

# IDEX Biometrics

Capital Markets Day 13<sup>th</sup> September 2022



## Agenda



PROGRAMME		
10:00-10:30	Registration, Coffee and Product Demos	
10:30-11:50	IDEX Update and QA	
12:00-13:00	Partner Panel Discussion	
13:00-13:15	Concluding Remarks	
13:15-14:00	Buffet Lunch and Product Demos	

### **IDEX Biometrics**

A complete platform for Biometric Authentication Solutions





Vince Graziani CEO



Catharina **Eklof** CCO



Hakan Acar **SVP Sales** 



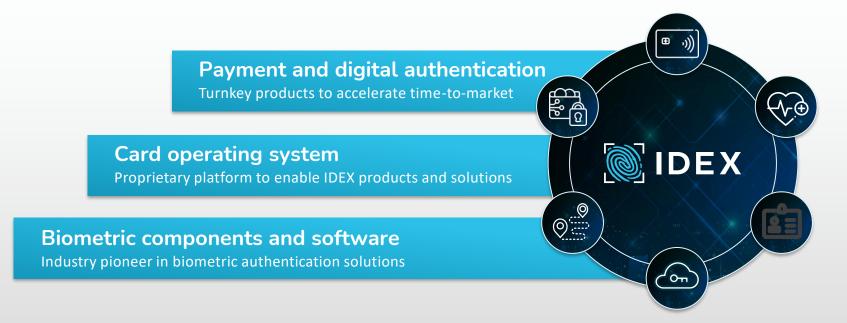
Jerome Chavanel **VP Product** 



(Demo video not included in presentation slide file.)

## IDEX solution strategy



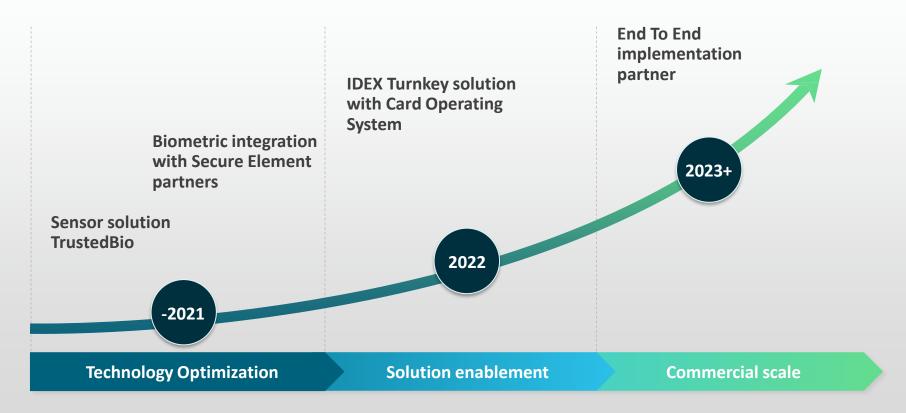


Targeting the massive addressable market for biometric smart card market of

>3B units per annum

## IDEX company roadmap



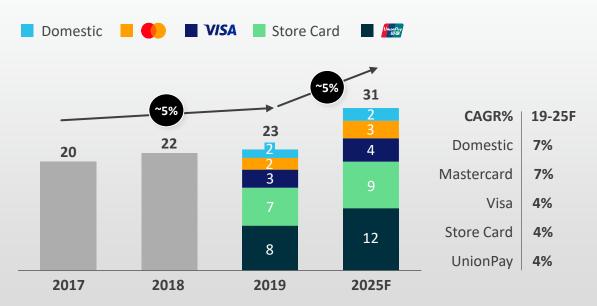


## Cards continue to grow globally



### Payment cards in circulation globally by issuing scheme

BN<sup>1</sup>, 2017-2025F, CAGR %



### **Key insights**

- Steady growth for payment cards
- → 65% of all transactions are in store
- **50%** of payments in store with **physical cards**
- → 60 % contactless transactions in Europe

<sup>1)</sup> Number of credit, debit, prepaid and charge cards in circulation worldwide. Domestic-only brands include RuPay (India); Star, Pulse, Nyce, and Accel (U.S.); Elo (Brazil); Mir (Russia); BC Card (South Korea); Shetab (Iran); Eftpos (Australia); Cartes Bancaires (France); and Girocard (Germany). Private label credit, debit, and prepaid products are usable only at particular retail stores | Sources: Nilson Report, Global Payments Report FIS, 2022. ACI Report 2022.

