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The Impact of Financial Inclusion on Liquidity Quality in Iraq Case Study for Khaleej Commercial Bank For the period (2016-2021)

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Abstract: The research aims to identify the impact of financial inclusion on the liquidity quality of the Khaleeji Commercial Bank and to know the type of relationship between the research variables, whether they are inverse or direct, and on the basis of that, the liquidity indicators of the bank were analyzed to for a duration from(2016-2021), and then access the indicators of financial inclusion, analyze them, and know its reality in Iraq ,Andmeasurement The effect of financial in clusionIn liquidity quality using the tablet data model, by estimating the general model and the fixed effects model, and then comparing between them .Ma.

Andreach bprodding To a set of conclusions, the most prominent of which was the presence that the indicator of the bank's deposits ratio to the total private sector deposits has a positive impact on the quality of liquidity, and the banking prevalence index, which is one of the indicators of financial inclusion in Khaleej Commercial Bank, is still weak due to the weak spread of its branches and the weak public dealings with it. Which reflected negatively on the banking prevalence and liquidity quality index.

Keywords: Impact of Financial Inclusion, Commercial Bank.

B recommendedproddingWith a set of recommendations, the most prominent of which was the maximum use of indicators of financial inclusion in following up the monitoring process, progress, expansion and depth in the provision of financial services, as well as diagnosing defects and weaknesses in the functioning of the banking sector (governmental and private), which is at the same time a database for the work of the banking sector to take appropriate measures to avoid widening The confidence gap in the banking sector.

The first topic: research methodology

Research problem

Constribte Promote financial inclusion Liquidity for the banking system in Iraq ,which is reflected In one way or another, the reality of the banking sector and the services provided for individuals Hence, the research problem arises, which is as follows:

To what extent does financial inclusion contribute to enhancing the quality of banking liquidity?

Research hypothesis

The research starts from a hypothes is There is an effect of financial inclusion in Quality Bank liquidity through its indicators.

Research Importance

The importance of research comes from the statusexcellence that he has Financial inclusion in the financial and banking arena in the world, in order to increase its importance in Achieving development and progressand boom The economist, as it leadsprominent rolein all strata of societyEspecially those with limited income, and owners of small and medium enterprises.

Research Aims

The research aims to find outBezelimpactFinancial inclusion in banking liquidityIn the Gulf Commercial Bank, by studying the reality of financial inclusion in Iraq and identifying the most important obstacles that limit the increase in its rates.

The second topic: the conceptual framework of financial inclusion and banking liquidity

First: financial inclusion

1. The concept of financial inclusion

Financial inclusion is defined as providing access to all financial services that meet the needs of every member of society easily, easily, and at reasonable prices through official channels that are responsible and sustainable (Al-Tayeb, 5: 2020). It is defined as the availability and use of financial services for all segments of society, especially those with limited incomes. And the poor (the marginalized and disadvantaged segments) through official channels and innovation and development of more appropriate financial services at appropriate costs to avoid resorting to these groups to expensive informal means and channels that do not have the slightest level of oversight and supervision. (Anani and Fariz, 2016: 2) The World Bank defines financial inclusion It is the ratio of people or institutions that use financial services to the total number of individuals and institutions in society (2014: 14,World Bank),The World Bank also defines financial inclusion as the possibility of accessing useful financial products and services at affordable prices that meet their needs in terms of transactions (payments, deposits, credit, insurance) by presenting them to them in a responsible and sustainable manner.

