

## **ANALYST PRESENTATION**

July 2021



## **Disclaimer**

This presentation (this "Presentation") was prepared for use by Roman DBDR Tech Acquisition Corp. ("Roman DBDR") and CompoSecure," "we" or "our") in connection with their proposed business combination (the "Proposed Transaction"). This Presentation is for information in this Presentation is for information in this Presentation is for information in this Presentation in this Presentation in this Presentation in this Presentation and any oral statements made in connection with this Presentation is subject to change and is not intended to be all-inclusive or to contain all the information that a person may desire in considering the Proposed Transaction and is not intended to form the basis of any investment decisions. This Presentation does not constitute either advice or a recommendation regarding any securities. You should consult your own legal, regulatory, tax, business, financial and accounting advisors to the extent you deem necessary, and must make your own decisions and perform your own independent investment and analysis of an investment in connection with the Proposed Transaction. This Presentation and any oral statements made in connection with the Proposed Transaction of any proxy, vote, consent or approval in any jurisdiction in connection with the Proposed Transaction, nor shall there be any sale of securities in any jurisdiction in which the offer, solicitation or qualification under the securities laws of any such jurisdictions.

This Presentation and any oral statements made in connection with this Presentation shall neither constitute an offer to sell nor the solicitation of any jurisdiction in which the offer, solicitation or sale would be unlawful prior to the registration or qualification under the securities laws of any jurisdictions. This communication is restricted by law; it is not intended for distribution or use by any person in, any jurisdiction where such distribution or use would be contrary to local law or regulation.

#### Forward-Looking Statements

This Presentation may contain certain "forward-looking statements" within the meaning of the federal securities laws. Statements included in this Presentation that are not historical facts are forward-looking statements for purposes of the safe harbor provisions under the United States Propagarding; (i) the ability of Roman DBDRs and CompoSecure's expectations, (ii) the degree of market acceptance and adoption of CompoSecure's products and CompoSecure's ability to attract and retain clients. In addition, any statements that refer to projections, forecasts, or other characterizations of future events or circumstances, including any underlying assumptions, are forward-looking statements. Forward-looking statements separable, "menty," "opential," "seem," "seew," "will," "estimated performances, including any underlying assumptions, are forward-looking statements include, but are not look of the function of the funct

#### Use of Projections and Illustrative Presentations

The financial projections, estimates, targets and illustrative presentations contained herein are forward-looking statements that are based on assumptions that are inherently subject to significant uncertainties and contingencies, many of which are beyond the Company's control. While all financial projections, estimates, targets and illustrative presentations are necessarily speculative, the Company believes that the preparation of prospective or illustrative financial information involves increasingly higher levels of uncertainty the further out the projection, estimates from the date of preparation. The assumptions and estimates underlying the projected, expected or target results are inherently uncertaint and are subject to a wide variety of significant business, economic and competitive risks and uncertainties that could cause actual results to differ materially from those contained in the financial projections, estimates, targets and illustrative presentations in this Presentations in this Presentation should not be regarded as an indication that the Company, or their representations, express or implied, is or will be given by the Company or its affiliates and advisors as to the accuracy or completeness of the information contained herein, or any other written or oral information made available in the course of an evaluation of the State of affairs of the Company nor shall it constitute an indication that there has been no change in the business or affairs of the Company since the date hereof.

#### Use of Data

This Presentation contains statistical data, estimates and forecasts that have been provided by CompoSecure and/or are based on independent industry publications or other publicly available information based on CompoSecure's internal sources. This information involves many assumptions and limitations and you are cautioned not to give undue weight to these estimates. Accordingly, none of Roman DBDR, CompoSecure nor their respective affiliates and advisors makes any representations as to the accuracy or completeness of these data.

#### **Use of Non-GAAP Financial Metrics**

This Presentation includes certain non-GAAP financial measures (including on a forward-looking basis) such as Adjusted EBITDA Margin, and PF Adjusted EBITDA Margin, and performance prepared in accordance with GAAP and should not be considered as an alternative to net income, operating income or any other performance measures derived in accordance with GAAP. CompoSecure's management uses forward-looking non-GAAP measures to evaluate CompoSecure's management uses forward-looking non-GAAP measures to evaluate CompoSecure's management uses forward-looking non-GAAP measures to evaluate compoSecure's financial measures. In addition, other companies may calculate non-GAAP measures differently, or may use other measures to calculate their financial performance, and therefore, CompoSecure's non-GAAP measures may not be directly comparable to similarly titled measures of other companies. Furthermore, the non-GAAP measures are presented in future SEC filings by Roman DBDR or the combined company. See the Appendix for a description of these non-GAAP financial measures are provided herein, they are not reconciled to comparable forward-looking GAAP measures due to the inherent difficulty in forecasting and quantifying certain amounts that are necessary for such reconciliation.

