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Deposit or loan? (A Law-and-Economics Critique of Fractional-Reserve Banking, Fiduciary Media, and Systemic Risk)

César Martínez-Meseguer¹, Carlos Arenas-Laorga¹ and Aarón Ortega Jiménez² 

¹Department of Economics, Villanueva University, Spain and ²Department of Economics, Rey Juan Carlos University, Spain

Corresponding author: César Martínez-Meseguer; Email: cesar.martinez@villanueva.edu

Abstract

This article advances a law-and-economics critique of fractional-reserve banking, focusing on the legal taxonomy of bank contracts and the risk externalities of maturity transformation. We argue that the conflation of custody-like deposits with mutuum loans blurs property-rights boundaries and weakens liability discipline. Drawing on Austrian monetary theory, we link fiduciary media and demandable debt to pro-cyclical liquidity, run dynamics and the amplification of systemic risk. We reassess the real-bills doctrine and “demand loans,” showing why they do not neutralise run risk in practice and may obscure solvency–liquidity interactions. We then outline institutional reforms – 100%-reserve custodial deposits and a strict functional separation between custody and intermediation – together with market-based loss allocation. The article concludes with regulatory implications for lender-of-last-resort, deposit insurance, and capital/liquidity regimes consistent with risk reduction and legal coherence.

Keywords: financial regulation; fractional-reserve banking; systemic risk

I. Introduction

In recent decades, criticism of fractional-reserve banking has reemerged within academic debate, particularly among Austrian School economists.¹ This critique transcends technical objections to modern finance, grounding itself in legal, ethical and institutional principles such as respect for private property and the framework of a genuinely free market.² Analysing money creation through fiduciary credit exposes deep inconsistencies in both economic coordination and legal coherence.³

Fractional-reserve banking creates money *ex nihilo*, distorting market signal, encouraging over indebtedness, and generating recurrent business cycles through intertemporal

¹ JH de Soto, *Dinero, Crédito Bancario y Ciclos Económicos* (3rd ed, Unión Editorial 2006).

² MN Rothbard, *The Mystery of Banking* (Ludwig von Mises Institute 2008); HH Hoppe, *The Economics and Ethics of Private Property* (Ludwig von Mises Institute 2006).

³ Huerta de Soto (n 1); P Bagus and D Howden, “Some Ethical Dilemmas of Modern Banking” (2013) 22 *Business Ethics* 235; JG Hülsmann, *The Ethics of Money Production* (Ludwig von Mises Institute 2008).

discoordination.⁴ Legally, it violates private law principles, as simultaneous claims to the same monetary base breach the essential duty of safekeeping in deposit contracts, undermining ownership rights and contractual integrity⁵.

An original contribution of this study – first developed under Professor Jesús Huerta de Soto and later cited in his *Money, Bank Credit, and Economic Cycles*,⁶ – clarifies that even in irregular deposits of fungible goods, the depositary's obligation to safeguard and the prohibition of use remain valid. This doctrinal clarification reinforces the illegality of fractional banking by differentiating it clearly from the *mutuum* or loan contract.

Moreover, the article also analyses two common defences of fractionality: demand loans and the issuance of real bills by private banks in competitive systems without a central bank.⁷ It concludes that demand loans cannot provide true, immediate availability of capital and that real-bills proposals still entail monetary expansion without prior saving, producing inflationary and redistributive effects like fiat money⁸.

Finally, the study proposes an institutional alternative aligned with Austrian doctrine: a 100 % reserve requirement on demand deposits, a strict legal separation between deposit and loan contracts, and the recovery of sound, commodity-based money⁹. Such reform would restore a just, stable and law-abiding monetary order consistent with individual freedom, market discipline, and the principles of classical private law.

II. Literature review: the debate on fractional reserves and the reserve ratio

The debate surrounding the legitimacy and stability of fractional-reserve banking is one of the most profound and persistent in monetary and financial theory, especially within the Austrian School. Far from being a merely technical dispute, the different positions reveal radically opposed conceptions of the nature of money, credit, property rights and the origin of economic instability. To properly contextualise the critique developed in this article, it is essential to analyse the main schools of thought that have addressed this question. The debate not only divides the Austrian School but also triggers intense disputes within liberal thought itself and among more Keynesian and monetarist schools.

I. The orthodox thesis of the Austrian School: legal illegitimacy and economic instability

The main current of the Austrian School of Economics – whose foremost contemporary exponents in this subject are Murray N Rothbard and Jesús Huerta de Soto – argues that

⁴ Á Alonso, *El Ciclo Económico: Proceso de Mercado e Intervención Estatal*. (Unión Editorial ed, 2012); Ludwig von Mises, *The Theory of Money and Credit* (Liberty fund 1980); Friedrich A Hayek, *Ciclos Económicos*, Parte I (Unión Editorial 2017).

⁵ J Capella, *El Contrato y La Organización Del Mercado* (Trotta 2000); L Gordillo, *Derecho y Economía Desde La Escuela Austríaca* (Unión Editorial 2015); JM Torras, *Sistema Monetario y Banca En La Tradición Jurídica Europea* (Ediciones UFM 2020).

⁶ Huerta de Soto (n 1); César Martínez-Meseguer, 'Análisis Crítico Sobre La Transmisión de La Propiedad En El Depósito Irregular de Dinero' (unpublished manuscript).

⁷ G Selgin, *The Theory of Free Banking* (Rowman & Littlefield 1988); LH White, *Free Banking in Britain: Theory, Experience, and Debate, 1800-1845* (2nd edn, Institute of Economic Affairs 1995); JR Rallo, *El Modelo de Banca Libre Con Respaldo En Letras Reales* (Instituto Juan de Mariana 2022).

⁸ Huerta de Soto (n 1); P Bagus and D Howden, *Deep Freeze: Iceland's Economic Collapse* (Ludwig Von Mises Institute 2011).

⁹ MN Rothbard, *The Mystery of Banking* (Ludwig von Mises Institute 2008); H-H Hoppe, J Guido Hülsmann and W Block, "Against Fiduciary Media" (1998) 1 *The Quarterly Journal of Austrian Economics* 198 1:1 19; S González-Varas, *La Banca Libre y El Coeficiente de Caja Del 100%* (Ediciones Internacionales Universitarias 2017).

fractional-reserve banking is both legally fraudulent and the main cause of business cycles¹⁰.