2. The importance of financial inclusion

Financial inclusion has been gaining increasing importance in recent years in various countries developing Especially countriespoor ones (Khalil, 2015: 44) So The importance of financial inclusion can be statedwith the following:

- **A.** Achieving the goals of economic development: As it contributes Financial inclusion In reducing economic and social inequalities and providing microfinance services and microcredit It helped many individuals to find job opportunities outside the government framework, and financial inclusion reduces the Cost Provided financial services via Using plastic cards and electronic transfers (Al-Duraie, 2018: 13).
- **B.** Enhance the stability of the financial system: Increasing the population's use of financial services contributes to achieving the stability of the financial system.viaReducing the risks of cyclical fluctuationsFThe large increase in the number of young savers by increasing the level of financial inclusion wouldincrease occurs inThe size, stability and diversity of the deposit base, This reduces banks' reliance on non-credit financingwhich is more volatile(Ozili, 2018: 7).

- C. Financial system automation: that expand AndSpread of financial services and increase their use ratesneed tomore ofAutomate itThese services, includingIt helps to attractMore technology users in the field of electronics and communications, especially in terms of payments bring benefitsGreat as it can be doneMore quickly and at a lower cost, And help toCreate an opportunity for more people to enterfor the systemfinancial (World Bank, 2011: 2).
- **D.** The ability of individuals to integrate and contribute to building their societies: Improving the ability of individuals to use financial services in the financial systemenhances the Their ability to start their own business, as well as improve their ability to manage their financial risks, that are associated with financial changes (Institute for Banking Studies, 2016: 2).
- **E. Promotes competition among financial institutions**: whereFinancial institutions and banks operate,To diversify its products and services and pay attention to their quality,With the aim of attracting the largest number of customers and transactions and legalizing some unofficial channels (Bin Qida and Bouafia, 2018: 94).
- **F.** Reducing money laundering and terrorist financing: The greater the use of formal financial services, the moreThe ability toAnti-money laundering (a direct relationship) and this indicates the unification of the goalanyAttracting financially excluded individuals in dealing with official financial and banking institutions (FATF/OECD, 2013: 15).

3. goals of financial inclusion :for financial inclusionGoalscan be identifiedIn the following:

- **A.** Enhancing the use and access of all segments of society to financial services by uniting all the efforts of the parties involved in promoting financial inclusion, To introduce citizens to the importance of financial services and how to obtain, use and benefit from them to improve their conditions (Hamdan and Abu Diya, 2018: 180) (Al-Obaidi, 2018: 49)
- **B.** It is a tool to reduce corruption and close gaps and leaks in the settlement of government payments such as salaries through direct transfer to the bank accounts of beneficiaries (Hassan, 2018: 28) and with whatFinancial quality and integrity and protection of the rights of users of financial services by preparing a set of policies, procedures and instructionsAndIntroducing customers to their rights, duties, and obligations (Al-Sabouni, 2015: 20).)
- **C.** Reducing and addressing the rate of unemployment, poverty, achieving equal opportunities, and reducing the disparity in income and wealth (Abu Jamea and Abu Dayyah, 2016: 13) to Achieving sustainable development by supporting and financing development projects such as small, medium and micro enterprises (Iskandar, 2020: 104)
- **D.** Reducing the gap in financial awareness and education among the different segments of society in the best ways through the cooperation of all participating parties with an optimal strategy to enhance financial inclusion (Al-Shammari, 29: 2017).

4. Dimensions of financial inclusion and its measurement indicators

Dimensions and indicators of financial inclusion can be used to help set goalsand strategiesnational Occasion for financial inclusion and monitoring progress towards achieving itSo we will get to know herandIn detail:

A. Access to financial services access to financial services

This dimension helps us measure the size of the banking population, Those who deal with the banking sectorIt means the ability to use the provided financial services and products Abundance from institutions official, It reflects the depth of communication of financial services and products with individuals within a comprehensive financial system And Should be This is a mazing Financial services are readily available to

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users and the availability of services can be indicated by the number of access points offering financial services such as suckingashelf ,AndOutlets branches, grating machinesaautomated p, Andbank agents (2018:9,Gameto),The recent banking developmentseThrough the mobile phone and the use of financial services via the InternetI openednew channelsTo submit afinancial services, viatechnology thatadoptedexceed accessfor services (2014:10camara,)

