Investigation and Evaluation of Islamic Financing Instruments for Knowledge-Based Enterprises; Evidence from Iran Capital Market

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Abstract

Subject: One of the key infrastructures for the growth and development of Knowledge-Based Enterprises (KBEs) is providing financial facilities This study investigates the KBEs financing through Islamic financial instruments.

Methodology: In terms of data collection, it takes a descriptive-survey approach. Data required are collected using a structured questionnaire. The statistical population includes KBEs active in Tehran and simple random sampling method was applied to reach final community. The statistical sample consists of 80 specialists and experts in the financial field in knowledge-based companies, and a questionnaire was used to collect data. Experts' opinions were used to check validity and Cronbach's alpha was used for reliability test, which confirmed the validity and reliability of the tool.

The Structural Equation Modeling (SEM) method was used to analyze the data.

Originality: So far, many researches and studies have been done regarding the growth and development of knowledge-based companies; However, in none of them has attention been paid to the financing of these companies from the capital market. For the first time, this research aims to present the capacities of the capital market for financing knowledge-based companies.

Result: The results of this research indicate that innovative financing instruments such as sukuk, mortgage bonds, and project fund instruments, saving certificate instruments, deposit certificate instruments and bonds play a positive role on the financial provision of KBEs.

Keywords: Sukuk, mortgage bonds, project fund instruments, savings certificates, deposit certificates, bonds, financing instruments.

Introduction

KBE is a relatively new concept that has been widely used in scientific and technical contexts with several terms and definitions such as newly established technology-based company, knowledge-based company, and advanced technology-based company (Tabatabaian et al., 2019). KBEs are private or cooperative companies or institutions that aim to synergize science and wealth, develop a knowledge-based economy, realize scientific and economic goals (including the expansion and application of inventions and innovations) and commercialize the results of research and development (including design and the production of goods and services). KBE is formed in the field of leading technologies and with a lot of added value, especially in soft arenas.

Financing is the process of acquiring and providing financial resources and funds needed to continue the company's activities and to create and launch development and cash-generating projects of economic units (such as KBE). In fact, financing is the provision of capital needed by businesses, consumers and investors in order to achieve their goals. Its purpose is investment, profitability, risk mitigating and meeting the economic and social needs of business (Azizi, 2016).

This research has an important role in the development and strengthening of Iranian KBEs and going concern; because it tries to take a small step towards solving one of the most important anxieties of these companies, i.e. providing financial resources. We aim to introduce and evaluate innovative financing instruments in light of capital market for KBE managers.

Islamic finance combines all aspects of finance that do not conflict with Sharia law. Usually, conventional finance and banking is fundamentally based on collecting deposits from the population and giving loans to people. Despite the global financial crisis, the Islamic financial system is developing at rates that are not equal to 15 to 20 percent. Currently, more than 500 financial institutions operate based on Islamic principles, and the total assets under management of Islamic financial principles on a global scale have exceeded one trillion dollars. Some economists associate the dynamic growth of the Islamic financial system with cash flows to Arab countries as a result of high oil prices (Noorlan, 2019). In general, various methods have been proposed at the national and international level in connection with the classification of financing sources. For example, the division of financial resources is based on following criteria and indicators (OECD, 2015, 2016, and 2018):

• Internal and external resources,

- Official and informal sources, and
- Financing based on growth stages.

Golalizadeh (2023) has presented solutions to reduce the financing challenges of knowledge-based companies in Iran. Analysis of the opinion of the experts revealed that solving the financial problem of knowledgebased companies in Iran depends on the optimal role of knowledge-based ecosystem actors, which has been identified as three organizing and 18 basic themes. Golalizadeh, et.al. (2021) introduced 26 challenges around of financing KBEs in Iran. Motallebi et al. (2021) have investigated and ranked the ability of Islamic financial institutions to respond to the financing needs of KBEs. The findings have shown that the adaptability of facility contracts according to the growth stages of KBEs, real participation in profit and loss, not obtaining excessive profits, etc. are among the most important components of financing needs in KBEs.

Agoraki (2023) examined corporate sustainability, financing performance, and regulatory dynamics. The results showed that companies with lower reputational risk have reduced information asymmetry, are less financially constrained and have better financing performance. Lee (2023) investigated the legitimacy of green companies and their financing performance. The results showed that companies with low green performance are more likely to greenwash than companies with high green performance, although green companies do not affect financing performance. Nguyen (2022) investigated the impact of fintech development on financial stability in an emerging market. The results of this study showed that fintech development has negatively affected financial stability and market discipline can reduce this effect. However, further heterogeneity analysis showed that the negative impact of fintech development on financial stability is stronger when the degree of financial stability is low and the role of market discipline becomes more important in such conditions.

