## **3<sup>RD</sup> QUARTER 2018 PRESENTATION**

CEO, Stan Swearingen CFO, Henrik Knudtzon

Oslo, Norway, 8 November 2018



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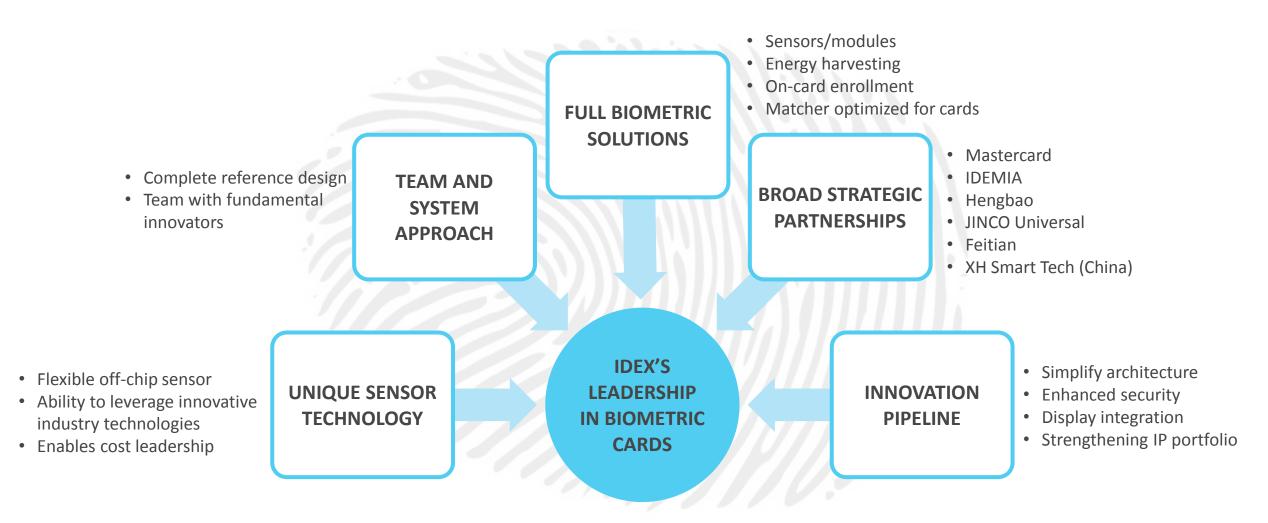


#### **BIOMETRIC CARD MARKET AT INFLECTION POINT**





## **IDEX'S LEADERSHIP IN BIOMETRIC CARDS**





# RECENT HIGHLIGHTS VALIDATING IDEX LEADERSHIP POSITION IN THE BIOMETRIC CARD MARKET





### **IDEX WITH LANDMARK FIRST ORDER**



- IDEX announced world's first production order of biometric fingerprint sensors for payment cards
- IDEX commenced shipping against the order in Q3
- The customer is a major global card integrator
- Additional orders expected