B. Use of financial services usage of financial services

is useactualFor financial products and services for example, favor campaignspromotionalWhich aims to increase the number of accountsespeciallyif it wasT thatAccounts are rarely used or never used, and determining the extent to which financial services are used requires data collectionand statisticsabout the regularityand continuing Use of financial servicesover a certain period of time, Divide this indicator intogroups:(67:2011, Kunt & Klapper)

> The first group of indications for use

focused the group The first On the ownership and use of accounts in official financial institutions and if the possession Official account For individuals It is considered a point the Entry into the Russian financial sector Mj, It facilitates this the account atwage transfer process, and transfers, and government payments, and encourage official saving, and open access to credit.

➣ The second group of indications for use:

Group focusedthe secondon the behavior of individuals towardstheir savingsWhich allows them to facilitate the process of consumption and investment help them outLearning by doing business, mitigating uncertainty and reducing riskto which they may be exposedSavings accounts are the most objectiveAnd safer for people.

➤ The third group of indications for use:

focused the group ThirdOn the credit side, And the extent to which adults or small and medium companies need toloans short term, which it provides financial institutions official rather than resorting to unofficial sources, It is obtained easily and without complication, BReliance on a credit card,

C. quality of financial services the quality of the products and the service delivery):

shefinancial services capacityAndproducts to meetneeds and desires customers with high quality,The process of developing indicators to measure dimensionsQuality of servicesIt is a challenge in and of itself, due to the fact that it is after qualityMAnd for financial is not Clear and direct, as it is hereKMany factors affect the quality and quality of financial services such as(service cost,consciousnessthe customereffectiveness of the compensation mechanism, AndConsumer protection services,and financial guarantees,transparent competition in the market,AndAlso, intangible factors such as consumer confidence)(4: 2013,Alliance, for financial inclusion).

Second: banking liquidity

1. Conceptdegree of liquidity:Liquidity position

PrepareLiquidity in the bank is one of the most important indicators that customers rely on when comparing between banksdrains, where it represents Liquidity is the most important means of protecting the bank from risksnonHis ability to face commitments that characterize Pay immediately, and the advantage of thedrainsThis property without other institutions because they can not postpone the disbursementsK drawee, or defer the payment of a deposit due, and it cannot ask debtors to pay what they owe. Loans and financing did notTIn addition, it is difficult to predict the volume and timing of funds movement from And to the bank, which is a great difficulty in front oftheadministration Liquidity can be defined in general termsBthat it(The ability to convert assets into cash quickly and without realization

Loss)The liquidity in the bank can be definedBthat it(The bank's ability to meet depositors' withdrawals And meet the needs of financiers in a timely manner and without having to sell securities at great losses or borrow with high interest). Liquidity in any bank is determined by the following factors:

- A. The size and sources of liquid fundsor semi-liquidAvailable to meet the bank's daily obligations.
- B. Mada mwaMatching the maturity dates of assets and liabilities.
- C. The volatility of deposits and demand for loans.
- D. quantitativeHMoney billsretainedAnd it affectedinportfolio return.
- E. The extent of reliance on interbank lending to meet liquidity needs.
- F. thebittersuithat he is going througheconomics fFor exampleIf it is deflation, it is preferable to maintain a high degree of liquidity For fear of not being able to pay customers for obligations they. (Bu Raqba, 2009: 9)

2. Indicators of the degree of liquidity in the Iraqi banking sector

ond assessment of bank liquidity we must take beconsiderationConsider the current level of liquidity and the future need forHaDue to financing needs, As well as the level of liquidity management at the bank compared to the size and degree of complexityits operations and volumeand typeRisksto which it is exposed. (Shaheen2005:21-31) Andcan measurelevelliquidity according to several The most important proportions (Aof liquid assets to short-term liabilities, liquid assets to total deposits, liquid assets to total assets, Cash credit to deposit (Central Bank of Iraq, Financial Stability Report, 2016: 61) The following is a review of these indicators in the Iraqi banking system during the study period:

A. Liquid assets / short-term liabilities :reached rateliquid assets to short-term liabilities (current and current deposits) to the banking systemIraqiin general in 2016 (324.7%) and in 2017 (214.1%) and in 2018 (102.2%) and in2019 (96.06%)And in 2020(82.70%)And in 2021 (92.15%), despite the decline in this percentageHowever, this does not represent a threat to financial stabilityfor the banking system (Central Bank of Iraq, Financial Stability Reports, 2016-2021: 68).

B. Liquid Assets / Total Deposits:One of the important indicators used to measure banking liquidity is the liquid assets ratioto the totalDeposits (Abdul Rahim, 2008:256) beingHa contains assets that generate profit (investments), meaning thataachieve a goaljLiquidity and profitability of the bank at the same time. This percentage indicates the extent of the bank's ability to face depositors' withdrawals.(Berto, 2009:58)whatExpress an amountshouldThe bank maintains it from liquid assets that include (cash at the Central Bank As well as cash on hand and other liquid balancesZ) and the extent of its investment in granting thecreditof various kinds,The banking system has registeredIraqiIn general, the ratios reachedin 2016 (90.6%)(In 2017 (85.42%), in 2018 (73.73%) and in 2019(%70.10)And in 2020(%61.73)in 2021 (67.41%)that isHfromexcludedTo be exposed to liquidity risks in the short term, however, maintaining this high percentage negatively affects the return and profitability of banks, as the liquidity goal conflicts with the profitability goal.AndIt's not hiringsurplusLiquid money in investments can be generatedReturning (Central Bank of Iraq, Financial Stability Reports, 2016-2021: 32-69).

C. For liquid assets/total assets: This ratio shows the extent to which the bank maintains fully liquid assets to meet depositors' withdrawals relative to the total assets of the banking system in general. She was The ratio in 2016 (64.5%) In 2017 (51.5%), in 2018 (46.1%) and in 2019(43.25%) And in 2020 (37.86%) And in 2021 (40.61%) Although it is low, it is a high percentage, and this reflects the hedging trendjto the banking system.

D. Cash Credit/Depositp

The ratio of cash credit to deposits with the banking system was recordedIn general, 2016to reach(59.5%) and in 2017 (56.6%)in a year2018 (50%) and in2019 (51.20%)And in general2020 (58.72%)and in 2021 (55.1%)and thatThis ratio fallsWithin the standard percentage specified by the Central Bank of Iraq, which should not exceed (7%)0), and Figure (1) shows the liquidity of the Iraqi banking system during the study period.

350 300 250 200 150 100 50 2016 2017 2018 2019 2020 2021

Figure (1) Liquidity ratios of the Iraqi banking system from 2016 to 2021

Source // Prepared by the researcher based on (Central Bank of Iraq, Financial Stability Reports, 2016-2021: 33-70)

The third topic: analysis of the effect between financial inclusion and liquidity quality

First: an overview of Al Khaleej Commercial Bank

Khaleeji Commercial Bank was established as a private joint stock company, according to the numbered certificate of incorporation(M / Sh / 7002)in(10/20/1999)And issued by the Companies Registration Department, in accordance with Companies Law No. (21) of 1997, as amended, with a capital of (600) million dinars. It was paid in full and the bank commenced its business in the main branch on(4/1/2000)After obtaining a license to practice banking issued by the Central Bank of Iraq, and numbered(P. 115/3/9/1)in(2000/2/7)In accordance with the provisions of the Central Bank Law No. (64) for the year 1976 prevailing at that time, for the bank to practice comprehensive banking business, and the articles of incorporation were amended by increasing its capital until it reached (300) billion Iraqi dinars on(2014/11/7)(Gulf Bank Annual Report 2021: 21)