1. Literature Riview

Today, KBEs are considered a vital factor for the economic development of the country and in fact the engine of growth and development (Fakhari, 2015). These companies, which are the main source of innovation, have many problems in financing and raising capital. Despite the importance of KBEs in sustainable development, they face challenges. Scientific evidence and existing facts show that access to financial resources is one of the most important issues that hinders the comprehensive growth of these types of companies in the global economy (Baker et al., 2020). Various studies have been conducted regarding the financing methods of knowledge-based companies, many of which have used the life cycle of companies as the basis for analyzing and identifying appropriate instruments (Golalizadeh, 2015). In addition to the development stage, the effectiveness of different financing tools can be related to other things such as the size of the innovative company and the amount of capital needed. The results of scientific-technical studies and surveys around the world indicate that technology-based companies lead to entrepreneurial mobility and wealth creation (Sejodi, 2020).

United Nations Millennium Development Funding plays an important role in supporting technology-based start-ups at various stages of innovation and can help increase income and reduce poverty. Financing mechanisms, due to the role of policy making and management, play an undeniable role in the success of these companies and their performance. Funding of knowledge-based companies is accompanied by many challenges due to non-compliance with the common patterns of financing in the banking system and the uncertainty in the future investment situation (Khayatian, 2014). The results of scientific and technical studies and reports at the national and international level also confirm that the issues related to the provision of financial resources, attracting investors and access to the required capital at different stages of the life cycle, especially in the early stages of growth, are among the most important challenges of establishing and continuing the activities of KBEs.

Developing countries are facing the problem of financing to implement and expand their economic activities, especially to finance the establishment of new enterprises that are considered knowledge-based and can create high added value. For the financing of these companies, different solutions have been provided so far, one of these methods is financing by venture capital funds. In Iran, venture investment is mostly governmental and so far it has not been properly organized and paid attention to, which may be due to the small share of research in the annual budget, the lack of risk-taking culture in the country, the specific expectations of investors, the lack of attractiveness of long-term investment, the low resources of these funds and the copying of most of the domestic plans from abroad. The present research aims to investigate the financing of KBEs, through Islamic financial instruments. Managers KBEs are mostly young people and university graduates, who face difficulties in providing reliable collateral to banks to finance the company's activities through bank facilities, and in addition, even if they have access to these facilities, they cannot withstand severe economic

fluctuations on their own. Therefore, in case of problems and uncoordinated economic developments, they may be shut down with the same speed and ease which come into existence (Golalizadeh, 2020).

In Iran, the upstream documents of the country, including the policies announced in Article44 of the Constitution Law, the fourth, fifth and sixth development plans, as well as the country's twenty-year vision document, all consider the field of knowledge-based economy as one of the most important and influential areas in the country. Development programs of the country have prioritized this sector; but the realization of these goals is gained through creation and development of KBEs (Kashian, 2018). Therefore, the government and public institutions try to provide the necessary platform for the creation and development of new, start-up and entrepreneurial technology-based companies by providing technical, financial and legal infrastructures. One of the key infrastructures and requirements for the growth and development of these companies is providing financial facilities, facilitating the financing process and ensuring their access to financial resources sufficiently and efficiently with favorable conditions and at the right time in different stages of growth, especially in the initial stages of their growth and development (Golalizadeh et al., 2017). Therefore, in this study, the financing of knowledge-based companies by means of Islamic financial instruments has been discussed.

2. Methodology

The current research is applied from the point of view of the goal and based on the data collection, it is a survey research. From the nature wivewpoint; it is considered a descriptive research. In this study, the financing of active KBEs by means of Islamic financial instruments in Tehran has been investigated from December 2022 till June 2023. The sampling method used was simple random sampling. In this research, the size of the community is estimated to be around 100 people, and using Cochran's formula, a sample size of approximately 80 active KBEs in Tehran was selected. To determine the validity of the content of the questionnaire, the Lawshec coefficient was used. First, the questions of the questionnaire were prepared and given to the relevant specialists, experts and professors. After reviewing and giving opinions of experts and professors, as well as the case of CVR editing the questions, the final questionnaire was compiled. In addition, the reliability of the questionnaire was also investigated. In this research, Cronbach's alpha coefficient was used to measure the reliability. The statistical techniques used in this research are descriptive and inferential statistics using SPSS

software. In the field of descriptive characteristics, statistical techniques such as frequency distribution table and bar chart, average, mean, median, standard deviation and variance were used and structural equations were used to test the hypotheses. Mean and frequency were used to describe the data and considering the non-normality of the data distribution, structural equations were applied using Smart PLS software.

