















Overview

The payment revolution

- > Haven't payments been finance + technology for decades?
- > Yes, but a new wave of FinTech is disrupting the established paradigm.
- The impacts are wide-ranging but to give some order to this overview, will be discussed under three categories related to how we make payments:
 - Payment using notes and coins;
 - Payment by direction to a bank or another type of account holder or trusted third party;

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- Payment using payment cards.
- > Bank disintermediation peer-to-peer lending.

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Payment using notes and coins **Two FinTech effects** Elimination of the use of notes and coins in face-to-face transactions. \geq Creation of new digital currencies with the advantages of cash and more. Cash advantages and disadvantages: Requires no third party trust, free to transfer, but... Requires holding of units in physical form (expensive and insecure), no audit trail, can be copied (though not easily), cannot be transferred at a distance. Digital currency issues: No value-backing - compare "fiat" currencies; not a store of value; Capable of being copied if encryption broken? Capable of being destroyed by cyber attack? Costs of transfer and environmental impact? No audit trail - regulatory concern. • Possible developments: State-issued digital currency; Value-backed digital currency. • Bird & Bird © Bird & Bird LLP 2016











Payment using payment cards – impact of FinTech changes New providers – e.g. Square, iZettle, Stripe; adding value: Acceptance of smaller merchants (enhanced credit risk analysis);

- Simpler gateway technology for online payments (Stripe's USP);
- Better transaction data provided by gateway;
- Lower cost solutions (?);
- Link to credit provision bundled services to customer.
- Card scheme disintermediation Seamless, Zapp; payment initiation services.
- > Customer intermediation and ownership:
 - Apple Pay, Samsung Pay and Android Pay;
 - Wallets which rely on other provider cards (e.g. PayPal);
- New payment intermediaries e.g. portals (Amazon) and specific service platforms (e.g. Uber).

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Disaggregation of the technology supply chain

- Fewer large deals, more small contracts, but contract value is a poor measure of risk/importance
- Clients have increased internal expertise on sourcing but maintaining a lead on understanding of disruptive technologies and market trends is a challenge (as it becomes harder to keep up)
- FinTech innovations become more easily deployed in an environment with a focus on sourcing and innovation, rather than contract and service management

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- Blockchain technology
- Open source
- Blockchain 2.0
- "Permissioned" blockchain
- Smart contracts
- R3 consortium
- Ethereum
- Challenges

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