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#### On the way to a digital retail payments ecosystem – drivers and inhibitors; Discussion

ECB-Bdl conference 30.11.-1.12.2017 Rome





### **Structure of my presentation**

- Ruth Wandhöfer: The future of digital retail payments in Europe: A role for central bank issued crypto cash?
- Monika Hartmann, Lola Hernandez, Mirjam Plooij and Quentin Vandeweyer: Are Instant Retail Payments Becoming the New Normal?
- Where do these two papers meet?



# A role for central bank issued crypto cash?

- Does the digital retail payments market need central bank issued crypto cash:
  - To support or counterbalance regional payment innovation
  - To counterbalance global decentralised cryptocurrencies
  - To maintain central bank independency and link to citizens OR
  - To enable for regulated payment industry to survive by providing settlement finality with central bank money?
- Forms of money as reference to crypto cash
  - History of cash, commodity money, private banknotes
  - Central bank money vs commercial bank money
  - E-money as full reserve commercial bank money
  - Bitcoin and relevant other schemes



## **Retail payments: regulation vs innovation**

- SEPA development
  - Credit transfers, direct debits, PSD1
  - Instant Payments
  - Pan-European std proxy look-up service for mobile instant payments
- Pressure on investment, reporting and compliance
- Payment card interchange fee caps
- PSD2 consequences for retail payments?
- Need and role for central bank money as retail payment instrument or as settlement mechanism in the future?



# Why and how?

- Central Bank Crypto-Currency (CBCC) motivation
  - IoT + IoM
  - Reduction of cash CBCC needed for stability and risk-free saving
  - Political motivations OR
  - New business models and global competition may require intervention by NCBs?
- CBCC proposal
  - Principles such as resemblance with paper cash
  - Some solutions as permissioned distributed ledger
  - Identification of some key features such as free exchange between account money and cash, value based vs account based models, anonymity vs privatepublic key solutions



### **Discussion**

- The paper complements rapidly emerging litterature on digital cash
- Different aspects of digital cash are well identified
- Motivation for CBCC remains vague:
  - NCB to compensate for reduced use of cash?
  - Counterbalance global competition due to PSD2?
- Relevant topics but many loose ends:
  - Table 1 inconsistent in some points (eg fiat money vs central bank money, account vs payment instrument
  - Usage, cost, beviour, role of cash, **IoM** not reflected in CBCC analysis
  - Regulation well covered but not prioritized role of PSD2?
  - Drivers for ncbs, banks, policy makers?
  - EU digital agenda?



### **General remarks**

- Structure of the paper
  - Narrower scope would have been beneficial
  - Litterature review prior to Research Question?
  - No clear link between "best of breed" in Table 1 and Chapter 5
  - Chapter 5 should be divided
- Litterature review disproportional
  - Cash discussed widely, CBDC hardly at all no link between phenomena
  - Research areas/aspects of phenomena mentioned should also be defined, eg. references to usage and behavioral research but no analysis/summary of existing knowledge
- CBCC as first step to facilitate DLT based settlement
  - Why this step needed? Jasper and Ubin go straight to the point.



# Are Instant Retail Payments Becoming the New Normal?

- Based on litterature and existing country cases the paper aims to assess prospects for a successful European real-time payment system
- Based on litterature, 7 hypotheses developed:
  - Role of authorities
  - Market fragmentation
  - Distance to existing systems
  - Fees
  - Complementary technologies
  - E-services inclusion
  - Consumer characteristics



# Main drivers for a European Instant Payment System

- Supply side: competition
  - to keep up with new players
  - PSD2 potential impact
- Demand side: complementary technology
  - Future is mobile
  - High penetration of mobile internet and electronic payments in general
- Strong catalyst role of authorities
  - Regulation
  - Facilitator
- Fee-sensitivity



#### **Discussion**

- Role of authorities seems crucial
- Country analysis:
  - Instant payments may substitute cheques, cash, credit transfers or card payments
  - UK case cheques -> direct debits or individual internet banking credit transfers to instant payments by default
  - Numerous "invisible" cash transactions may become visible by merging to mobile instant payments?
  - Increase in ad hoc payments when mobile instant payment more readily available than cash?
- Country examples mainly 4-corner models
  - Does the business model have an impact?



### Areas of further analysis

- Role of corporate payments may become bigger than anticipated?
- Fee sensitivity in two-sided markets
  - Merchant side needs to be taken into account as well
- Complementary technology
  - Before the pan-European proxy look-up directory how much use will there be?
- Several infrastructures may provide enhanced competition and contingency?
  - Does SCT-standard limit innovation in instant payments?
  - ISO20022 in mobile?



### Where do these two papers meet?

- Central banks' role in facilitating payment systems
  - ECB paper has good analysis why and how it may be provided
  - Wandhöfer sees ncb contribution important to maintain role of central bank money and to support regulated payment industry in settlement finality (blockchain, other?)
- Is it so that industry underserves network service such as payments and should we take basic payment services as utility?
  - Investment intensity
  - Economies of scale
- In spite of all central bank involvement, do we still need more?



# **Key questions for central banks**

- Big changes in payments markets ahead
  - Technology driven innovation
    - Who is finaly doing the innovation and who wins?
  - Regulation driven innovation
    - PSD2 may turn out to be double edged sword
  - How to maintain secure and efficient payment systems
- Contingency
  - System specific or by heterogeneous infrastructures?
  - Cyber risks role of central bank money increases?



# Thank you for your attention