


# Comparative Analysis of Joint Venture and International Consortium Construction Partnership Contracts: Challenges and Optimization Strategies

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## Abstract

Joint Venture (JV) and International Consortium (IC) contracts are among the most common mechanisms for financing and managing such projects, as they enable the pooling of resources, risk-sharing, and the utilization of multilateral capacities to execute large-scale undertakings. However, in Iran, the legal, managerial, and operational structures of these contracts have faced numerous challenges, resulting in decreased efficiency and increased investment risks in infrastructure projects. The primary objective of this research is to conduct a comparative analysis of Joint Venture and International Consortium contractual models, identify the current challenges in Iran, and propose solutions for optimizing their legal and managerial frameworks. This study employs a descriptive–analytical approach and draws upon credible domestic and international academic sources to examine the theoretical foundations, prior research, and comparative analyses of partnership contracts. Using a comparative legal analysis, the study evaluates the implementation models of Joint Ventures and International Consortia in various countries and compares them with the existing Iranian legal frameworks. The findings reveal that a lack of alignment between domestic regulations and international standards, weaknesses in risk management, bureaucratic complexities, and insufficient clarity in the allocation of responsibilities are among the key obstacles to the successful execution of these contracts in Iran. While developed countries adopt integrated models and apply international standards for structuring partnership agreements, Iran continues to face significant legal, financial, and managerial barriers in this field. To enhance the effectiveness of these contracts in Iran, the research recommends reforming legal frameworks, standardizing managerial procedures, and incorporating innovative financing models into Joint Venture and International Consortium agreements. The results of this study can serve as practical guidance for policymakers, project managers, investors, and partnership-based companies, paving the way for improved management of collaborative contracts in Iran.

**Keywords:** Joint Venture, International Consortium, partnership contracts, project management, infrastructure development, risk management, comparative analysis

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## 1. Introduction

Large-scale infrastructure projects, including construction, transportation, energy, and oil and gas, due to their technical complexity, high capital requirements, and multiple risk factors, necessitate multilateral cooperation among governments, domestic companies, and foreign investors. In this context, partnership contractual models such as Joint Venture (JV) and International Consortium (IC) have emerged as effective mechanisms for risk management, enhancing efficiency, joint financing, and technical knowledge transfer (Walker & Rowlinson, 2019). These models enable the participation of both domestic and foreign companies and, through combining financial, human, and technical resources, lead to cost reduction, quality improvement, and acceleration of project execution (Nguyen et al., 2023). Consequently, developed countries extensively employ partnership agreements in their infrastructure projects and have established clear legal frameworks for their implementation (Zhao et al., 2021).

In Iran, given the extensive need for infrastructure development and the growing international engagement in industry and energy, the use of partnership models could facilitate foreign investment attraction, optimize resources, and streamline the execution of large-scale projects. However, the absence of a transparent legal framework, operational inefficiencies, bureaucratic obstacles, and financing limitations have created significant challenges in implementing Joint Venture and International Consortium agreements (Mehrara & Musai, 2021). Studying these challenges and proposing solutions to reform their legal and managerial structures in Iran could pave the way for improved performance of partnership projects and strengthen the effectiveness of international collaborations.

Accordingly, partnership agreements are recognized globally as one of the key tools for implementing infrastructure megaprojects. These contracts enable risk distribution, access to multilateral financial and technical resources, and increased project efficiency (Sharifi & Abdi, 2023). Among these, the Joint Venture (JV) and International Consortium (IC) are considered the most common partnership models used in construction, oil and gas, energy, and transportation sectors (Zhao et al., 2021). In developed countries, these partnership models play a crucial role in attracting foreign investment and optimizing project execution processes due to their standardized legal and managerial frameworks. In contrast, Iran faces multiple challenges in adopting these contractual models, resulting in reduced effectiveness (Taheri & Khosravi, 2023).

One of the most critical challenges of JV and IC contracts in Iran is the misalignment of domestic regulations with international standards. While advanced economies have clear frameworks for drafting, executing, and supervising such agreements, the absence of a coherent legal system in Iran increases contractual complexity and disputes among parties (Mehrara & Musai, 2021). In particular, ambiguities in laws related to international partnerships create multiple legal and procedural barriers, discouraging foreign investment in the country's infrastructure sector (Walker & Rowlinson, 2019).

Beyond legal issues, managerial challenges constitute another major barrier to the successful execution of these partnership models in Iran. A successful JV or IC agreement requires transparent and standardized management systems capable of ensuring coordination among all contracting parties (Taheri & Khosravi, 2023). However, Iran suffers from the lack of integrated management systems and weaknesses in joint decision-making processes, which increase operational risks and disputes among partners (Loosemore et al., 2022). Additionally, the failure to clearly define the responsibilities and obligations of each party in many JV agreements has caused disputes during the execution phase and resulted in significant project delays (Fidic, 2017).

From an economic perspective, financing represents one of the primary obstacles to implementing partnership contracts in Iran. Foreign investors are generally sensitive to economic and political volatility; thus, the absence of robust legal guarantees to protect investments remains a key deterrent to the participation of international companies in Iranian projects (Sharifi & Abdi, 2023). Economic sanctions, limited access to international financial resources, and the lack of innovative financing instruments have reduced the capacity of domestic companies to implement large-scale infrastructure projects, undermining the success of partnership models (Liu et al., 2020).