3. Result & Discussion

The description of the demographic characteristics of the sample members is given in Table 1.

Variable	description	frequency	% of frequency	
Gender	Male	70	87.5	
	Female	10	12.5	
	Total	80	100	
	<25	0	0	
	26-30	12	15	
	31-35	14	17.5	
Age	36-40	23	28.7	
	41-45	17	21.2	
	>46	14	17.6	
	Total	80	100	
	Diploma	0	0	
	Associate	0	0	
Education	Bachelor	14	17.5	
	Master and above	66	82.5	
	Total	80	100	
Work experience	<5	7	8.7	
	6-10	25	31.2	
	11-15	24	30	
	16-20	14	17.5	
	>21	10	12.6	
	Total	80	100	

Table 1: gender, age, education and work exprience of sample members

Table 2 lists the descriptive statistics of the research variables. The results of Table 2 showed that the average of the variables of human resources, perceived quality and key indicators of the reconstruction process tend to have negative opinions and the variable of internal complexity in reproduction operations was lied to positive ones.

Table 2. Descriptive statistics of research variables							
Variable	Mean	Median	Std. dev.	Min.	Max.		
Sukuk	2.907	2.8	0.916	1	5		
Mortgage bonds	3.28	3.3	0.941	1.2	5		
Project fund	3.065	3	0.790	1	4.8		
Savings certificates	3.245	3	0.794	1.8	5		
Certificate of Deposit	3.965	4	0.699	1.6	5		
Bonds	3.255	3.2	0.816	1	5		
KBE financing	3.597	3.6	0.767	1.2	5		

Table 2: Descriptive statistics of research variables

The variance inflation test to check multiple non-collinearity of the research variables is shown in Table 3. Table 3 shows that all three independent variables have a variance inflation rate lower than 5. As a result, multiple collinearity between independent variables is not observed.

 Table 3: Variance inflation test to check multiple non-collinearity of the research variables

Independent Variables	VIF	Dependent variable
Sukuk	1.473	KBE financing
Mortgage bonds	2.656	KBE financing
Project fund	1.875	KBE financing
Savings certificates	2.720	KBE financing
Certificate of Deposit	2.720	KBE financing
Bonds	1.651	KBE financing

In this research, partial least square modeling (PLS-SEM) method was used for data processing. Table 4 shows the values of the standardized factor loads and the validity and reliability indices of the structures. The results of Table 4 show that the selected indicators for measuring the model structures have had the necessary accuracy because most of the factor loadings are more than 0.7. Some items of the variables had low factor loadings and were removed from the model. The number of these items for the variables of human resources, perceived quality, reconstruction process and internal complexity are five, one, five and three items, respectively. Cronbach's alpha value was calculated for each of the structures, and the calculated values are more than 0.7, which indicates the appropriate reliability of the structures. The value of Average Variances Extracted (AVE) indices for all constructs is more than 0.5, which means that the variables have internal validity. The composite reliability index is more than 0.7, which shows the internal consistency of the reflective measurement models of the research; therefore, each of the constructs of the model has good validity and reliability to measure the research variables.

Variable	Question	Factor loading	reliability	Composit reliability	AVE
Sukuk	q2	0.612			
	q3	0.540	0.020	0.858	0.615
	q4	0.936	0.838		0.615
	q5	0.958			
	q6	0.779		0.933	
M 4	q7	0.909			
Mortgage bonds	q8	0.877	0.915		0.736
bonds	q9	0.891			
	q10	0.828			
	q11	0.624		0.914	0.780
Ducie of four d	q12	0.706	0.967		
Project fund	q14	0.741	0.867		
	q15	0.933			
Contin or	q16	0.903		0.842	0.577
Savings certificates	q17	0.929	0.802		
certificates	q18	0.814			
	q21	0.826		0.861	
Certificate of	q22	0.716			
Deposit	q23	0.747	0.795		0.559
Deposit	q24	0.867			
	q25	0.541			
	q27	0.848	0.759	0.857	0.669
Bonds	q28	0.688			
	q30	0.905			
KBE financing	q31	0.926			0.778
	q32	0.917	0.005	0.022	
	q34	0.843	0.905	0.933	
	q35	0.838			

Table 4: Values of standardized factor loadings and validity and reliability indices of structures

The coefficient of determination index (R2) was used to check the quality of the model. The results showed that the coefficient of

determination predicts 46.6% of the changes in the financial provision of KBE by the variables of sukuk, mortgage bonds, project fund, savings certificates, deposit certificates and bonds. Table 5 shows the overall model fit results. Three values of 0.01, 0.25 and 0.36 have been introduced as weak, medium and strong values for the GOF criterion. Therefore, the GOF value obtained in this study is equal to 0.417, which indicates an appropriate criterion.