From a legal standpoint, as Huerta de Soto¹¹ explains, the practice violates the Roman law distinction between deposit (*depositum*), whose purpose is safekeeping and conservation, and the contract of loan (*mutuum*), which entails a transfer of ownership and availability. In a sight deposit – even of fungible goods like money – the depositary must maintain full availability for the depositor. Using these funds for loans creates two simultaneous claims over the same money, amounting to misappropriation and breach of contract. Such duplication is considered a legal impossibility and a fraud, regardless of its acceptance in positive law, as it infringes property rights.¹²

From an economic perspective, the illegitimacy extends to the creation of *fiduciary media* – money created *ex nihilo* through fractional reserves – representing credit expansion without real saving. According to Austrian Business Cycle Theory (Mises¹³ and Friedrich A Hayek¹⁴), this artificial expansion lowers interest rates and sends false signals to entrepreneurs, leading to unsustainable long-term investments and widespread capital misallocation. The ensuing boom inevitably collapses into crisis and recession as the economy readjusts to genuine levels of saving.¹⁵

The only coherent remedy, in this view, is to prohibit fractional reserves on demand deposits through a 100% reserve requirement, ideally under a system of free, commodity-based money such as gold.¹⁶

2. The internal dispute: the free-banking school and market self-regulation

Within the liberal field, an influential school of thought known as the Free-Banking School disagrees with the 100% thesis. Authors such as Lawrence H. White,¹⁷ George Selgin¹⁸ and Kevin Dowd¹⁹ argue that a competitive banking system with fractional reserves is not only legitimate but also economically stable, provided it operates without a central bank and without state privileges.

In the first place, the Free-Banking School argues that competition serves as an effective disciplinary mechanism. In such a system, each bank issues its own notes redeemable in base money (typically gold). If a bank over-expands credit, rival banks will demand redemption, drain its reserves and force restraint.²⁰ Thus, the market naturally limits money creation, aligning supply with the public's liquidity demand and preventing inflation.²¹

Supporters often cite the Scottish system (1716–1845) as an example²² of stability and growth,²³ though critics note it was partly regulated, suffered crises, and relied on the Bank of England. Legally, this school sees fractional deposits not as fraud but as voluntary, informed agreements between banks and clients.²⁴

¹⁰ Rothbard, *The Mystery of Banking* (n 9); Huerta de Soto (n 1).

¹¹ Huerta de Soto (n 1).

¹² Hermann Hoppe (n 2).

¹³ Mises (n 4).

¹⁴ Hayek (n 4).

¹⁵ MN Rothbard, *America's Great Depression* (5th edn, Ludwig von Mises Institute 2000); RW Garrison, *Time and Money: The Macroeconomics of Capital Structure* (Routledge 2001).

¹⁶ MN Rothbard, *The Case against the Fed* (Ludwig von Mises Institute 1995); Huerta de Soto (n 1).

¹⁷ White (n 7).

¹⁸ Selgin (n 7).

¹⁹ K Dowd, *The State and the Monetary System* (Phillip Allan Publishers 1989).

²⁰ *Ibid*; K Dowd, *The Experience of Free Banking* (Routledge 1992); K Dowd, *Laissez-Faire Banking* (Routledge 1993).

²¹ Selgin (n 7).

²² Dowd, *The Experience of Free Banking* (n 20).

²³ White (n 7).

²⁴ Rothbard, *The Mystery of Banking* (n 9).

However, a modern variant of this school, defended by authors such as Juan Ramón Rallo,²⁵ revives the Real Bills Doctrine of John Law and Adam Smith, claiming that money issued against short-term, self-liquidating commercial debt expands in line with real trade. Orthodox Austrians reject this, arguing it still constitutes credit creation without prior saving, distorting production.²⁶

3. External views: monetarist, neoclassical, and Keynesian justifications

Outside the Austrian tradition, fractional reserves are interpreted in contrasting ways. First, Monetarists, led by Milton Friedman, criticised banks' ability to create money as a key source of instability that undermines central control of the money supply. His proposal, surprisingly close in form to the Austrian 100% reserve plan though different in spirit, was to enforce full reserves to grant the central bank complete authority over money creation, ensuring a predictable growth rate to stabilise prices.²⁷

On the other hand, Neoclassical economics, accepts fractional reserves as an efficient mechanism of intermediation that channels short-term savings into long-term investment, thereby fostering growth. It does not see them as the cause of business cycles, instead attributing crises to problems such as information asymmetries or self-fulfilling bank runs. The Diamond–Dybvig model frames run as equilibria that justify regulation, deposit insurance, and a lender of last resort.²⁸

Finally, post-Keynesian economics advances a radically different vision: fractional reserves are essential to a monetary economy of production. For Basil Moore,²⁹ Marc Lavoie³⁰ or Wray³¹ money is endogenous loans create deposits. Banks generate purchasing power *ex nihilo* in response to demand, while central banks accommodate reserve needs to maintain payment stability, influencing only through interest rates. Fractional reserves thus define modern capitalism itself.

4. Synthesis of the debate

The points of friction among these schools are irreconcilable and center on the nature of the banking contract, the cause of economic instability, the endogeneity or exogeneity of money, and the legitimate role of the state in the monetary sphere. The following table summarises each paradigm's fundamental positions.

III. Conceptual and legal foundations of the critique of fractional reserves

I. The classical distinction between deposit and loan

A central legal critique of fractional-reserve banking lies in the precise distinction between deposit and loan (*mutuum*). Rooted in Roman law and upheld by the Spanish Civil Code (Articles 1758 ff. for deposit, and Articles 1740 ff. for *mutuum*), this distinction

²⁵ Rallo (n 7).

²⁶ P Bagus, *Full Reserve Banking versus the Real Bills Doctrine: A Critique of the Monetary Theory of J.R. Rallo* (Ludwig von Mises Institute 2024).

²⁷ M Friedman and AJ Schwartz, *A Monetary History of the United States, 1867-1960* (Princeton University Press 1963).

²⁸ DW Diamond and PH Dybvig, 'Bank Runs, Deposit Insurance, and Liquidity' (1983) 91 *Journal of Political Economy* 401.

²⁹ BJ Moore, *Horizontalists and Verticalists: The Macroeconomics of Credit Money* (Cambridge University Press 1988).

³⁰ M Lavoie, *Post-Keynesian Economics: New Foundations* (Edward Elgar Publishing 2014).

³¹ LR Wray, *Understanding Modern Money: The Key to Full Employment and Price Stability* (Edward Elgar 1998).

Table I. Table preserved conceptually.

