



Dr. Ir. Lukas Beladi Sihombing, MT, MPU, M. ASCE

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<https://orcid.org/0000-0003-2495-1591>

Born: Tarutung, July 18th 1967

PROFILE:

Familiar with Public Private Partnership (PPP) concept in infrastructure including project management, corporate finance, project finance and financial model in infrastructure, risk management (project & corporate); public health system dynamics; system thinking & system dynamics (familiar software: STELLA/iThink, Vensim, Powersim Studio, Strategic Dynamics (SysDea) and excellent English language skill, both written and verbal.

EXPERIENCE:

Lecturer:

2008– date

Non Permanent Lecturer, University of Indonesia,

at Civil Engineering Department, Engineering Faculty: Investment and project financing, risk management, cost management, project management (Post Graduate Class)

Co-Promotor for Dissertation entitled: “Risk Dynamics for Toll Road Infrastructure Development using System Dynamics-Fuzzy Dematel-ANP (SD-FDANP) to Increase Project Time Performance”.

at Faculty of Economic & Business, Magister of Planning & Public Policy:

Public Infrastructure Management (Post Graduate Class)

Metode Pengambilan Keputusan (Method of Decision Making) 1&2 (SEM & System Dynamics) (Post Graduate Class)

2018 – date **Non Permanent Lecturer, University of Pelita Harapan**

at Graduate Program of Master of Civil Engineering, Construction Management, International Project Management, Engineering Economics, Research Methodology, and Thesis Supervision.

2020 – date **Non Permanent Lecturer, Institute of Transportation and Logistic, Trisakti**

at Logistic Department: Public-Private Partnership, Logistic System (Undergraduate Class)

2022 – date **Assistant Professor, Universitas Pembangunan Jaya (NIDN: 0318076703)**

at Undergraduate Program of Civil Engineering, Construction Management, Project Management, Research Methodology, and Supervision.

Projects:

1994–Present: **Project:** Toll Bogor Ring Road Project Section IIB – Salabenda Junction, Owner: PT. Marga Sarana Jabar (MSJ), as Project Manager, March 2021 – March 2022.

Project: Consulting Service in Controlling Independent Quality of Housing Development Projects, Owner: Ministry of Public Works and Housing, as Team Leader, March 2021 – November 2021.

Project: Consulting Service in Dispute of Sumitomo Corporation through Singapore International Arbitration Center (SIAC), Owner: PT. Adhi Karya (Persero), as expert member, July 2020 – November 2020.

Project: Study of Technology Management Framework Benchmark Based on Information Communication & Technology (ICT) to Support Operation Performance, Owner: PT. Pembangunan Perumahan (Persero) Tbk., as Expert Member, August 2020 – December 2020.

Project: Development of Harbor Road Toll Road, PT. Citra Marga Nusaphala Persada Tbk., as Project Cost & Schedule Controller using Building Information Modeling (BIM) and System Dynamics, January 2019 – Present

Project: Initiation of Harbor Road Toll Road II (Project Cost: US\$450 Million), PT. GST Persada Indonesia, as Project Management Expert, September 2017 – September 2018.

Project: Development of Toll Road: Section Cileunyi-Sumedang-Dawuan (Cisumdawu) (Project Cost: \$600 Million), PT. Citra Karya Jabar Tol, as Project Management Expert, July 2017 – July 2018

Project: Development of Toll Road: Section Antasari – Depok (Project Cost: \$158 Million), PT. Citra Waspputowa, as Project Management Expert using System Dynamics, July 2016 – July 2018

Project: Infrastructure Maintenance and Operation, Supervision Consulting, Transportation Ministry, as Team Leader, July 2016 – December 2016

Project: Infrastructure Maintenance and Operation, Supervision Consulting, Transportation Ministry, as Team Leader, August 2015 – December 2015

Project: Study of Workforce Productivity Indicator for Construction Industry, Owner: Public Works Ministry, as Team Leader, August 2015 – December 2015

Project: Infrastructure Development in Indonesia Owner by Public Works & Housing, as Member, August 2015 – December 2015

Project: Traditional Market Revitalization with System Dynamics Approach, as Member, March 2015 – July 2015

Project: Trans Sumatera Toll Road with System Dynamics Approach, as Team Leader, March 2014 – October 2014

Project: Study of Procurement System for Public Works as Expert, as Member, June 2013 – November 2013.

Project: Study of Incentive System Mechanism for Public Transportation as Team Leader, May 2013- November 2013.

Project: Construction Management to Transportation Ministry of Republic of Indonesia for Double Track Jakarta - Surabaya and Railway Tangerang – Cengkareng Airport as Expert Staff of Vice Ministry of Transportation, September 2012 – December 2013.

