



miyamoto.

Housing Services

make the world a better, **safer** place. ●



Global Engineering Firm, with a Humanitarian Focus.

Miyamoto International is a global engineering and disaster-risk management firm with a humanitarian focus that builds resilience to sustain economies, safeguard industries and save lives around the world.

Miyamoto combines the technical skills of engineers and data scientists with international development professionals' policy and coordination savvy. The firm applies 75 years of experience serving commercial, governmental, and nonprofit clients in over 50 nations to build lasting resilience across sectors. Miyamoto has dispatched experts to over 100 disasters and operates from 26 offices strategically located in disaster-prone regions.

Miyamoto prioritizes purpose-driven solutions by turning data into decisions that help communities adapt and thrive. The firm leads with world-

class public and private structures and critical infrastructure.

Miyamoto's work intentionally builds institutional capacity, with technical, policy and risk communication specialists acting as a catalyst to support and train local experts, leaders, and laborers. Our engineering, Shelter, WASH, policy, finance, risk reduction, disaster recovery, and housing experts are dedicated to addressing the technical, economic, political, and social challenges in challenging environments.



Empowering Communities, Building Sustainable Futures

Housing

An estimated 1.6 billion people in the world lack adequate housing, and the UN predicts that by 2030, two out of every five people will not have access to a safe home. As cities grow, hundreds of millions move to informal or substandard housing – often self-built in at-risk areas without lifesaving engineering, connections to critical services, or access to finance to undertake improvements. Although housing represents over 60% of the building stock, each house has unique construction, ownership, and financing characteristics, making large-scale housing programs and policies highly complex. In addition, with buildings accounting for 40% of global greenhouse gas (GHG) emissions, implementing green housing solutions is crucial to both climate mitigation and adaptation.

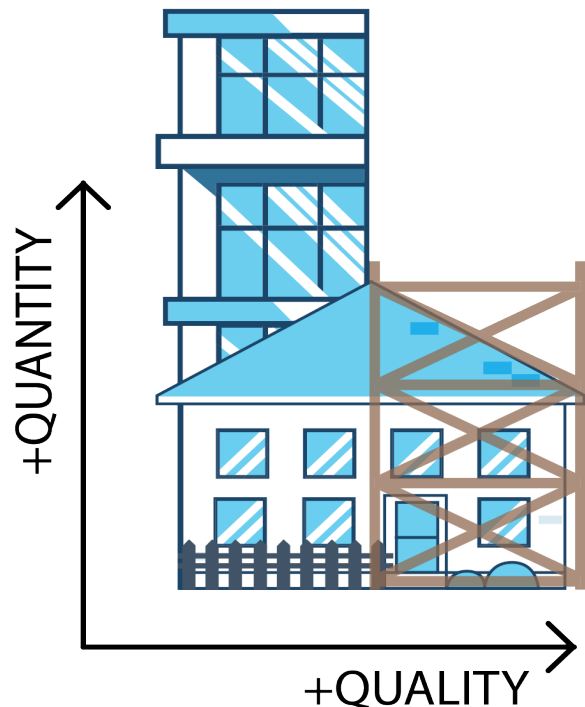
Effective programs require multi-disciplinary expertise in engineering, architecture, urban planning, policy, and finance. Miyamoto's renowned housing specialists work across these fields to assess market gaps and opportunities, provide technical and financial advisory to diverse stakeholders, and design culturally appropriate, cost-effective approaches to new housing development, retrofits, and upgrades.

Beyond four walls and a roof, we are building communities.

From Djibouti to the Philippines, our experts are trusted policy advisors for governments and organizations such as the UN and World Bank, providing key recommendations on affordable, resilient, and green housing programs in formal and informal sectors.

