

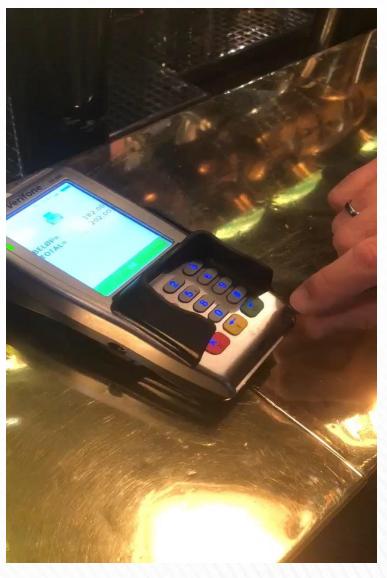


Zwipe
A technology company at the heart of the next wave of innovation in payments

Den store selskapskvelden – SMB 2019 Oslo, 4 June 2019 André Løvestam, CEO

This is how it works - everywhere





Dubliner Pub, Oslo 10 October 2018

How our eco-system operates



Upstream Vendors

Provide components & manufacturing services as specified by **Technology Providers**

> Fingerprint Sensor manufacturers

Flectronics manufacturers

Electrical Components **Providers**

Technology Providers

Integrate components & provide card manufacturers with an inlay to integrate into card body form factor



A systems integrator with extensive intellectual property

Card Manufacturers

Integrate inlay provided by Technology Providers and supply banks with final live cards for piloting

World's largest





Other Manufacturers











SILDNE

Banks & Issuers

Request cards for piloting, after successful pilots confirm orders for issuing to end customers

Bank of Cyprus



INTESA SANPAOLO





Card Networks

Certify final card once received from card manufacturers







With a mission of "Making Convenience Secure", Zwipe is at the forefront of battery-less biometric authentication

First-mover

With industry-leading technology platform for biometric payment cards, launching world's first pilots. 12 of 17 pilots announced in 2018 featured Zwipe technology.

User experience focused

Simple, frictionless and secure UX with no batteries or fixed power supply necessary with intuitive at home user onboarding

Strong market momentum

Growing commitment from leading industry stakeholders. Zwipe is partnering with world leading industry partners such as Gemalto, Goldpac, Thomas Greg & Sons, Tag Systems, as well as VISA and Mastercard.







Our core technology is at the heart of secure convenience

Zwipe's technology solution enables battery-less, contactless, ultra-low power, self-contained biometric authentication solutions in constrained environments

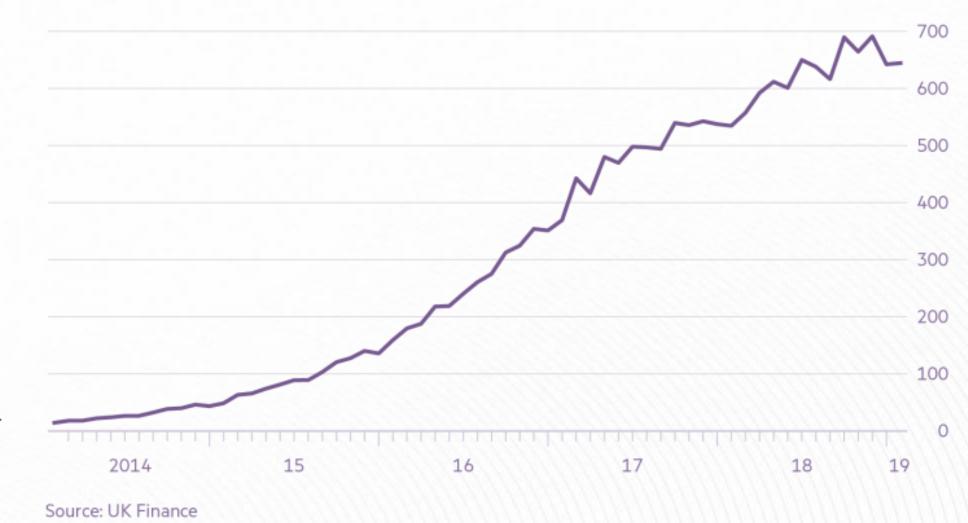
Zwipe has a strong IP portfolio covering 31 patent families, of which 8 are granted.