Project: Project Management Consultant to Public Work Ministry of Republic of Indonesia for DKI Jakarta and Banten, as: Construction Management Expert, May 2012 – December 2012

Project: Defense Driven Social Economics National Development, as: System Dynamics Expert, Ministry of Defense Republic of Indonesia, August 2010 – December 2011

Project: Building Office, as: Resident Engineer, PT. Citra Marga Nusaphala Persada Tbk, May 2010 – October 2010

Project: Economics System in Batam – Bintan Island with System Dynamics Approach, as: System Dynamics Expert, Bappenas, May 2010 – December 2010

Project: Developing a New Approach to an Integrated Transportation Management System, as: System Management Maintenance Specialist, Bappenas, January 2010-December 2010

Project: Toll Road Waru-Juanda Section, as: Monitoring & Evaluation Project Management, PT Citra Margatama Surabaya, April 2006 – June 2007

Project: Ramp Kemayoran Project, as: Monitoring & Evaluation Project Management, PT Citra Marga Nusaphala Persada Tbk – DP3KK., February 2002- June 2002

Project: W2 Section Toll Road, as: Monitoring & Evaluation Project Management, PT Citra Mataram, January 1996-1998

Project: Harbor Road Toll Road Project, as: Monitoring & Evaluation Project Management, PT Citra Marga Nusaphala Persada, January 1994- April 1996

TRAINING COURSES:

Pelatihan Peningkatan Keterampilan Dasar Teknik Instruksional (PEKERTI) Nasional, Universitas Sultan Ageng Tirtayasa sebagai Perguruan Tinggi Penyelenggara Pekerti/AA, 18-25 April 2022
Bimbingan Teknis Beton Pracetak Konstruksi Jalan Layang (2018)
The Second Annual System Dynamics Society Summer School, July 15-17, 2015, System Dynamics Society, Host: Worcester Polytechnic Institute, USA
System Dynamics (Massachusetts of Institute Technology-MIT)
Training License Assessor Unit Sertifikasi Tenaga Kerja Konstruksi Tahun 2012
Training Assessor Unit Sertifikasi Tenaga Kerja Konstruksi Tahun 2012
Training ISAK 16 Perjanjian Konsesi Jasa
Babson Teaching Method Training
Workshop Portfolio, Program, Project Management, IPMA 2016
Internal Audit: Basic - Managerial
Balance Scorecard Implementation
Project Management Body of Knowledge (PMBOK)
Indonesia Stock Exchange Course
International Workshop on FIDIC Conditions of Contract
Training for Trainer
Chartered Financial Analysis (CFA)

INTELLECTUAL PROPERTY RIGHT (IPR), HAK KEKAYAAN INTELEKTUAL (HKI)

EC00202112144: Developing Anti-Gravity Virtual Roads for Passenger Drones and Flying Cars By Utilizing the Gravity of the Sun and Planets, 19 February 2021
EC00202033429: A new Model of Toll Road Infrastructure Financing, 15 September 2020
EC00202026977: Model Kerjasama Pemerintah-Badan Usaha (KPBU) Pelabuhan di Indonesia, 10 August 2020
EC00202025516: A New Model of A Project, Programme, and Portfolio Recovery to Tackle Covid-19 In Construction Projects, 1 August 2020
EC00202005969: Public-Private-People Partnership (PPPP) For Infrastructure Development in Indonesia, 11 February 2020.

EC00201948750: Developing Infrastructure Financing Sustainability with Hybrid of Deep Discount Project Bond and Land Lease, 1 August 2019.

EC00201948531, entitled: Pengembangan Model Pendanaan Jalan Tol dengan Deep Discount Project Bond dan Land Lease di Indonesia, 31 July 2019

PROFESSIONAL AWARD:

ANZISM – Sustainability Management Award 2018 at Research Category: Developing infrastructure Financing Sustainability with Hybrid of Deep Discount Project Bonds and land Leases. A Research Initiative undertaken by Dr. Ir. Lukas Beladi Sihombing and the team at the University of Indonesia

Project Management Research Awards, A High Commendation, Asia Pacific Federation of Project Management (APFPM) Award, 24 October 2017, entitled: Hybrid Model of Deep Discount Project Bonds and Land Leases for New Toll Road Projects

Director Project Professional (Ahli Utama Manajemen Proyek), 2020 (#001287)

Scholarship Workshop on System Dynamics, Sponsored by the Program in Health Services and System Research, Duke-NUS Graduate Medical School, Singapore, 14-15 February 2012

Scholarship the 30th International Conference of the System Dynamics Society, St. Gallen, Switzerland, July 22 – July 26, 2012

Project Excellent Award, 26th International Project Management Association (IPMA) World Congress, 29-31 October 2012

