





We place people, climate and nature at the center of the approach to build sustainable and resilient communities.

Promoting more compact, inclusive, equitable, better integrated, better-connected cities and territories resilient to climate change and other risks and disasters is more important than ever.

We work through a system-based approach that acknowledges entire ecosystems, enhances community development, tackles risk mitigation, reinforces the ecologies, and fosters local economic development. We bring vast international knowledge and the ability to adapt, understand the politics of place, and address local contexts, needs, and potentials.

Key Areas of Expertise





Urban Resilience & Rehabilitation

Our team possesses deep experience in urban resilience, urban planning, and rehabilitation, including using nature-based solutions (NBS) and sustainable materials. Moreover, our experience in participatory planning processes and capacity building, ranging from community engagements in informal settlements to engaging with high-level officials and government entities, brings a pragmatic, cutting-edge, cross-disciplinary, and integrated approach to sustainability and resilience.

Miyamoto International's Team of Experts specialize in the following areas:



Bridging various disciplines, including urban planning, landscape design, architecture, sociology, community development, enginnering, economy and geography, we are able to consider all forces at play—social, economic, and environmental, in our analysis and outputs in order to propose integrated solutions. We leverage the specificities of each context to propose integral solutions that transcend beyond the physical aspects and include intangible elements, such as tenure aspects, policy and governance, enhancing resilient and vibrant environments and self-sustaining communities.



Water and Urban Resilience

Flood + Risk mitigation: Addressing pluvial, river and coastal risk



Urban Informality and Improvement Plans

Urban rehabilitation + Reintegration:Creating equity, inclusion and sustainability



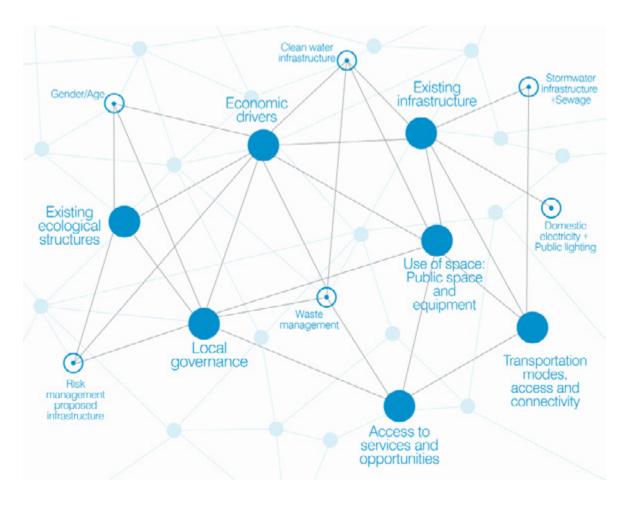
Climate Resilience and Urban Planning

Area + Vision Plans: Bridging multiple scales and dynamics

Integrated and Compact Planning Strategies + Urban Informality

We offer a comprehensive approach to urban planning and design that encompasses climate-smart planning and the incorporation of green, blue, and hybrid infrastructure to foster healthier, environmentally conscious and more resilient urban environments. Our experience in diverse socio-economic, geographic, and institutional contexts reflects our adaptability, as well as our proficiency in context-driven approaches.

Emphasizing stakeholder engagement and participatory processes, we prioritize inclusivity and equity in our urban development strategies. By involving the community in decision-making, and integrating co-creation processes, we aim to foster context-driven approaches and enhance the overall sustainability of projects.



Example of urban components and interrelations considered in our integral approach to planning and design.

Urban Rehabilitation and Addressing Urban Informality

Our team possesses extensive expertise in addressing challenges within informal settlements and navigating urban informality. We are dedicated to finding innovative solutions that aim to incorporate and reintegrate marginalized areas into the fabric of cities, fostering greater inclusion and equity. Our interventions are strategically designed to enhance mobility and connectivity infrastructure, elevating the quality of public spaces, services, and overall infrastructure, while simultaneously enhancing community development. Through our multifaceted approach, we strive to contribute to the creation of resilient, vibrant, and interconnected urban environments that prioritize the well-being of all residents.



Proposal for urban rehabilitation and integration of NbS in the Commune of Matete in Kinshasa DRC.