Another fundamental challenge in this domain is the complex bureaucracy and time-consuming administrative procedures that delay the execution of partnership agreements in Iran, causing substantial cost escalation. In contrast, developed countries

have facilitative regulations to expedite such processes, while in Iran, the multiplicity of decision-making bodies and the intricacy of administrative steps reduce foreign investors' motivation to enter into these contracts ([International Chamber of Commerce, 2021](#)).

Given these barriers, reforming and optimizing the legal and managerial frameworks for partnership contracts in Iran could play a pivotal role in improving infrastructure project performance. Establishing a transparent legal system aligned with international standards, adopting integrated management models, and developing innovative financing mechanisms could significantly enhance the execution of JV and IC agreements ([Badiru & Osisanya, 2016](#); [Taheri & Khosravi, 2023](#)). Moreover, leveraging successful international experiences and adapting them to Iran's unique socio-legal and economic context could help reduce execution risks and increase the attractiveness of infrastructure investments ([Nguyen et al., 2023](#)).

This article aims to conduct a comparative legal analysis of Joint Venture and International Consortium agreements and identify their implementation challenges in Iran, drawing lessons from successful global practices to propose strategies for optimizing their legal and managerial frameworks. Through reviewing previous studies and examining effective legal and operational models from other jurisdictions, this research endeavors to design an appropriate framework to improve the efficiency of partnership contracts in Iran. The findings can provide actionable guidance for policymakers, project managers, investors, and joint enterprise entities, paving the way for the development of these contractual models in the Iranian context.

## 2. Theoretical Foundations

Partnership contracts are among the most widely used models for executing large-scale projects across sectors such as infrastructure, energy, construction, and transportation. These agreements allow domestic and foreign companies to combine financial, managerial, and technical resources to jointly deliver complex and capital-intensive projects ([Walker & Rowlinson, 2019](#)). The primary motivation for adopting such models lies in optimizing risk management, improving operational efficiency, and attracting foreign investment. In many megaprojects, operational, legal, and financial risks exceed the capacity of a single company; therefore, collaboration among multiple economic actors can reduce financial pressure, distribute expertise, and increase the likelihood of project success ([Nguyen et al., 2023](#)). Developed countries — particularly the United States, China, and members of the European Union — have established transparent legal frameworks for implementing partnership contracts. These frameworks define with precision the allocation of responsibilities, financial commitments, project management procedures, and dispute resolution mechanisms ([Zhao et al., 2021](#)).

One of the most prominent types of partnership agreements is the Joint Venture (JV), in which two or more independent companies cooperate to execute a shared project or achieve a specific commercial goal. This model is built upon balanced financial and managerial participation, meaning that the partners share profits, losses, and risks associated with the project ([Mehra & Musai, 2021](#)). Depending on the level of commitment and the management structure, a JV may take the form of an Equity Joint Venture (EJV) or a Contractual Joint Venture (CJV). In an EJV, a new legal entity is established and owned by the partners in proportion to their capital contribution, whereas a CJV operates solely on the basis of a binding legal contract without creating an independent legal personality ([Walker & Rowlinson, 2019](#)). These agreements are common in projects such as building oil refineries, developing power plants, and executing large-scale construction works.

Alongside the JV, the International Consortium (IC) is another major partnership model, typically used for complex, multinational projects. Unlike a JV, an IC does not require the creation of a new legal entity; instead, each member company is responsible for executing a defined part of the project under a mutually agreed contract ([Taheri & Khosravi, 2023](#)). This model is frequently applied in infrastructure development, such as metro construction, dams, airports, and telecommunication networks. For example, many high-speed rail projects across Europe have been carried out by consortia composed of multiple engineering and investment companies ([Sharifi & Abdi, 2023](#)). In Iran, interest in these models has grown due to the country's need for rapid infrastructure development; however, legal, managerial, and financial challenges continue to impede their successful implementation ([International Chamber of Commerce, 2021](#)).

## 2.1. Definition and Concepts of Partnership Contracts

### 2.1.1. Joint Venture (JV)

A Joint Venture is a prevalent form of economic and commercial cooperation in which two or more independent entities collaborate to implement a specific project or achieve shared business objectives. This model is especially valuable for projects requiring significant capital investment, complex management, and risk distribution among multiple economic participants (Nguyen et al., 2023). JV partners commit to joint financing, profit-and-loss sharing, and cooperative management according to predefined contractual terms. Its flexibility makes it one of the most attractive methods of collaboration in industries such as oil and gas, energy infrastructure, manufacturing, and technology (Badiru & Osisanya, 2016).

Structurally, JVs are divided into two main categories: **Equity Joint Ventures (EJV)** and **Contractual Joint Ventures (CJV)**. In an EJV, the partners establish an independent legal entity and hold shares proportionate to their investment. This approach is common in long-term, capital-intensive projects such as hydrocarbon extraction, energy plant development, and other large-scale industrial initiatives (Mehrara & Musai, 2021). The key advantage of the EJV structure is the creation of a distinct legal personality capable of entering into contracts, ensuring transparent financial accountability, and facilitating foreign capital attraction (Walker & Rowlinson, 2019).