### Stakeholder benefits of biometrics



### Cardholder



- Convenience
- Peace of mind
- Improved security
- Safeguarded privacy

### **Issuing Bank**



- Fraud reduction
- Customer satisfaction
- Top-of-wallet
- New customer acquisition

### Merchant



- Seamless acceptance for higher purchase amounts
- Less friction and declines
- Decreased chargebacks

### **Acquiring Bank**



- Improved check-out
- Authentication options for merchants

## Global consumer research confirms demand for biometric payment cards



80%+

of consumers across 14 markets find biometric cards convenient and secure



Brazil 88%



Germany 80%



KSA 87%



Singapore 82%

Canada



Norway 84%



India 92%



Australia 73%





Sweden **75%** 



South Africa





Turkey 85%



Mastercard Research: consumers prefer biometric payment over PIN for security and convenience

### Biometric smart cards

Market Update



## Addressable market

- ⇒ > 3 BN cards per year
  - >2.4 billion payment cards - CAGR ~5%
  - > 1 billion access and ID cards - CAGR ~10-20%
- 40M payment locations fully enabled for biometrics globally



## Market momentum

- Consumers confirms the demand for Biometric Payment Cards
- Increasing numbers of launches
- Manufacturers are investing
- → Safeguarded supply chain



## **Current** headwinds

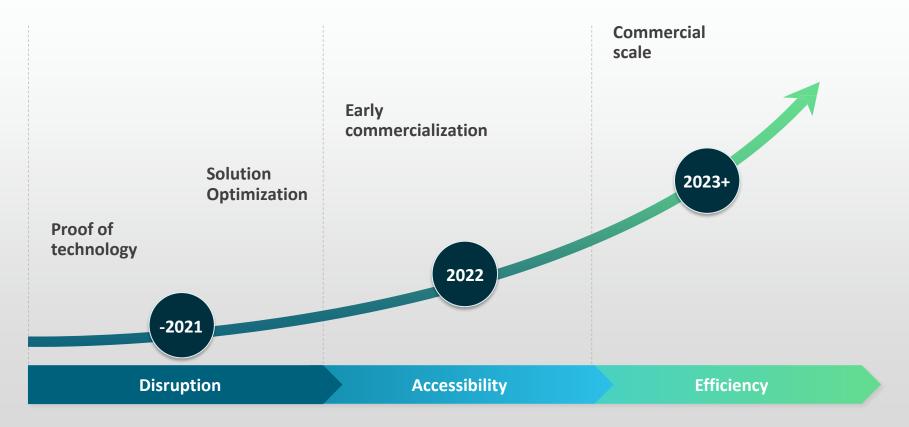
- Chip component shortage for dual interface cards
- China lockdown lead times
- Geopolitical instability and recession looming



## IDEX solutions enable accelerated market adoption



IDEX positioned for market inflection towards biometric payment cards





## IDEX product and solutions



### Hardware



Largest sensor in the industry to enable high performance with lowest power

### Software



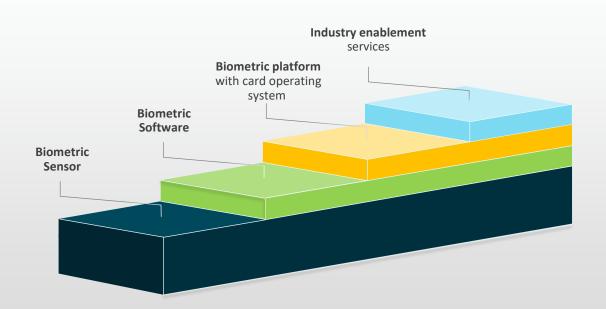
Anti-spoof and matching algorithm outperforming the payment scheme standards

### Services



IDEX Customer Lab, Ready-to-launch solutions and API library

## **Evolving IDEX Solution Offering**



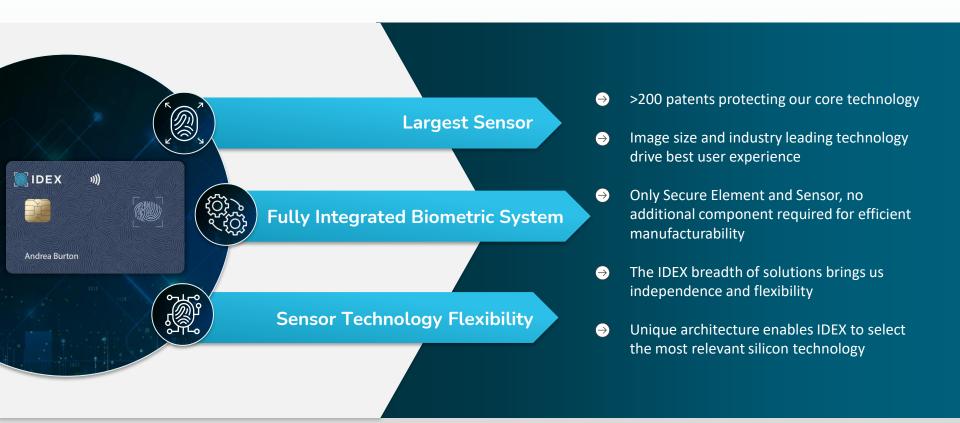


## Strategic benefits

- Leverage core investments
- Ensure consistent and secure user experience
- Complete solutions for payments and digital authentication
- → Efficient industry enablement for manufacturers
- Accelerated market activation