Services

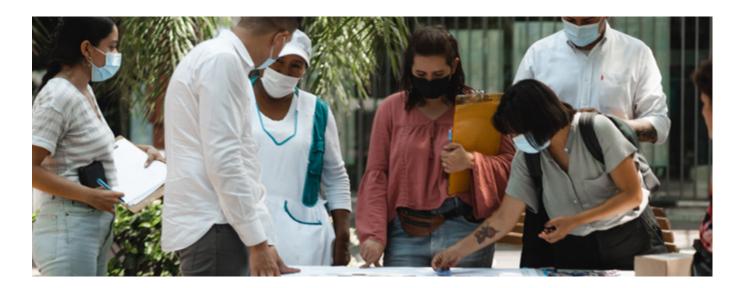
Urban diagnostics
Urban visioning
Strategic area plans +
Local development plans

Neighborhood improvement plans + urban rehabilitation. Scenario planning Stakeholder Engagement + Participatory processes Climate Change Adaptation and Naturebased Solutions.



Local Appropriateness and Sustainability

Our focus is on local appropriateness and sustainability on various levels—physical, environmental, financial, and socio-cultural. This approach results in designs that incorporate local values and identity.



Integrated Planning Stretegies

Collaboration between urban and community planners, local government, authorities, and civil society is central to our approach.



Addressing Multiple Scales

Our planning and design approach spans various scales, from regional to neighborhood levels. We consider the interconnections between these scales, treating sites and solutions as parts of a network.



Resilience at the Core

Our aim is to integrate risk assessments into all design strategies, considering the location of risk areas and their characteristics in conjunction with socioeconomic vulnerability factors.

Focus on Community Development + Local Governance

We are committed to long-term sustainability and believe in the early incorporation of local governance structures to support the implementation (co-construction), maintenance and operations of interventions while enhancing appropriation. We seek to enhance **community development** throughout the process, including strong stakeholder engagement, and the integration of local knowledge, skills, resources and governance structures, and considering the entire **life cycle of interventions**. Our approach ensures that our projects not only meet immediate needs but also thrive over the long term, benefiting and empowering communities for years to come.



Our team has a proven track record of providing sustained support, fostering long-term sustainable solutions that are not only robust and adaptive but also integrated into the local politics of place and existing governance structures. This approach allows for the establishment of effective maintenance and operation strategies that evolve into sustainable governance mechanisms over time. The ongoing projects in over x countries stand as a testament to our unwavering commitment to ensuring community development and localization and investment that extend well beyond the project's lifespan.

Key aspects of our approach:

Emphasis on Collaborative Practices

In a nutshell, our approach prioritizes collaboration, inclusivity, and practicality to create successful, community-driven projects. We have a track record of engaging diverse stakeholders, from local communities to high-level institutions, and we foster cross-sector collaboration to achieve innovative, sustainable solutions.

Early Consideration of Maintenance and Operations

Recognizing the significance of addressing maintenance and operations from the outset, we prioritize this aspect to ensure the long-term sustainability of our projects.

Creating Governance Strategies

We actively work on enhancing and establishing local governance strategies, empowering the community to take charge of the ongoing operation of the projects. These strategies are crucial components for the overall success of the initiatives.



Services

Technical assistance to local governments + Institutional accompaniment

Knowledge exchange + capacity building

Toolkits for community driven projects and institutional co-creation practices.

Stakeholder Engagement + Participatory processes

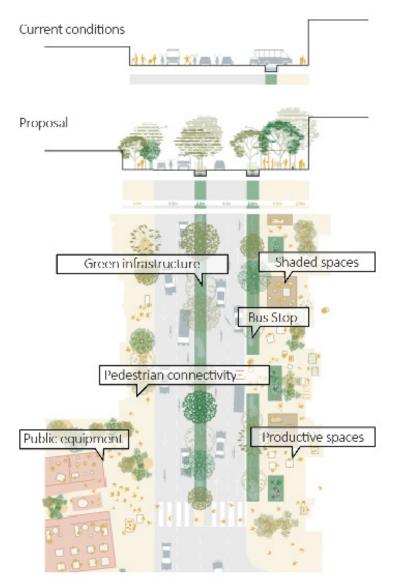
Local governance strategies

Private sector involvement

Maintenance and operations strategies (O&M)

Monitoring, Evaluation, Accountability and Learning (MEAL)

Urban Design + Place Making + Tactical Urbanism



Integration of community centered programming and NbS in Kinshasa, DRC.