#### Financial Informatio

The historic financial information respecting CompoSecure contained in this Presentation has been taken from or prepared based on the historical financial statements of compoSecure for the periods presented. An audit of such financial statements in accordance with the standards of the U.S. Public Company Accounting Oversight Board is in process and will be included in any registration statement/ proxy statement related to the Proposed Transaction.

#### Intellectual Property Rights

All rights to the trademarks, copyrights, logos and other intellectual property depicted herein belong to their respective owners and trade names referred to in this Presentation may appear with the \*, sm or TM symbols, but such references are not intended to indicate, in any way, that the company names and logos are trademarks of Roman DBDR or CompoSecure.

#### Additional Information and Where to Find It

This communication relates to the Proposed Transaction between Roman DBDR and CompoSecure. In connection with the Proposed Transaction, Roman DBDR may file with the SEC or send to Roman DBDR's stockholders in connection with the Proposed Transaction. BEFORE MAKING ANY VOTING DECISION, SECURITY HOLDERS OF ROMAN DBDR ARE URGED TO READ THE PROXY STATEMENT AND OTHER DOCUMENTS (INCLUDING ANY AMENDMENTS OR SUPPLEMENTS THERETO) FILED WITH THE SEC CAREFULLY AND IN THEIR ENTIRETY WHEN THEY BECOME AVAILABLE BECAUSE THEY WILL CONTAIN IMPORTANT INFORMATION ABOUT ROMAN DBDR, COMPOSECURE, THE PROPOSED TRANSACTION AND RELATED MATTERS. Investors and security holders may obtain free copies of the Proxy Statement (when available) and other documents filed with the SEC by Roman DBDR with the SEC also may be obtained free of charge upon written request to Roman DBDR at 2877 Paradise Rd., # 702, Las Vegas, Nevada 89109.

#### Participants in the Solicitation

Roman DBDR and CompoSecure and their respective directors and executive officers may be considered participants in the Proposed Transaction will be set forth in the Proxy Statement and other relevant materials to be filed with the SEC regarding the Proposed Transaction. Stockholders, potential investors and other interested persons should read the Proxy Statement acrefully before making any voting or investment decisions. These documents, when available, can be obtained free of charge as described in the preceding paragraph.

## **Table of Contents**

<u>Section</u>	<u>Pages</u>
Investment Highlights and Team Overview	3 - 12
Company Overview: CompoSecure Metal Payment Cards	13 - 34
Growth Execution Plan: Arculus Ecosystem	35 - 51
Business Update	52 - 54
Financial Overview	55 - 61
Transaction Overview	62 - 65
Appendix	66 - 85



INVESTMENT HIGHLIGHTS
AND TEAM OVERVIEW

## **Transaction Overview**

#### TRANSACTION STRUCTURE

- Roman DBDR Tech Acquisition Corp. ("Roman") has proposed to enter into a business combination with CompoSecure, a high-growth, profitable technology company focused on innovative payments, security, and cryptocurrency solutions
- \$130 million in targeted convertible unsecured notes and \$45 million in targeted equity
- Closing expected in early Q3 2021, subject to customary regulatory approvals and Roman shareholder approval

#### **VALUATION**

- Transaction implies a pro forma enterprise value of approximately \$1.2 billion¹
- Implied valuation multiples<sup>2</sup>:
- 4.2x 2021E Net Revenue
- **3.4x 2022E Net Revenue** (11.5x 2022E Adj. EBITDA)
- Significant investment opportunity **projected 53% Net Revenue CAGR '21E '25E**
- Current shareholders of CompoSecure to maintain approximately 60% pro forma ownership<sup>3</sup>

#### **CAPITAL STRUCTURE**

■ Anticipated net leverage at close of ~2x trailing Adj. EBITDA (excluding new 5-year convertible unsecured notes)

Roman DBDR believes CompoSecure represents a unique opportunity to transform the payments ecosystem and unlock significant value by enabling mass adoption of digital assets across industries

<sup>&</sup>lt;sup>1</sup> Includes impact of all 5.789mm founder shares vesting at close

<sup>&</sup>lt;sup>2</sup> Based on the midpoint of range of management projections. Please see Financial Overview section

<sup>&</sup>lt;sup>3</sup> Existing CompoSecure shareholders may receive 7.5mm earnout shares. 3.75mm shares are earned if the VWAP is at least \$15.00 over any 20 trading days within any 30-trading day period during the first 48 months