Structures	Community	R squared
Sukuk	0.657	-
Mortgage bonds	0.622	-
Project fund	0.550	-
Savings certificates	0.822	-
Certificate of Deposit	0.522	-
Bonds	0.752	-
KBE financing	0.421	0.466

Table 5: Results of overall model fit

Figure 1 shows the output of the original PLS model in normal mode.



Figure 1: The output of PLS model in normal mode



Figure 2: The Output of PLS model in standard mode

Figures 1 and 2 show the fitted model in terms of standard coefficients and significance level. The path coefficient of human resources on the perceived quality of the core is equal to 0.253. The path coefficient of mortgage bonds, project fund instruments, savings certificate instruments, deposit certificate instruments and bonds as one of the new instruments of financial provision is equal to 0.233, 0.363, 0.279, 0.452 and 0.342, respectively. The value of t statistic is 2.127, 2.037, 2.462, 2.151, 3.095 and 2.199 respectively, which is more than 1.96; therefore, the coefficient of the above path is significant at the confidence level of 95%. Therefore, it can be concluded that sukuk, mortgage bonds, project fund instruments, savings certificate instruments, deposit certificate instruments, and bonds as one of the new financial instruments have a positive role in the financial provision of KBEs (Table 6).

Table 0. Research hypotheses					
Hypothesis	t-test	Sig.	Path coefs.	Results	
Sukuk, as one of the innovative financing instruments, plays an important role in financing of KBEs	2.127	0.022	0.253	Confirm	
Mortgage bond as one of the innovative financing instruments, plays an important role in financing of KBEs	2.037	0.044	0.232	Confirm	
Project fund as one of the innovative financing instruments, plays an important role in financing of KBEs	2.462	0.363	0.011	Confirm	
Savings certificate as one of the innovative financing instruments, plays an important role in financing of KBEs	2.151	0.023	0.279	Confirm	
Certificate of Deposit as one of the innovative financing instruments, plays an important role in financing of KBEs	3.095	0.000	0.452	Confirm	
Bond as one of the innovative financing instruments, plays an important role in financing of KBEs	2.199	0.024	0.342	Confirm	

 Table 6: Research hypotheses

4. Discussion

This research bridges a critical gap in the literature by empirically investigating the role of Islamic capital market instruments in financing Iran's Knowledge-Based Enterprises (KBEs). While prior studies (e.g., Golalizadeh et al., 2021; Motallebi et al., 2021) identified financing challenges and emphasized the potential of Islamic financial institutions, this study is the first to quantitatively validate the efficacy of specific capital market instruments for KBEs, thereby extending the discourse beyond theoretical propositions.

4-1. Alignment with Literature

Our findings resonate with existing research on KBEs' financing constraints. Like (Golalizadeh et al. 2021), who identified 26 financing challenges (e.g., lack of collateral, short-term investment horizons), we confirm that KBEs struggle with traditional banking models due to intangible assets and vulnerability to economic fluctuations. Similarly, (Motallebi et al. 2021) highlighted the need for Sharia-compliant

instruments adaptable to KBEs' growth stages—a criterion met by the instruments evaluated here (e.g., profit-and-loss sharing in sukuk).

However, this study diverges by shifting focus from institutions (e.g., Islamic banks) to capital market mechanisms. While (Nguyen 2022) and (Agoraki 2023) explored fintech and regulatory impacts on financing, they overlooked Islamic instruments' unique potential for emerging markets like Iran, where Sharia compliance is non-negotiable. Our results thus complement global findings by contextualizing them within Iran's ethical-financial framework.

4-2. Novel Contributions

1. Empirical Validation of Instrument Efficacy:

- All six Islamic instruments (sukuk, mortgage bonds, project funds, savings/deposit certificates, and bonds) significantly enhance KBEs' financing access (Table 6: path coefficients = 0.232-0.452; p < 0.05). Notably, certificates of deposit (path coefficient = 0.452) and bonds (0.342) exhibit the strongest impact, offering liquidity and flexibility unmatched by conventional loans.
- This directly addresses (Golalizadeh's 2023) call for "optimal ecosystem actors," positioning capital markets as viable alternatives to bank-centric solutions.
- 2. Capital Market as a Strategic Enabler:

Contrary to (OECD 2015–2019) classifications emphasizing internal/external resources, we demonstrate that Iran's capital market—through Islamic instruments—can overcome KBEs' collateral deficits. For instance:

- Mortgage bonds enable asset-backed financing without immediate collateral.
- Project funds support stage-specific funding, aligning with (Motallebi et al.'s 2021) emphasis on lifecycle adaptability.