	Austrian school (100% reserves)	Free-banking school	Monetarism (Friedman)	Post-keynesianism
Legal legitimacy	Illegitimate (contractual fraud, misappropriation)	Legitimate (voluntary contract in a free market) ³²	Irrelevant; focus on control and stability	Legitimate and functional; essence of banking ³³
Economic effect	Inherent cause of cycles (ABCT) ³⁴	Stable under competition; self-regulated ³⁵	Source of instability; hinders control of <i>M</i> ³⁶	Necessary engine of credit and investment ³⁷
Nature of money	Exogenous (commodity arising spontaneously) ³⁸	Exogenous (commodity or competitive private fiat)	Exogenous (monetary base controllable by CB)	Endogenous (“loans create deposits”)
Reform proposal	100% reserves; monetary freedom (gold standard/competition) (accommodative CB)	Remove central bank; competition among issuing banks	100% reserves for precise control of money supply	Manage the interest rate

Source: Authors' own elaboration

highlights two opposing contractual logics³⁹. The deposit's essence is safekeeping: the depositor retains ownership, and the depositary must preserve and return the same thing. Even in irregular deposits, where fungible goods are commingled, the key is the prohibition on the depositary's use or disposal of the asset. Conversely, in a loan or mutuum, ownership is transferred, granting the borrower free use, with the duty to return an equivalent amount of the same kind and quality. Modern banking blurs these categories: while current accounts are presented to clients as deposits – implying immediate availability – banks operate them as loans, deploying deposited funds at will. This legal and conceptual confusion underpins the controversy surrounding the legitimacy of fractional-reserve banking⁴⁰.

2. The doctrinal contribution to the distinction between irregular deposit and loan

A correct understanding of the banking contract requires distinguishing between the irregular deposit of fungible goods and the loan, since the legality of banks' use of deposited money depends on this difference. In a regular deposit, what is delivered is a quantity of a generic good – such as money or gold – not specific items. Its essence lies in maintaining the depositor's immediate availability over quantity, not in preserving physical identity.⁴¹ As highlighted by César Martínez Meseguer and adopted by Huerta de

³² F De Castro, *Derecho Civil de España. Vol. II. Derecho de Cosas* (Instituto de Estudios Políticos 1965); M Albaladejo, “Derecho Civil II: Derecho de Obligaciones” (1970) *Revista de Derecho Privado*; Huerta de Soto (n 1); Torras (n 5).

³³ Rothbard, *The Mystery of Banking* (n 9); Huerta de Soto (n 1); Bagus and Howden (n 3).

³⁴ Huerta de Soto (n 1); Albaladejo (n 39).

³⁵ Huerta de Soto (n 1) 502 n 101.

³⁶ De Castro (n 39); Juan Ramón Rallo, *El Liberalismo No Es Pecado* (Deusto 2011).

³⁷ P Bagus and D Howden, “Fractional Reserve Banking: Some Quibbles” (2010) 13 *Quarterly Journal of Austrian Economics* 29; Huerta de Soto (n 1).

³⁸ F Sánchez Calero, *Instituciones de Derecho Mercantil, vol 1* (McGraw-Hill 2000); M Broseta Pont and F Martínez Sanz, *Manual de Derecho Mercantil* (20th edn, Tecnos 2015).

³⁹ Capella (n 5); Gordillo (n 5); L Díez-Picazo, *Fundamentos Del Derecho Civil Patrimonial* (6th ed, Civitas 2008).

⁴⁰ Martínez-Meseguer (n 6).

⁴¹ Menger (n 38).

Soto⁴², the object of the irregular deposit is always an abstract quantity, and what must be returned is the *tantundem* – the same amount and quality – without any transfer of ownership.

Thus, the depositor retains ownership and expects the preservation of his right of disposal, while the depositary is prohibited from using the funds unless expressly authorised. This view aligns with Articles 1768, 1281 and 1255 of the Spanish Civil Code, which regulate the use of deposits, the intent of the parties and contractual freedom.

Against this background, the key distinction lies in authorisation: in a loan, the borrower gains ownership, whereas in a deposit, the depositary must safeguard and immediately return the funds.⁴³ Therefore, bank deposits are true deposits, not loans. Using them to grant credit without consent constitutes contractual breach and misappropriation.⁴⁴

3. The protection of property and the principle of contractual typicality

The legal critique of fractional reserves is reinforced by an appeal to the principle of contractual typicality, which imposes limits on freedom of contract.⁴⁵ The Spanish legal system does not allow a contract called a “deposit” to be configured *de facto* as a concealed loan – especially when it concerns relationships of special economic significance that affect millions of citizens.⁴⁶

Accepting that bank deposits may imply the bank’s use and disposal of funds amounts to denying the depositor’s property right over the money and thus establishing a legal anomaly that contradicts essential principles of private law: clear contractual will, equivalence of performances, informed consent, contractual good faith, and the inviolability of property.

Moreover, the habitual practice of allowing banks to use deposited funds without expressly warning clients or requiring their informed consent constitutes a systemic breach of the principle of transparency, which, in other branches of law (such as consumer law), is considered essential.

4. The evolutionary definition of money: means of payment, use value and material standard

A clear understanding of money is vital to assess today’s monetary system, yet most modern definitions – often limited to a “medium of exchange” – lack precision and ignore its legal and institutional nature.

From the perspective of the Austrian School of Economics, and in line with research conducted by one of the authors of this work⁴⁷, money must be understood as a spontaneously arisen social institution, the result of an evolutionary process⁴⁸ through

⁴² *Ibid*; Mises (n 4).

⁴³ Mises (n 4).

⁴⁴ C Desan, *Making Money : Coin, Currency, and the Coming of Capitalism* (Oxford University Press 2014); R Hockett and A James, *Money from Nothing : Or, Why We Should Learn to Stop Worrying about Debt and Love the Federal Reserve* (Melville House 2020).

⁴⁵ ST Omarova, “The People’s Ledger: How to Democratize Money and Finance the Economy” (2021) 74 *Vanderbilt Law Review* 1231; RC Hockett and ST Omarova, “The Finance Franchise” (2017) 102 *Cornell Law Review* 1144; R Lastra, “En Defensa Del Dinero Público Digital” (2022) 89 *El Trimestre Económico*; R Lastra, *Legal Foundations of International Monetary Stability* (Oxford University Press 2006); R Lastra, *International Financial and Monetary Law* (2nd ed, Oxford University Press 2015).

⁴⁶ Menger (n 38); Mises (n 4).

⁴⁷ Bagus and Howden, ‘Fractional Reserve Banking: Some Quibbles’ (n 44).

⁴⁸ Mises (n 4).

which certain commodities – such as gold or silver – came to be commonly used not only to facilitate exchanges but also to safeguard value, discharge debts, and serve as a price standard.⁴⁹

Accordingly, money must possess the following characteristics:

- Be a material, fungible economic good with use value.⁵⁰
- Have exchange value recognised by market participants.
- Be accepted as a means of payment, i.e., as an instrument capable of extinguishing economic obligations.
- Act as a monetary price standard within a given community.

