

Biometrics in banking in practice

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Gemalto - leader in biometric security

Government Passport and ID Issuing



Bank **KYC / Document Verification**



Government Border control

















Bank Remote onboarding







Bank **Authentication / Payment**



























































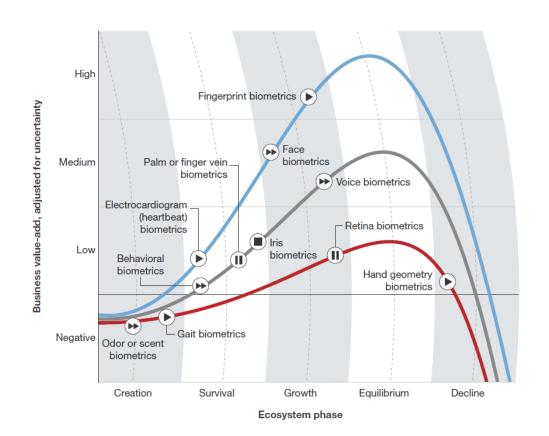


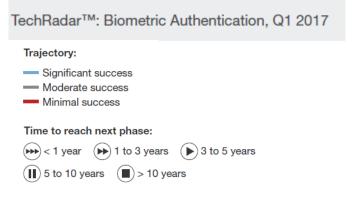




Current state of Biometrics and trends

Biometric Authentication - TechRadar







Insights on how to successfully deploy biometrics

Customer cases of Biometrics deployment

Nordea Bank - Authentication

Nordea

- X Mobile Banking
 - × Authentication & Signatures
 - ★ Out-of-band Signatures
- Strong Customer Authentication using FingerPrint or PIN
- Deployed in Finland and Baltics.
 Other countries in progress
- ➤ Using Gemalto Ezio









Identity Verification in branch (KYC)



The need: Strengthen identity verification procedures in-branch to:

- > Reduce identity fraud at subscription time
- Comply with AML regulations
- ➤ Automate and digitalize customer onboarding processes

Gemalto selected after an 18-month pilot 1000 workstations deployed



John goes to a branch to open a new account in Rabobank.



He is advised by a sales person. Together, they select the right product for him.



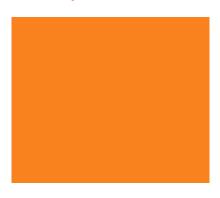
The vendor scans his Identity document using a dedicated scanner.



In a few seconds, John's ID is verified, and his information is automatically input in the CRM!



Identity Verification in a large bank in France (Remote KYC)



The need: Mainly through its personal loan activities, the bank is experiencing a **high level of identity fraud** with a limited time to make a sale.

- Strengthening their identity verification processes is a must: ID fraud represents a significant credit line loss as well as a legal and image risk.
- The main use case is in-branch verification, but online verification will also be implemented!



Alice wants to use the services of Bank A. She goes to a branch, is advised by a vendor, and selects the service.





Using his tablet, the vendor takes a picture of Alice's ID card.





Then the vendor verifies that Alice is the right person (no facial recognition).



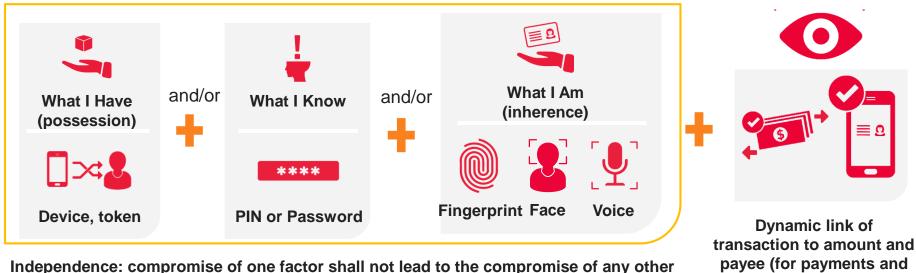
Alice's identity is validated in less than a minute, and she can start using the service.