Conversely, a Contractual Joint Venture (CJV) is formed without establishing a separate legal entity; it operates solely through a detailed contractual agreement among the partners (Taheri & Khosravi, 2023). CJVs are often favored for short-term or specialized projects such as construction, transportation, and urban development. One of the main benefits of CJVs is administrative simplicity and reduced legal and financial costs associated with setting up a new company. Each partner retains its legal independence while temporarily cooperating within the defined project framework.

A successful real-world example of a contractual JV is the cooperation among Chinese engineering and investment firms in the Tehran–Isfahan high-speed railway project. Several Chinese companies executed the project under a shared contractual arrangement without establishing a separate legal entity. This collaboration allowed Iranian firms to benefit from foreign technical expertise and financing, while Chinese partners gained access to new markets for engineering services and technology (Sharifi & Abdi, 2023). This demonstrates that CJVs can be highly effective for national and cross-border projects if supported by an appropriate legal and managerial framework.

### 2.1.2. International Consortium (IC)

An International Consortium represents a collaborative arrangement among multiple companies or economic organizations to undertake large and technically complex projects. Unlike a JV, an IC does not require forming an independent legal entity; instead, the participants fulfill their contractual duties while maintaining their separate corporate identities (Zhao et al., 2021). Consortia are particularly suited for projects demanding vast investment, diverse technical expertise, and involvement from multiple economic actors across borders. Each participant contributes specialized competencies, enabling the consortium to handle tasks beyond the capacity of any single company.

A key feature of consortia is the clear division of roles and responsibilities, allowing each member to focus on its strengths. For instance, in a power plant project, one firm might manage engineering and design, another may provide equipment, and a third could oversee construction (Walker & Rowlinson, 2019). This structure enhances efficiency and reduces costs by leveraging specialized skills. Moreover, ICs are often based on EPC (Engineering, Procurement, and Construction) contracts, which help control costs, optimize schedules, and improve execution quality (Fidic, 2017).

Another significant benefit of international consortia is their ability to facilitate financing and risk management. Megaprojects often require funding beyond the capacity of a single entity. By pooling resources, consortium members can increase their collective creditworthiness and access large-scale financing opportunities (Liu et al., 2020). In addition, financial, technical, and legal risks are distributed among the members, preventing any single participant from bearing disproportionate exposure. If operational or financial issues arise, other members can provide managerial or monetary support to keep the project on track (Loosemore et al., 2022).

In Iran, a notable example is the Azadegan Oil Field Development Consortium, formed by multiple domestic and international companies. This field, one of the country's largest petroleum reserves, required diverse expertise in drilling, reservoir engineering, equipment supply, and operational management (Sharifi & Abdi, 2023). Foreign companies contributed advanced drilling technology and field management expertise, while Iranian firms managed local operations and workforce coordination. This collaboration optimized extraction processes, reduced costs, and improved production efficiency. Such cases highlight that with a well-structured legal and managerial framework, International Consortia can provide effective solutions for delivering large-scale infrastructure and industrial projects in Iran.

## 2.2. *Advantages and Disadvantages of Partnership Contracts*

One of the most significant advantages of Joint Venture (JV) and International Consortium (IC) contracts is the allocation of financial and operational risks in megaprojects. Delivering infrastructure works—such as power plants, rail lines, refineries, and transnational bridges—requires massive investment and entails multiple risks, including fluctuations in input prices, regulatory changes, technical uncertainties, and schedule delays. Under partnership models, several companies co-invest and apportion project costs among themselves, thereby reducing the financial and economic burden borne by each contracting party (Loosemore et al., 2022; Walker & Rowlinson, 2019). Moreover, because multiple financial institutions and investors participate, projects can proceed with minimal dependence on a single country's domestic resources and with a more balanced distribution of financial exposure among the partners. As a result, execution enjoys greater stability in both funding and risk management, lowering the probability of failure (Badiru & Osisanya, 2016). Another core benefit of JV and IC arrangements is the transfer of knowledge and technology between domestic and foreign partners. In many jurisdictions, local firms face constraints stemming from limited technical capacity and restricted access to advanced equipment and technologies. Through partnerships with international firms, they gain exposure to new technologies, international standards, advanced production processes, and contemporary project management methods (Nguyen et al., 2023). For instance, in renewable-energy projects, cooperation with industry leaders can raise efficiency, reduce operating costs, and elevate the host country's technical know-how. Many such contracts also incorporate training programs and the transfer of execution experience, which enhance technical skills and strengthen the host country's human capital (Harris et al., 2021). An additional advantage is the optimization of managerial and human resources by pooling the capabilities of several companies. One of the core challenges in megaproject delivery is suboptimal workforce management and weak coordination across project interfaces. In partnership contracts, combining management and specialist teams from different firms encourages the use of best-practice managerial and execution approaches (Loosemore et al., 2022). International partners often bring modern management structures, deep experience with complex projects, and robust oversight capacity; by collaborating with them, domestic firms can upgrade managerial systems and learn from proven international practices (Walker & Rowlinson, 2019). The presence of multiple partners also means decisions are taken after more rigorous scrutiny, with all executional and economic dimensions considered—improving the prospects of project success (Fidic, 2017). Finally, access to international financing is a further major advantage. Many megaprojects stall or suffer long delays due to inadequate funding. JV and IC contracts enable domestic companies, through cooperation with experienced and reputable foreign partners, to reach global pools of capital. Multilateral development banks, international investment funds, and cross-border financial institutions typically provide stronger support to projects featuring credible foreign partners (Liu et al., 2020). Such structures can also create opportunities for concessional loans and private international equity, thereby facilitating execution and enabling faster growth for the host economy (Sharifi & Abdi, 2023).