## MARKET INFLECTION DRIVING EXPANDED OPPORTUNITY PIPELINE

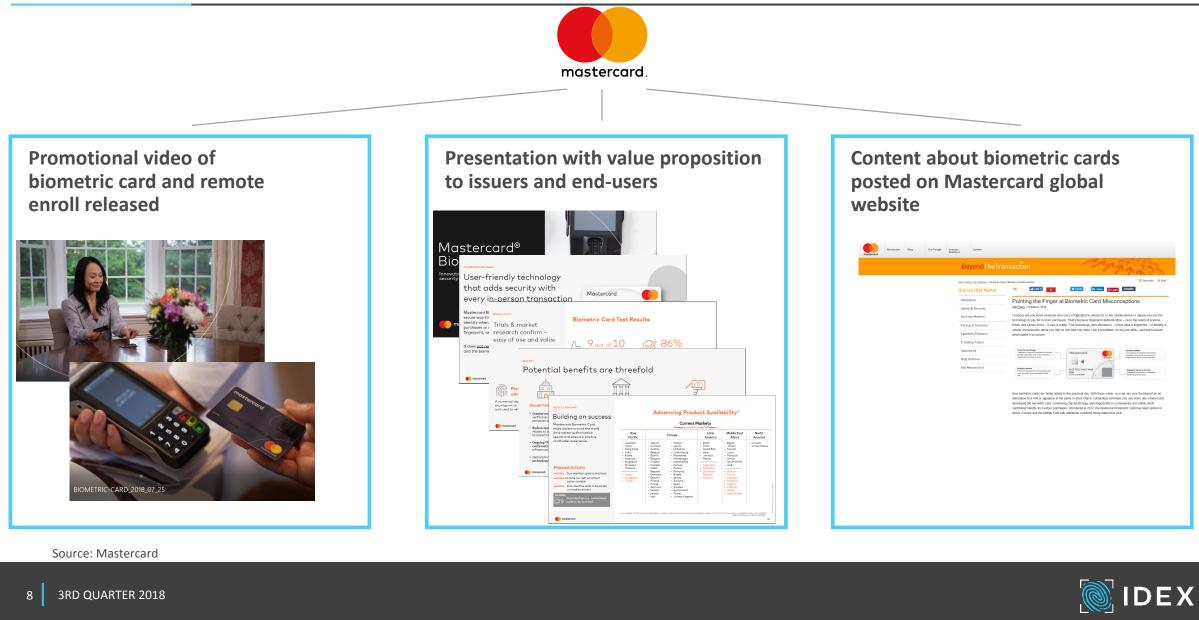
#### **IDEX customer pipeline growing significantly** Number of active opportunities



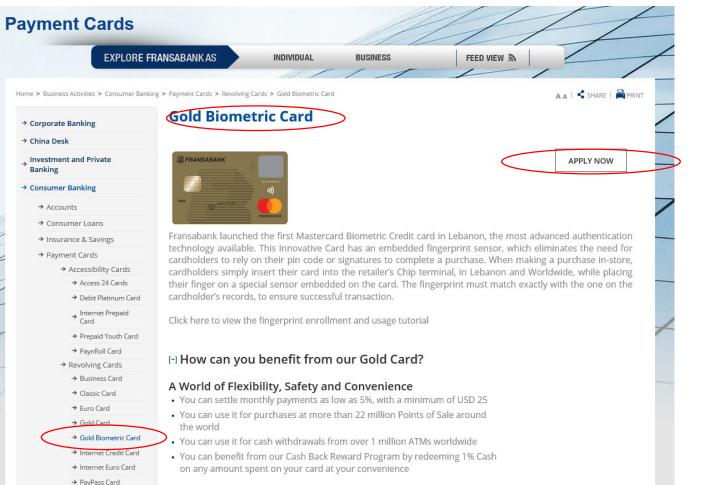
- Strong interest globally from integrators, card schemes and issuers
- Broad market interest from multiple verticals, including payment, ID, access control and other
- High confidence in ability to convert leads to orders