## **Presenters**



#### Dr. Don Basile, PhD

#### Chairman & Co-CEO, **Roman DBDR**

- 20+ years of technology industry experience across
- Executive, investor or board member in 30+ Silicon Valley growth companies
- Former CEO, Co-Founder and Director of two leading data storage companies which both completed IPOs on NYSE













#### Jon Wilk

#### Chief Executive Officer, CompoSecure

- 20+ years of industry experience
- Former Head of Product and Chief Marketing Officer for JPMorgan Chase Consumer Bank
- Former President of Paychoice, a leading SaaS-based payroll company (sold to Sage in October 2014)









#### **Timothy Fitzsimmons**

#### **Chief Financial Officer,** CompoSecure

- 30+ years of experience in accounting and finance
- Started his own consulting firm, Your CFO & Controller, providing a range of financial services



#### Adam Lowe, PhD

#### Chief Innovation Officer, CompoSecure

- 10+ years of experience in security and technology industry
- PhD and MBA from Cornell
- Former group leader of Innovation Development Team at SRC Inc.















# **ROMAN** DBDR

20+

Year Partnership

45+

Years of Tech Industry Experience, with Expertise in Data Storage, Security and Blockchain

## Multiple

Successful IPOs/ Sale Processes

## Tech Industry Veterans with Extensive Operating and Investing **Experience**



Dr. Don Basile, PhD Chairman and Co-Chief Executive Officer



- 20+ years of technology industry experience across software, hardware, IT, telecom and private equity
- Executive, investor or board member in 30+ Silicon Valley growth companies



Dixon Doll, Jr. **Co-Chief Executive Officer** 











- Former CEO and Chairman of DBM Cloud Systems, a pioneer in data management software
- Former COO and Director of Violin Memory, a flash-memory storage maker



John Small **Chief Financial Officer** 



- 20+ years of experience in investment management
- COO of Diamond Standard, creator of blockchain tokenized coins
- Former CFO of Viggle



**Dixon Doll Senior Director** 









Co-Founder of DCM Ventures and Accel Partners (Telecom vertical)

and other technology industries





**James Nelson** 

CEO & Chairman, Global Net Lease (NYSE: GNL)











**Alan Clingman** 







**Paul Misir** 







**Arun Abraham** 

M. Klein & Company CHURCHILL CAPITAL

EVERCORE

LAZARD



## **Key Investment Highlights**

Category Leader of Next-Gen Payment Technology, Security, and Cryptocurrency Solutions

"Massive" TAM across markets including payments, cryptocurrency and digital assets

Premier payments technology and security provider coupled with highly scaled, advanced manufacturing capability

Trusted, highly embedded blue chip customer relationships with leading financial institutions and FinTechs, having produced nearly 100 million metal payment cards

Platform uniquely positioned to capitalize on fragmented markets in digital assets

Compelling financial profile with superior growth, attractive margins, and high cash flow

## Unlocking Value Through Partnership with Roman DBDR





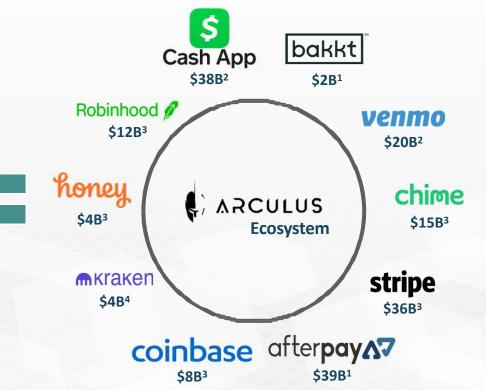
## **Key CompoSecure differentiators**

- ✓ Payments and security
- Proprietary, highly scaled manufacturing
- ✓ Significant base of growing, profitable revenue
- ✓ IP and patents
- √ Three-factor authentication
- ✓ Air-gapped hardware wallet
- ✓ Containerized blockchain infrastructure
- ✓ Integrated fiat-to-crypto and crypto-tocrypto services
- ✓ Cash flow fully funds organic growth



## **Existing relationships and initial discussions across:**

- √ Blockchain
- ✓ Insurance
- ✓ Governmental
- ✓ Cryptocurrency
- ✓ Exchanges
- **✓ Telecommunications**
- ✓ Digital Banking