The rise of contactless cards

© FT

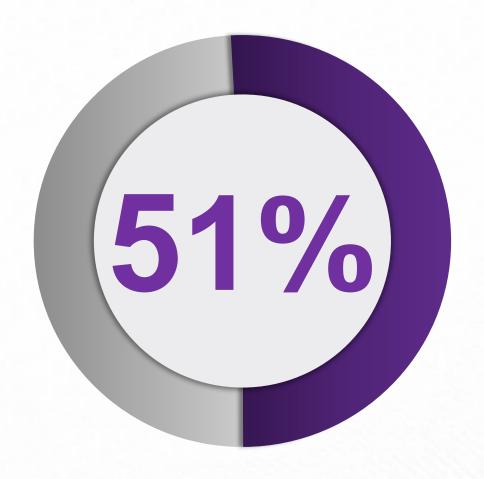


Mature markets like the UK provide an indicative sample of what is quickly becoming a global trend



Number of UK contactless transactions per month (m)





Are very or extremely concerned about fraud on contactless cards

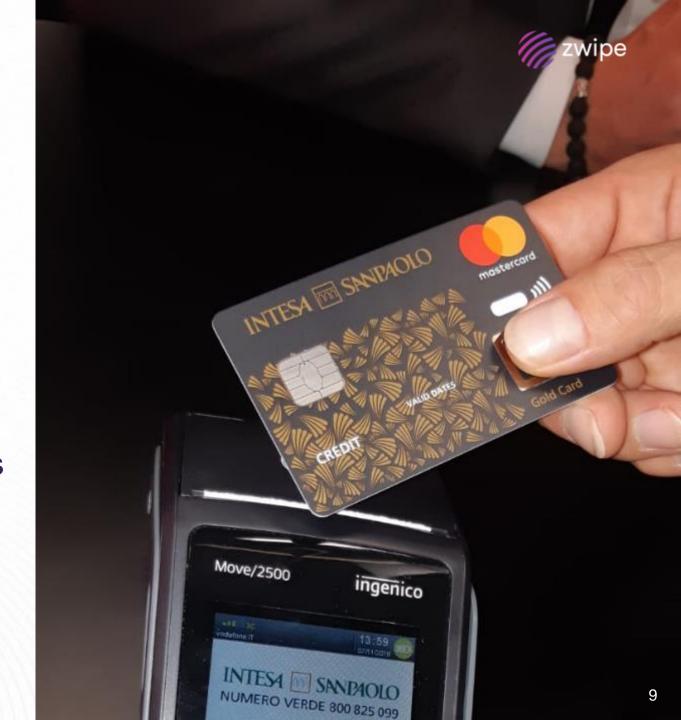


Global card expenditure to reach 45 trillion USD by 2023 on back of contactless payments



Biometric authentication is fast becoming a necessity for all devices

...especially for banking and payments



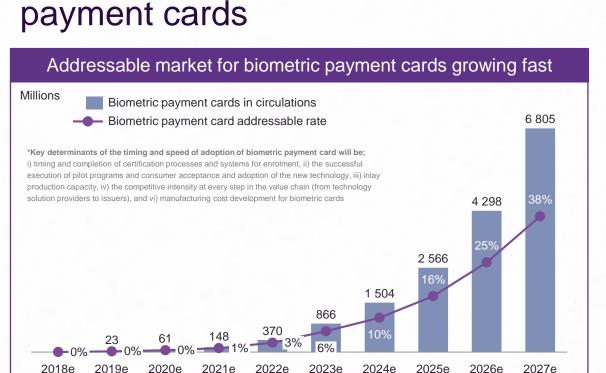
Biometrics perceived as delivering superior security





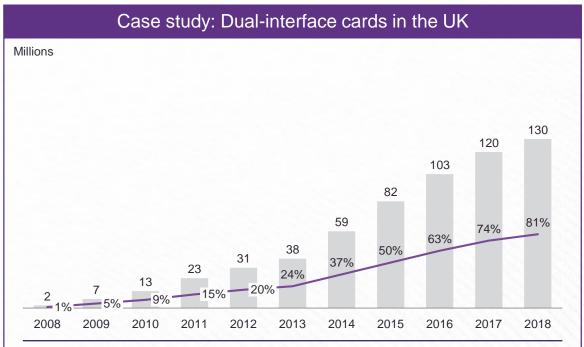
Growth in contactless drives demand for dual-interface biometric