A fundamental challenge in partnership contracts is ambiguity in allocating responsibilities among commercial partners. In many cases, insufficient drafting clarity and the absence of precise definitions for each party's duties and obligations generate legal and operational disputes (Mehrra & Musai, 2021). This problem is particularly acute in large, multi-party projects that require tight coordination. Divergent interpretations of execution methods, schedules, and quality standards can lead to delays, cost overruns, and—even—termination. One root cause is the lack of coherent legal standards and limited adoption of modern templates for partnership contracting. While developed jurisdictions maintain clear legal frameworks that define responsibilities, oversight mechanisms, and dispute-resolution procedures, gaps in JV and IC documentation in many countries,



including Iran, have become a persistent source of friction (Fidic, 2017; Harris et al., 2021; United Nations Commission on International Trade Law, 2013).

Cultural and managerial differences constitute another major obstacle, especially in international projects. Countries and companies vary in management structures, labor regulations, and organizational cultures, creating execution challenges and coordination frictions (Taheri & Khosravi, 2023). For example, some Asian firms operate with stricter hierarchies, whereas many European firms employ more flexible structures; these contrasts in decision-making styles, dispute-handling approaches, and day-to-day interaction can reduce efficiency and generate tension among partners. In projects that mix domestic and foreign entities, differences in language, legal regimes, and execution standards further complicate communications and decisions. To mitigate these challenges, many international firms rely on cross-cultural management practices and specialized training for international collaboration; where such methods are overlooked, cultural and managerial divergences remain a substantial barrier (Cai, 2023; Crupi et al., 2021).

Political and economic risks also loom large in partnership execution. Macroeconomic volatility, international sanctions, currency instability, and sudden policy shifts can reduce investment attractiveness and heighten uncertainty in cross-border collaboration (Sharifi & Abdi, 2023). For instance, foreign companies considering participation in Iranian infrastructure projects have, at times, withdrawn due to financial sanctions and banking restrictions. Exchange-rate swings and high inflation in some countries complicate financial planning and budgeting for JV and IC contracts. Even in jurisdictions without sanctions, unpredictable economic policies and abrupt governmental decisions raise participation risk for both domestic and foreign investors. To reduce these exposures, some countries have implemented investment-insurance mechanisms and protective legal instruments for foreign investors; where such tools are absent, as is often reported in Iran, partnership development faces a serious headwind (Liu et al., 2020; Walker & Rowlinson, 2019).

Finally, legal and bureaucratic barriers are among the most persistent problems in implementing JV and IC agreements. In many jurisdictions—particularly developing economies—misalignment between domestic laws and international standards, together with complex and time-consuming administrative procedures and weak oversight institutions, creates multiple obstacles to execution (International Chamber of Commerce, 2021). In Iran, companies seeking to conclude partnership contracts often encounter numerous decision-making bodies, cumbersome bureaucratic processes, and frequent legal changes. These factors increase time and transaction costs, reduce investment appeal, and slow the pace of large-scale infrastructure development. By contrast, advanced economies increasingly administer permitting and contract-approval procedures electronically and with minimal barriers. In Iran, heavy bureaucracy and inter-agency fragmentation remain among the principal impediments to effective implementation. Resolving this problem requires legal reform, closer coordination among executive bodies, and broader adoption of international best practices for drafting and managing JV and IC agreements (United Nations Commission on International Trade Law, 2013; Zhao et al., 2021).

### 2.3. *Legal and Managerial Frameworks for Partnership Contracts*

The successful execution of partnership agreements, such as Joint Ventures (JV) and International Consortia (IC), requires transparent and standardized legal and managerial frameworks capable of clearly defining commitments, responsibilities, and operational processes. Internationally, instruments such as the International Federation of Consulting Engineers (FIDIC) and the United Nations Commission on International Trade Law (UNCITRAL) provide legal models that help manage risk, resolve disputes, and ensure effective project delivery (Fidic, 2017; United Nations Commission on International Trade Law, 2013; Walker & Rowlinson, 2019). On the managerial side, standards such as PMBOK and PRINCE2 offer structured solutions for project control, resource optimization, and enhanced coordination among contracting parties (Nguyen et al., 2023; Taheri & Khosravi, 2023). However, in many jurisdictions — including Iran — legal ambiguities, fragmented regulations, and complex bureaucratic procedures have hindered smooth implementation of these agreements (Mehrara & Musai, 2021). To overcome these challenges, legal reform, regulatory simplification, and broader adoption of internationally recognized standards must become a policy priority.