We embrace urban design and placemaking focusing on the creation of vibrant and sustainable urban environments that maximize both natural and physical resources, as well as local skills and cultural nuances. Our strategies involve crafting a diverse range of spaces, encompassing public, private, semi-private, and semi-public areas that are intentionally designed to offer various levels of appropriation and governance, and facilitate diverse and productive uses for the community.

Inclusive Design is at the core of our urban design philosophy. We consider people of all ages, genders, income levels, and abilities. Our objective is to enhance equity and access to opportunities such as employment, education, commerce, public life, and community activities, ensuring that the benefits of our interventions extend to everyone in the community. By tailoring our strategies to the unique context and needs of each block, neighborhood, and community, we aim to foster a "sense of place" that not only connects residents to their surroundings but also promotes community empowerment and long-term sustainability. Through strong public programming, locally sourced materials, as well as the integration of local expertise, our participatory and inclusive approach seeks to contribute to a more equitable and well-balanced urban environment.

Tactical Urbanism and Real-Time Testing

We use tactical urbanism, which involves implementing small-scale, low-cost interventions to improve public spaces, to test ideas in real-time and gather community feedback, enabling us to refine and adapt designs to better suit the needs of the community. We believe this real-time testing supports the creation of long-term sustainable solutions that are appropriate and well-received by the community.

By combining urban design, placemaking, and tactical urbanism, we create environments that not only meet the current needs of the community but also have the flexibility to evolve and adapt over time. Our goal is to foster vibrant, inclusive, and resilient urban spaces that truly serve the people who inhabit them.



Conceptual designs of toolkit for tactical urbanism project in Santa Cruz de la Sierra, Bolivia.

Services

Public space design

Nature-based solutions and urban resilience

Area Master Plans

Tactical urbanism, co-creation and coimplementation strategies Knowledge exchange + Capacity building

Participatory processes

Placemaking activities and interventions



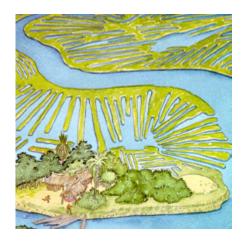


Low Tech And Vernacular Solutions

Passive design and sustainable materials leveraging indigenous practices

Our expert team consistently draws from vernacular wisdom and indigenous knowledge to look for innovative and locally appropriate contemporary solutions. By bridging low tech with modern methodologies, our solutions are both culturally sensitive and

environmentally sustainable. We seek not only to enhance resilient solutions but also foster cultural identity and pride, and contribute to the development of enduring solutions that deeply resonate with the communities we serve.







Infigineous Wisdom and Passive Design

Embracing age-old techniques and local wisdom, our approach harnesses the power of low-tech solutions to enhance sustainability. From passive design principles that maximize energy efficiency to the use of sustainable materials, such as bamboo and earth, we create resilient structures that draw from the rich tapestry of local and indigenous practices.

Harnessing Vernacular Practices

Our understanding of vernacular architecture allows us to integrate the essence of traditional building methods into modern designs. By leveraging the deep-rooted knowledge of local communities, we ensure that our solutions not only endure but thrive in their environments.

Sustainable Material Selection

We prioritize sustainable materials, carefully chosen to reduce environmental impact while providing long-lasting performance. Our commitment to locally sourced and ecofriendly construction materials aligns with our dedication to minimizing the footprint of our projects and enhancing replicability.