1- Access level index for financial services

A. Prevalence and Density Banking Index

Table (1) Banking Prevalence and Density Index for Khaleeji Commercial Bank

Banking Spread	Banking Density	Number of	Population (Thousands of	The Year
		Branches	People)	
0.07	1,446,765	25	36,169,123	2016
0.05	1,856,976	20	37,139,519	2017
0.05	1,815,437	21	38,124,182	2018
0.05	2,059,363	19	39,127,900	2019
0.04	2,230,565	18	40,150,174	2020
0.04	2,288,369	18	41,190,658	2021

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Second: - Reviewing the financial inclusion data of Khaleej Commercial Bank Prepared by the researcher based on the annual reports of the Khaleeji Commercial Bank (2016-2021) and the data of the Ministry of Planning and the Central Statistical Organization.

Through table (1) above, it was shown that the number of bank branches in 2021 was (18) branches, which means that (2,288,369) A person of the population gets a branch, and the banking prevalence rate is 0.04 in 2021, while in 2016 it was 0.07, and this is due to the decrease in the number of bank branches spread in Iraq, which requires the bank to study the reason for the decrease in the number of its branches.

B. Prevalence of electronic payment services index (ATM,POS,POC) per 100,000 inhabitants and per 1,000 km

Table (2)	Index of	prevalence of	electronic i	payment services	for Khaleei	Commercial Bank
1 4010 (2	, much or	prevalence or	CICCHOINC I	Ja villolli sol vicos	TOT INTRICCT	Commercial Bank

The number of electronic	The number of electronic payment	number of	the year
payment devices for every 1000	devices per 100,000 people	devices	
km			
0.004	0.005	2	2016
0.02	0.02	9	2017
0.03	0.03	13	2018
0.03	0.03	14	2019
0.09	0.1	39	2020
0.1	0.1	56	2021

Prepared by the researcher based on the annual reports of Khaleeji Commercial Bank (2016-2021)

Table (2) above shows that the number of electronic payment devices is on the rise, reaching 2 devices in 2016 to reach 56 devices, various among(ATM, POS, POC)Dividing the number of devices by 100,000 people, we get 0.1. The same applies to the number of devices per 1,000 km. This is a positive year, but it is still not at the level required to enhance inclusion.

2- Banking services usage index

A. IndicatorUse theMobile services

B. banking depth index

- The ratio of bank deposits to the total private sector deposits
- > The ratio of the credit granted to the bank to the total credit of the private sector

Table (3) Indicator of using banking services for Al Khaleej Commercial Bank

The ratio of the credit granted	The ratio of bank deposits	Number of	The	the
by the bank to the total credit of	to the total private sector	services per	number of	year
the private sector	deposits	100,000 adults	mobile	
			services	
0.004	0.02	-	-	2016
0.003	0.01	-	-	2017
0.002	0.008	0.02	4	2018
0.002	0.006	0.05	13	2019
0.001	0.005	0.08	20	2020
0.001	0.004	0.1	29	2021

Prepared by the researcher based on the annual reports of Khaleeji Commercial Bank (2016-2021)

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from the table(3)The above shows that there were no services provided via mobile phone in 2016 and 2017, and that the number of services providedUntil 2021 (29) services, which is a numberVery little compared to the level of technological developmentAnd that the ratio of bank deposits to total private sector deposits was 0.02 in 2016, to decrease to 0.004 in 2021. Likewise, the ratio of credit granted to total credit granted by the private sector in 2016 amounted to 0.04, while in 2021 it decreased to 0.001, which indicates a decrease in the level of deposits and credit granted by the bank.