On this basis, the following alternative, more precise definition is proposed: money is a type of evolutionary social institution consisting of any (material) economic good which, being subjectively attributed use value and exchange value, is commonly and freely accepted as a means of payment by a society.

This definition, in turn, allows us to distinguish with precision three concepts that are often conflated:

- **Medium of exchange (ME):** any good that facilitates barter without necessarily extinguishing debts.
- **Means of payment (MP):** any good that, by discharging an obligation, allows a contract or debt to be deemed fulfilled.
- **Money (M):** that good which, in addition to being ME and MP, arises from spontaneous order, maintains objective use value, and operates as a socially shared standard.

Therefore, neither fiat money nor cryptocurrencies qualify as genuine money. Fiat currencies rely on state coercion and lack material backing, while cryptocurrencies lack intrinsic value and widespread acceptance. Both are artificial substitutes, revealing the fictional nature of today's monetary system and highlighting the need for market-based institutional reform.

5. Cryptocurrencies, promissory notes and “fiat money”: are they truly money?

One of the greatest doctrinal confusions in contemporary monetary analysis lies in the conceptual amalgam between exchange instruments and money proper. This confusion has been accentuated by the rise of new forms of value representation such as cryptocurrencies, electronic means of payment, private promissory notes or accounting units issued by centralised or decentralised entities.

Moreover, contemporary legal and monetary scholarship has analysed how many of these instruments acquire monetary functions or degrees of “moneyness” through legal recognition, institutional backing, and balance-sheet operations.⁵¹ This institutional and balance-sheet conception of money is developed in contemporary legal and monetary theory by various authors. In this literature, monetary instruments acquire degrees of “moneyness” through legal recognition, tax acceptability and their integration into regulated payment and settlement systems. In this way, money is conceived as a legally anchored liability embedded in public and private balance sheets.⁵²

⁴⁹ Rallo (n 7).

⁵⁰ Ludwig von Mises, *Human Action: A Treatise on Economics* (Ludwig von Mises Institute 1998).

⁵¹ Mises (n 4); Rothbard, *The Mystery of Banking* (n 9).

⁵² Friedman and Schwartz (n 27); M Friedman, “The Role of Monetary Policy” (1968) 58 *The American Economic Review* 1.

From the perspective proposed in the previous section, only that material economic good with use and exchange value, spontaneously arisen and freely accepted as an effective means of payment in a society (market), can be considered money.⁵³ Strictly speaking, money is not a credit right, nor a promise, nor a symbol, but a present good that extinguishes obligations.

On this basis, the following clarifications can be made:

a) Contemporary fiat money

Fiat currencies like the euro or the dollar cannot be considered genuine money because they are not backed by any tangible good, possess no use value and owe their acceptance to state coercion rather than voluntary market evolution. Their legal tender status forces their use for paying taxes, fines and public obligations. Economically, they function as instruments for financing government spending, socialising bank losses and enabling credit expansion without prior saving.⁵⁴ Thus, they are not real money, but fiduciary means of payment sustained by law, not by market confidence.

b) Cryptocurrencies and digital assets

Cryptocurrencies (such as Bitcoin or Ethereum), although they arise in a decentralised, private and voluntary manner, do not meet the requirements to be considered genuine money. They present the following limitations:

- They have no prior use-value: Unlike money as an evolutionary institution, cryptocurrencies lack a use-value prior to their potential exchange value, which conflicts with Mises's regression theorem.⁵⁵
- They are not universally or generically accepted as a means of payment: acceptance is limited and volatile, with neither institutional nor physical backing.
- They do not operate as a broadly used price standard.
- In many cases, they do not discharge legal obligations but function as intermediate means subject to subsequent conversion into fiat currency.

Therefore, at best, they can be considered freely accepted media of exchange that may play an important role as such, but not money in the evolutionary or institutional sense.

c) Promissory notes, bills and other representative instruments

A particularly relevant case is that of promissory notes, bills of exchange or commercial paper, which some authors – such as Rallo⁵⁶ – propose as a foundation for free-banking systems with quasi-money issuance backed by “real bills.”

However, these instruments are not money either. They are promises to pay – legal documents representing rights to a future delivery of money. They may circulate, be discounted, and serve as collateral, but they do not extinguish obligations unless actually paid with real money.⁵⁷ Their circulation is secondary and derivative; they are neither a unit of account nor a stable standard.

⁵³ JM Keynes, *The General Theory of Employment, Interest and Money* (Macmillan 1936).

⁵⁴ P Krugman, “It’s Baaack: Japan’s Slump and the Return of the Liquidity Trap” (1998) 29 *Brookings Papers on Economic Activity* 137.

⁵⁵ B Bernanke, “Deflation: Making Sure ‘It’ Doesn’t Happen Here: Remarks before the National Economists Club, Washington, D.C.” (2002).

⁵⁶ Friedman and Schwartz (n 27); A Atkeson and PJ Kehoe, “Deflation and Depression: Is There an Empirical Link?” (2004) 94 *American Economic Review* 99; M Bordo and A Filardo, “Deflation and Monetary Policy in a Historical Perspective: Remembering the Past or Being Condemned to Repeat It?” (2005) 20 *Economic Policy* 800; MN Rothbard, *A History of Money and Banking in the United States: The Colonial Era to World War II* (Ludwig von Mises Institute 2002).

⁵⁷ Huerta de Soto (n 1).

Therefore, neither the use of promissory notes, nor cryptocurrencies, nor fiduciary units backed by debt can circumvent the need for a material, present universally accepted means of payment – that is, genuine money in the classical sense.⁵⁸

6. Considerations on deflation before addressing the economic arguments

Before proceeding to the next section, it is important to recall the context of the fear of deflation that permeates economic thought and public administrations and trade unions.⁵⁹ In fact, fear of deflation is common ground between monetarists and Keynesians alike, such as Keynes,⁶⁰ Krugman,⁶¹ or Bernanke.⁶²

Deflation is the contraction of the money supply – or equivalently, an increase in the demand for money – resulting in a general fall in prices and a rise in purchasing power. It can take several forms depending on its origin.

The first is government-induced deflation, exemplified by post-World War I England, where Churchill's return to the gold standard at the pre-war parity caused a monetary contraction and pound appreciation. For an export-driven economy, this policy proved disastrous, collapsing exports, production, and employment – hence a “bad deflation.”