Services

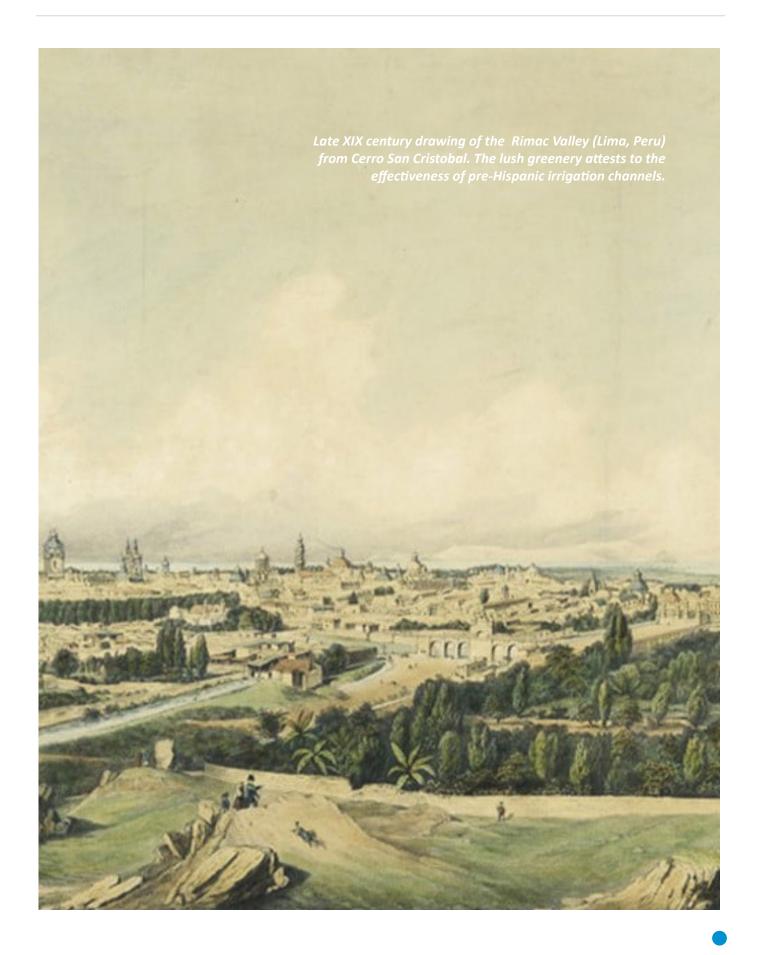
(Vernacular) Building typology analysis and evaluation

Integration of passive design and energy efficient strategies

Identification of climate smart practices in local contexts

Building solutions incorporating vernacular practices and locally sourced materials

Knowledge exchange + Capacity building Incremental retrofits



Participatory Planning + Co-Creation

At our core, we believe in engaging with stakeholders, involving the community, and fostering co-creation in order to meet user needs and ensure their long-term success.

We aim to develop planning and design solutions that are culturally appropriate, innovative, and replicable. Our plans and designs are shaped by the specific needs, customs, values, and desires of each community. We actively involve the community in the design, decision making and implementation process to foster local ownership and shared responsibility.

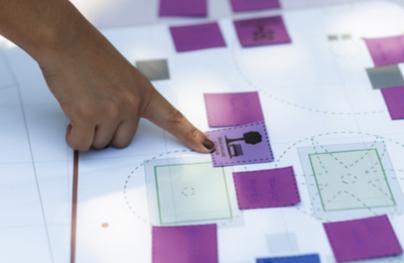


Our team places a high priority on collaboration, inclusivity, and pragmatism to develop successful, community-driven projects and sustainable solutions. With a proven track record of engaging diverse stakeholders, ranging from local communities to high-level institutions, we actively promote cross-sector collaborations. We boast a multidisciplinary and global team, enabling us to craft tailored processes meeting the requirement of each context and community. Our strength lies in our ability to thrive on context-based approaches, responding effectively to specific needs and conditions.



Card sets for game-based methodologies for capacity building and co-creation workshops







Services

Participatory planning strategies

Co-creation workshops

Toolkit development

Knowledge exchange + game-based pedagogical workshops

Community mapping

Data gathering and surveying by bridging open-source software for data collection and participatory processes.

Landscape Based Approach + NbS

Our approach to urban planning and resilience emphasizes a thorough understanding of the landscape's key characteristics. We delve into the historical construction of human settlements, seeking to comprehend both existing and degraded ecosystems and their intricate interdependencies with other ecosystems, populations, and infrastructure. Our overarching goal is to cultivate a harmonious relationship with nature, aiming to maximize ecosystem services for creating healthy, productive and resilientenvironments.

Our team comprises landscape architects, Nature-based Solutions (NbS), and water management experts who frequently collaborate with local biologists, geographers, and botanists to ensure the local appropriateness and applicability of our proposals. Additionally, we have risk assessment experts on board to provide insights into the relevance of NbS for risk management and preparedness.

Key Steps Of Our Approach

Identify keystone patterns and processes within the landscape, recognizing their physical, ecological, and social interrelationships.

Understand local values, symbols, and cultural meanings associated with the landscape.

Visually represent this knowledge in an accessible manner, creating a shared platform for discussion and the promotion of best practices.

Co-Benefits of NbS

We prioritize environmental responsibility in all our activities and actively seek and prioritize nature-based solutions wherever possible.



PROTECT + ENHANCE + CREATE

Context and Local Appropriateness

We actively pursue interventions that are contextually appropriate, contributing to the enhancement of biological and cultural diversity, sustainable food production, effective water management, and the overall well-being of communities and their livelihoods.