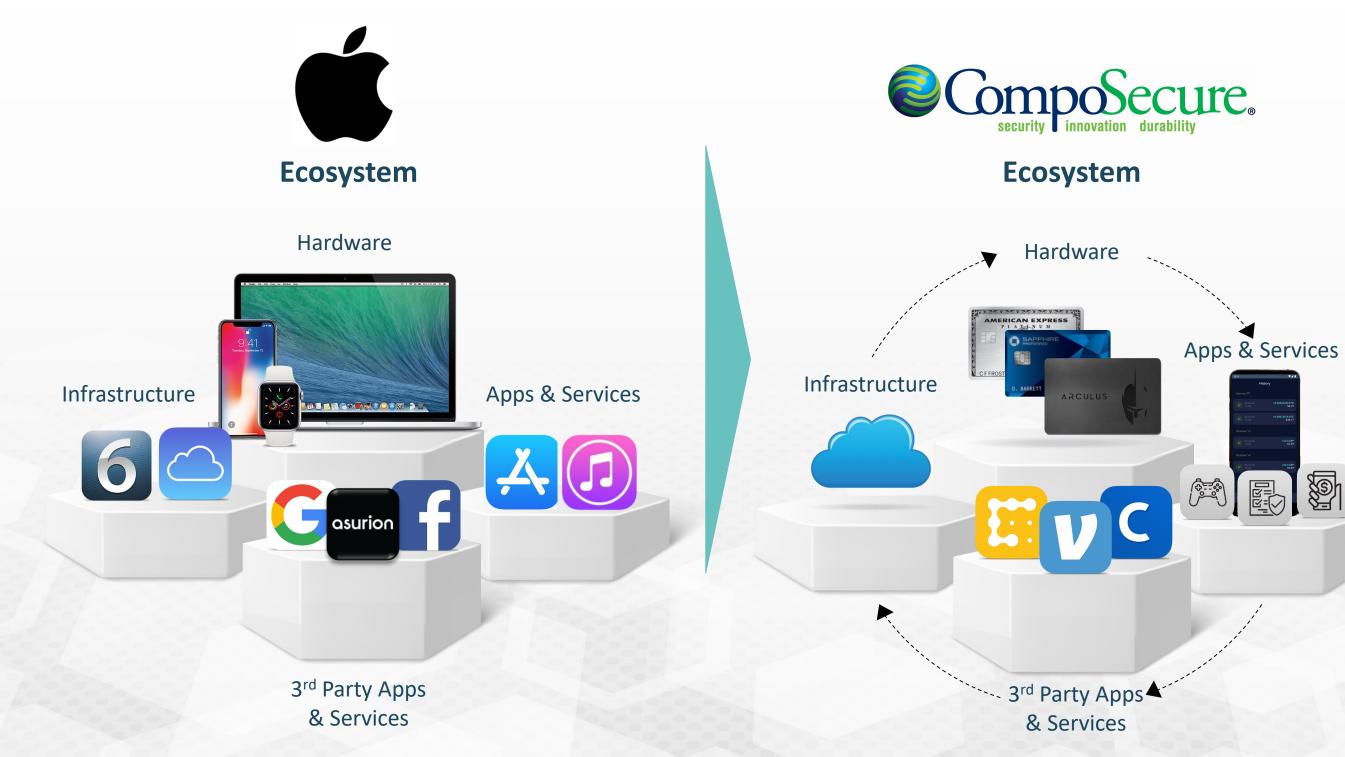
<sup>&</sup>lt;sup>1</sup> Diluted market capitalizations sourced from FactSet as of February 15, 2021 (except for Bakkt, which pertains to the IPO value)

<sup>&</sup>lt;sup>2</sup> Based on sum-of-the-parts valuation of parent company by broker research

<sup>&</sup>lt;sup>3</sup> Sourced from Pitchbook

<sup>&</sup>lt;sup>4</sup> Sourced from Coindesk

## **Building Digital Assets Ecosystem from Foundation in Superior Hardware**



Cryptocurrency

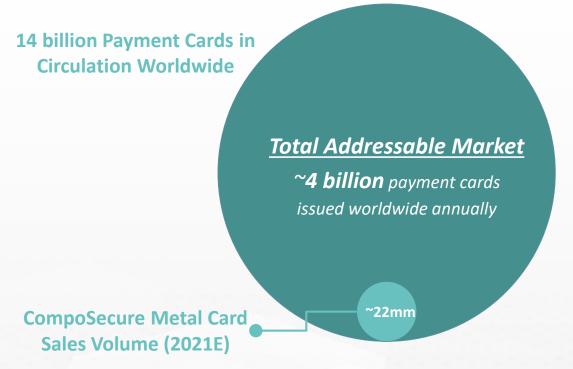
eGaming

Warranty & Insurance

■ Digital assets

## **Convergence of Two Massive Market Opportunities**

## Payment Card Market Opportunity<sup>1</sup>



Metal cards are rapidly growing in popularity, but still only represent ~0.5% of the annual addressable market and ~0.15% of the total cards in circulation

