Cyber Security and Biometrics

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CYBER SECURITY AND BIOMETRICS

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A world at unrest

- Border controls
- Immigrations
- Terrorism
- Financial exclusion
Consumers are concerned about security

- Remember multiple passwords and PINs
- Want convenience yet security

“I hate passwords!”*

“I have the same 4 digit PIN code that I had since I was 17”*

“What if they crack your password?”*

“They can skim your card online, it’s cyber crime. But they (banks/government) have other things to deal with so don’t care.”*

*Fingerprints™ market research 2017 (UK, USA, IN, CN) - Kantar TNS
More and more connected

- Biometrics for fast unlock
- Payment
- Cloud
- Security and convenience

MARKET OPPORTUNITY

Source: Fingerprint Cards estimates on device shipments based on various industry sources.
*Size indication of card donut only representing smartcards.
15 B units represent both smart and "non-smart" cards not including SIM, phone or Pay-TV.
THE WEAKES LINK
To consumers convenience always wins, as long as it is secure enough

**CONVENIENCE**
- Faster
- Simple to decode
- More eyes/hands free
- Personalized
- Adaptable to minor change
- Easy to duplicate
- Sample easily collectable
- Open to public/sharable

**SECURITY**
- Slower
- Complicate to decode
- More effort
- Unique owned
- High precision required
- Difficult to duplicate
- Difficult to collect sample
- Private/exclusive

Source: Fingerprints™ market research 2017 (UK, USA, IN, CN) - Kantar TNS
Biometrics moving from unlock to pay… and beyond

First Era
- Proven viability at scale
  - Single platform
  - Single use case

Second Era
- Use case expansion
  - High trust use cases on mobile
  - Second modality emerges
  - Biometric Smart Card first developments

Third Era
- Broad-based adoption
  - Multiple platforms
  - Sensor fusion
  - Combined device experiences

Market experiments
- 2014-2016
- 2017-2018
- 2019-2025

Ubiquity
- Consumer
- Convenience
- Security
- Trust

Today

PHASES
BIOMETRICS WILL MAKE IT SAFER TO BE CONNECTED
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VIP Cocktail Reception & Dinner

All attendees are invited to join us for our VIP Dinner at BMW World hosted by Mentor Graphics.

Please proceed to the front lobby of the Sofitel where buses are waiting.