Sponge City

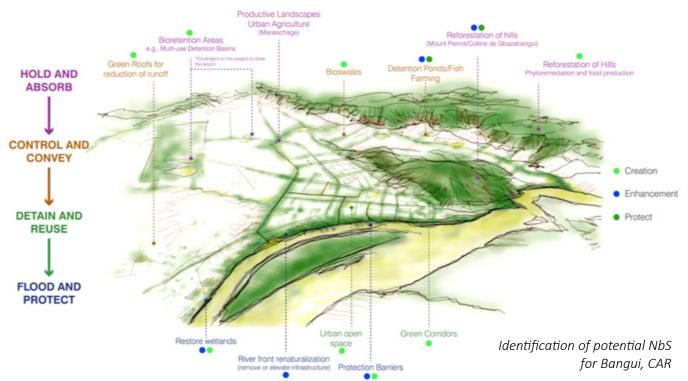
Transforming Vulnerability into Productivity:
Our overall approach centers on working and designing with water. We aim to transform cities into productive "Sponge Cities," moving away from hazardous flooding. By integrating urban planning and design with water management, we shift the stormwater dynamic from a destructive force to a life-enriching one.

This approach improves livability standards, enhances ecosystems and biodiversity, and creates opportunities for development and growth.

Empowering Communities

Our approach seeks to leverage existing informal and vernacular practices, local materials, and established social infrastructure. Furthermore, we aim to enhance local governance strategies to ensure long-term sustainability, efficient maintenance, and effective operations.

Moreover, noting that nature-based solutions can also produce food, restore the water cycle, increase biodiversity and recreational spaces, whenever possible NbS should be combined with strong public policies and programs to support people and communities.



Services

Historical Landscape Analysis

Climate Change Adaptation and Mitigation Plans (particular focus on flood risk reduction)

Climate Change Adaption Strategies + Nature-Based Solutions

Disaster Risk Management Strategies

Housing and Community: Beyond Four Walls And A Roof

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. 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.

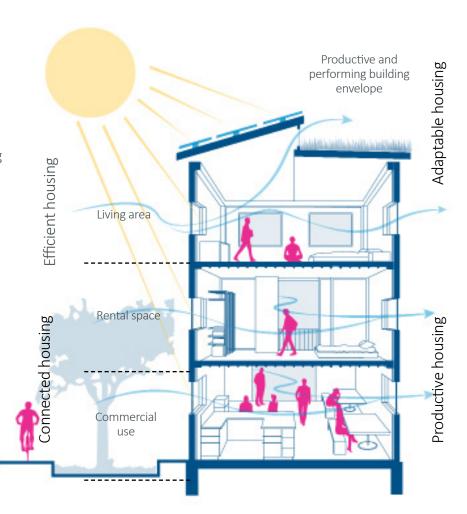
Effective programs require multi-disciplinary expertise in engineering, architecture, urban planning, policy, and finance. Miyamoto's renowned housing specialists work across these fields to assess market gaps and opportunities, provide technical and financial advisory to diverse stakeholders, and design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

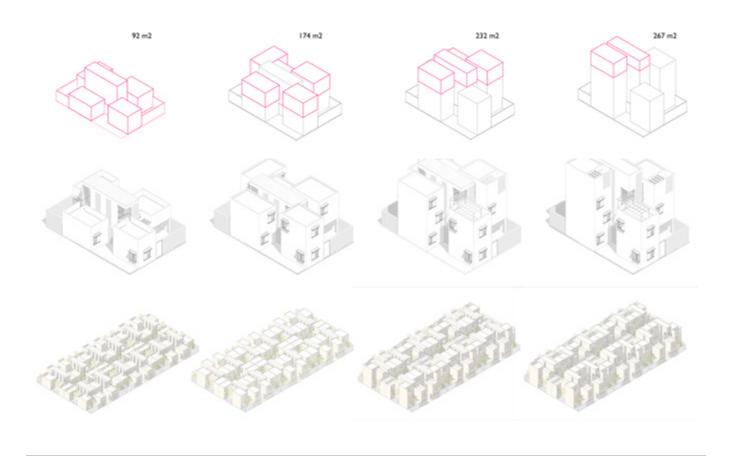
Our approach taps into the potential of housing production, emphasizing capacity building, productivity, flexibility, and adaptability, acting as a catalyst to reduce CO2 emissions.