## **Industry Trends Create Strong Tailwinds:**

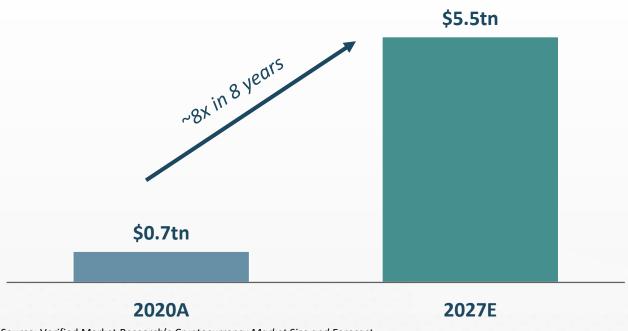




Security & Fraud



#### **Explosive Growth in Crypto Asset Class<sup>2</sup>**



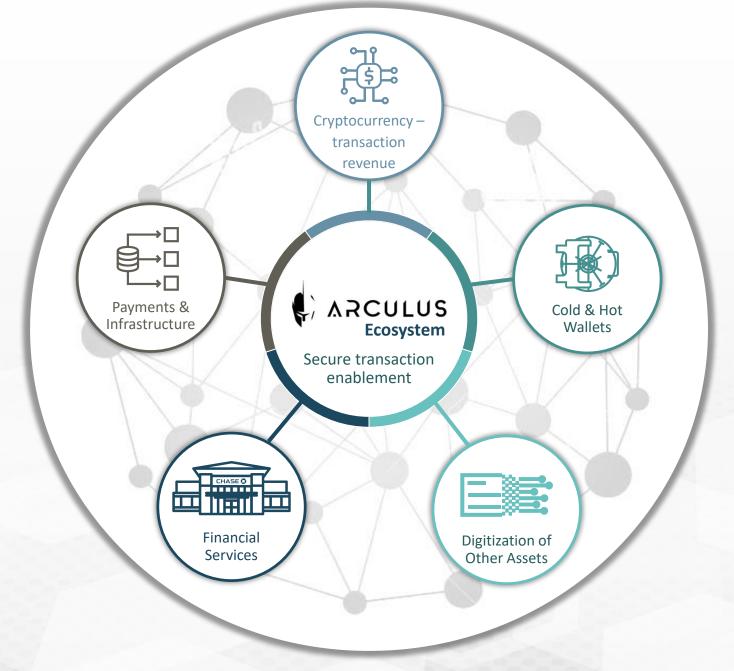
Source: Verified Market Research's Cryptocurrency Market Size and Forecast

Massive growth in Crypto asset class will require solutions to securely store and access digital assets seamlessly

cycle to estimate annual issuance volumes

<sup>2</sup> Global Cryptocurrency Market Size By End User, By Type, By Component, By Process, By Geographic Scope And Forecast (Verified Market Research, 2018)