### 2.3.1. *International Legal Standards*

One of the most important legal standards in structuring partnership agreements is the FIDIC suite of contracts, widely applied in engineering, procurement, and construction (EPC) projects (Fidic, 2017; Walker & Rowlinson, 2019). FIDIC provides standardized templates that define the obligations of each party, payment procedures, change management, and dispute resolution methods. Its primary value lies in contract transparency, balanced allocation of rights and duties between employers and contractors, and reduced likelihood of execution-related disputes. Many developed and emerging economies adopt FIDIC to improve efficiency, facilitate project financing, and reduce contractual risk exposure (Harris et al., 2021).

Alongside FIDIC, the UNCITRAL Model Law on International Commercial Arbitration constitutes another central international framework for partnership contracts (United Nations Commission on International Trade Law, 2013). UNCITRAL sets standards for dispute settlement, international arbitration procedures, and cross-border commercial contracting. It assures foreign investors that any contractual disputes will be handled impartially and fairly, encouraging greater participation in infrastructure and industrial megaprojects (International Chamber of Commerce, 2021). In many JV and IC agreements, UNCITRAL arbitration clauses are included because they provide a neutral, enforceable, and globally recognized mechanism for conflict resolution. Adopting this framework in developing countries can significantly increase foreign investment attractiveness and reduce legal risk in complex partnerships (Zhao et al., 2021).

Global financial institutions also play a pivotal role in shaping legal standards for partnership agreements. The World Bank and the International Monetary Fund (IMF) provide legal and financial guidelines aimed at supporting investors and reducing risk in PPP, JV, and IC projects (Sharifi & Abdi, 2023). The World Bank, for instance, has developed standardized PPP contractual models to promote transparency, reduce corruption, and strengthen risk management in infrastructure development. These frameworks help governments structure agreements consistent with international norms while gaining access to global legal and financial protection (Nguyen et al., 2023). Overall, adopting legal standards such as FIDIC, UNCITRAL, and World Bank PPP guidelines is key to improving transparency, risk allocation, and the success of cross-border partnerships. However, developing economies like Iran continue to face difficulties in fully aligning domestic laws with these global frameworks, dealing with bureaucratic inefficiency, and lacking clarity in dispute resolution. Incorporating such standards into Iran's legal architecture would strengthen investor confidence, facilitate international collaboration, and reduce operational conflicts in large-scale partnership projects (Mehra & Musai, 2021).

### 2.3.2. *Managerial and Financial Frameworks*

A core managerial dimension of partnership contracts is risk management throughout project planning and execution. JV and IC agreements are inherently exposed to diverse risks due to their multilateral nature, execution complexity, and cross-border interactions. To address these, leading international firms apply standardized project management methodologies such as PRINCE2 and the PMBOK Guide (Taheri & Khosravi, 2023). These methodologies provide systematic processes for risk identification, assessment, and control across project stages. They assist project managers in optimal resource allocation, continuous progress monitoring, and proactive mitigation of execution-related uncertainties (Loosemore et al., 2022). In developed jurisdictions, compliance with recognized risk management frameworks is often a legal or regulatory requirement in partnership contracts, while in many developing economies, including Iran, limited adoption of these systems has increased exposure to operational risk and lowered productivity.

In addition to risk management, financing remains a fundamental pillar of the managerial and legal infrastructure for partnerships. Large infrastructure and industrial projects implemented via JV and IC models typically require capital investments beyond the means of a single firm. Developed countries have embraced diverse financing strategies such as foreign project finance, Build–Operate–Transfer (BOT) models, and Public–Private Partnerships (PPP) (Sharifi & Abdi, 2023). Under foreign project finance, funding is secured through international loans, direct foreign investment, or credit facilities from global banks. BOT models enable private partners to finance, build, and operate a project for a defined concession period before transferring it to the public owner. This approach is widely used in airports, highways, and power plants. PPPs allow

governments and the private sector to jointly finance, execute, and operate projects, reducing the fiscal burden on states while enhancing delivery efficiency (Walker & Rowlinson, 2019).

These financing frameworks enable developing economies to advance infrastructure without relying solely on domestic funding by attracting foreign capital and leveraging private-sector capacity. However, in Iran and other emerging markets, legal restrictions, international sanctions, and the absence of well-defined partnership financing frameworks have significantly constrained such models (Liu et al., 2020). For example, many consortia operating in Iran face uncertainty due to insufficient financial guarantees for foreign investors, leading to cautious or limited participation. Additionally, inadequate regulatory oversight and outdated financial frameworks have prevented many JV projects from accessing global banking facilities (International Chamber of Commerce, 2021).

In contrast, advanced economies support partnership finance through protective investment laws, tax incentives, and independent oversight agencies, ensuring transparency and confidence for international investors (Crupi et al., 2021). Strengthening Iran's managerial and financial frameworks — by mandating international risk management standards, developing modern financing mechanisms, and creating legal guarantees for foreign investors — could greatly improve the success rate of JV and IC projects.

In summary, robust legal frameworks (FIDIC, UNCITRAL, ICC guidelines) and advanced managerial and financial models (PRINCE2, PMBOK, PPP, BOT, global project finance) are essential for mitigating risk, attracting investment, and ensuring effective execution of partnership agreements. Countries that integrate these elements into their regulatory and business environments achieve higher transparency, better risk distribution, and greater project success. For Iran, aligning with these standards and simplifying bureaucratic and financial barriers would be transformative in enhancing its capacity to deliver large-scale infrastructure and industrial initiatives through JV and IC arrangements.