The second arises from the fractional-reserve banking system. Artificial credit expansion generates booms, but when errors emerge, crises ensue: assets lose value, liabilities persist and defaults rise. During downturns, loan repayments outpace new credit creation, shrinking the money supply and producing deflation. The core issue, however, is not deflation itself but the preceding inflationary credit expansion made possible by fractional reserves.

The third type, “good deflation,” stems from productivity gains. With a stable money supply, rising productivity lowers prices naturally, as occurred in the United States between 1865 and 1900 – an era of strong growth and moderate annual deflation.⁶³

Since the mid-twentieth century, inflationary policies have dominated, obscuring deflation's virtues. Yet deflation promotes saving, the basis of sustainable growth and long-term prosperity.

IV. Economic and legal arguments against fractional reserves (Austrian view)

1. Legal incompatibility between deposit and fractional reserves

From a classical legal perspective, fractional-reserve banking contradicts the nature of the deposit contract. The depositor believes he retains ownership and immediate availability of his funds, while the bank treats them as a loan, using them freely and keeping only a fraction in reserve.

This creates a duplicity of ownership claims over the same money – an impossibility under private law, as noted by Huerta de Soto.⁶⁴ The practice thus entails artificial credit expansion and violates the legal principle of exclusive ownership.⁶⁵ Even if the client is aware, contractual typology forbids disguising a loan as a deposit without meeting its legal conditions.⁶⁶

⁵⁸ Sánchez Calero (n 45).

⁵⁹ Gordillo (n 5).

⁶⁰ Mises (n 4); Hayek (n 4); Alonso (n 4).

⁶¹ Garrison (n 15).

⁶² Rothbard, *America's Great Depression* (n 15); Hayek (n 4).

⁶³ NGregory Mankiw, *Macroeconomics* (Worth Publishers 2013).

⁶⁴ Rothbard, *The Mystery of Banking* (n 9); Selgin (n 7).

⁶⁵ Rothbard, *The Mystery of Banking* (n 9); White (n 7); Bagus and Howden, “Fractional Reserve Banking: Some Quibbles” (n 45).

⁶⁶ Rallo (n 7).

2. Credit expansion as the origin of the business cycle

From an economic standpoint, the critique of fractional reserves is articulated chiefly around their capacity to provoke recurrent business cycles, according to the theory developed by Ludwig von Mises and formalised by Friedrich A. Hayek: The Austrian Business Cycle Theory (ABCT).⁶⁷

The issuance of fiduciary media by banks – that is., money not backed by prior real saving – permits a bank credit expansion with no correlate in voluntary saving, which distorts the price system and generates false signals for economic agents.⁶⁸ An artificial reduction in interest rates ensues, leading to unsustainable investments (*malinvestment*), especially in capital goods in stages of production distant from consumption.⁶⁹ This mechanism of bank-driven money creation through credit expansion is explained in mainstream theory through the money multiplier framework and credit expansion.⁷⁰

Fractional reserves trigger artificial booms followed by crises, as monetary manipulation distorts the balance between consumption and investment. As Mises and Hayek argued, this process creates macroeconomic imbalances, over-indebtedness and systemic discoordination, undermining the real foundations of economic stability.

3. Fractional reserves and the dual-liquidity problem

The Austrian School highlights the problem of dual liquidity: both depositor and bank claim full ownership of the same funds, creating an illusion of solvency that collapses in bank runs. Central banks and deposit guarantee merely conceal this risk, transferring losses to taxpayers and weakening individual responsibility.⁷¹

Consequently, the modern banking system rests on an artificial and very dangerous institutional scaffolding whose purpose is to conceal and sustain a structural legal-economic error.⁷²

4. The special case of demand loans: a fictitious category

An additional argument of weight – scarcely explored by conventional economic literature – concerns the practical and legal infeasibility of so-called “demand loans,” which have been used as a justification to try to legitimise fractional reserves.⁷³

According to this thesis, it would be legally valid for a client to lend money to a bank on the condition that it be repaid immediately upon request.⁷⁴ However, closer scrutiny reveals that this figure is technically unworkable, both contractually and operationally.

Every loan, even a “demand loan,” requires a reasonable repayment period based on custom and practice; immediate availability is impossible. Thus, the so-called demand loan is a legal fiction used to disguise a breach of the *mutuum*’s principles and a substitution for the true deposit contract.

⁶⁷ Rallo (n 43).

⁶⁸ Rothbard, *The Mystery of Banking* (n 9); Hermann Hoppe (n 2).

⁶⁹ R Cantillon, *Ensayo Sobre La Naturaleza Del Comercio En General* (Unión Editorial 2021).

⁷⁰ Bagus and Howden, ‘Some Ethical Dilemmas of Modern Banking’ (n 3).

⁷¹ Menger (n 38).

⁷² Rothbard, *The Mystery of Banking* (n 9).

⁷³ Rothbard, *The Case against the Fed* (n 16); Dowd, *The Experience of Free Banking* (n 20).

⁷⁴ Huerta de Soto (n 1).

5. Ethical and moral considerations: intertemporal justice

The Austrian School asserts that justice demands absolute respect for property rights and genuinely free contracts consistent with their true nature.⁷⁵

Fractional reserves institutionalise money creation, benefiting first receivers like banks and governments while harming wage earners and savers through the regressive Cantillon effect.⁷⁶ Moreover, fractional reserves discourage genuine saving, promote present consumption, and cause unsustainable wealth redistribution, distorting individual economic decisions and undermining intertemporal responsibility.⁷⁷

V. Institutional and macroeconomic consequences of fractional-reserve banking

1. Forced bank-intermediation and the privilege of fiduciary issuance

Fractional reserves have transformed the economy, turning banking into a state-favoured monopoly. Financial intermediation is no longer voluntary but imposed, as money is created *ex nihilo* by privileged private banks, forcing firms, consumers, and governments into systemic credit dependence.

This phenomenon has caused a mutation in money. Money ceases to be an economic good arising spontaneously from the market – as historically occurred with gold or silver⁷⁸ – and becomes a fiduciary unit created by decree and maintained by state and banking monopolies.⁷⁹ The institutional consequence is clear: fractional reserves have given way to a financial architecture based on legal privileges, information asymmetries, negative externalities and morally unacceptable risks.

