., Miller, K., & Yamat, K. L. (2024). Module Paper 2: IT-Business Partnership [Student Paper] MIS 764, University of Nevada, Las Vegas, Las Vegas, Nevada.

Saab, V., Miller, K., & Yamat, K. L. (2024). Module Paper 3: IT-Enabled Innovation [Student Paper] MIS 764, University of Nevada, Las Vegas, Las Vegas, Nevada.

Saab, V., Miller, K., & Yamat, K. L. (2024). Module Paper 4: Contemporary Issues in IT and Innovation [Student Paper] MIS 764. University of Nevada, Las Vegas, Las Vegas, Nevada.

Dyvik, E. H. (2023, November 22). Companies with the highest spending on research and development 2022. Statista. https://www.statista.com/statistics/265645/ranking-of-the-20-companies-with-the-highest-spending-on-research-and-development/

Chatterjee, S., & Sarker, S. (2024). Toward a better digital future: Balancing the utopic and dystopic ramifications of digitalization. The Journal of Strategic Information Systems, 33(2), 101834. <https://doi.org/10.1016/j.jsis.2024.101834>

Mamonov, S., & Peterson, R. (2021). The role of IT in organizational innovation – A  
systematic literature review. Journal of Strategic Information Systems, 30,   
101696. <https://doi.org/10.1016/j.jsis.2021.101696>

Chatterjee, S., Moody, G. D., Lowry, P. B., Chakraborty, S., & Hardin, A. (2021). The   
nonlinear influence of harmonious information technology affordance on   
organisational innovation. Information Systems Journal, 31(3), 294–322.

<https://doi.org/10.1111/isj.12311>

Chatterjee, S., Moody, G., Lowry, P. B., Chakraborty, S., & Hardin, A. (2015). Strategic   
relevance of organizational virtues enabled by information technology in   
organizational innovation. Journal of Management Information Systems, 32(3),   
158–196. <https://doi.org/10.1080/07421222.2015.1099180>

Chatterjee, S., Moody, G., Lowry, P. B., Chakraborty, S., & Hardin, A. (2020).   
Information technology and organizational innovation: Harmonious information   
technology affordance and courage-based actualization. Journal of Strategic   
Information Systems, 29, 101596. <https://doi.org/10.1016/j.jsis.2020.101596>

Hopp, C., Antons, D., Kaminski, J., & Salge, T. O. (2018). Disruptive Innovation:   
Conceptual Foundations, Empirical Evidence, and Research Opportunities in the   
Digital Age. Journal of Product Innovation Management, 35(3), 446–457.   
<https://doi.org/10.1111/jpim.12448>

Chan, C. M. L., Teoh, S. Y., Yeow, A., & Pan, G. (2018). Agility in responding to   
disruptive digital innovation: Case study of an SME. Information Systems   
Journal, 29(2), 436–455. <https://doi.org/10.1111/isj.12215>

Carlo, J. L., Gaskin, J., Lyytinen, K., & Rose, G. M. (2014). Early vs. late adoption of   
radical information technology innovations across software development   
organizations: an extension of the disruptive information technology innovation   
model. Information Systems Journal, 24(6), 537–569.   
<https://doi.org/10.1111/isj.12039>

Lyytinen, K., & Rose, G. M. (2003). The disruptive nature of information technology   
innovations: The case of internet computing in systems development   
organizations. MIS Quarterly, 27(4), 557-595. <https://doi.org/10.2307/30036549>

Benbya, H., Pachidi, S., & Jarvenpaa, S. (2021). Special Issue Editorial: Artificial   
Intelligence in Organizations: Implications for Information Systems Research.   
Journal of the Association for Information Systems, 22(2), 281-303.   
<https://doi.org/10.17705/1jais.00662>

Paschen, U., Pitt, C., & Kietzmann, J. (2020). Artificial intelligence: Building blocks and   
an innovation typology. Business Horizons, 63, 147-155.   
<https://doi.org/10.1016/j.bushor.2019.10.004>

Dwivedi, Y. K., Hughes, L., Ismagilova, E., Aarts, G., Coombs, C., Crick, T., ... Williams,   
33M. D. (2021). Artificial Intelligence (AI): Multidisciplinary perspectives on   
emerging challenges, opportunities, and agenda for research, practice and   
policy. International Journal of Information Management, 57, 101994.   
<https://doi.org/10.1016/j.ijinfomgt.2019.08.002>

Borges, A. F. S., Laurindo, F. J. B., Spínola, M. M., Gonçalves, R. F., & Mattos, C. A.   
(2021). The strategic use of artificial intelligence in the digital era: Systematic   
literature review and future research directions. International Journal of   
Information Management, 57, 102225.   
<https://doi.org/10.1016/j.ijinfomgt.2020.102225>

Slickcharts. (n.d.). S&P 500 ETF Components. Slickcharts. Retrieved from <https://www.slickcharts.com/sp500>

Anderson, C., & Robey, D. (2017). Affordance potency: Explaining the actualization of   
technology affordances. Information and Organization, 27(2), 100-115.   
<https://doi.org/10.1016/j.infoandorg.2017.03.002>