Solutions

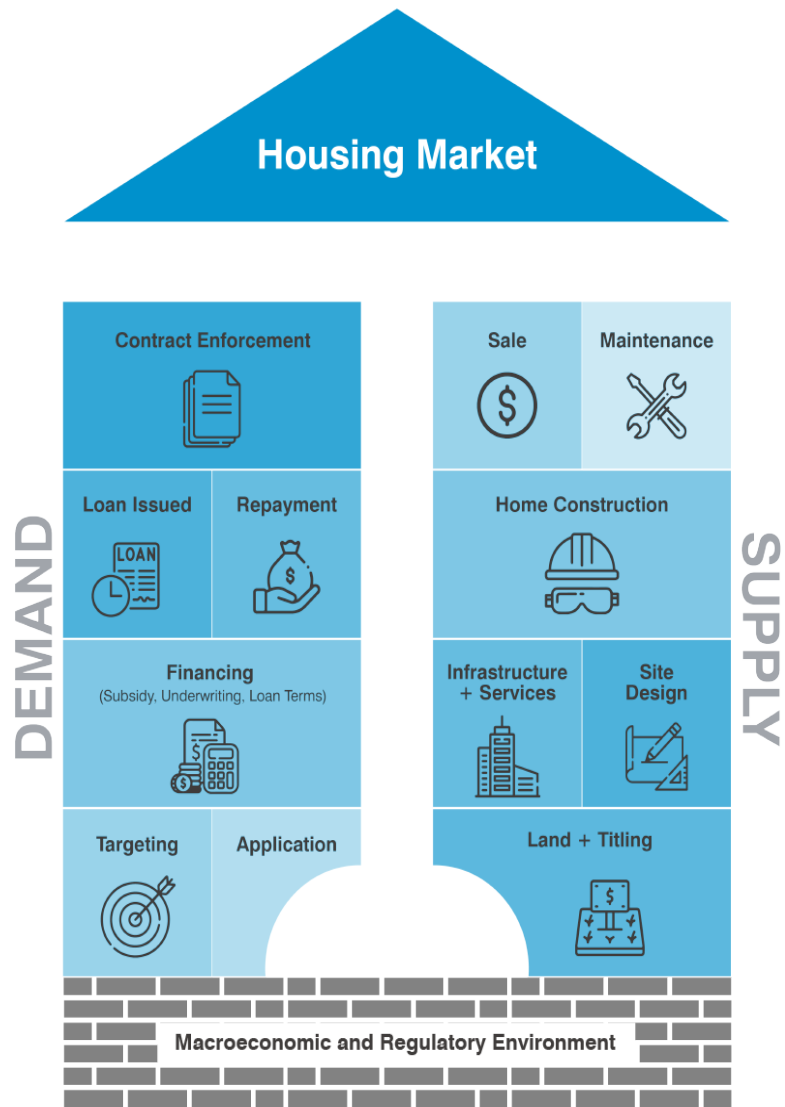
- Value chain analysis and market assessments
- Policy development and institutional strengthening
- Housing finance recommendations
- Technical advice for public-private partnerships
- Green housing (nature-based solutions, sustainable materials, passive design, EDGE certification)
- Urban planning, resilience, and rehabilitation
- Multi-disciplinary engineering
- Multi-hazard risk assessment
- Innovative, cost-effective retrofit technologies
- Investment prioritization based on probabilistic analysis
- Damage assessments and humanitarian response



Housing market analysis, research and policy advisory services

Housing markets are inherently complex, influenced by a wide range of interconnected variables including economic conditions, demographic shifts, government policies, supply and demand dynamics, and local preferences. Comprehensive, up-to-date research is necessary to devise targeted solutions that can help overcome blockages to the delivery of affordable, green, and resilient homes—particularly in emerging markets where housing needs are greatest and market data is limited.

From DRC to the Philippines, Miyamoto conducts housing market assessments in diverse and complex contexts, categorizing existing conditions and bottlenecks across the value chain. We leverage a range of research tools to identify market trends and determine prevailing quantitative and qualitative housing deficits.



Miyamoto’s holistic approach to housing market research supports clients in formulating tailored interventions that foster public-private collaboration, incentivize green and resilient construction, and unlock new forms of financing—all towards increasing adequate and affordable housing offerings for underserved populations.



Solutions for Haiti's Post-Earthquake Recovery

Following the devastating 2021 earthquake in Haiti, Miyamoto was contracted by the World Bank to analyze the effectiveness of previous housing sector initiatives in catalyzing the **supply and demand of affordable housing** in the country. Miyamoto utilized these findings to develop solutions for housing repair and reconstruction in affected areas, such as a potential scheme leveraging World Bank funding and technical assistance to provide households with the financing, materials, and resilient construction expertise to Build Back Better.