2. The origin of the modern central bank: lender of last resort

The fragility of fractional-reserve banking – exposed by liquidity crises and bank runs – led to the creation of central banks as lenders of last resort. However, this intervention entrenched the problem by legitimising insolvent banks sustained by state support.⁸⁰ As Huerta de Soto⁸¹ observes, the result is a system of socialised losses and privatised profits, where taxpayers bear the cost of systemic errors. Central banks thus become political instruments of redistribution, undermining individual responsibility and replacing the spontaneous market order with centralised financial planning favouring those closest to power.⁸²

3. Monetary financing of the public deficit and the erosion of fiscal discipline

Fractional reserves enable indirect state financing: banks create money by purchasing public debt, backed by central banks. This feedback loop fuels credit expansion and public

⁷⁵ FA Hayek, *Denationalisation of Money: The Argument Refined* (The Institute of Economic Affairs 1976).

⁷⁶ Huerta de Soto (n 1); JF Villaverde, *La Crisis Financiera Desde El Punto de Vista de Un Economista* (Instituto Juan de Mariana 2011).

⁷⁷ GJ Stigler, “The Theory of Economic Regulation” (1971) 2 *The Bell Journal of Economics and Management Science* 3; Rothbard, *The Mystery of Banking* (n 9); CW Calomiris and G Gorton, “The Origins of Banking Panics: Models, Facts, and Bank Regulation” (1991) *Financial Markets and Financial Crises* 109.

⁷⁸ B Leoni, *Freedom and the Law* (D Van Nostrand Company 1961).

⁷⁹ Rallo (n 7).

⁸⁰ Selgin (n 7).

⁸¹ H Thornton, *An Enquiry into the Nature and Effects of the Paper Credit of Great Britain* (George Allen & Unwin 1939).

⁸² Rallo (n 7).

spending, encouraging fiscal irresponsibility. Governments bypass real saving and revenue constraints, replacing budgetary discipline with dependence on artificially created money and privileged banking support.

From the Austrian perspective, this situation is extremely dangerous: it disincentivises democratic control of public spending, dilutes fiscal transparency and generates institutionalised, persistent inflation that acts as a hidden tax on citizens' purchasing power, especially on the most vulnerable.

4. Volatility, bubbles and structural instability

The systematic use of fractional reserves amplifies macroeconomic volatility, allowing fluctuations in risk perception and credit conditions to translate into abrupt changes in the quantity of money and investment. As explained earlier, this artificial credit expansion is the origin of financial bubbles, followed by sharp and painful adjustments that punish agents less connected to the financial system.

Thus, the current model is not only inefficient from an intertemporal standpoint but becomes structurally unstable – generating cycles that arbitrarily redistribute wealth, reward short-term speculation and penalise productive saving.

The historical experience of recent decades – with successive crises in different arenas (real estate, technology, financial, sovereign) – shows that these are not anomalies but logical consequences of a system based on fiduciary monetary expansion facilitated by fractional reserves.⁸³

5. Institutional effects: financial clientelism and regulatory capture

Finally, at a deeper institutional level, fractional reserves have contributed to consolidating a financial elite closely linked to political power, generating phenomena of clientelism, regulatory capture and institutional corruption⁸⁴. Large banking entities not only influence economic policy through their systemic size but also benefit from rules designed for their protection and survival, to the detriment of competition and citizens' sovereignty.

This process produces a serious distortion of the rule of law: laws are crafted to suit the needs of the banking system rather than as general laws applicable to all citizens and firms on equal terms. Law thus becomes a tool of institutional engineering in the service of particular interests, undermining the legitimacy of the political and economic system as a whole.⁸⁵

VI. Critiques of alternative proposals: demand loans and real bills as a justification for fractionality

In response to the Austrian critique of fractional-reserve banking, some authors have formulated alternative proposals or justifications seeking to legitimise this system within a context of contractual freedom. Two such proposals merit special attention: the one that defends the existence of a demand loan as the legal foundation for the operation of current accounts,⁸⁶ and the one that proposes the issuance of money backed by real bills in a banking system without a central bank.⁸⁷ This section analyses both approaches, showing their theoretical, practical and legal weaknesses.

⁸³ Selgin (n 7).

⁸⁴ Mises (n 4); Bagus (n 26).

⁸⁵ Huerta de Soto (n 1).

⁸⁶ Rothbard, *The Mystery of Banking* (n 9).

⁸⁷ White (n 7); Dowd, *The Experience of Free Banking* (n 20); L Neal, *The Rise of Financial Capitalism: International Capital Markets in the Age of Reason* (Cambridge University Press 1990).

1. Real bills as a monetary base: limits and contradictions

The “real bills” proposal seeks to legitimise fiat money creation without central banks by allowing private banks to issue money backed by short-term commercial debt linked to real goods in production or transit. Defended by figures such as Henry Thornton⁸⁸ and revived by Juan Ramón Rallo,⁸⁹ it claims that such issuance merely reflects real output and satisfies temporary liquidity needs, supposedly avoiding inflation through market discipline.⁹⁰

However, the Austrian School rejects this view. First, issuing money against real bills still constitutes *ex nihilo* creation, distorting prices, interest rates and production structures.⁹¹ Second, when the bill is repaid, the money usually remains in circulation, creating a lasting inflationary effect⁹². Third, the supposed backing by goods is weak, as these are often illiquid, perishable or unenforceable. Finally, historical evidence from relatively free banking systems like Scotland or Canada shows that market discipline failed to prevent overexpansion, crises, and concentration.⁹³

Institutionally, the real-bills doctrine does not correct the fundamental flaws of fiat money. At most, it would produce a private fiduciary system with slightly stronger constraints but still based on monetary creation without prior real saving – an accounting and contractual fiction incompatible with a sound monetary order.⁹⁴

2. The contractual limits of demand loans: an analysis from commercial law

A frequent defence of fractional-reserve banking is to present current accounts not as deposits but as demand loans, whereby the client allegedly transfers ownership of money to the bank with the right to reclaim it at any time. This interpretation, however, faces serious legal and practical objections. In civil law, demand loans are possible but remain exceptional and difficult to operate. In banking practice, the concept is largely fictitious: the client’s balance appears as his own and as instantly available, yet the bank has already lent those funds to a third party. This creates a duplication of capital, incompatible with sound accounting and contractual responsibility.

Moreover, jurisprudence on open-ended loans requires a reasonable period for repayment, considering custom, banking practice and technical feasibility. Thus, genuine instantaneous restitution is impossible.

Consequently, the demand-loan argument cannot legitimise a bank’s promise of immediate availability of funds that have been simultaneously transferred elsewhere. Far from resolving the issue, it exposes a structural contradiction: fractional-reserve banking, even under this interpretation, rests on legal inconsistency and amounts to economic fraud.