## IDEX'S STRATEGIC PARTNER MASTERCARD DRIVING COMMERCIALIZATION OF BIOMETRIC CARDS



### FRANSABANK IN LEBONON LAUNCHED BIOMETRIC CARD TO CUSTOMERS

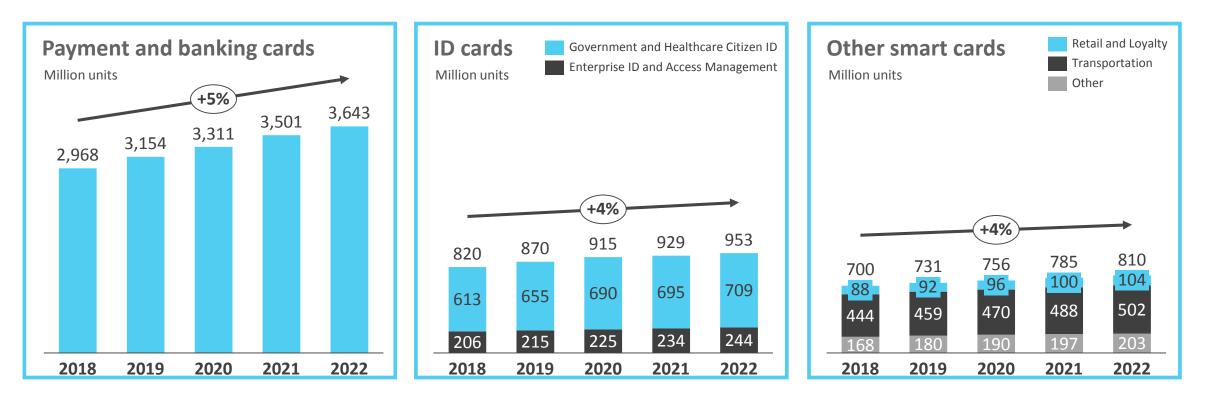




#### Source: Fransabank



## **BIOMETRIC CARD MARKET EXPECTED TO GROW TO HUNDRES OF MILLIONS OF UNITS**



«...By 2023, nearly 579 million biometric payment cards will be used globally to enable frictionless customer authentication for higher-value contactless transactions..."

Goode Intelligence

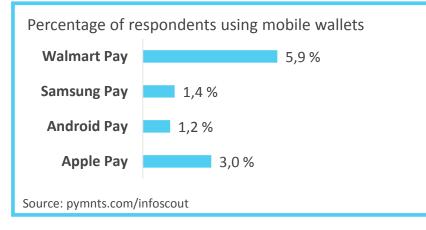
Source: ABI Research Smart Card Technologies; Goode Intelligence; Adoption of biometrics in mobile devices by Esmeralda Kadëna and Lourdes Rui



## **BIOMETRIC CARDS WITH STRONG VALUE PROPOSITION**

1234 5678 9012 3456

#### Low penetration of mobile payments



High growth of cards in China with high adoption of mobile payments

*"… Year-on-year growth of issued cards in China at 9.3% in 2017…"* 

Source: China Union Pay – Report on the Development of China's Bank Card Industry

#### **Drivers of biometric card payments**

- Convenience
  - No cap on value/number of transactions
  - No battery
  - Always available no PIN to remember
  - Card payments are habituated

#### • Security

- Biometric card not connected
- Biometrics increase security level
- Other
  - Card is banks' last physical link to customers
  - Improved customer confidence in security leads to greater spending
  - Biometrics is differentiating value add feature



- Dynamic CVC addressing both card-present and card-not-present fraud
- Sensitive data never leaves the card when enrolling or verifying
- End-to-end encryption ensuring data integrity
- Matching in the Secure Element
- Secure at home/remote enrollment





"...Simplifying the registration process will help speed adoption of biometrics by issuers and consumers alike ..."

mastercard.

"...considering most cards are currently mailed by issuers and activated by phone, the requirement of in-person enrollment creates a barrier to adoption..."

VISA

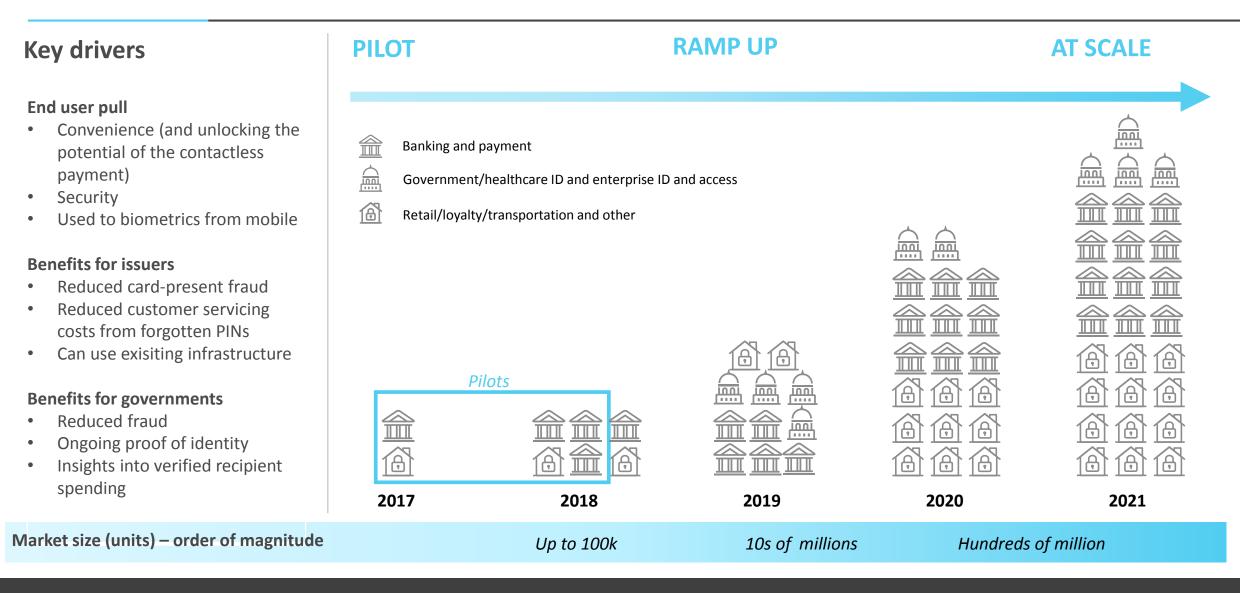
#### **IDEX pioneering industry leading solutions**