### 3. Review of Previous Research

Partnership contracts, particularly Joint Venture (JV) and International Consortium (IC) models, have been recognized as key mechanisms for managing megaprojects, mitigating financial risk, and enhancing execution efficiency. These agreements facilitate collaboration between domestic and foreign companies, enabling technology transfer, investment development, and faster delivery of large infrastructure and industrial projects (Walker & Rowlinson, 2019). In recent years, a substantial body of international research has focused on the concepts, legal frameworks, managerial structures, and financing models underpinning such contracts. Findings consistently show that the success rate of JV and IC agreements is higher in developed countries, largely due to the existence of clear legal frameworks and efficient supervisory institutions (Nguyen et al., 2023). Conversely, research on developing economies has highlighted persistent challenges related to legal uncertainties, administrative inefficiencies, and financing barriers (Mehrra & Musai, 2021).

Regarding Joint Ventures, several studies have explored the model's flexible and scalable application across industrial, commercial, and technology sectors. For example, Zhao (Zhao et al., 2021) demonstrated that the JV model in the United States and the European Union has evolved into a strategic tool for expanding the oil and gas sector, advancing high-tech industries, and delivering infrastructure projects. The study emphasized that strong legal frameworks and transparent contracts underpin the high success rate of JVs in these jurisdictions. On the other hand, research aligned with emerging economies indicates that lack of legal clarity, weak contractual oversight, and bureaucratic hurdles complicate the effective deployment of JVs (International Chamber of Commerce, 2021). Consequently, many scholars recommend the adoption of internationally recognized legal templates, including the UNCITRAL Model Law and the FIDIC suite of contracts, to reduce disputes and improve investor confidence (Fidic, 2017; United Nations Commission on International Trade Law, 2013).

In the domain of International Consortia, prior research has extensively examined managerial and financing structures for large infrastructure delivery. Walker (Walker & Rowlinson, 2019) analyzed global IC practices in transportation and energy megaprojects, showing how these arrangements reduce financial burdens and improve operational efficiency when clear standards and governance mechanisms exist. Similarly, studies investigating the Middle East and Iran report that legal and financing misalignments with international standards hinder foreign investment and operational success (Mehrra & Musai,



2021; Sharifi & Abdi, 2023). For instance, Khosravi and colleagues (Taheri & Khosravi, 2023) found that the absence of cohesive regulatory frameworks, combined with inadequate financial guarantees, discourages multinational companies from engaging in Iranian consortia.

Iranian research has predominantly addressed legal, managerial, and economic barriers to partnership contracts. Mehrara (Mehrara & Musai, 2021) reported that due to legal ambiguities and weak JV contract management, many Iranian projects experience major delays and cost escalations. Other studies highlight how the absence of protective measures for foreign investors and limited access to international finance reduce the appeal of JV and IC models in Iran (Liu et al., 2020; Sharifi & Abdi, 2023).

#### 4. Comparative Analysis of Partnership Contracts in Iran and Other Countries

In developed economies, JV and IC models are built on robust legal frameworks and stable financial standards. The United States, the European Union, and China implement these agreements under the strict supervision of independent legal and financial bodies and make extensive use of international contract standards such as FIDIC and UNCITRAL (Fidic, 2017; United Nations Commission on International Trade Law, 2013; Walker & Rowlinson, 2019). A key feature of these systems is the existence of explicit rules for responsibility allocation, dispute resolution, and financial/operational monitoring. For example, within the EU, JV contracts operate under harmonized legal regimes, enhancing transparency and facilitating cross-border cooperation (Nguyen et al., 2023). Additionally, protective measures such as investment guarantees and risk insurance mechanisms improve investor confidence and make these contractual models highly attractive (International Chamber of Commerce, 2021).

In contrast, Iran faces several systemic obstacles that limit the full potential of JV and IC agreements. One major challenge is the lack of clear foreign investment laws and misalignment of domestic financial and managerial standards with international best practices (Mehrara & Musai, 2021). As a result, foreign firms remain reluctant to enter the Iranian market, perceiving insufficient legal protection for their rights and capital. Another barrier is the heavy bureaucracy and time-consuming administrative processes that significantly raise the cost and duration of project approval and execution. For example, foreign investors in Iranian infrastructure projects must often secure permits from multiple government agencies, leading to substantial delays and unnecessary expenses (International Chamber of Commerce, 2021; Taheri & Khosravi, 2023).

A further distinction lies in project financing systems. Developed nations employ a wide range of innovative funding models, including Build–Operate–Transfer (BOT), Public–Private Partnership (PPP), and international project finance, enabling large-scale infrastructure development without placing excessive fiscal pressure on governments (Sharifi & Abdi, 2023). For example, China widely uses PPP to deliver major infrastructure while diversifying funding sources and minimizing domestic budget dependency (Zhao et al., 2021). Iran, by contrast, suffers from limited access to international banking, economic sanctions, and the absence of robust financial frameworks to support partnership financing. Consequently, many Iranian JV projects rely primarily on domestic resources, which are often insufficient for megaproject demands (Liu et al., 2020).