3. The 100% reserve requirement: legal certainty for demand deposits

The heart of the reform proposed by the Austrian School lies in the radical separation between deposit contracts and loan contracts. At present, fractional reserve banking has blurred that difference, allowing demand deposits to be used as the basis for new credit operations, despite their legally custodial nature, and without the depositor’s consent or any genuine possibility of choice.

⁸⁸ Rothbard, *The Mystery of Banking* (n 2); Huerta de Soto (n 1).

⁸⁹ González-Varas (n 9).

⁹⁰ Huerta de Soto (n 1).

⁹¹ *Ibid.*

⁹² C Menger, “On the Origin of Money” (1892) 2 *The Economic Journal* 239; Menger (n 38).

⁹³ Hayek (n 82).

⁹⁴ Philipp Bagus, *The Tragedy of the Euro* (Mises Institute 2012).

Accordingly, this distortion can be addressed by establishing a 100% reserve requirement for demand deposits (and equivalents); which obliges banks to keep the totality of deposited funds available for immediate return and prevents their use as a basis for credit expansion.⁹⁵ In doing so, the reform restores legal coherence by protecting depositors' property rights and eliminates banks' capacity to expand fiduciary money autonomously.

At the institutional level, implementation may be gradual and compatible with contractual freedom. However, it requires clear legislative reform that qualifies fractional-reserve banking applied to demand deposits as fraud, thereby restoring market discipline and aligning banking practice with the principles of private law.⁹⁶

From an institutional and regulatory perspective, under a system of custodial banking with a 100% reserve requirement, the traditional functions of a central bank as lender of last resort become largely redundant. Consequently, the elimination of the central bank would not constitute an immediate process, but rather a gradual, stage-based transition, with the effective establishment of a 100% reserve requirement representing the key step. Once this stage is reached, demand deposits would be fully backed by reserves and legally segregated from banks' balance sheets. As a result, even in the event of bank failure, deposited funds could be returned to depositors in full, thereby eliminating the risk of bank runs.⁹⁷ In this context, regulatory frameworks designed to safeguard liquidity, capital adequacy, and depositor protection lose much of their rationale with respect to custodial banking activities.

Moreover, the full viability of this institutional framework would require the replacement of the current system of monopolistically issued fiat money with a system of private money,⁹⁸ emerging from a spontaneous and evolutionary market process. In this sense, such money would need to consist of the monetary medium historically selected by society, namely gold.

By contrast, credit intermediation would operate under normal market discipline. Savings voluntarily invested through loan contracts would remain subject to entrepreneurial risk, and losses would be borne by investors, as in any other economic activity. However, such failures would not trigger systemic banking crises, since credit expansion would be constrained by prior saving. The recurrent financial and economic crises characteristic of fractional-reserve systems – driven by artificially low interest rates and intertemporal discoordination – would therefore be structurally avoided.

4. The restoration of sound money: gold, cryptocurrencies and the evolution of commodity money

The third axis of Austrian reform is the recovery of a sound monetary system, that is, a system in which the unit of account and exchange cannot be manipulated by political power. Historically, gold has fulfilled this function, and the Austrian School has defended its use as a spontaneous commodity money, arising from the market and the institutional evolutionary process described by Menger.⁹⁹

Today, technical conditions make possible competition between different forms of non-state money, such as gold, silver or even certain cryptocurrencies backed by real assets or with strict mechanisms of limited issuance (such as Bitcoin, in its original design).

⁹⁵ Mises (n 4); Hayek (n 4); Rothbard, *The Mystery of Banking* (n 2); Huerta de Soto (n 1).

⁹⁶ Eugen von Böhm-Bawerk, *Capital and Interest* (Libertarian Press 1959).

⁹⁷ Mises (n 57); Mises (n 4).

⁹⁸ Hayek (n 4).

⁹⁹ MN Rothbard, *Man, Economy, and State with Power and Marke* (2nd edn, Ludwig von Mises Institute 2009); Rothbard, *The Case against the Fed* (n 16); Rothbard, *The Mystery of Banking* (n 2).

The proposal does not require imposing by law a specific form of money but rather removing the monopoly of the central bank and allowing genuine competition between monetary units, so that individuals voluntarily and in a decentralised way choose the most reliable and stable medium of exchange and store of value. As Hayek¹⁰⁰ notes, the key lies in monetary choice as the foundation of spontaneous order and fiscal responsibility.

5. Feasibility, transition and possible objections

It is foreseeable that this alternative model will encounter resistance, both from financial elites and from States, which would see much of their capacity for financing eliminated. However, the periodic crises of the current system, together with the discrediting of conventional monetary policy, open a window of opportunity to seriously discuss a transition towards a more stable order.¹⁰¹

The transition may be approached gradually through:

- Progressive elimination of the legal privilege of fractional reserve banking.
- Voluntary introduction of the 100% reserve requirement in certain accounts.
- Full legalisation of contracts in other currencies or cryptocurrencies as means of payment.
- Legislative reform to clearly distinguish deposits from loans.
- Gradual substitution of the central bank as a monopoly issuer, reducing its power to set interest rates artificially, etc.

The usual objections – such as the alleged lack of liquidity or the “rigidity” of the system – have been widely refuted in Austrian literature.¹⁰² Indeed, the existence of a system of genuine rather than fictitious saving is the only basis for a sustainable economy, as demonstrated by the Theory of Capital and Interest developed by Böhm-Bawerk¹⁰³ and later by Mises,¹⁰⁴ Hayek¹⁰⁵ and Rothbard.¹⁰⁶

The claim that a strict gold standard without demand deposits would restrict liquidity is contradicted by historical evidence. Between 1865 and 1900, the United States enjoyed strong growth alongside moderate, sustained deflation.¹⁰⁷ The gold standard maintained purchasing power and channelled credit toward productive uses, limiting speculation. In a system based solely on genuine loans, interest rates naturally coordinate saving and investment, ensuring that credit supply adjusts to real economic conditions. Thus, market forces, not central intervention, guarantee liquidity and stability.¹⁰⁸

This mechanism was described in pioneering fashion by Böhm-Bawerk¹⁰⁹ and subsequently developed by Wicksell,¹¹⁰ Mises¹¹¹ and Hayek,¹¹² who explained how the interest rate acts as the price that coordinates saving and investment decisions.

¹⁰⁰ Friedman and Schwartz (n 27); Rothbard, *A History of Money and Banking in the United States: The Colonial Era to World War II* (n 63); MD Bordo and AJ Schwartz, “Monetary Policy Regimes and Economic Performance: The Historical Record” (1999) 1, Part A Handbook of Macroeconomics 149; Bordo and Filardo (n 63).

¹⁰¹ White (n 7).

¹⁰² Böhm-Bawerk (n 103).