- Through early pilots with Mastercard the need for user friendly and cost effective enrollment was identified
- IDEX developed the concept and has multiple patents pending across key territories
- Continued innovation around the concept



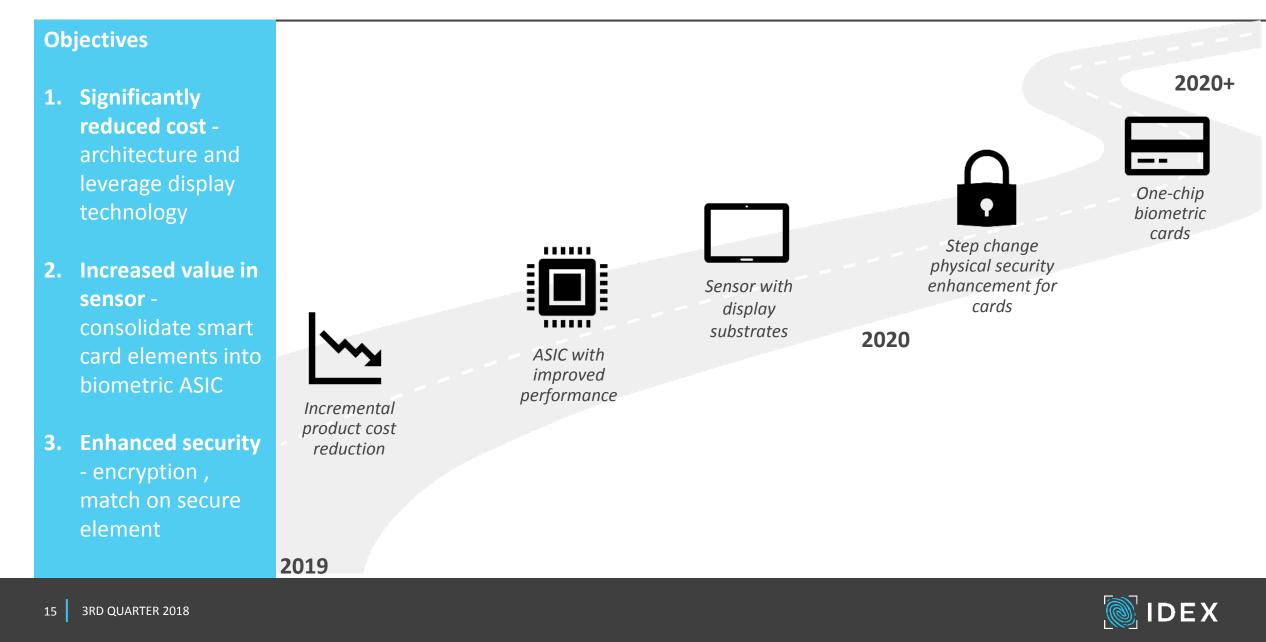