Qualified Internal Audit, 2005 (# 1703)

PROFESSIONAL ORGANIZATION:

- Head of Certification Body IPMA Indonesia, March 2022 - present
- Operational Management Certification Body (CB IPMA Indonesia) at International Project Management Association (IPMA), Sept 2017 – February 2022
- Vice President Indonesian Society of Project Management Professional (Ikatan Ahli Manajemen Proyek Indonesia) for Certification 2013- present
- Member of Board for Membership and Achievement of Asia Pacific Federation of Project Management (APFPM) for Membership 2010-present
- Member: System Dynamics Society; Member (M) of American Society of Civil Engineers (ASCE), Project Management Institute, American Association of Cost Engineering, and Australian Institute of Project Management (AIPM).

QUALIFICATION / EDUCATION:

- **Doctoral in Civil Engineering**, University of Indonesia, Indonesia, 2018; GPA: 3.72/4.0
 - Dissertation: *Pengembangan Model Pendanaan Jalan Tol dengan Deep Discount Project Bond dan Land Lease di Indonesia* (Development of Toll Road Financing Model with Deep Discount Project Bond and Land Lease in Indonesia) ISBN: 978-979-456-729-6
- **Magister of Technique in Civil Engineering**, The University of Indonesia, Indonesia, 2005; Minors: Project Management; GPA: 3.7 /4.0.

- Thesis: *Risk Driven Project Financing* Dalam Perhitungan Investasi Jalan Tol Ruas Cawang-Tj.Priok-East Ancol-Jembatan Tiga-Pluit
- **Bachelor of Science in Civil Engineering**, The University of Hasanuddin, Indonesia, 1991; Minors: Structural Engineering; GPA: 2.7 / 4.0.
- Skripsi: Studi Penggunaan Slag Nikel PT. INCO Soroako sebagai Agregat Kasar untuk Campuran Beton

REVIEWER INTERNATIONAL JOURNAL/CONFERENCE and INTERNATIONAL JUDGE:

1. Reviewer: The Eleventh International Structural Engineering and Construction Conference (ISEC), Interdisciplinary Civil and Construction Engineering Projects, Cairo, Egypt, July 26-31, 2021
2. Reviewer: ASCE: International Conference on Sustainable Infrastructure 2019, Los Angeles, California, November 7–9, 2019
3. Reviewer: 2020 International System Dynamics Conference, Bergen, Norway
4. Reviewer: 2019 International System Dynamics Conference, Albuquerque New Mexico, USA
5. Reviewer: 2018 International System Dynamics Conference, Reykjavík, Iceland
6. Reviewer: 2017 International System Dynamics Conference, Cambridge, Massachusetts, USA
7. Reviewer: 2016 International System Dynamics Conference, Delft University of Technology, the Netherlands
8. Reviewer: 2015 International System Dynamics Conference, Cambridge, Massachusetts, USA
9. Reviewer: 2014 International System Dynamics Conference, Delft University of Technology, the Netherlands
10. Reviewer: 2013 International System Dynamics Conference, Cambridge, Massachusetts, USA
11. Reviewer: 2012 International System Dynamics Conference, St. Gallent University, Switzerland
12. Reviewer: The Journal of Management in Engineering, ASCE
13. Reviewer: Congress Scientific Committee, the 26th IPMA World Congress 2012
14. Reviewer: Proceedings of Institution of Civil Engineers
15. Reviewer: Civil Engineering, ASCE
16. International Judge: Asia Pacific Federation of Project Management (APFPM) Awards 2018, Melbourne, Australia
17. International Judge: Asia Pacific Federation of Project Management (APFPM) Awards 2017, Melbourne, Australia
18. International Judge: Asia Pacific Federation of Project Management (APFPM) Awards 2016, Sydney, Australia
19. International Judge: Asia Pacific Federation of Project Management (APFPM) Awards 2015, Kuala Lumpur, Malaysia

20. International Judge: Asia Pacific Federation of Project Management (APFPM) Awards 2014, Beijing, China
21. International Judge: Asia Pacific Federation of Project Management (APFPM) Awards 2013, Mumbai, India
22. International Judge: Asia Pacific Federation of Project Management (APFPM) Awards 2012, Jakarta, Indonesia
23. International Judge: Asia Pacific Federation of Project Management (APFPM) Awards 2011, Hong Kong, China

LIST OF SCIENTIFIC PUBLICATION:

International Journal:

1. Lukas Beladi Sihombing, Manlian A. Simanjuntak, (2020), *Analyzing The Hybrid Financing Deep Discount Project Bonds and Land Leases for A New Toll Road Financing Model*, *Journal of Infrastructure System*, DOI: 10.1061/(ASCE)IS.1943-555X.0000576, December 2020, Volume 26, Issue 4, ISSN (print): 1076-0342 | ISSN (online): 1943-555X (SJR Q1).
2. Lukas B. Sihombing, Yusuf Latief, Ayomi D. Rarasati, and Andreas Wibowo, (2018), *Developing a Toll Road Financing Model with Hybrid of Deep Discount Project Bonds and Land Leases in Indonesia*, *International Journal of Civil Engineering and Technology (IJCIET)*, Volume 9, Issue 6, pp. 1319-1323, Scopus Indexed, (SJR Q3).
3. Lukas B. Sihombing, Yusuf Latief, Ayomi D. Rarasati, and Andreas Wibowo, (2018), *Utilizing Uncertainty Management to Analyze the Uncertainty of Toll Road Land Acquisition*, *International Journal of Civil Engineering and Technology (IJCIET)*, Volume 9, Issue 6, pp. 1221-1228, Scopus Indexed, (SJR Q3).
4. Budi. S. Soepandji, Lukas Sihombing, Yusuf Latief, Ayomi D. Rarasati, Andreas Wibowo, (2018), *Hybrid Model of Deep Discount Project Bonds and Land Leases for New Toll Road Projects in Indonesia*, *International Journal of Civil Engineering and Technology (IJCIET)*, Volume 9, Issue 4, April 2018, pp. 563–569, Scopus Indexed, (SJR Q3).
5. Lukas B. Sihombing, Yusuf Latief, Ayomi D. Rarasati, and Andreas Wibowo, (2018), *Project Financing Models for Toll Road Investments: A State-of-the-Art Literature Review*, *Civil Engineering and Architecture*, Vol. 6, No. 3, pp. 115-127, DOI: 10.13189/cea.2018.060301. (SJR Q4)
6. Yusuf Latief, Lukas B. Sihombing, Ayomi D. Rarasati, and Andreas Wibowo, (2017), *The Financial Model of Land Lease Improving Toll Road Development a Depth Survey and Critical Success Evaluation*, *Journal of Engineering and Applied Sciences*, Vol. 12, No. 7, pp. 1790-1794, DOI: 10.3923/jeasci.2017.1790.1794, <https://medwelljournals.com/abstract/?doi=jeasci.2017.1790.1794>, ISSN: 1816-949x, Scopus Indexed, (SJR Q3).
7. Lukas B. Sihombing, (2017), *Analyzing the uncertainty of toll road land acquisition using program uncertainty management*, *Proceedings of the 12th International Scientific and Technical Conference on Computer Sciences and Information Technologies, CSIT 2017*, Publisher: IEEE 2017, Vol. 2, pp. 235-239, DOI: 10.1109/STC-CSIT.2017.8099454, Scopus Indexed.

8. Lukas B. Sihombing, (2017), *Project Finance and Risk Modeling Using A System Dynamics Approach: A Case Study of A Toll Road Project*, Malaysian Journal of Industrial Technology, Vol. 2, No. 2, pp. 86-93.
9. Davied Insja, Lukas B. Sihombing, (2017), *Identification of Factors Affecting Cost Overrun in The Construction of Industrial Buildings*, Malaysian Journal of Industrial Technology, Vol. 2, No. 1, pp. 13-19.

International Seminar/Conference:

1. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, M. ASCE. (2021), *Analysing Cost Overrun in Building Construction using Building Information Modeling*, IPMA 32nd World Congress on September 22nd, 2021 (Virtual Conference).
2. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, M. ASCE. (2021), *A New Model of A Project, Programme, and Portfolio Recovery to Tackle Covid-19 In Construction Projects*, 8th IPMA Research Conference "Projects as arena for self organizing" Date: 9th – 11th September 2021, 11th September 2021 (Virtual Conference)
3. Lukas Sihombing. (2021), *A Dynamic Simulation Estimation Of The Spread Of Covid-19 And Its Effects On Indonesia's Economy*, New, July 26-30 2021 (Virtual Conference).
4. Lukas B. Sihombing, Ahmad J. Santos, Andreas Wibowo, (2019), *Public-Private-People Partnership (PPPP) for Infrastructure Development in Indonesia*, The international Project Management Association (IPMA®) 31st World Congress "Integrating Sustainability into Project Management", Merida, Mexico, September 30 through October the 2nd 2019.
5. Lukas B. Sihombing, (2019), *Analyzing Design-Build Problems Using System Dynamics: Case of Construction Project in Indonesia*, The international Project Management Association (IPMA®) 31st World Congress "Integrating Sustainability into Project Management", Merida, Mexico, September 30 through October the 2nd 2019.
6. Lukas B. Sihombing, Ahmad J. Santos, Andreas Wibowo, (2019), *Public-Private-People Partnership as a New Financing Model for Infrastructure Development: A Conceptual Framework*, The 7th Engineering International Conference Engineering International Conference on Education, Concept and Application on Green Technology, Universitas Negeri Semarang, Semarang, 18 October 2018.
7. Lukas B. Sihombing, (2017), *Analyzing the Uncertainty of Toll Road Land Acquisition Using Program Uncertainty Management*, 30th IPMA World Congress "Breakthrough Competences for Managing Change", Astana, Kazakhstan, 5-7 September 2017.
8. Davied Insja, Lukas B. Sihombing, (2017), *A System Thinking Approach on How to Reduce Cost Overrun in the Construction of Industrial Buildings*, 2nd Asia-Pacific Region System Dynamics Conference of the System Dynamics Society, National University of Singapore, February 19-22, 2017.
9. Lukas B. Sihombing, Yusuf Latief, Andreas Wibowo, Ayomi D. Rarasati, (2016), *Critical Success Factors of Deep-Discount Project Bonds for Toll Road Financing in Indonesia*, 6th Brunei International Conference on Engineering And Technology | (Bicet) 2016, Universiti Teknologi Brunei, Brunei Darussalam, 14 - 16 November 2016.

