



# Zurück in die Zukunft: Digitales Gold – Countdown für das Geld von morgen

Prof. Dr. Stefan Kooths

BiTS Berlin

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## Zur Person

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Prof. Dr. Stefan Kooths

Fachdozent für Volkswirtschaftslehre

Business and Information Technology School (BiTS), Berlin

Institut für Weltwirtschaft an der Universität Kiel

Stellv. Leiter des Prognose-Zentrums

[stefan.kooths@bits-hochschule.de](mailto:stefan.kooths@bits-hochschule.de)

[www.kooths.de](http://www.kooths.de)

# Institut für Weltwirtschaft an der Universität Kiel

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# Point of departure

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- **Monetary regimes in retrospect**

- » Series of upheavals escaping the high-frequency radar of “routine economics” (generations rather than decades)
- » No obvious tendency towards a steady-state

- **Global monetary system**

- » Key features
  - Debt-backed
  - Fractional-reserve system
  - State-owned central bank
- » Short episode in the history of finance (42 years only)
- » By no means “normal” or “natural”
- » Should not be taken for granted/permanent
- » Costly (money half-life: 35 years), fragile (financial crises)

# Money as a market phenomenon

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- **Money emerged by evolutionary learning**
  - » Enabling indirect exchange
  - » Dramatically widening the division of labor
- **Money = medium of exchange**
  - » Pre-monetary value (regression theorem, Mises 1912)
  - » Homogenous, permanent, reversibly divisible
  - ⇒ Precious metals emerged as best-suited candidates
- **Money is a product of the market**
  - » Private money production prior to state monopoly (Menger 1892), contrary to the “State theory of money” (Knapp 1921, Peacock 2013)
  - » Standardization reduce transaction cost even further
  - » Governments can act as standard setters for monetary units ...
  - » ... but historically acted primarily as counterfeiters

# Fractional-reserve banking (1/2)

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- **Legal privilege**

- » Granted to the banking industry only
- » Deposit vs. loan contracts (Huerta de Soto 2012)  
(safekeeping vs. temporary transfer of availability)
- » Borderline between liquidity provision (deposits) and capital provision (loans) becomes legally and economically indistinct
- » Car-park/car-rental analogy

- **Genuine banking**

- » Deposit services (100 percent reserve requirement) subject to charges
- » Credit intermediation (bringing savers and investors together)  
including risk assessment, volume (and maturity?) transformation

- BTW: “Dr. Econ” (Federal Reserve Bank of San Francisco)

- » Q: What is the economic function of a bank?
- » A: Intermediation of funds (money creation not even mentioned)

# Fractional-reserve banking (2/2)

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- **Macroeconomic consequences**

- » Credit and money creation out of thin air
- » Drives a wedge between ex ante saving and credit/investment
- » Non-neutrality of money (Cantillon effect)
- » Key mechanism in monetary business cycle theory (Hayek 1932)

- **Macroeconomic benefits?**

- » Two economies distinguished only by their quantities of money: Which one is better of? (Mints 1950)
- » Deflation – a case for monetary expansion? (Hülsmann 2008)
  - Deflation as a side-effect of crises (provoked by what?)
  - Deflation as the flip-side of increasing productivity
- » Commodity money: Cost reduction, freeing resources for final use (Wicksell 1935, Selgin 1988)
- » Fiat money: Risk transfer to private banks (but: moral hazard)



# Debt-backed money creation: Self-reference

- Money (means of payment) backed by ...
- ... securities (promises of future payments)





# Central banking

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- Possibility of banks-runs due to fractional-reserve banking
  - » Central bank as “Lender of Last Resort” for liquidity support only
  - » Solvent, but illiquid banks (Bagehot 1873)
  - ⇒ Creeping process of expanding role as LoLR (concept dilution)
- Collateral risks infect stability of payment systems
  - » Central bank as bail-out agency? ⇒ only seemingly
  - » Ring-fencing financial stability by central supervision?
  - ⇒ Promoting monocultures of risk assessment/regulatory overkill
- Technically unlimited money creation capacity
  - » But: Too much money is no money (hyperinflations)
  - » And: Financing illusion of the money press  
(monetization as implicit taxation)
  - ⇒ Technical feasibility ≠ economic effectiveness