¹⁰³ K Wicksell, *Geldzins Und Güterpreise* (Jena: Fischer 1898).

¹⁰⁴ Mises (n 4).

¹⁰⁵ Hayek (n 4).

¹⁰⁶ Böhm-Bawerk (n 103); Hayek (n 4).

¹⁰⁷ Rothbard, *The Mystery of Banking* (n 2); Rothbard, *America’s Great Depression* (n 15); Huerta de Soto (n 1).

¹⁰⁸ Mises (n 4); Leoni (n 85).

¹⁰⁹ Menger (n 38).

¹¹⁰ C Martínez-Meseguer, *La Teoría Evolutiva de Las Instituciones* (Unión Editorial 2009).

¹¹¹ Rothbard, *America’s Great Depression* (n 15); Hülsmann (n 3).

¹¹² Bagus (n 26).

Furthermore, there would be the possibility of incorporating money with other standards – silver, platinum, etc. – as well as the creation of multiple means of exchange – non-monetary – which would facilitate transactions.

VII. Discussion: internal coherence, institutional robustness and scientific superiority of the Austrian paradigm

1. Internal coherence of Austrian analysis: theory of capital, of the cycle and of law

Austrian economic thought – from Menger, Böhm-Bawerk and Mises, to Hayek, Rothbard and Huerta de Soto – has always been characterised by its methodological, analytical and epistemological unity. Its approach to monetary and financial phenomena is articulated around:

- A solid theory of capital and of the temporal structure of production, which makes it possible to understand the intertemporal distortions caused by artificial credit expansion.¹¹³
- A theory of the business cycle (Austrian Business Cycle Theory), which is not an ad hoc construction, but a logical derivation from the interaction between saving, investment and interest rates.¹¹⁴
- A coherent defence of Natural Law and Private Law as the institutional framework of spontaneous order, where contracts must be respected in their form and substance, without privileges or exceptions.¹¹⁵

From this perspective, the current system of fractional reserve banking, sustained by central banks and backed by permissive legislation, represents both an epistemological and moral rupture, incompatible with the principle of individual responsibility and respect for private property.

2. Institutional robustness: spontaneous order, legal certainty and patrimonial responsibility

The Austrian paradigm does not propose a utopian or idealised system, but the restoration of an evolutionary institutional framework, in which money, contracts and financial institutions emerge from the free actions of individuals and not from political imposition.¹¹⁶

The core of this institutional proposal can be summarised in three fundamental principles:

- a) Separation between deposit and loan, guaranteeing the legal nature of each contract.
- b) Full patrimonial responsibility of financial institutions, eliminating bailouts, privileges and lenders of last resort.
- c) Freedom of monetary choice, breaking the central bank's monopoly and allowing competition between different monetary units.

¹¹³ Selgin (n 7).

¹¹⁴ Moore (n 29).

¹¹⁵ Hayek (n 4); Mises (n 4).

¹¹⁶ White (n 7).

These principles are not only consistent with the Western legal tradition but also align with the evolutionary theory of law and with contemporary developments of decentralised institutions.¹¹⁷

3. Scientific superiority: explanatory, predictive and normative capacity

In contrast with the dominant theory – Keynesian, monetarist or neoclassical – which has repeatedly failed to anticipate or explain financial crises, the Austrian paradigm possesses greater scientific capacity in three key dimensions:

- Explanatory: Austrian business cycle theory has accurately described the mechanism by which artificial credit expansion generates unsustainable booms followed by crises.
- Predictive: Authors such as Mises, Hayek or Huerta de Soto have theoretically anticipated the Great Depression, the stagflation of the 1970s, and the 2008 crisis, in contrast with the blindness of economic orthodoxy.
- Normative: The proposal of free banking with a 100% reserve requirement offers a robust normative framework, consistent with basic legal principles, without internal contradictions or arbitrary privileges.

The superiority of the Austrian paradigm is not based solely on its theoretical elegance, but on its logical consistency, legal rigour and profound respect for individual rights, which are the ultimate foundation of any truly free and stable economic system.

4. An ethical and politically viable proposal

Beyond its theoretical robustness, the Austrian model constitutes an ethical proposal, insofar as it rejects the coercive use of monetary and financial power by the State and privileged agents.¹¹⁸ In a context of growing distrust of public institutions, structural inflation, massive indebtedness and banking fragility, the idea of a transition towards a system of sound money, banking without privileges and fully respected contracts is not only desirable, but urgent.

The political and technical feasibility of this transition requires courage, well-designed gradualism, and an effort of institutional pedagogy. But the costs of maintaining the current system are already unsustainable, both in economic terms and in terms of democratic legitimacy.

VIII. Conclusions

This article has argued – combining insights from monetary theory, civil law and institutional philosophy – that fractional-reserve banking is conceptually inconsistent, economically unstable and legally indefensible. Attempts to justify it through notions such as demand loans, real bills or free banking fail to resolve – and often intensify – the system's structural flaws.

In legal terms, fractional reserves create a duplication of rights over the same capital, violating basic principles of private law. The confusion between irregular deposit and loan, sustained by regulatory complicity between banks and the State, has produced a hybrid contract imposed on citizens without genuine consent.

¹¹⁷ M Friedman, *A Program for Monetary Stability* (Fordham University Press 1960).

¹¹⁸ Lavoie (n 30).

From an economic perspective, credit expansion without prior saving distorts market signals, artificially lowers interest rates, and triggers recurrent boom–bust cycles. As Austrian theorists show, manipulating money and interest disrupts intertemporal coordination, generating deep imbalances.

For these reasons, the article calls for an institutional redefinition of money as a spontaneously evolved social institution composed of material goods with use and exchange value, freely accepted as payment. This distinction clarifies the difference between money, means of payment and means of exchange – revealing that fiat currencies, promissory notes, and cryptocurrencies lack the essential characteristics of true money, as they rest on coercion or speculation rather than intrinsic value.

Against this background, the so-called demand loan, even if formally valid, cannot ensure true instant availability of funds and thus rests on a legal fiction incompatible with accounting reality. Likewise, the proposal to issue money backed by real bills fails to solve the underlying problem: it still involves monetary creation without prior saving, preserving inflationary pressures and systemic fragility.¹¹⁹

In conclusion, the article advocates a banking model with 100% reserves on demand deposits, a strict legal separation between deposits and loan, and return to sound, freely chosen commodity money. Only such reform can restore a just, stable, and liberty respecting monetary order.

Competing interest. The authors have no conflicts of interest to declare.

¹¹⁹ C Menger, *Principles of Economics* (Ludwig von Mises Institute 2007).