UNIVERSITAS GADJAH MADA
Analisis Perbandingan Waste Baja Tulangan Berbasis Bar Bending Schedule BIM Menggunakan Cubicost TRB dan Allplan 3D sebagai Implementasi Lean Construction (Studi Kasus: Kolom dan Shear Wall Lantai 8â€“12 Proyek Pembangunan Gedung Perkantoran di Jakarta Selatan)
Aryo Bimo Aji, Ir. Ika Rahmawati Suyanto, S.T., M.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Azhar, S. (2011). *Building Information Modeling (BIM): Trends, Benefits, Risks, and Challenges for the AEC Industry*. Leadership and Management in Engineering, 11(3), 241–252.

Badan Standardisasi Nasional. (2017). SNI 2052:2017 Baja Tulangan Beton. Jakarta: BSN.

Calviano, J., & Sutandi, A. (2026). Perbandingan volume besi tulangan lantai 4 Proyek X antara perhitungan konvensional dan Cubicost TRB. *Jurnal Serina Abdimas, 4*(1), 116–124. https://doi.org/10.24912/jsa.v4i1.37526

Creswell, J. W. (2014). *Research Design: Qualitative, Quantitative, and Mixed Methods Approaches* (4th ed.). California: Sage Publications.

Eastman, C., Teicholz, P., Sacks, R., & Liston, K. (2011). *BIM Handbook: A Guide to Building Information Modeling for Owners, Managers, Designers, Engineers and Contractors*. Hoboken: John Wiley & Sons.

Fernanda, R. A., Bayzoni, B., Husni, H. R., & Ashruri, A. (2024). Analisis waste material pada tulangan kolom berbasis building information modeling (BIM). *Jurnal Rekayasa Sipil dan Desain, 11*(2), 243–254. https://doi.org/10.23960/jrsdd.v11i2.3128

Fernando, R., Friatmojo, E. K., Ricardo, K. C., & Khairunnisa. (2024). Perbandingan quantity take-off baja tulangan antara metoda konvensional terhadap metoda BIM 5D Cubicost pada struktur gedung fasilitas perkeretaapian Manggarai. *ORBITH, 20*(1), 25–34.

Formoso, C. T., Soibelman, L., De Cesare, C., & Isatto, E. L. (2002). *Material Waste in Building Industry: Main Causes and Prevention*. Journal of Construction Engineering and Management.

Garcés, G., Forcael, E., Osorio, C., Castañeda, K., & Sánchez, O. (2025). Systematic review of lean construction: An approach to sustainability and efficiency in construction management. *Journal of Infrastructure Preservation and Resilience, 6*, Article 6. https://doi.org/10.1186/s43065-025-00119-1

Khant, L. P., Widjaja, D. D., Kim, D., Rachmawati, T. S. N., & Kim, S. (2025). Optimizing rebar process and supply chain management for minimized cutting waste: A building information modeling-based data-driven approach. *Buildings, 15*(6), 844. https://doi.org/10.3390/buildings15060844

UNIVERSITAS GADJAH MADA
Analisis Perbandingan Waste Baja Tulangan Berbasis Bar Bending Schedule BIM Menggunakan Cubicost TRB dan Allplan 3D sebagai Implementasi Lean Construction (Studi Kasus: Kolom dan Shear Wall Lantai 8â€“12 Proyek Pembangunan Gedung Perkantoran di Jakarta Selatan)
Aryo Bimo Aji, Ir. Ika Rahmawati Suyanto, S.T., M.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Khant, L. P., Widjaja, D. D., Kwon, K., & Kim, S. (2024). A BIM-based bar bending schedule generation algorithm with enhanced accuracy. *Buildings, 14*(5), 1207. https://doi.org/10.3390/buildings14051207

Kim, S., Lee, D., Son, S., & Kim, D. (2020). Special-length-priority algorithm to minimize reinforcing bar-cutting waste for sustainable construction. *Sustainability, 12*(15), 5950. https://doi.org/10.3390/su12155950

Koskela, L. (1992). *Application of the New Production Philosophy to Construction*. Stanford University, CIFE Technical Report.

Kwon, K., Kim, D., & Kim, S. (2021). Cutting waste minimization of rebar for sustainable structural work: A systematic literature review. *Sustainability, 13*(11), 5929. https://doi.org/10.3390/su13115929

Mellado, F., & Lou, E. C. W. (2020). Building information modelling, lean and sustainability: An integration framework to promote performance improvements in the construction industry. *Sustainable Cities and Society, 61*, 102355. https://doi.org/10.1016/j.scs.2020.102355

Permadi, A. (2025). Analisis Waste Material Beton Bertulang Menggunakan Metode BIM 5D Cubicost TAS dan TRB Dibandingkan dengan Metode Konvensional (Studi Kasus: Proyek Pembangunan Eka Hospital Juanda). Tugas Akhir. Program Studi Teknik Sipil.

Ratnaningsih, A., Rahma, A. F., & Soetjipto, J. W. (2026). Optimasi penggunaan besi tulangan terhadap waste material menggunakan software Cutting Optimization Pro pada proyek bangunan gedung. *Teras Jurnal: Jurnal Teknik Sipil, 16*(1), 36–50. https://doi.org/10.29103/tj.v16i1.1313

Saputra, I. M. Y. (2025). Analisis Waste Material Baja Tulangan pada Proyek Pembangunan Vadim Villa dengan Metode Bar Bending Schedule. Tugas Akhir. Program Studi Teknik Sipil.

Widjaja, D. D., Kim, S., & Kim, D.-J. (2024). Optimizing rebar consumption and cutting waste in column reinforcement: Integrated mechanical couplers and a special-length-priority minimization algorithm. *Buildings, 14*(1), 287. https://doi.org/10.3390/buildings14010287

Womack, J. P., & Jones, D. T. (1996). *Lean Thinking: Banish Waste and Create Wealth in Your Corporation*. New York: Simon & Schuster.

Won, J., & Cheng, J. C. P. (2017). Identifying potential opportunities of building information modeling for construction and demolition waste management and minimization. *Automation in Construction, 79*, 3–18.

UNIVERSITAS
GADJAH MADA
**Analisis Perbandingan Waste Baja Tulangan Berbasis Bar Bending Schedule BIM Menggunakan Cubicost TRB
dan Allplan 3D sebagai Implementasi Lean Construction (Studi Kasus: Kolom dan Shear Wall Lantai 8â€“12 Proyek Pembangunan Gedung Perkantoran di Jakarta Selatan)**
Aryo Bimo Aji, Ir. Ika Rahmawati Suyanto, S.T., M.Eng.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Yuswandi, F. (2024). Analisis Waste Material pada Proyek Pembangunan Pabrik di Kawasan MM2100 Bekasi Menggunakan Cubicost. Tugas Akhir. Program Studi Teknik Sipil.