10. Ayomi Rarasati, Lukas Sihombing, Andreas Wibowo, Yusuf Latief, (2016), *The New Toll Road Financing Model Determination In Indonesia*, 3rd Australasia And South East Asia Conference in Structural Engineering and Construction, Host: Curtin University Sarawak, Co-Host: Universiti Malaysia Sarawak, 31 Oct - 5 Nov 2016 Kuching, Malaysia.
11. Lukas B. Sihombing, (2016), *Project Finance and Risk Modeling Using A System Dynamics Approach: A Case Study Of A Toll Road Project*, International Research Conference and Innovation Exhibition (IRCIE 2016), Persada Johor International Convention Center, Universiti Kuala Lumpur, Johor Bahru, Johor, 18-20 October 2016.
12. Davied Insja, Lukas B. Sihombing, (2016), *Identification of Factors Affecting Cost Overrun in The Construction of Industrial Buildings*, International Research Conference and Innovation Exhibition (IRCIE 2016), Persada Johor International Convention Center, Universiti Kuala Lumpur, Johor Bahru, Johor, 18-20 October 2016.
13. Yusuf Latief, Ayomi D Rarasati, Lukas B. Sihombing, Andreas Wibowo, (2016), *The Financial Model of Land Lease Accelerating Toll Road Land Acquisition – A Critical Success Evaluation*, 2nd International Conference in Environmental and Civil Engineering Technology (ENVICET 2016), Penang, Malaysia, October 4 – 6, 2016.
14. Lukas B. Sihombing, Yusuf Latief, Ayomi D. Rarasati, Andreas Wibowo, (2015), *State-of-the-art of Literature Reviews on Project Financing Models for Toll Road Investments*, The 14th International Conference on QIR (Qualified in Research), University of Indonesia, Lombok, Mataram, Indonesia, 10-13 August 2015.
15. Lukas B. Sihombing, (2015), *New Toll Road Financing Model Using System Dynamics*, The 33th International Conference of the System Dynamics Society, July 19-23, 2015, MIT Cambridge, MA
16. Barbara Katlyn, Lukas Beladi Sihombing, (2014), *Optimization Model of Risk Mitigation in Improving the Performance Safety Construction in Indonesia*, 2014 International Symposium on Business and Management – Fall Session, November 12-14, 2014, Tokyo, ISSN 2226-6577.
17. Nuri Wulandari, Lukas Beladi Sihombing, (2014), *Destination Authenticity: A Dynamic Study Across Age Group*, 2014 International Symposium on Business and Management – Fall Session, November 12-14, 2014, Tokyo, ISSN 2226-6577.
18. Lukas Beladi Sihombing, (2014), *A New Financial Model of Toll Road Infrastructure*, 2014 International Symposium on Business and Management – Fall Session, November 12-14, 2014, Tokyo, ISSN 2226-6577.
19. Lukas Beladi Sihombing, (2014), *Toll Road Infrastructure Development in Indonesia: A System Dynamics Perspective*, The 32nd International Conference of the System Dynamics Society, July 20-24, 2014, Delft, Netherlands, ISBN: 978-1-935056-13-3.
20. Eddy Susanto, Lukas Beladi Sihombing, (2014), *Integrated Project Delivery: A Normative Model for Added Value Creation in Complex Building Projects Using System Dynamics*, The 32nd International Conference of the System Dynamics Society, July 20-24, 2014, Delft, Netherlands, ISBN: 978-1-935056-13-3.
21. Lukas B. Sihombing, (2014), *Funding-Gap for Infrastructure Project in Masterplan Acceleration and Expansion of Indonesia Economic Development: A System Dynamics Approach*, Asia-Pasific System Dynamics

Conference, 22-24 February 2014, Senshu University, Tokyo, Japan, ISSN 1347-0949.