1- Review of the liquidity quality of the Khaleeji Commercial Bank

Table (4) Liquidity quality indicators for Khaleej Commercial Bank

Cash credit/deposits	Liquid assets/total	Liquid Assets / Total Deposits	Liquid assets / short-term liabilities	the year
0.7	assets	0.7	0.7	2016
0.7	0.4	0.7	0.7	2016
0.8	0.4	0.9	0.8	2017
0.7	0.3	0.9	0.8	2018
0.7	0.5	1.3	1.2	2019
0.7	0.4	1.3	1.3	2020
0.5	0.5	1.3	1.3	2021

Prepared by the researcher based on the annual reports of Khaleeji Commercial Bank (2016-2021)

It is clearschedule(4)Above is liquidity quality through indicatorse four shows usThe ratio of liquid assets to short-term liabilities is on the rise, soIt reached 0.7 in 2016 to reach 1.3 in 2021. The same applies to total liquid assets to total deposits., soIt reached 0.7 in 2016, reaching 1.3 in 2021, and the liquid assets index to total assets reached 0.4 in 2016, reaching 0.5 in 2021, which is a high percentage., However, with a slight increase during the study period, as for the cash credit to deposits index, it recorded a decrease, reaching 0.7 in 2016, to decrease to 0.5 in 2021.

Third: Test hypotheses of influence between study variables Schedule (5)Symbols and semantics of variables

Code	Variants	Indication
x2	banking spread	Independent variables
	The number of electronic payment devices per	/ financial inclusion
х3	100,000 people	
	The number of electronic payment devices for	
x4	every 1000 km	
	The ratio of bank deposits to the total private sector	
x5	deposits	
	The ratio of the credit granted to the bank to the	
x6	total credit of the private sector	
y1	Liquidity quality	variable affiliate

Fourthly:Estimating the effect of financial inclusion on the quality of moneyjOr using tablet data

1. The results of estimating the general model

Table Shows (6) results of estimating the general model for a traceFinancial inclusion on the quality of the spool inbankResearch sample and asCome:

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Schedule (6) results of estimating the general model for a traceFinancial inclusion depends on the quality of liquidity

Dependent Variable: Y2

Method: Panel EGLS (Period SUR)
Date: 07/06/23 Time: 14:01
Sample: 2016 2021

Periods included: 6

Cross-sections included: 6

Total panel (balanced) observations: 36 Linear estimation after one-step weighting matrix

White diagonal standard errors & covariance (d.f. corrected)

Variable	Coefficient	Std. Error	t-Statistic	Prob.		
C X2 X3 X4 X5 X6	3.031543 -25.06499 -9.082028 10.18910 20.15064 -362.9494	0.057972 2.267960 1.017025 1.154807 4.689415 28.62917	52.29337 -11.05178 -8.929993 8.823207 4.297048 -12.67761	0.0000 0.0000 0.0000 0.0000 0.0002 0.0000		
	Weighted Statistics					
R-squared Adjusted R-squared S.E. of regression F-statistic Prob(F-statistic)	0.965255 0.959464 0.983037 166.6856 0.000000	Mean depen S.D. depend Sum square Durbin-Wats	lent var ed resid	-1.388314 11.44635 28.99088 2.014362		
Unweighted Statistics						
R-squared Sum squared resid	0.562550 13.10055	Mean depen Durbin-Wats		1.441667 0.966823		

Source: From the researcher's work based on the outputs of the programReviews version 13

From the results of the table we find the following:

- 1. Increasing the banking spread by one leads to a decrease in the quality of the bankiWalainbankThe research sample has an amount of (25.0), and this negative effect is statistically significant at a level less than (0.01).
- 2. Increasing the number of electronic payment devices per 100,000 people by one leads to a decrease in the quality of the paymentiWalain the research sample bank by (9.0), and this reverse effect is statistically significant at a level less than (0.01).
- 3. Increasing the number of electronic payment devices per 1000 km by one leads to the quality of the carjWalain the research sample bank by (10.1), and this direct effect is statistically significant at a level less than (0.01).
- 4. Increasing the ratio of bank deposits to total private sector deposits by one leads to a decrease in the quality of the assetjWalain the research sample bank by (20.1), and this direct effect is statistically significant at a level less than (0.01).
- 5. Increasing the ratio of credit granted to the bank to the total credit of the private sector by one leads to a decrease in the quality of the creditiWalaIn the research sample banks by (362.9), and this reverse effect is statistically significant at a level less than (0.01).
- The corrected coefficient of determination shows that the independent variables explained 95% of the changes that occurred in the dependent variable (Quality of SjWala) as thisthe influencemorale according to the testF and at a significant level less than (0.01)