## IDEX Technology advantage





## IDEX technology platform enables multiple use-cases





## Our biometric technology drives new applications Payment (card present and card not present) Digital authentication Digital wallets Digital access (Physical/Logical) Crypto / CentralBank Digital Currency Protecting multiple value streams with one card

# Digital authentication represents a \$53 billion market



### **Oppportunity**

- → \$172B is spent on Enterprise Cyber Security in 2022
- → Cost from ransomware attacks expected to grow>13x in the next 10 years, from \$20B in 2021
- → Cyber threats top the concerns among enterprises
- → 19% of cyber attacks due to credential thefts
- → >59% of organizations have not implemented a ZERO trust strategy

### **IDEX Response**

- Unique biometric card solutions for digital authentication and step-up security
- Partnering with the worlds most innovative leaders in design and manufacturing of biometric authentication solutions



### IDEX goes to market with innovation leaders



### **Digital Access** (Including Multi Factor Authentication)





### Digital access

- → High value subscription
- Secure access and authentication

### **Bloomberg**





### **Digital Wallets** (Hardware/Token)



### Digital wallets

- → Crypto currency
- → Digital currency (CBDC)







# Biometric smart card market is building up across regions



### Europe

23% of the global card payments value > 6 bank launches live and foreseen in 2022

- → Rollouts driven by Tier1 and challenger banks90%+ of eligible payments are contactless

#### **Asia-Pacific**

43% of the card payments worldwide, with strong mobile payments growth

- → Strong interest from India, Japan, Korea, Malaysia, Vietnam – Manufactures

#### **Latin & South America**

**Strong growth in payment cards, BR CAGR: +36%**Brazil & Mexico planned launches of payment cards

- ⊕ Launches coming with traditional banks
- → Fraud and Regulatory policies drive use cases

### **MENA**

Strong growth in payment cards, CAGR: +16% > 10 launches live and foreseen in 2022

- → Drivers: fraud and convenience
- → Segments: affluent and financial inclusion

# Banks are launching, Europe and Middle East as front runners



IDEX accelerates launches during H2 according to plan

#### H1 2022 in Market

- → Rocker, Sweden (IDEX)
- → Manager.one, France (IDEX)
- → BNP Paribas, France (FPC)
- → Pocztowy Bank, Poland (FPC)
- → BMCI BNPP, Morocco (FPC)
- → JKB, Jordan (FPC)

**H1 2022** 7 launched globally

### H2 2022 in Plan

- → Banks in Iraq (IDEX)
- → Bank in Jordan (IDEX)
- → Bank in India (IDEX)
- **→** Bank in Thailand (IDEX)
- → Bank in UAE (IDEX)
- **→** Bank in Germany (IDEX)
- → Bank in France (IDEX)
- → Banks in US, Morocco and Jordan (FPC)

H2 2022
7 launches
for IDEX
planned

## Specific bank customer segments are driving early adoption





### **Affluent**

Frequent and high networth customers, travelling and interested in biometric metal cards



## **ROCKER**



### Tech savvy

Young pros seeking differentiation and preferring challenger banks



### Corporate

Clients in **need of stronger** security to conduct high value corporate transactions



### Special needs

People who struggle to maintain multiple passcodes & PINs or unable to use them



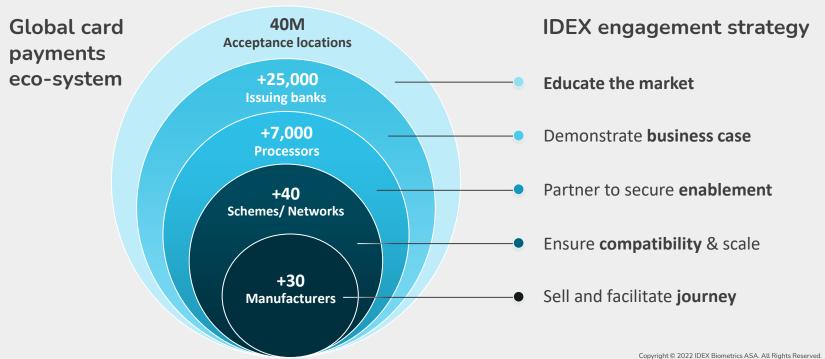




## IDEX engages with all stakeholders in the payment eco-system



Accelerated time-to-market and flawless execution



## H1 2022 Market specific highlights





















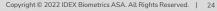
### **EMEA**

- Card manufacturers Tag Systems and E-Kart in implementation
- 3 new card manufacturers, 4 processors in commercial negotiation.
- Advanced biometric card project for combined physical and digital authentication
- Tier 1 and challenger banks launches in motion