## **EXPECTED MARKET RAMP UP – IDEX EXPECTS MARKET LEADERSHIP**

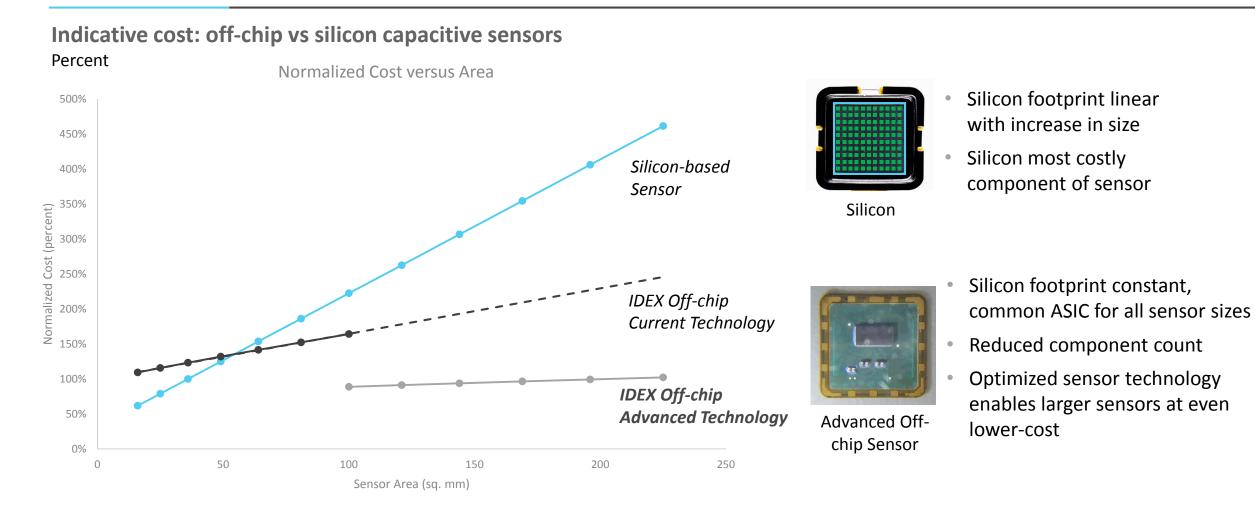




## **ROADMAP DESIGNED TO RETAIN BIOMETRIC CARD LEADERSHIP**

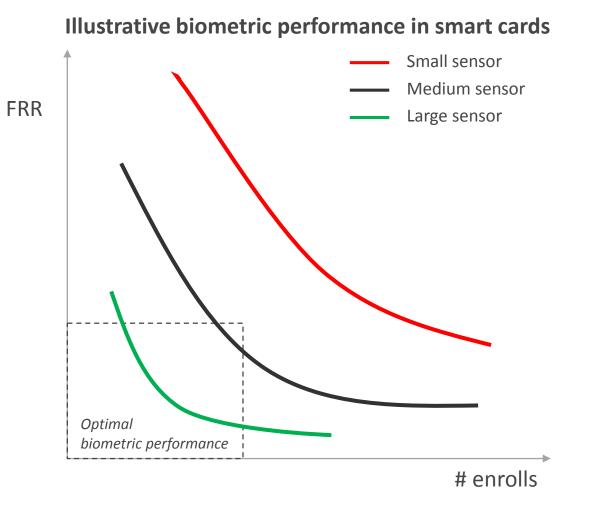


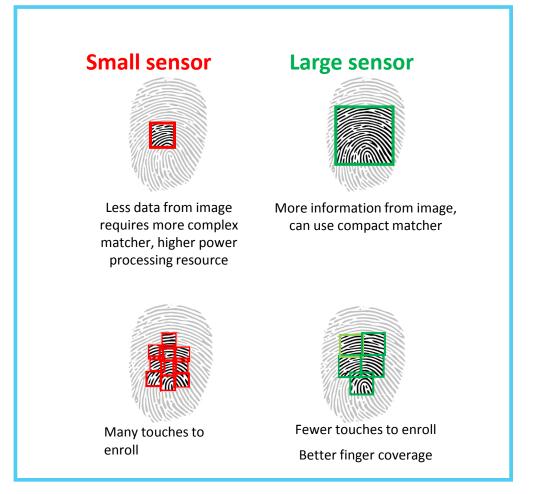
## FUNDAMENTAL ADVANTAGE OF OFF-CHIP SENSING: COST