# **Cryptocurrency is a Burgeoning Asset Class Requiring Bespoke Solutions**



\$162bn

Avg. Daily Trading Volume for Top 200 Cryptocurrencies by Market Cap<sup>1</sup>

\$5.5tn

Expected Market Value of All Cryptocurrencies by 2027E<sup>2</sup>

234mm

Crypto Wallets by 2025E<sup>3</sup>

36mm

Crypto Cold Storage Wallets by 2025E4

65%

CAGR of Total BTC and ETH Addresses<sup>5</sup>

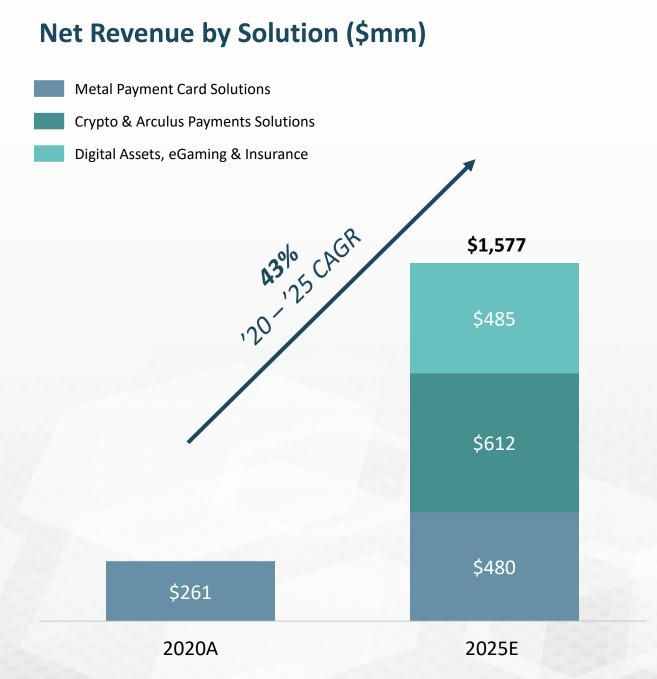
**87mm** 

BTC and ETH Addresses with Non-Zero Balances as of 2021<sup>6</sup>

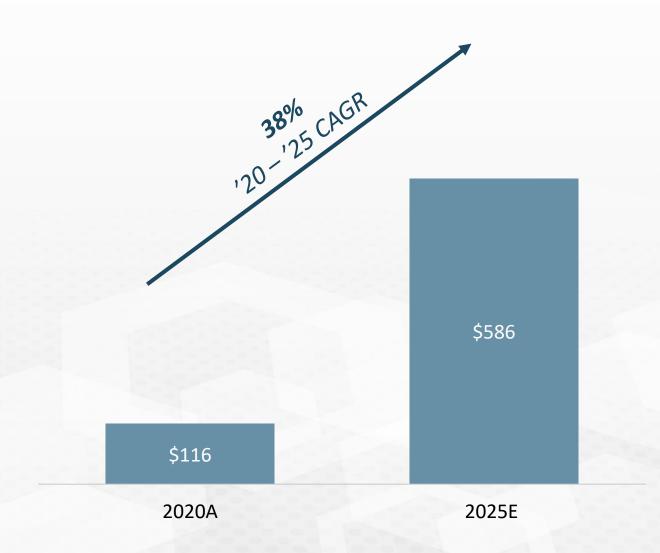
<sup>&</sup>lt;sup>1</sup> Source: Coinmarketcap.com; average daily volume for January 2021; <sup>2</sup> Verified Market Research; <sup>3</sup> Blockchain.com historical data and management estimates; <sup>4</sup> Mordor Intelligence and management estimates";

<sup>&</sup>lt;sup>5</sup>January 2016-January 2021. Source: Glassnode.com; <sup>6</sup> January 2021. Source: Glassnode.com

## **Robust Growth from Substantial Base of Revenue and Profitability**



## Adjusted EBITDA (\$mm)





**COMPANY OVERVIEW** 

## **CompoSecure at a Glance**

## Leading Developer of New, Highly Differentiated Payment and Cold-Storage Products

## **Today**



#### **Five-Year Outlook**



<sup>&</sup>lt;sup>1</sup> Figures reflect midpoint of 2021E estimate ranges for net revenue (\$276mm - \$296mm) and Adj. EBITDA (\$95mm - \$110mm)

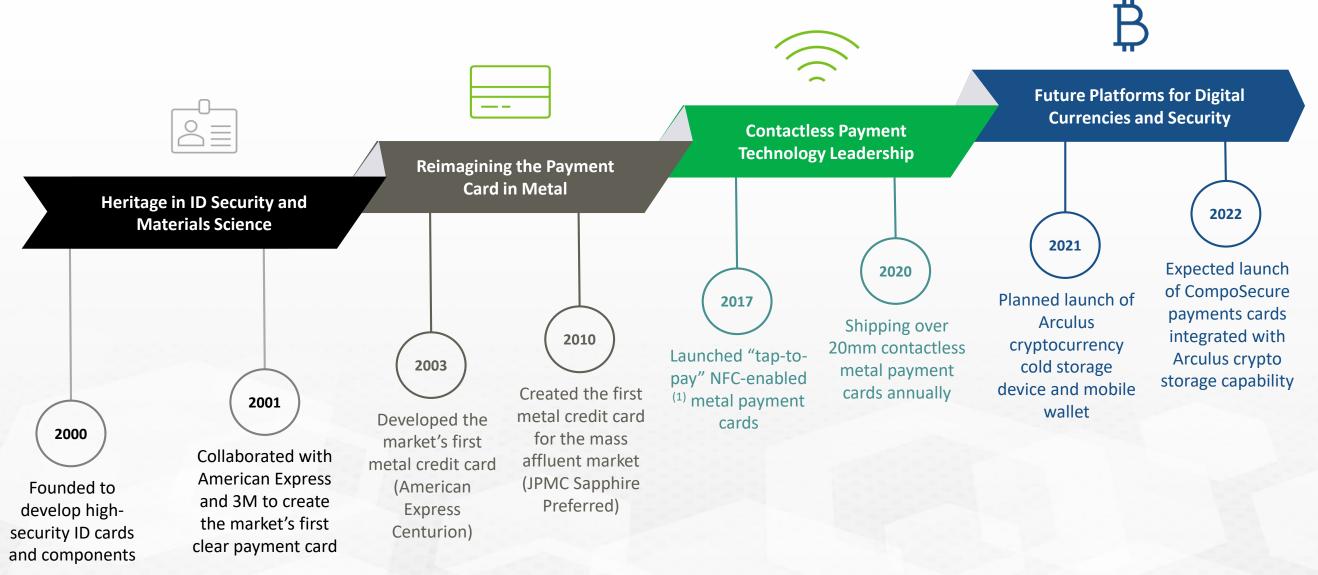
<sup>&</sup>lt;sup>2</sup> CAGR calculated using the midpoint of 2021E net revenue estimate range (\$276mm - \$296mm) and 2025E projection (\$1,577mm)