Dispute resolution also illustrates clear divergence. In most advanced economies, international arbitration under frameworks such as UNCITRAL or the International Chamber of Commerce (ICC) is the standard approach to contractual disputes (International Chamber of Commerce, 2021). This gives foreign investors confidence that conflicts will be resolved impartially and efficiently. In Iran, however, dispute resolution is predominantly channeled through the domestic judicial system, which is perceived as time-consuming and unpredictable. This discourages multinational partners from committing to long-term JV and IC arrangements (Mehrara & Musai, 2021).

From a managerial standpoint, advanced economies guide JV and IC implementation through standardized project management frameworks like PMBOK and PRINCE2 (Harris et al., 2021; Taheri & Khosravi, 2023). These models strengthen planning, execution, monitoring, and risk control. In Iran, by contrast, many JV projects lack such standardized systems, leading to coordination failures, delayed decisions, and cost escalation. For example, in oilfield development

consortia, poor integration between domestic and foreign partners has prolonged project delivery and reduced productivity (Taheri & Khosravi, 2023).

In summary, the key gaps between Iran and leading economies in executing JV and IC agreements cluster around three domains: legal frameworks, financing systems, and project management standards. While developed countries rely on transparent legal regimes, diversified funding models, and advanced managerial practices, Iran continues to struggle with regulatory ambiguity, limited financing options, and weak project governance. Bridging this gap requires comprehensive legal reform, adoption of global management standards, and creation of modern financial instruments to attract and protect foreign investors. Without such transformation, JV and IC projects in Iran will likely remain constrained by legal, financial, and operational inefficiencies.

## 5. Legal Challenges in the Implementation of Partnership Contracts in Iran

One of the fundamental challenges in implementing partnership contracts in Iran is the misalignment between domestic laws and international standards. In developed countries, clear legal frameworks such as the FIDIC conditions (International Federation of Consulting Engineers) and the UNCITRAL Model Law (United Nations Commission on International Trade Law) provide structured legal regimes for drafting Joint Venture (JV) and International Consortium (IC) agreements, reducing disputes, increasing investment security, and accelerating project execution (Fidic, 2017; United Nations Commission on International Trade Law, 2013; Walker & Rowlinson, 2019). In contrast, Iran's legal system governing foreign investment, ownership rights, dispute resolution, and contract enforcement remains ambiguous (Mehrara & Musai, 2021).

For example, in many JV agreements it is unclear whether, in the event of a dispute between partners, international arbitration can serve as a neutral adjudicating body or whether Iranian domestic courts have exclusive jurisdiction. This uncertainty has led foreign investors to question the security of their legal rights in Iran, resulting in reduced willingness to enter partnership projects (International Chamber of Commerce, 2021).

In addition to legal ambiguities, complex administrative and bureaucratic processes create practical obstacles. For instance, registering a JV or IC contract typically requires obtaining approvals from multiple agencies such as the Organization for Investment, Economic and Technical Assistance of Iran, the Ministry of Industry, Mine and Trade, and the Central Bank (International Chamber of Commerce, 2021). This multi-step process and the lack of coordination among executive bodies increase execution costs and prolong project mobilization timelines. In contrast, governments in advanced economies have streamlined contract registration and implementation by using digital systems and integrated supervisory institutions. Iran's overlapping and sometimes contradictory administrative procedures lead to extended delays and unnecessary financial burdens for JV and IC projects (Harris et al., 2021).

Another major issue is the absence of effective and reliable dispute resolution systems. In most developed countries, mechanisms such as international arbitration under ICC and UNCITRAL are widely used as standard tools for resolving contractual conflicts (International Chamber of Commerce, 2021; United Nations Commission on International Trade Law, 2013). In Iran, however, many partnership agreements rely solely on the domestic judiciary, where proceedings are often lengthy, complex, and costly (Mehrara & Musai, 2021). Additionally, some foreign investors are concerned that domestic courts might favor local parties, further undermining confidence. While in many countries parties can clearly designate an international arbitration forum within their contracts, Iranian regulations still impose barriers that complicate the recognition and enforcement of such clauses.

A further legal challenge involves currency transfer and capital repatriation restrictions. In advanced economies, foreign investors can repatriate profits and returns from partnership contracts without significant restrictions. In Iran, however, international sanctions, strict currency controls, and banking regulations hinder smooth capital transfers (Sharifi & Abdi, 2023). This is a major deterrent for foreign companies considering the Iranian market, as they fear difficulties in recovering initial investments or profits. Consequently, many JV and IC projects struggle to secure external financing and face severe delays or outright cancellation due to low foreign participation (Liu et al., 2020).

Another structural problem is limited access to international financing and difficulties in attracting foreign investment (Sharifi & Abdi, 2023). In developed countries, funding models such as Public–Private Partnerships (PPP), Build–Operate–Transfer (BOT), and foreign project finance are widely applied for infrastructure development (Badiru & Osisanya, 2016; Walker & Rowlinson, 2019). These approaches allow governments and companies to leverage global financial markets and reduce direct fiscal pressure. By contrast, Iran’s access to international capital markets is constrained by economic sanctions and banking restrictions. Moreover, exchange rate volatility and high inflation significantly increase project costs, raising the investment risk profile for foreign partners (Taheri & Khosravi, 2023).

