



The evolving landscape of high security authentication Janne Jutila, Head of Commercial & Government, GSMA

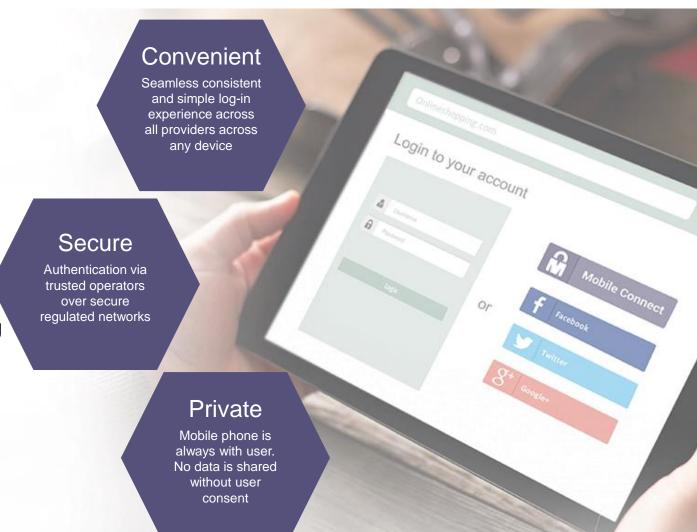


## Mobile Connect – secure access to digital services



- A mobile operator authentication, authorization, identity and attributes service
- Providing convenient and secure access to online services and reducing user friction
- Service can be accessed with any device mobile, tablet, pc and voice call
- Authentication always with mobile phone combining mobile number, and "click OK" or "enter PIN"







# **Use Case Examples Commerce, government and corporate**













#### **E-commerce**

- Low friction check- Connecting offline in / check-out
- Phone number share
- Sign-up (form fill attributes)

### Retail

and online in an

industry such as

"click & collect"

omni-channel

- Travel
  - Secure log-in •
  - Mobile for e-
  - ticketing
  - Sign-up for loyalty schemes

#### Banking

- Online/mobile banking/AIS log-in
- Transaction authorization
- Fraud management (account protection, KYC match)

#### **Government:**

- Public services • log-in
- Activity / feedback authorization
- Healthcare
- Security

#### **Corporate use-cases:**

- Corporate systems log-in (VPN, intranet & extranet etc.)
- Manager approvals • on mobile (originated from HR, SAP etc. systems)

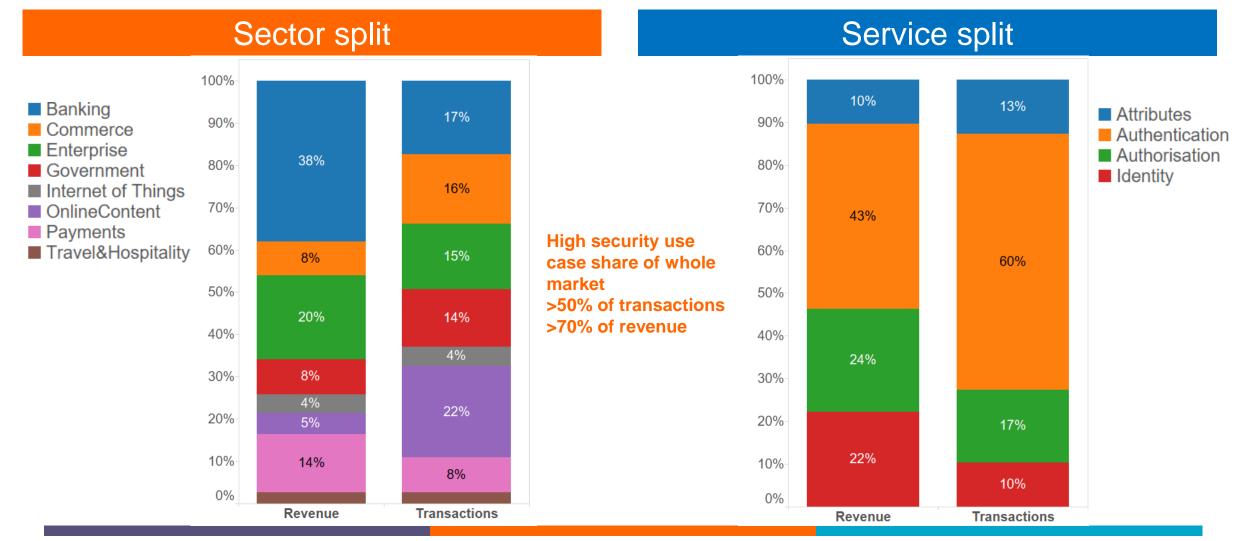
#### Personal Data - Mobile Connect

### **M** mobile Connect High security authentication

- Transaction risk and/or regulation demanding high security identity & authentication
- Currently typically UN-PW + OTP often SMS-OTP or OTP generator/security token
- Challenges with existing solutions poor user experience, security, high cost, distribution challenges
- Market demand for convenient, new solutions for high security (2-factor) authentication
- Mobile phone emerging as preferred "something I have"
- PIN-code as "something I know" alternatively biometrics as "something I am"



High security use cases likely to be >50% of overall market in 2020 Source: GSMAi Market sizing Q4 2016 Release – authentication, identity and operator attributes



High security use cases approximation = government, banking, payment, 50% of commerce & enterprise

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mobile connect

Regulation is shaping the market in next few years

- European Union is advancing EU digital single market by introducing eIDAS regulation
  - Impacts domestic identity & trust services markets also
- Payment Services Directive 2 (PSD2) and EBA Regulatory Techinical Standards
  - Mandatory 2-factor authentication in financial use cases and payments within EU
- General Data Protection Regulation (GDPR)
  - Mandatory notification and penalties for data breaches
- Anti Money Laundering Directive 4 (AMLD4)
  - Customer verification (KYC)
- SIM registration becoming mandatory across many countries
- NIST guidelines to phase out one-time-passwords, including SMS-OTP, in US