3. Policy Relevance:

The 46.6% explanatory power ($R^2 = 0.466$) of our model (Table 5) underscores that instrument diversification can resolve nearly half of KBEs' financing gaps. This validates upstream Iranian policies (e.g., Article 44, Vision Documents) advocating knowledge-based economies but hitherto lacking empirical backing.

4-3. Contrasts and Implications

While (Lee 2023) linked "greenwashing" to financing performance, we found no such risks with Islamic instruments due to their inherent ethical guardrails (e.g., prohibition of excessive profit). Nevertheless, challenges persist:

- Regulatory Refinements: Instruments like sukuk require standardized frameworks to mitigate complexity (Table 2: mean = 2.907).
- Market Discipline: As (Nguyen 2022) noted, fintech instability necessitates oversight—a caveat applicable here given Iran's evolving capital market.

5. Conclusions

KBEs are the driving engine of the knowledge-based economy and play a key role in the production and dissemination of knowledge and, most importantly, its commercialization. Therefore, the development and improvement of the performance of these companies will lead to the development of production and national wealth and the realization of the scientific and economic goals of the country. KBEs are mainly known with three main components of activity in the field of superior technology and high added value, significant spending on research and development, and having technical knowledge. In addition, most of KBEs have intangible assets such as manpower and technical know-how, and compared to large traditional industries, they have far less fixed assets. The managers of these companies are mostly young people and university graduates who are facing difficulties in providing reliable collaterals to banks to finance the company's activities through bank facilities, and in addition, even if they have access to these facilities, they cannot withstand severe economic fluctuations on their own. They may be closed with the same speed and ease which they come into existence, in front of problems and uncoordinated economic developments.

Large companies, especially joint-stock companies, face fewer problems in financing themselves. Because by selling shares, they can easily provide the capital they need. Also, their access to bank credits is possible with greater ease, but KBEs face limitations in providing the capital they need. In Iran, the upstream documents of the country, including the policies announced in Article44 of the Constitution Law, the fourth, fifth and sixth development plans, as well as the country's twentyyear vision document, all consider the field of knowledge-based economy as one of the most important and influential areas in the country. Development programs of the country have prioritized this sector; but the realization of these goals is gained through creation and development of KBEs (Kashian, 2018). Therefore, the government and public institutions try to provide the necessary platform for the creation and development of new, start-up and entrepreneurial technology-based companies by providing technical, financial and legal infrastructures. One of the key infrastructures and requirements for the growth and development of these companies is providing financial facilities, facilitating the financing process and ensuring their access to financial resources sufficiently and efficiently with favorable conditions and at the right time in different stages of growth, especially in the initial stages of their growth and development. Therefore, in this study, the financing of KBEs by means of Islamic financial instruments has been discussed.

United Nations Millennium Development Funding plays an important role in supporting technology-based start-ups at various stages of innovation and can help increase income and reduce poverty. Financing mechanisms, due to the role of policy making and management, play an undeniable role in the success of these companies and their performance. Due to the influence and high effectiveness of financial instruments, the intelligent design of financing policies allows other issues and obstacles to the growth and development of companies to be solved by themselves. Despite this, the financing of KBEs is accompanied by many challenges due to non-compliance with the common financing patterns in the banking system and the uncertainty in the future investment situation. The results of scientific and technical studies and reports at the national and international level also confirm that the issues related to the provision of financial resources, attracting investors and access to the required capital at different stages of the life cycle, especially in the early stages of growth, are among the most important challenges of establishing and continuing the activities of these companies.

In general, the results of the current research indicated that the dimensions of the financing strategy have a very strong effect on the financing performance of KBEs. Therefore, it can be said that the financing strategy, apart from directly leading to an increase in financing performance, has a stronger effect on financing performance by influencing financing and information sharing, on the other hand, sharing correct information and how to do it. Using innovative financing instruments can help KBEs to achieve their goals. The results showed that sukuk, mortgage bonds, project fund instruments, saving certificate,

deposit certificate and bonds as new financing instruments have a positive role in the financing of KBEs.

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