Scaling Housing Investment in DRC

Miyamoto completed a thorough **housing market diagnostic** in DRC to prioritize policy reforms and investments in the sector with the goal of expanding formal housing production. Key recommendations explored encouraging employer-assisted housing, improving access to microfinance, strengthening local production of construction materials, and developing a land bank, among others.



Access to Finance for Women in Indonesia

In collaboration with Habitat for Humanity's Terwilliger Center for Innovation in Shelter, Miyamoto conducted a **gender equity analysis and housing finance systems analysis** to identify potential solutions or business models that may overcome existing barriers and improve access to housing finance for women in Indonesia. Inputs also included analysis of Indonesia's quantitative and qualitative housing deficit, the legal environment as it pertains to women's rights and gender equality, the role of female entrepreneurs in Indonesia, informal employment among women, and more.



Decoding Housing Markets for Sustainable Solutions.

Technical assistance for housing PPPs

Housing public-private partnerships (PPPs) serve as a unique mechanism for leveraging the respective expertise and resources of both the public and private sector to provide quality, affordable housing offerings to local communities. However, such projects require complex feasibility studies to ensure proper structuring and achieve successful implementation.

Miyamoto provides technical assistance in the development of affordable housing PPPs from initial site selection to the finalization of PPP agreements. We assess the suitability of PPP sites considering factors such as topography, disaster and climate risks, proximity to services and places of employment, and impact on the surrounding community. Our masterplan design process emphasizes affordability, sustainability, and commercial viability via an analysis of diverse housing typologies and configurations, site infrastructure needs, options for mixed-use

development and shared community facilities, the integration of nature-based solutions (NBS), and more.

Beyond site design, Miyamoto advises governments in the preparation of housing offtake models and allocation policies while determining any viability gap funding or subsidy required to meet project objectives. Community and multi-stakeholder input is captured across the due diligence process to ensure the project is responsive to the needs of local households yet attractive to prospective private developers and investors. During the developer bid process, Miyamoto structures qualification criteria, technical schedules, and RfP documentation to guide governments through bid evaluation with the goal of selecting the best private partner to actualize the project.

Bridging sectors and expertise, Miyamoto catalyzes housing innovations through public-private partnerships, ensuring every project is not just feasible, but finely tuned to the needs of communities and the environment.



Affordable Housing PPPs in the Pacific

Miyamoto is the lead technical consultant for three affordable and green housing PPP projects in Fiji, Papua New Guinea (PNG), and Timor-Leste. These assignments seek to establish replicable models of large-scale housing development in areas facing high levels of informality by drawing upon innovative financing, construction, and risk mitigation strategies. Miyamoto is conducting collaborative preliminary masterplan design processes with Phase 2 of each project dedicated to selecting a private sector partner to finance, develop, build, and sell the housing units at the PPP sites.



Green Pilot Project in Rwanda

Miyamoto provided housing finance expertise for a pilot green housing project in Kigali, Rwanda. The firm's services included updating the project financial model based on proposed site designs, calculating affordable price points for prospective households, assessing the macro-economic impacts of the project, and more.

Financial Advisory

Miyamoto also provides financial advisory services specific to institutions working in the housing sector, such as private developers, public housing agencies, or non-profit organizations dedicated to housing. These services encompass the evaluation of housing subsidy programs, business plan and strategy assessments, and feasibility analyses for new products. These services are often complemented by technical support aimed at enhancing the institutional capacity of organizations, thereby increasing the likelihood of successfully implementing new strategies and facilitating business transformation.

Supporting Sustainable and Resilient Affordable Housing in Indonesia

To advise the Government of Indonesia on strategies for integrating sustainability and resilience into its national affordable housing program, Miyamoto is supporting the development of the proposed **Indonesia Green and Affordable Housing Platform (IGAHP)**. This project includes recommending operationally viable green and low-carbon financial products that can be delivered under the platform, directing knowledge sharing activities to strengthen the public sector's implementation capacity, and highlighting approaches to establishing a blended funding and financing platform for IGAHP.



miyamoto.

Sacramento | San Francisco | San Jose | Pleasanton | Los Angeles | Ontario | Orange County | San Diego | Reno | Las Vegas
Phoenix | Washington, D.C. | Puerto Rico | Mexico | Costa Rica | Colombia | Haiti | Morocco | Italy | Ukraine | Turkey | Uzbekistan
Afghanistan | India | Nepal | Thailand | Indonesia | Japan | New Zealand