22. Lukas B. Sihombing, (2013), *The role of meta project management in Indonesian Masterplan (MP3EI)*, 27th IPMA World Congress, Sept 30th – Oct 2nd, 2013, Dubrovnik, Croatia, ISBN 978-953-6272-53-3.
23. Lukas B. Sihombing, (2013), *New project finance structure in Indonesian toll road infrastructure development*, 27th IPMA World Congress, Sept 30th – Oct 2nd, 2013, Dubrovnik, Croatia, ISBN 978-953-6272-53-3.
24. Lukas B. Sihombing, (2013), *The Financial Innovation Model to Improve Toll Road Infrastructure Investment Development: Using System Dynamics*, The 31st International Conference of the System Dynamics Society, Cambridge, Massachusetts, USA, July 21 – July 25, 2013, ISBN 978-1-935056-11-9
25. Lukas B. Sihombing, (2013), *Critical Toll Road Infrastructure in Indonesia: A System Dynamics Perspective*, Research, Development, and Practice in Structural Engineering and Construction, 2013, Research Publishing, ISBN-13: 978-981-07-3677-4, ISBN -10: 981-07-3677-0.
26. Lukas B. Sihombing, (2012), *Toll Road Infrastructure Development in Indonesia: A System Dynamics Perspective*, The 26th IPMA World Congress, Crete, Greece, 29-31 October 2012, ISBN 978-618-80311-0-4
27. Lukas B. Sihombing, Prof. Dr. Ir. Budi S. Soepandji, Dr. Ismeth S. Abidin, Prof. Dr. Ir. Yusuf Latief, MT, (2012), *Toll Road Driven Social Economic Development in Indonesia*, The 26th IPMA World Congress, Crete, Greece, 29-31 October 2012, ISBN 978-618-80311-0-4.
28. Lukas B. Sihombing, Prof. Dr. Ir. Budi S. Soepandji, Dr. Ismeth S. Abidin, Prof. Dr. Ir. Yusuf Latief, MT, (2012), *Financial Innovation Risk-Based System Dynamics Model to Improve the Investment Performance of Indonesia Toll Road Development*, The 30th International Conference of the System Dynamics Society, St. Gallen, Switzerland, University of St. Gallen, July 22 – July 26, 2012, ISBN: 978-1-935056-09-6.
29. Lukas B. Sihombing, Prof. Dr. Ir. Budi S. Soepandji, Dr. Ismeth S. Abidin, Prof. Dr. Ir. Yusuf Latief, MT, (2011), *The Risks of Toll Road Infrastructure in Indonesia*, The 12th International Conference on QIR (Qualified in Research), University of Indonesia, 4-7 July 2011, ISSN 114-1284.
30. Lukas B. Sihombing, Prof. Dr. Ir. Budi S. Soepandji, Dr. Ismeth S. Abidin, Dr. Ir. Yusuf Latief, MT, (2010), *The Impact of Land Acquisition Delay in Toll Road Development*, The 5th International Conference on Business and Management Research, Universitas Indonesia, 3rd – 4th August 2010.
31. Lukas B. Sihombing, (2007), *Financial Innovation for Infrastructure Financing*, the 1st International Conference of European Forum, EACEF, 26-27 September 2007, Universitas Pelita Harapan. ISBN 978-979-1053-01-3.

Books:

1. Book: "Research in Project, Programme and Portfolio Management: Projects as an Arena for Self-Organizing", 2022, Chapter: A New Model of a Project, Programme, and Portfolio Recovery to Tackle Covid-19 in Construction Projects, Publisher: Springer, Editor: Ding Ronggui, Reinhard Wagner and Constanta-Nicoleta Bodea, available at:

<https://link.springer.com/book/10.1007/978-3-030-86248-0#toc>. ISBN: 978-3-030-86248-0