<sup>&</sup>lt;sup>3</sup> Revenue-weighted average client tenure

<sup>&</sup>lt;sup>4</sup> Arculus Ecosystem includes Cryptocurrency Solutions, Digital Assets & eGaming, Arculus Payments, and Warranty & Insurance segments

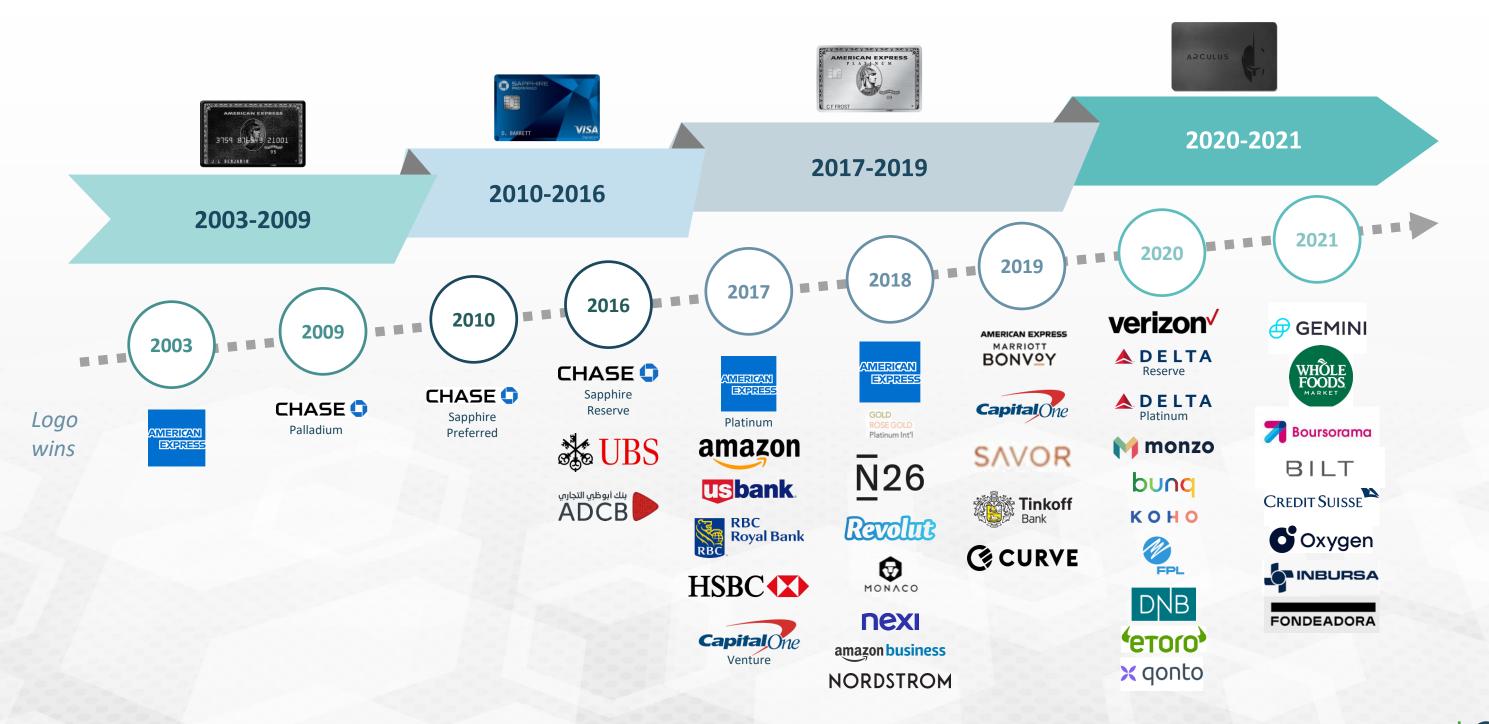
## CompoSecure Builds Platforms for Security and Financial Technology Innovation