Second: the results of estimating the fixed effects model

Table Shows (7) Results of estimation of the fixed effects model for a traceFinancial inclusion on the quality of SjWalaIn the research sample bank and asCome:

Schedule (7) Results of estimation of the fixed effects model for a traceFinancial inclusion on the quality of SiWala

Dependent Variable: Y2 Method: Panel Least Squares Date: 07/06/23 Time: 14:02 Sample: 2016 2021

Periods included: 6 Cross-sections included: 6

Total panel (balanced) observations: 36
White diagonal standard errors & covariance (d.f. corrected)

Variable	Coefficient	Std. Error	t-Statistic	Prob.		
C X2 X3 X4 X5 X6	2.690727 -28.56651 -8.884678 18.11264 25.89689 -354.2933	0.453496 10.32848 4.299930 6.797040 26.19099 74.94855	5.933302 -2.765801 -2.066238 2.664784 0.988771 -4.727154	0.0000 0.0105 0.0493 0.0133 0.3322 0.0001		
	Effects Specification					
Period fixed (dummy v	ariables)					
R-squared Adjusted R-squared S.E. of regression Sum squared resid Log likelihood F-statistic Prob(F-statistic)	0.635696 0.489974 0.660606 10.91001 -29.59269 4.362393 0.001339	Mean depen S.D. depend Akaike info d Schwarz cri Hannan-Qui Durbin-Wats	lent var riterion terion nn criter.	1.441667 0.925010 2.255150 2.739003 2.424027 0.994105		

Source: From the researcher's work based on the outputs of the programReviews version 13

From the results of the table we find the following:

- 7. Increasing the banking spread by one leads to a decrease in the quality of the bankiWalaIn the research sample bank by (28.5), and this reverse effect is statistically significant at a level less than (0.05).
- 8. Increasing the number of electronic payment devices per 100,000 people by one leads to a decrease in the quality of the paymentjWalain the research sample bank by (8.8), and this reverse effect is statistically significant at a level less than (0.05).
- 9. Increasing the number of electronic payment devices per 1000 km by one leads to the quality of the carjWalain the research sample bank by (18.1), and this direct effect is statistically significant at a level less than (0.05).
- 10. Increasing the ratio of bank deposits to the total private sector deposits by one leads to an increase in the quality of the bankjWalaIn the research sample bank by (25.8), and this direct effect is statistically insignificant at a level greater than (0.05).
- 11. Increasing the ratio of credit granted to the bank to the total credit of the private sector by one leads to a decrease in the quality of the creditjWalaIn the research sample bank by (354.2), and this reverse effect is statistically significant at a level less than (0.01).
- 12. The corrected coefficient of determination shows that the independent variables explained 48% of the changes in the dependent variable (Quality of SjWala) as thisthe influencemorale according to the testF and at a significant level less than (0.01)

Second: the comparison between the general model and the fixed or random effects model

Schedule (8) a testF The comparison between the general model and the fixed or random effects model

Redundant Fixed Effects Tests

Equation: Untitled

Test period fixed effects

Effects Test	Statistic	d.f.	Prob.
Period F	0.737476	(5,25)	0.6025
Period Chi-square	4.952932	5	0.4217

Source: From the researcher's work based on the outputs of the programReviews version 13

According to test resultsF For comparison, he should adopt the results of the general model, which is preferredBecause hea testF is not significant at a greater level (0.05).