Moving beyond the traditional notion of four walls and a roof, it envisions housing solutions that not only meet basic needs but also drive ongoing **opportunities for community and economic development, while enhancing adaptation and mitigation efforts.**

Our system-based approach precisely identifies opportunities for creating well-served, compact, and sustainable urban spaces, fostering efficiency and thoughtful design.

At the core of our methodology are passive design strategies that improve energy efficiency, integrate circular and closed loop design strategies, improve comfort, and play a pivotal role in climate change adaptation and mitigation.





Incremental housing units for new developments designed to accommodate climate-displaced populations in Saint Louis, Senegal.

Services

Housing finance

Technical assistance for housing PPPs

Housing market analysis, research and policy advisory services

Housing typology analysis and design

Passive design, circular design and energy efficient housing unit solutions

Site planning and design

Incremental housing strategies

Green building codes, techniques, and materials, including the use of sustainable materials

EDGE green building certification

Retrofit solutions to reduce postdisaster demolition

Sites and Services

Use of sustainable materials and vernacular strategies

Retrofit solutions by hazard type

Whole Settlements Approach: Bridging Humanitarian Assistance And Long-Term Development + DRR

At Miyamoto, we bridge the worlds of humanitarian assistance and long-term development. Our approach integrates a holistic 'whole settlements' perspective into Disaster Risk Reduction (DRR) and reconstruction strategies. We aim to provide a more comprehensive, systems-based approach to DRR by merging participatory urban planning processes and focusing on building resilience. Our goal is to address not only crisis response but also to establish the foundation for sustainable, thriving communities.

Key aspects of our approach:

- Rooted in disaster risk reduction principles.
- Consider the needs of people, the environment, and local climate in urban planning.
- Focuses on interconnected systems and networks rather than isolated solutions.
- Integrates various measures into urban areas to enhance resilience.

Comprehensive Analysis

Examines various aspects of urban life and their relationships.

Addresses multiple scales- from the building, to the block, the settlement (neighborhood and the city).

Includes socio-economic data, stakeholder identification, land use, governance, economic factors, transportation, connectivity, access, natural features, and risk-prone areas.

Environmental Considerations

Minimizes negative impacts and uses resources efficiently.

Prioritizes nature-based solutions for resilience.

Offers benefits like better risk management, community development, and ecosystem restoration.

Community Development

Aligns disaster risk reduction with community development, local economic growth, and improved quality of life.

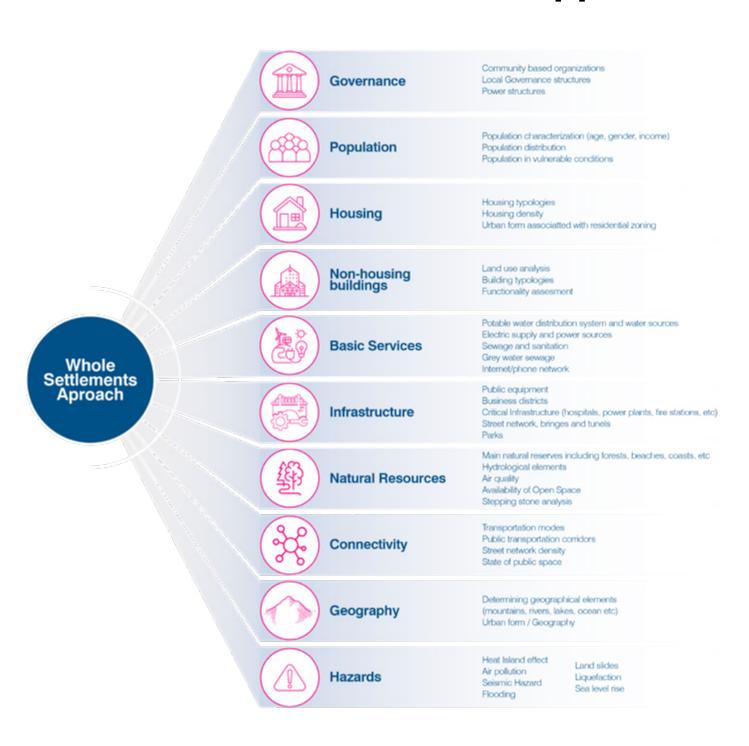
Develops comprehensive strategies with positive community impacts.