PSD2 and Biometrics

Reduce risk and increase convenience

About Strong Customer Authentication and Dynamic Linking

PSD2, Art.97



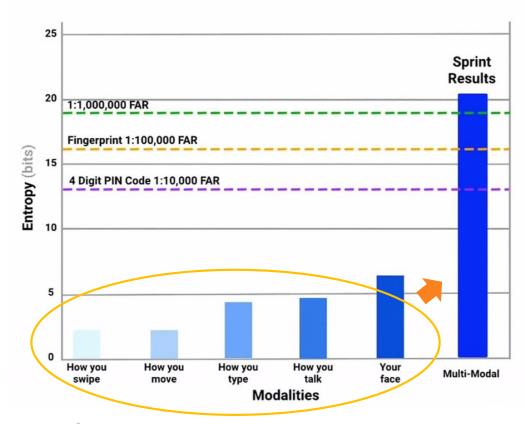
RTS: Article 4 - "the authentication based on two or more elements categorized as knowledge, possession and inherence shall result in the generation of an authentication code."



money transfers)

Multimodal security

- Multimodal security "Applying more than one security control or countermeasure"
- By combining several biometric and other factors we achieve a security that is significantly higher than each individual factor

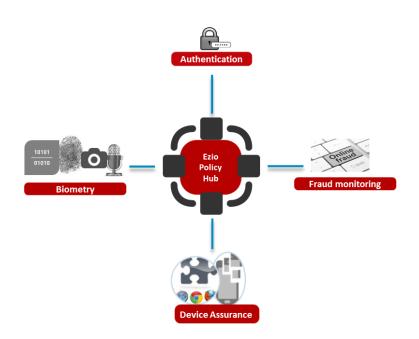


Google - Project abacus (Sprint result is a the combined entropy of the modalities)



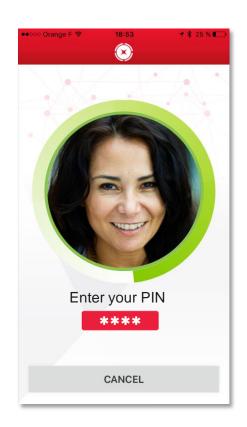
Multimodal security hub

- Aggregate all user assurance modalities, including authentication, device assurance, and Fraud Monitoring
- Allows bank to balance usability and security based on risk and context
- Reduce friction by using multimodal decision policy