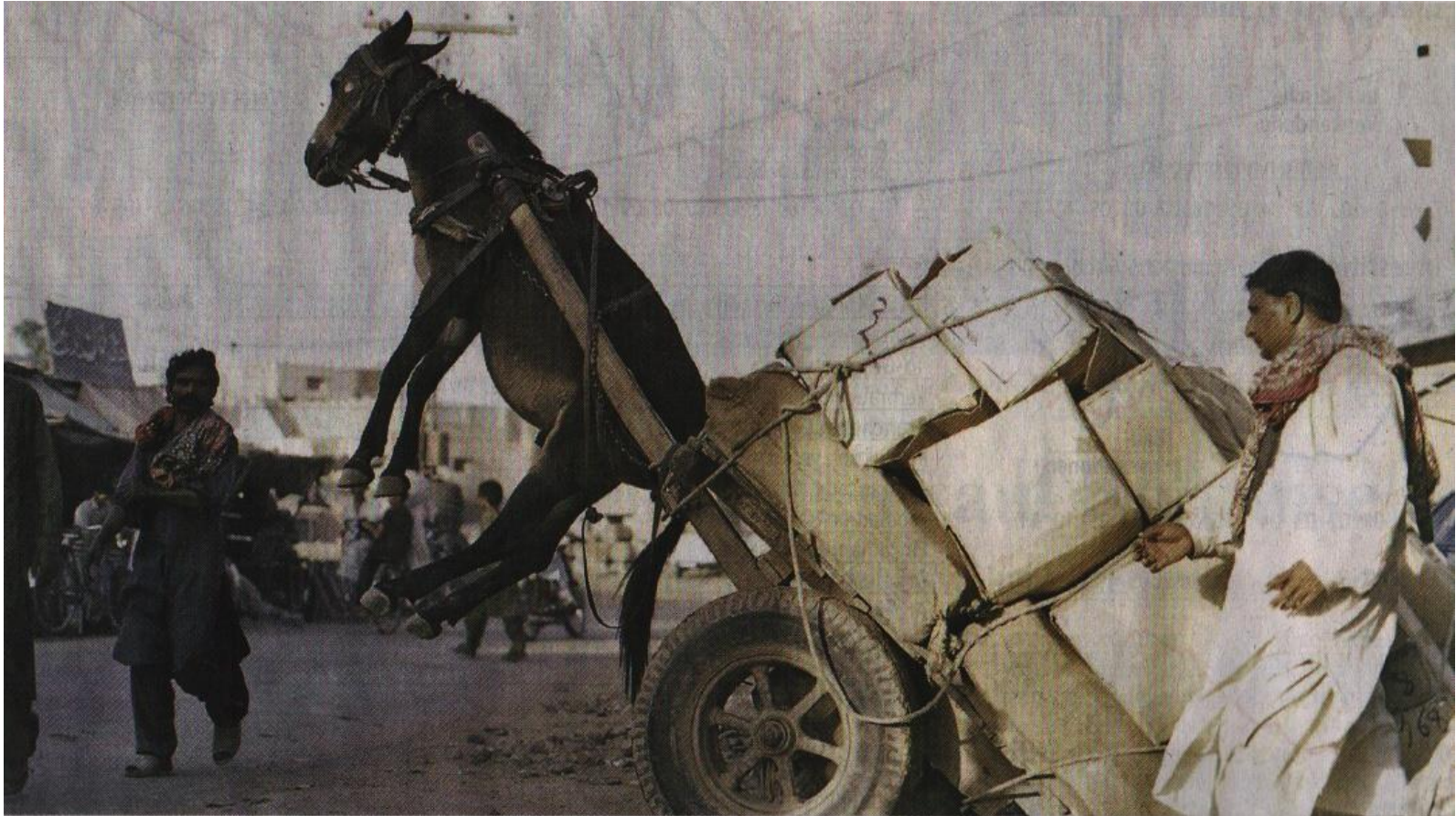
# Risk of overloading monetary policy

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- One instrument, multiple targets? (Tinbergen 1952)
  - Generic target: Provision of a means of exchange
  - Other targets: Government financing, debt-monetization, boosting employment, business-cycle stabilization, financial stability
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- ⇒ **Potential conflicts**
  - ⇒ **Room for excessive rent-seeking**
  - ⇒ **High risk of sacrificing the (most abstract, general) generic target for (more simplistic, partisan) non-generic targets**

# Monetary policy: Overloaded!

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Source: FAZ, 26. Oktober 2011, p. 11

# Foreseeable trends

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- **Unknown monetary territory**

- » World-wide (JP, USA, GB, EMU):  
drastically increased monetary base unseen in peacetime before
- » Threat of solving fiscal burdens at the expense of money users
- ⇒ Search for alternatives (demand side)

- **Technological trends**

- » Cash will disappear very soon (10 years?, 15 years?)
- » Enhanced electronic payments infrastructures
  - Internet-based services as a layer above traditional banking systems
  - Cash-like ubiquitous and permanently available virtual wallets (necessary for money as a network good)
  - Vast opportunities for data mining
- ⇒ Ability and incentives: new players (supply side)

- ⇒ **Potential demand and lower barriers-to-entry**

# The search for alternatives (1/2)

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- **Forthcoming situation**

- » Increasing potential demand for less costly medium of exchange
- » Full-fledged infrastructure for switching the reserve medium
- ⇒ Lower barriers-to-entry for private money production  
(back to the roots: denationalization/re-privatization of money)

- **What private money?**

- » Reserve medium: fiat money or commodity money
- » Pure cyber money (BitCoin etc.): contrary to regression theorem, no backstop, highly exposed to fraud due to incentives and intransparency
- » Virtual wallets make precious metals fully fungible
- » Come-back of gold (strong suck-in effects)
- » Free banking and reputation building: 100-percent-money?  
(maximum degree of transparency, ETF-like situation)
- ⇒ **Private money services as management of gold reserves**

# The search for alternatives (2/2)

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- **Transition process**

- » Gradual, not a 1-0-decision (experimental phase)
- » Remonetization of gold and the gold price: positive feedback loop
- » From the start a globally accepted means of payment
- » Reverse of Gresham's law (Thier's law) applies

- **Regulatory preconditions**

- » None, only full protection by existing civil laws (deposit laws)

- **Governmental response?**

- » Repeated prohibition of monetary gold (New Deal 2.0)?
- » Compulsory state-issued currency for public-private-payments?
- » Safe sites for the gold base of global money providers?

⇒ **Consequence: End of monetary policy**