Discussion of

"CBDC and Payment Platform Competition" by Y. Liu, E. Reshidi, and F. Rivadeneyra

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What they do

- Lack of competition among payment platforms
 - excessively high intercharge fees
 - \Rightarrow **Q.** How does adding a CBDC change the equilibrium outcomes?
- Model: Two-sided platform model
 - consumers and merchants choose platform(s)
 - sources of distortion: market power and network effects
 - \Rightarrow platforms set excessive high fees without CBDC
- Result: adding a benevolent CBDC platform lowers market power but ambiguously affects network distortion
 - fees on consumers \downarrow but on merchants \uparrow or \downarrow
 - net effect: welfare-enhancing
- CBDC pricing: enhanced competition versus platform network effect
 - the network benefit of the private platform has to be utilized

Comment #1: Welfare improvement

An issue in the current payment system

- credit card companies charge high intercharge fees
 - \Rightarrow merchants transfer the costs to the retail prices
 - \Rightarrow transfers from low-income consumers to high-income consumers
- \bullet The result (w/ CBDC): platform may set a higher fee on merchants
 - merchants may transfer the costs to the retail prices
 - \Rightarrow undermining the consumer welfare
- Will a CBDC platform still improve welfare when such pricing behavior is considered?

Comment #2: Regulations

- This paper studies the effect of introducing a CBDC on the inefficiencies in the payment system
 - adding a CBDC does not achieve the first-best
- Is a CBDC the right tool to mitigate the inefficiencies?
 - alternative approaches: cap on intercharge fees, prohibition of no surcharge rule, etc
 - "… interventions were initiated and executed based on partial analysis ignoring the two-sided nature of the industry"
- The necessity of CBDC would be stronger if ...
 - either policy alone does not achieve the FB, and
 - correcting the inefficiencies requires both a CBDC and a regulation

Comment #3: Central bank resources

- A CBDC platform transfers funds from/to the central bank
 - whether it works as a subsidy or tax depends on parameters
- Subsidy: where does the fund come from?
 - The paper: the CB has a large endowment
 - Reality: some costs \Rightarrow sustainable?
- Who is the bank subsidizing or taxing?
 - what types of economic agents are likely to use CBDC?
 - might some heterogeneity of agents create opposing results?

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Additional remarks

• Comment #4: fees on merchants may rise (surprising) - intuition?

- is the private platform taking advantage of "loyal" customers?
- by losing market power, the platform anticipates much fewer customers?
- <u>Comment #5</u>: are results robust to other eq'm selection methods?
 - sunspot, refinement, robust-control (min-max), etc...

Interesting paper!

- nice application of two-sided market models to CBDC
- promising framework to think of the payment platform competition