Balancing enabling and provision

Tailor interventions to promote sustainable recovery, reconstruction and urban development.



Analysis Components Considered in the Whole Settlements Approach





Services

Stakeholder mapping and donor mapping Community mapping of damaged housing and infrastructure

Analysis of existing modern and traditional vernacular construction systems and typologies

Analysis of the various pathways to recovery for different affected groups

Technical support for implementation

Analysis of supply chains for materials, labor and tools (construction value chain)
Settlements analysis and urban diagnostic
Gender, Equity and Social Inclusion (GESI)
Development of Monitoring, Evaluation,
Accountability and Learning (MEAL)
framework for the program/project.
Water, Sanitation and Hygiene (WASH)

Promoting Resilient Infrastructure

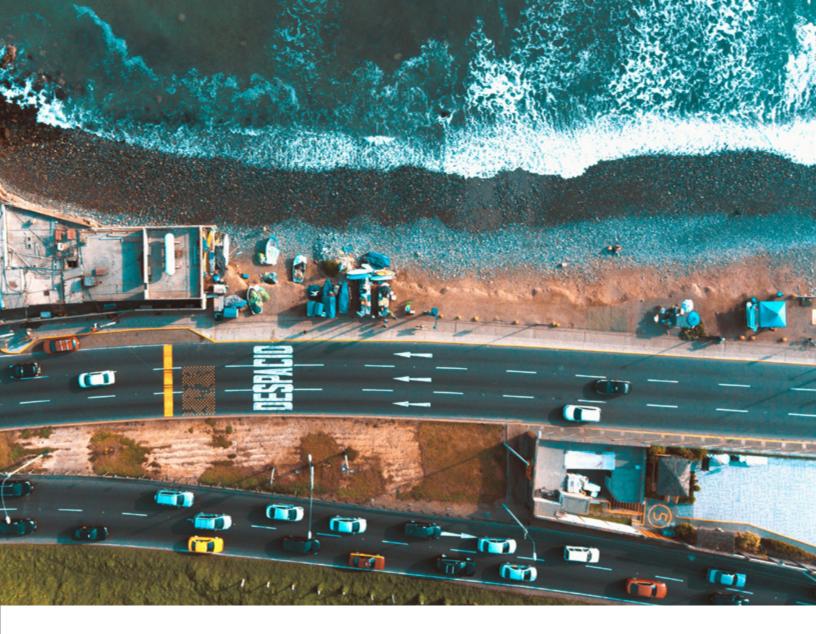
Cities and communities worldwide must develop strategies to respond to climate change's impacts and prepare for future threats. Repeated disasters or stressors stunt economic growth and can destroy years of development gains. Miyamoto's multidisciplinary experts understand disaster. Using data and experience from responding to more than 100 environmental disasters in the last 30 years, we quantify risk and the economic and social benefits of targeted adaptation solutions to prioritize investments that save money and lives and keep in mind long-term sustainability. This includes the use of nature-based solutions. Our systems-based approach considers a more macro-scale, engaging infrastructure solutions as a network, dependent on each other and working with each other, rather than punctual interventions.

Miyamoto has advised governments, businesses, non-governmental organizations (NGOs), and multi-lateral donors. We use probabilistic, multi-hazard risk modeling to inform and improve resilience solutions for transport, power, buildings, housing, and other infrastructure sectors.

Our technical expertise, combined with an in-depth understanding of the built environment, enables Miyamoto to help clients reduce emissions and address the impacts of climate change. We work through robust participatory processes, working hand-in-hand with communities, government entities, and other stakeholders to ensure solutions are appropriate and long-term sustainability is kept in mind. In this regard, co-creation processes and capacity building are embraced when and where possible.

Solutions-oriented + systems-based approach to infrastructure adaptation.





Services

Loss and damage estimation

Impact quantification

Multi-hazard probabilistic risk assessments

Municipal climate insurance

Structural and non-structural solutions (including nature-based solutions)

Green & resilient housing strategies

Retrofit solutions by hazard type

Asset invetory & operational management

Circular design, passive design strategies

EDGE green building certification

Green building codes, techniques, and materials, including the use of sustainable materials

Retrofit solutions to reduce postdisaster demolition

Cost- benefit investment prioritization

Disaster-resistant construction

Asset resilience assessments

Operations & maintenance plans

Building code upgrades and institutionalization

Life cycle cost analysis

Disaster/climate risk finance

Resilient urban planning





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