Demand from different key players in the payments eco system expected to trigger exponential adoption of biometric sensors on payment cards:

- Biometric authentication technology already validated and accepted by the mass market due to smart phones
- Card issuers looking for new ways to differentiate and meet evolving consumer expectations
- Governments and regulators promoting use of biometric solutions to minimise fraud and identity issues
- VISA & Mastercard industry mandate that all POS terminals must accept contactless payments by 2020 in Europe



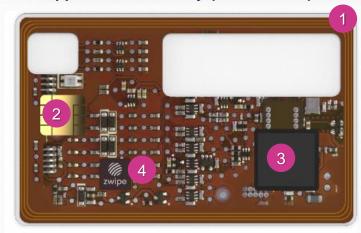
- Gradual adoption due to latent demand and lack of NFC compatible POS terminals
 - i.e. consumers did not know or were unaware of their preferences until they got used to contactless ("tap and pay")
 - Today, over 2/3 of payment terminals in stores are compatible with NFC

Transition to an integrated circuits and system provider



Current inlay

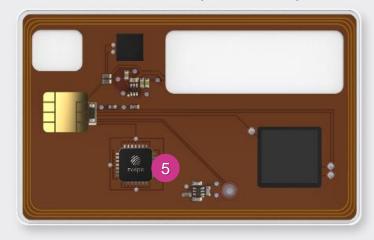
approx. 15 USD/inlay (excl. sensor)



- Energy harvesting inlay design and IP
- Fingerprint Sensor and protective bezel
- Biometric interface integration into EMV chip
- Ultra-low power biometric
 MCU with proprietary
 firmware and algorithm

Generation Nxt: Redesigned inlay

Below 10 USD (excl. sensor)



Zwipe to sell integrated circuit/system bundles (ASIC and MCU with proprietary firmware) to manufacturers of biometric payment cards and wearables

2020

Components Below 4 USD





Zwipe to transition to selling embedded integrated circuits and licensing intellectual property

2021

2019

Key medium term financial aspirations





Revenue

Annualised revenue of USD 125 million (NOK 1 billion)

2

Volume

Annual sales of 20-40 million embedded systems for dual-interface biometric cards, with expectations to reach cash-flow break-even at these volumes



Price

Average sales price in the range of USD 3-4 per unit at full volume

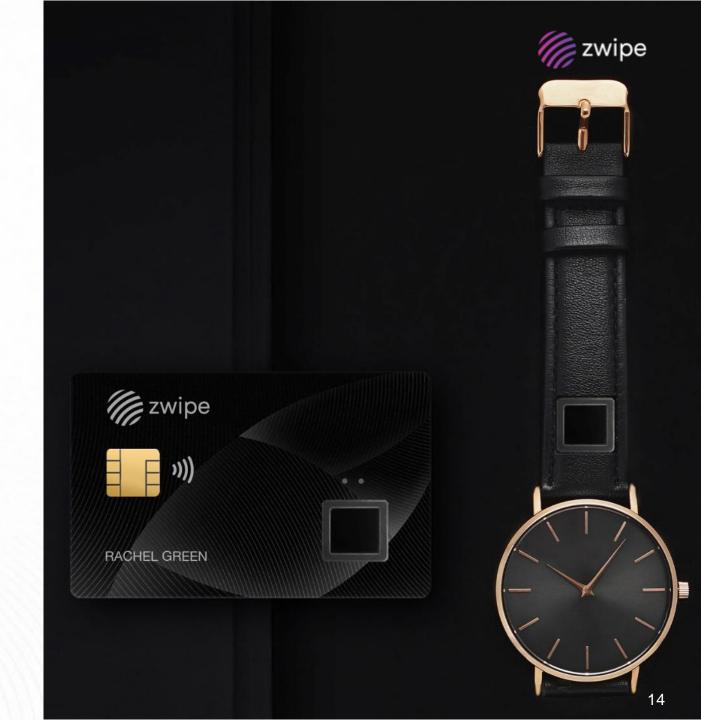


Market position

No.1 in the market for dual-interface biometric payments with 30% market share

Not only Payment cards...

Zwipe is partnering with Tappy Technologies to jointly develop and launch biometric enabled wearables as well





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