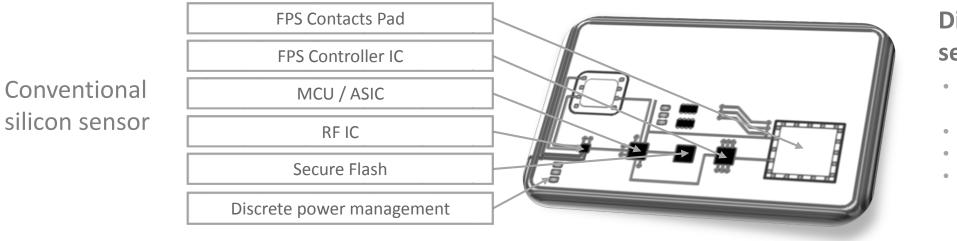
#### SENSORS SIZE DRIVES PERFORMANCE AND USABILITY



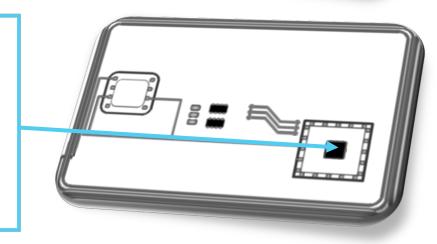




# FUNDAMENTAL ADVANTAGE OF OFF-CHIP SENSING: CARD SYSTEM INTEGRATION



IDEX off-chip sensor FPS Contacts Pad MCU / ASIC Integrated power management FPS Controller IC Secure Flash RF IC



## Discrete silicon sensing component

- Large number of supporting components
- Design complexity
- Complicates manufacturing
- Higher total cost

## Integrated system solution

- Fewer components
- Simplified manufacturing
- Optimized biometric
  performance
- Optimal power efficiency
- Lower total solution cost by several dollars



### **SUMMARY AND OUTLOOK**

#### Biometric card market at inflection point

- Rapidly increasing customer demand following successful pilots
- Pioneered and solved 'remote enroll' critical enabler for mass adoption
- High capacity supply chain ramping for volume shipments
- Leading card ecosystems and payments schemes rapidly expanding commercial deployments

#### Key expected milestones in Q4

- Additional shipments in support of production order
- New customers and eco-system partners in multiple verticals
- Multiple pilots of dual-interface cards
- Commercial launch of remote enroll
- Continue to strengthen our intellectual property position
- Confident in dual-interface 'certification' and volume delivery by mid-2019



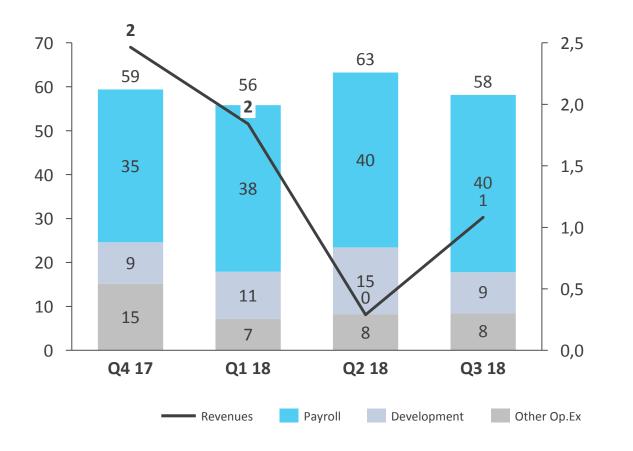


## **KEY FINANCIALS**

Henrik Knudtzon, CFO



Key financials



Card revenues expected to grow significantly in 2019

#### **Stable OPEX level – expect similar level going forward**

- Underlying payroll costs stable and non-cash share of payroll totaling NOK 7.7 million in Q3
- Development spend driven by project timing
- Other OPEX fairly constant



#### **Stable quarterly cash flow** NOK million



Cash position of NOK 130 million (USD 16), no financial debt

Quarterly cash flow fairly close to OPEX level

Expected to break even at low double digit million units shipped





# Q&A

Welcome back for IDEX's presentation of fourth quarter 2018 results on 27 February 2019