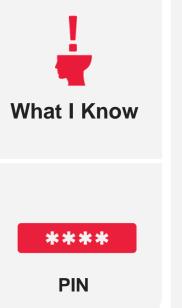


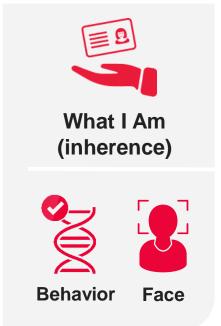


Example of multimodal authentication

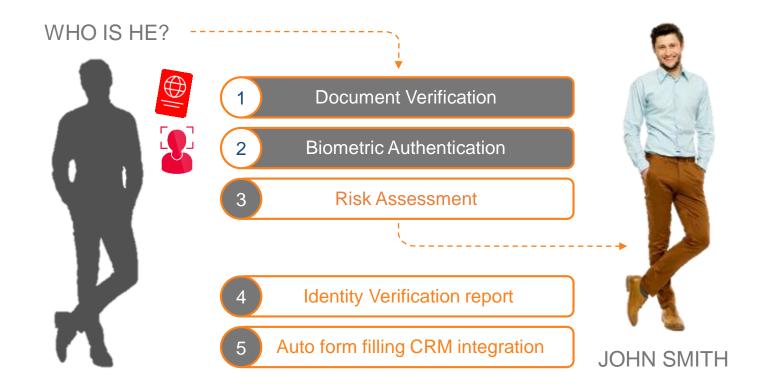






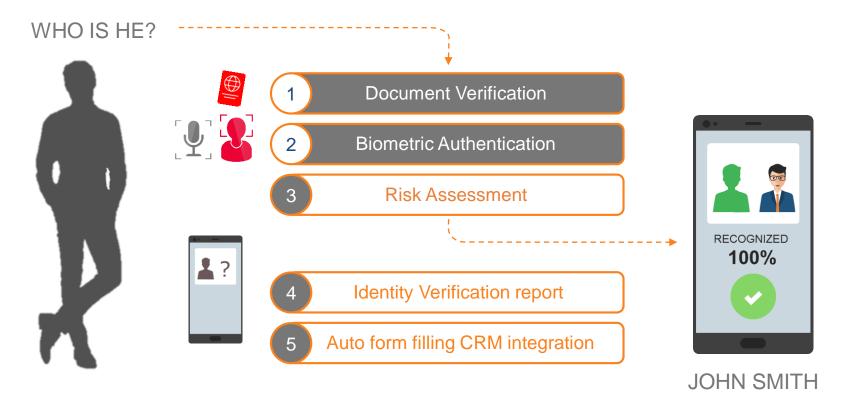


KYC / Document and Identity Verification





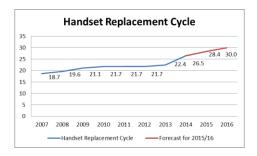
Mobile Device Activation

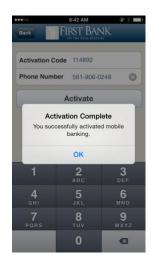




Mobile Device Activation

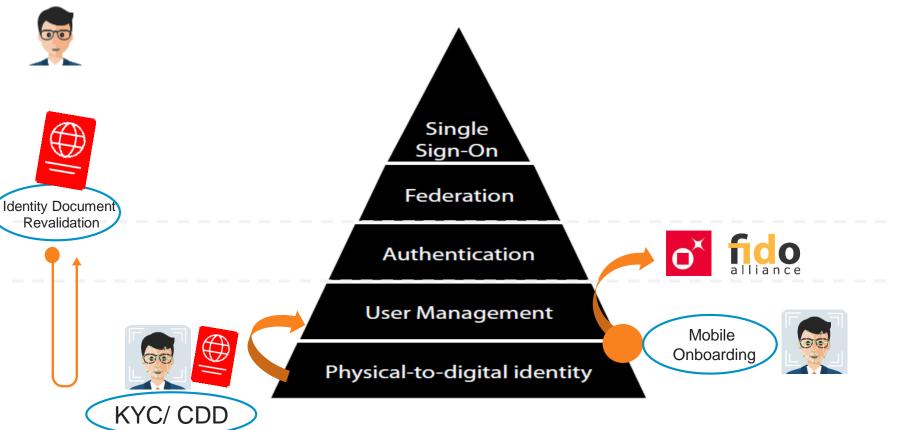
- X Handset replacement cycle is around 18-24 month
- Each time a customer gets a new handset, he need to activate the device for use for banking services
- × Example:
 - X A bank with 1 million customers
 - Customer buys in average a new device every 2 years
 - × >40K Mobile Device Activation per month
- Takeaway: It needs to be convenient







Biometric in the IAM pyramid



A layered approach for PSD2 Compliance





Conclusion and suggestions

Biometric is about convenience, let user chose, and keep fall back options







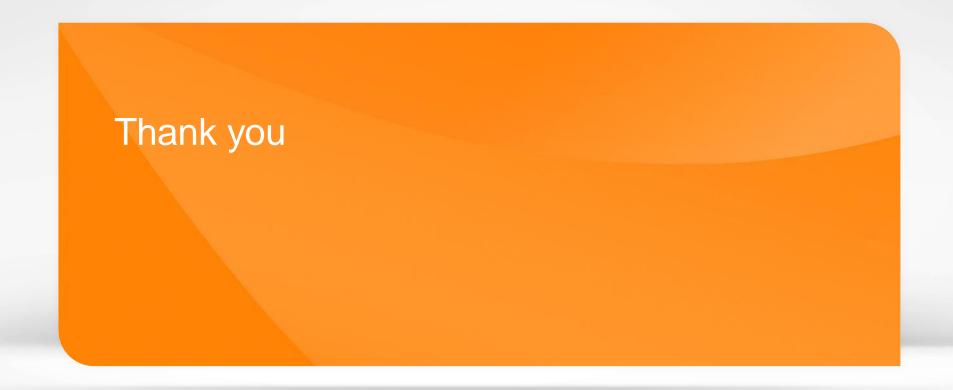
- Balance usability and risk by combining multimodal biometrics with security to reduce friction and fraud
- Make sure it's easy to onboard customers and their devices
- Make sure you partner with a solution provider that can help you with all these aspects. Gemalto is here for you













Thanks