- China mandates CDBC wallets IDEX uniquely positioned
- Advanced biometric card project for physical and digital authentication
- Launch planned with Tier 1 bank in Japan
- 2 manufacturers in production and launches foreseen late O4

### **Americas**

- Strategic partnership for Metal Card with biometrics
- Advanced biometric card project for physical and digital authentication
- Launch with Tier 1 bank in Mexico in progress
- Evaluations in progress with manufacturers in Brazil



### Accelerating card manufacturers

Based on engagement with 20+ card manufacturers



### Key enablers for success

- Pre-certification
- Re-tooling and production enablement
- Component supply assurance
- Program support for issuers and banks

### **Prioritized initiatives**

- **IDEX Turnkey**
- Partnerships: equipment makers / component manufacturers
- Secure Element strategic expansion roadmap
- Joint Issuer demand generation



















## IDEX focus market: **Turkey**





250 million payment cards

Largest in Europe



1.84 million Point of Sales

Largest in Europe



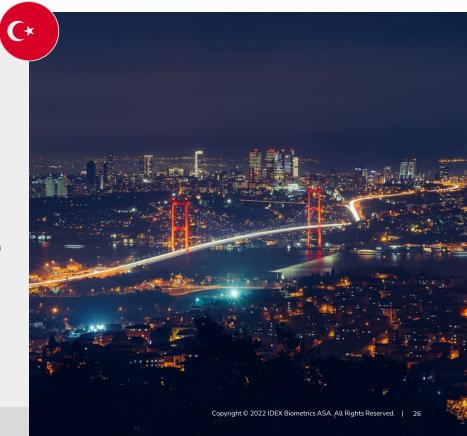
190 billion purchase volume

34% of private consumption expenditure



**56%** 

Contactless penetration



## Unlocking a market with a structured and repeatable go-to-market approach

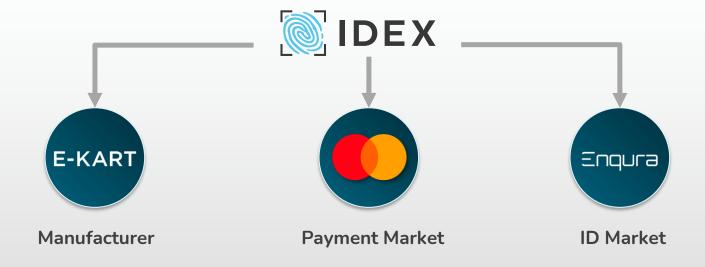




## Establishing an ecosystem



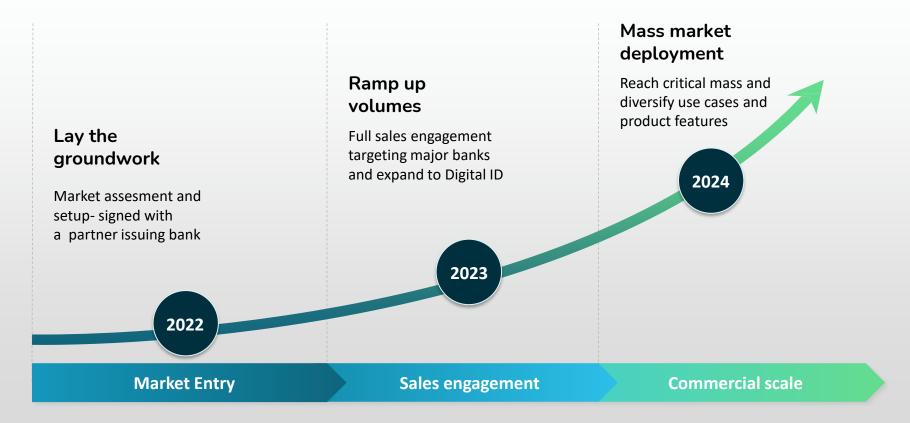
Partnership with key players to accelerate market adoption



Access to +200 customers and ~400 MN cards across 11 countries in the region

## **Turkey**: Market acceleration roadmap







## Strong operating leverage in long-term model



### Potential for extraordinary revenue growth

- Expanding opportunity pipeline
- Rapidly increasing backlog and pending design wins
- → Solution sales driving higher margins

### Target operating model at scale:

- → Scalable fabless semiconductor model
- → Long-term goal of 50%+ gross margins
  - Consistent with fabless model
  - Reflects differentiation and solution cost leadership
- → Long-term goal of 30% operating margins
- → Scalable for sustained cash flow
  - Concentrated customer base limits channel expenses
  - Low CapEx and leveraged OpEx



### **Summary:**



Enabling the next generation of payments and authentication

Multi-billion market opportunity

02

Industry leading customer experience

03

Disruptive biometric solution

Capturing a market inflection point



# IDEX Biometrics

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