2. Book: "A New Model of Toll Road Infrastructure Financing: Buku Kumpulan Artikel Terfokus", Media Sarana Sejahtera, ISBN: 978-623-93726-2-0 (Under Process)
3. Book: "*Research on Project, Programme and Portfolio Management. Integrating Sustainability into Project Management*", 2021, Chapter: Public-Private-People Partnership (PPPP) for Infrastructure Development in Indonesia, Publisher: The Springer RIG (Research Integrity Group), available at: https://link.springer.com/chapter/10.1007/978-3-030-60139-3_14. ISBN: 978-3-030-60138-6
4. Book: "*Ringkasan Disertasi: Pengembangan Model Pendanaan Jalan Tol Dengan Deep Discount Project Bond dan Land Lease di Indonesia*", (2018), Publisher: Penerbit Universitas Indonesia, ISBN: 978-979-456-729-6
5. Book: "People and Places in Project Management Research", Editor(s): Michael Young, 2017, Chapter Nine: *Analysis of Risk Impact on Road Development in Indonesia*, Lukas Sihombing, ISBN-13:978-1-4438-4362-1, ISBN-10: 1-4438-4362-8, Date of Publication: 01/02/2017; Pages / Size: 220 / A5; Cambridge Scholars Publishing | Registration Number: 04333775, Copyright © 2017 Cambridge Scholars Publishing. All rights reserved
6. Book: Praxis Framework, Adrian Dooley, Association for Project Management (APM), 2015, Terjemahan ke Bahasa Indonesia: *Knowledge, Method, Maturity*, ISBN-13: 978-1-9034-9425-7; ISBN-10: 1-9034-9425-7
7. Book: "Research, Development, and Practice in Structural Engineering and Construction", Editor(s): Vanissorn Vimonsatit, Amarjit Singh, Siamak Yazdani, Chapter Sustainable Facilities: *Critical Toll Road Infrastructure in Indonesia – A System Dynamics Perspective*, Lukas B. Sihombing, ISBN-13: 978-981-07-3677-4, Date of Publication: 2013, Pages: 1174 pp; Research Publishing Services, Singapore.

II. National Publications/Seminars:

1. "The Improvement of nation Investment Competitiveness with financial Innovation Method for Toll Road Infrastructure Development", ("Peningkatan Daya Saing Investasi Nasional dengan Metode Inovasi Financial untuk Pembangunan Infrastruktur Jalan Tol"), Lukas B. Sihombing, Prof. Dr. Ir. Budi S. Supandji, DEA, Dr. Ir. Ismeth S. Abidin, Dr. Ir. Yusuf Latief, MT, Seminar Nasional Sains & Teknologi II, Universitas Lampung, 17 – 18 November 2008. ISBN: 978-979-1165-74-7.
2. "Analisis Resiko Finansial Pada Pembangunan Infrastrukstur Jalan Tol Dengan Pendekatan Dinamika Sistem (*System Dynamics*)", Lukas B. Sihombing, Konferensi Nasional Pascasarjana Teknik Sipil (KNPTS) 2010, 26 Mei 2010, Institut Teknologi Bandung, Bandung, Indonesia, ISBN 978-979-16225-5-4
3. "Krisis Infrastruktur Jalan Tol Indonesia Dengan Perspektif Sistem Dinamis", Lukas B. Sihombing, Seminar Nasional Structure #1 – 2013:"Pemerataan

Pembangunan Infrastruktur Berkelanjutan”, Fakultas Teknik Universitas Warmadewa, 18 Desember 2013, Proceeding ISBN. 978-979-18045-5-4.

III. Webinar/Virtual Conferences:

1. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, M. ASCE. (2022), “Risiko Geopolitik Manajemen pada Proyek Portofolio di Indonesia”, Webinar Project, program, Portfolio Management 2022, IAMPI & IPMA Indonesia, March 30, 2022.
2. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, M. ASCE. (2021), “A New Recovery Model Implementation at post-COVID-19: A Case in Cisumdawu Toll Road Project and Harbour Toll Road II Project”, IPMA Global Best Practice Week, Virtual Event, How to Manage The Grate Reset? October 26-31, 2020, October 27, 2021. (Virtual Conference).
3. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, M. ASCE. (2021), “Ketahanan Industri Konstruksi di masa Pandemi Berbasis Manajemen Proyek”, Guest Lecturer at University of Jember, 11 September 2021.
4. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, M. ASCE. (2021), “An Analysis of The Spread of Covid-19 And Its Effects on Indonesia’s Economy: A Dynamic Simulation Estimation”, Indonesia System Dynamics Society (ISDS), 29 Agustus 2020 (Virtual Conference)
5. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, A.M. ASCE. (2020), “Model Recovery Proyek, Program, dan Portofolio untuk Penanganan Industri Konstruksi pasca-Covid-19”, Prodi S2 Teknik Sipil UPH, 3 Agustus 2020.
6. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, A.M. ASCE. (2020), “Manajemen Risiko dalam Pengembangan Pelabuhan”, Macpro, 29 Juli 2020
7. Dr. Ir. Lukas Beladi Sihombing, MT, MPU, A.M. ASCE. (2020), “Pengenalan Sertifikasi IPMA-Indonesia”, IAMPI, 03 Juli 2020
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SUPERVISION OF PROJECT/THESIS/DISSERTATION:

PhD Level:

Gilang Ardi Pratama, Penilaian Risiko Dinamis Pembangunan Proyek Infrastruktur Jalan Tol di Indonesia dengan Metod System Dynamics-Fuzzy Dematel-ANP (SD-FDANP) untuk Meningkatkan Kinerja Waktu Pelaksanaan Proyek, Program Doktor Teknik Sipil Universitas Indonesia, September 2020 – date (Co-Promotor)

Dhiraj Kelly Sawlani, Antecedents of Competitive Advantage and Its Impact of Firm Performance: An Empirical Study on Indonesia Construction Industries (Anteseden Keunggulan Daya Saing dan Dampaknya pada Kinerja Perusahaan: Studi Empiris pada Industri Konstruksi di Indonesia), Doctorate Program Doctor of Research in Management, BINUS University Business School (External Examiner)

Davied Insja, Model System Dynamics Risiko Penyimpangan Biaya Material
Proyek Bangunan Konstruksi Industri, Program Doktor Ilmu Teknik Sipil, Universitas Tarumanegara, September 2016 (Advisor System Dynamics)

Master Level:

Harfit Langlang Buono Putra, Analisis Model Simulasi Pengendalian Waktu Pada Bangunan Gedung Bertingkat Menggunakan System Dynamics: (Gedung ABC), Program Studi Teknik Sipil, Fakultas Sains Dan Teknologi, Universitas Pelita Harapan, Jakarta, 2022 (Main Supervisor)

Ari Tiandaru Baskoro, Peran Building Information Modeling (BIM) Dalam Pengendalian Biaya Pada Pelaksanaan Proyek Konstruksi Bangunan Gedung, Program Studi Teknik Sipil, Fakultas Sains Dan Teknologi, Universitas Pelita Harapan, Jakarta, 2021 (Main Supervisor)

Bernadette Christin, Pemodelan Risiko Biaya Kontingensi Pada Proyek Epc Pipeline Menggunakan Simulasi Monte Carlo, Program Studi Teknik Sipil, Fakultas Sains Dan Teknologi, Universitas Pelita Harapan, Jakarta, 2021 (Main Supervisor)

Elianto, Analisis Metode Konstruksi Fasade GFRC Terhadap Kinerja Waktu Pekerjaan Pada Proyek Bangunan Gedung Tinggi: (Studi Kasus Proyek XYZ), Program Studi Teknik Sipil, Fakultas Sains Dan Teknologi, Universitas Pelita Harapan, Jakarta, 2021 (Main Supervisor)

George Andalas Sumurung, Analisis Quality Assurance Terhadap Kinerja Mutu Produk Pada Proyek Bangunan Gedung (Studi Kasus: Proyek Bangunan Gedung X di Jakarta Pusat), Program Studi Teknik Sipil, Fakultas Sains Dan Teknologi, Universitas Pelita Harapan, Jakarta, 2020 (Main Supervisor)

Yulia Rahmayanti, Peran Quantity Surveyor Untuk Mengurangi Risiko Cost Overrun Pada Proyek Bangunan Gedung Tinggi di DKI Jakarta, Program Studi Teknik Sipil, Fakultas Sains Dan Teknologi, Universitas Pelita Harapan, Jakarta, 2020 (Main Supervisor)

Fransiskus A. Adhi Aryoko, Analisis Kontrak Design and Build Pada Proyek Bangunan Rumah Tinggal di Tangerang Selatan Studi Kasus Pt. Genco Global Consultant, Program Studi Teknik Sipil, Fakultas Sains Dan Teknologi, Universitas Pelita Harapan, Jakarta, 2019 (Main Supervisor)

Antariksa Artidi, Analisis Keterlambatan Proyek X Pada Tahap Konstruksi (Studi Kasus: Proyek Apartemen Grand Taman Melati 2 Margonda Depok), Program Studi Teknik

Sipil, Fakultas Sains Dan Teknologi, Universitas Pelita Harapan, Jakarta, 2019 (Main Supervisor)

Kartika Sari Septanti, Kajian Pengaruh Kebijakan Harga Pembelian Pemerintah Gabah Terhadap Pendapatan Petani di Kabupaten Sragen, Magister Perencanaan dan Kebijakan Pembangunan, Fakultas Ekonomi dan Bisnis, Universitas Indonesia, Jakarta, 2016 (Co-Supervisor)

Immanuel Adimas Gilang Santoso, Analisis Kebijakan Pengelolaan Ikan Demersal Berbasis Model Bioekonomi Gordon-Schaefer (Studi di Kota Pekalongan tahun 2006-2015), Magister Perencanaan dan Kebijakan Pembangunan, Fakultas Ekonomi dan Bisnis, Universitas Indonesia, Jakarta, 2016 (Co-Supervisor)