Conclusions

- 1. Financial inclusion is an important necessity to achieve banking stability, as there is a large percentage of individuals who do not deal with banks or do not have bank accounts, and if they do, they are simple and limited..
- 2. Financial inclusion contributes to advancing economic and social development through positive communication between customers and banks in a balanced relationship that yields fruits for all parties and in a way that helps launch productive financial and economic dynamics..
- 3. The novelty of creating a comprehensive database on the work of the banking sector and a slow time until the base is completed, which means a previous absence of supervision and evaluation of the level of achievement and progress of the work of the Iraqi banking sector, and care in making organizational changes that precede the development of the strategy in implementing banking reform programs.
- 4. In general, the indicator of banking prevalence, which is one of the indicators of financial inclusion in the Iraqi banks, the research sample, is still weak because of the weak prevalenceThis is amazingBanks and poor public dealings with it, which reflected negatively onbanking prevalence indexAndLiquidity quality.
- 5. that increaseThe number of electronic payment devicesper 100,000 inhabitants adversely affectliquidity quality index,The reason for this is due toThe spread of electronic payment devicesjIncrease bank profits a result toIncreasing commissions for conducting cash operations,It also leads tomorefixed assets andCustomer deposits and receivables disbursement operationsWhat causesLow liquidity ratiosThis is amazingsinksAnd the increase in the required capital as a result of the increase in the number of electronic payment devices.
- 6. The results showed that the indicator of the ratio of bank deposits to the total private sector depositsimpactPositive on the quality of liquidity, and this is compatible with the logic of financial and economic analysis, which means that inclusion contributes to supportliquidity for banksown.
- 7. In general, the results showed that there is a negative impact of the indicator of the ratio of credit granted to the bank to the total credit of the private sector on IndicatorLiquidity quality It can be explained that the credit granted to the private sector is limited due to the reluctance of some individuals to borrow from private banks for religious reasons, as well as because of the risks that the banking sector suffers from, the lack of credit inquiry companies, and the high interest rates..

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Recommendations

- 1. Providing effective technology infrastructure that is consistent with the requirements of financial inclusion, along with providing a solid database that is characterized by accuracy and clarity in its indicators data, in cooperation with the concerned authorities and communication companies, and urging the expansion of the Internet to all regions in Iraq, as it is the direct means to use mobile services. And A means of disseminating financial culture, promoting banking services, and strengthening and documenting the relationship and confidence in the banking sector
- 2. Adoption of the banking sector awareness and media strategyto resetThe confidence of individuals and institutions in it, in a way that leads to attracting hoarded funds and employing them within the economic activity, and involving them in the economic cycle to achieve economic and financial growth and stability at a measured pace..
- 3. Gradually expanding the implementation of work requirements with financial inclusion in a manner consistent with the potential MPerformance, morale, efficiency and effectiveness by all institutions in a manner aimed at restoring confidence in it in general and in the Iraqi banking sector in particular.
- 4. Making the most of financial inclusion indicators in following up the process of monitoring, progress, expansion and depth in the provision of financial services, as well as diagnosing defects and weaknesses in the functioning of the banking sector (governmental and private), which is at the same time a database for the work of the banking sector to take appropriate measures to avoid widening the confidence gap in the banking sector.
- 5. Work to reopen the branches that were closed again because of their great impact in enhancing financial inclusion by raising the index of access to financial services and delivering financial services to the largest number of financially excluded society groups or those who live far from the city center.
- 6. Addressing the bank's repeated losses and finding out the main reason that led to their occurrence and entering into profitable and more serious investments, since the bank's repeated losses would weaken customers' confidence in it and their reluctance to deal and use its services.
- 7. Expanding the activity and business of banks in granting credit, entering into profitable investments, using liquid assets, and raising the rate of cash credit and transgression, since its percentage is low, and this indicates not entering into more serious investments and relying on entering the currency auction to achieve profits whose profits are highand its risksfew.

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