To overcome these legal and financial barriers, Iran must undertake comprehensive reforms in its monetary and financial policies, create protective legal instruments for foreign investors, and increase transparency in financing regulations. Strengthening dispute resolution mechanisms through the formal adoption of UNCITRAL and ICC arbitration standards, aligning domestic contract law with FIDIC-based frameworks, and streamlining administrative processes would help reduce investment risk, attract foreign capital, and improve the overall success rate of JV and IC projects in Iran.

## **6. Proposals for Improving Partnership Contracts in Iran**

Improving the legal, financial, and managerial frameworks of partnership contracts in Iran is one of the most crucial steps toward enhancing the efficiency of these collaboration models in delivering large-scale projects. As a first step, reforming and clarifying regulations related to foreign investment can play a decisive role in attracting international investors. Developing legal frameworks aligned with recognized global standards such as UNCITRAL and FIDIC not only reduces legal ambiguity but also increases transparency and builds the confidence of foreign participants. A major issue in Iran is the lack of clarity about the rights and obligations of parties in JV and IC agreements, which often leads to disputes and legal conflicts between partners. Updating domestic laws by learning from successful international experiences and defining clear rules for legal matters, financial commitments, and dispute resolution can solve many of these challenges.

Establishing independent bodies for contractual dispute resolution is another key measure to improve the implementation of partnership contracts. In many developed countries, specialized commercial courts and international arbitration centers handle disputes between domestic and foreign partners efficiently. These bodies shorten and reduce the cost of dispute settlement by applying impartial rules and engaging legal experts. In Iran, however, most contractual disputes are handled by the general judiciary, which is both time-consuming and sometimes lacks the necessary specialization. Creating dedicated commercial courts and expanding access to international arbitration mechanisms can reduce disputes and increase the confidence of both domestic and foreign investors.

Another essential reform involves modernizing financing models to strengthen the financial capacity of partnership contracts in Iran. Globally, methods such as Public–Private Partnership (PPP), Build–Operate–Transfer (BOT), and international project finance are widely used to fund large-scale infrastructure. These approaches encourage private sector participation, reduce the direct fiscal burden on governments, and make major projects more feasible. In Iran, the absence of suitable legal frameworks for such financing models and the constraints imposed by international sanctions have caused frequent funding shortages for partnership projects. By improving financial policies, providing guarantees for foreign investors, and simplifying access to financing mechanisms, Iran could create a more reliable and attractive environment for partnerships.

Reducing bureaucratic barriers and optimizing administrative processes is equally necessary. A major recurring issue in Iran is the complexity of registering and implementing JV and IC contracts, which discourages investors and adds unnecessary time and cost. Many developed countries have digitized legal and administrative procedures and reduced the number of required permits, leading to greater efficiency and easier project implementation. In Iran, streamlining contract registration procedures, cutting redundant approvals, fostering coordination among executive bodies, and implementing fully electronic administrative systems would significantly accelerate the execution of partnership projects and reduce overhead costs.

## **7. Conclusion**

This study shows that partnership contracts — especially Joint Ventures and International Consortia — are among the most important instruments for delivering large-scale projects globally. Developed economies have successfully applied these

models by adopting transparent legal systems, innovative financing solutions, and standardized project management frameworks, thereby minimizing risk and ensuring efficient implementation. In contrast, Iran still struggles with multiple barriers, including legal ambiguities, complex bureaucratic procedures, financing difficulties, and weak dispute resolution mechanisms. The lack of harmonization between domestic regulations and international standards such as UNCITRAL and FIDIC has been a major deterrent to foreign investment and has reduced the economic attractiveness of these partnerships.

Therefore, improving Iran's legal, financial, and managerial frameworks is essential to enhance the efficiency of JV and IC agreements. One critical step is to reform laws governing foreign investment and create clear and standardized legal structures for partnership contracts. Drafting JV and IC agreements based on proven international models and incorporating global legal principles can reduce risks and improve investor security. Establishing independent dispute resolution bodies, including specialized commercial courts and internationally recognized arbitration mechanisms, would further accelerate project delivery and reduce litigation costs.

From a financial perspective, adopting modern funding models such as BOT, PPP, and foreign project finance could significantly increase the appeal of partnership contracts. Providing robust financial guarantees for investors, offering credit facilities, and easing foreign exchange and banking restrictions would also improve the investment climate and encourage both domestic and international participation. Additionally, digitalizing and simplifying administrative processes for contract registration would save time and reduce costs, making partnership models more practical and attractive.

Future research should focus on comparative analyses of partnership frameworks between Iran and successful economies such as China, Germany, the United States, and the Gulf countries. Studying dispute resolution practices in those regions could help design an effective, localized arbitration model for Iran. Further studies could also explore innovative financing strategies for JV and IC projects and analyze ways to reduce barriers to foreign investment. By implementing these recommendations and building on global best practices, Iran can develop a more secure, transparent, and efficient environment for partnership-based development, enabling the country to better leverage domestic and international resources for infrastructure and industrial growth.

## Ethical Considerations

All procedures performed in this study were under the ethical standards.

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## Conflict of Interest

The authors report no conflict of interest.

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