**Company Timeline** 



Multi-decade history of transformative security and financial technology innovations brought to mainstream end markets

## **Proven Track Record of Customer Acquisition**



## **CompoSecure's Payment Cards Market**

## Strong fundamentals with a largely untapped global opportunity

#### STRONG NEED FOR DIFFERENTIATED CARDS

- Issuers are using differentiated cards and a strong value proposition to acquire new consumers, grow spend with existing, and retain customers
- Traditional plastic card / loyalty programs have become highly commoditized
  - Metal card constructions have become a key selling point for cards

#### **ATTRACTIVE ECONOMICS**

- Issuers are continuing to spend significantly to acquire new consumers, grow spend with existing, and retain customers
  - Cost of acquisition for a new card customer is \$300 \$1,000 (1)
- Relative to other marketing initiatives, the cost of a metal card is relatively low
  - Annual incentive subsidies can cost an additional \$250 \$1,500 (1) annually
  - The ROI of a metal card is strong given its relatively low marginal cost

#### SHIFT FROM AFFLUENT TO MASS AFFLUENT

- Initially, higher priced metal cards were designed for affluent consumers
- CompoSecure innovations have reduced production costs (and prices), enabling banks to target a wider variety of consumers with metal cards
- Metal form factor is becoming increasingly ubiquitous for payment cards targeting "mass affluent" consumers

#### **SUPERIOR METAL FORM FACTOR**

- Issuers are expected to adopt new technologies beyond dual interface on cards
  - e.g., dynamic CVV, biometrics, etc.
- Metal is a better form factor (than plastic) for these innovations from a durability perspective
  - Technology integration further supports mass market metal card adoption

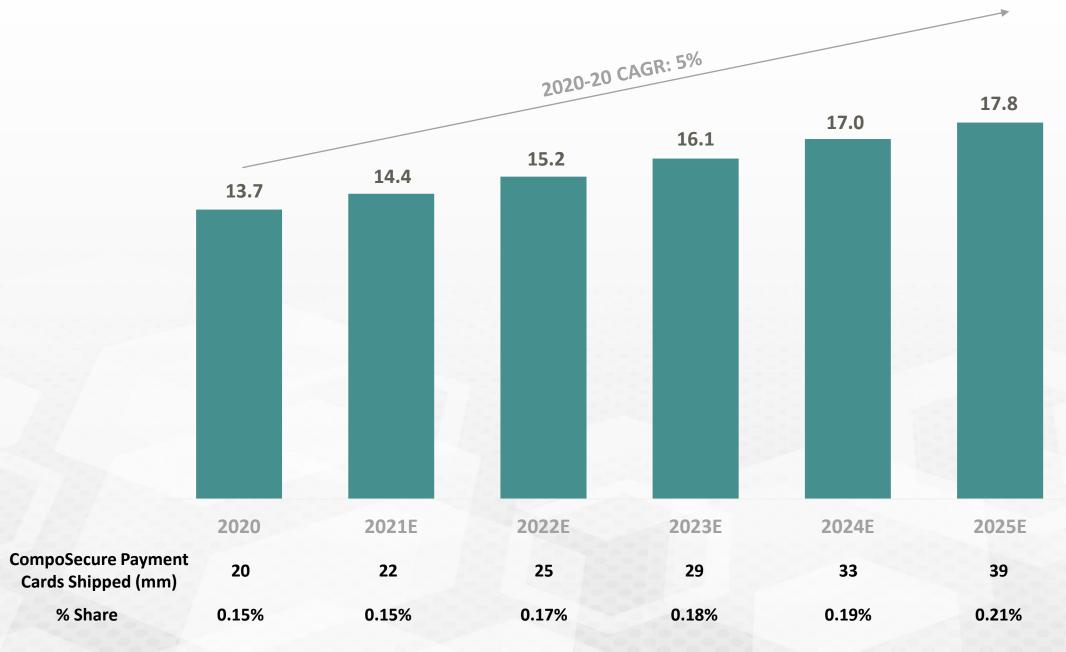
<sup>&</sup>lt;sup>1</sup> Based on company estimates

<sup>&</sup>lt;sup>2</sup> Edgar, Dunn & Company. 2019 Metal Cards Market Sizing and Consumer Research Report

## **Enormous Global Payment Cards Market**

#### Global Payment Card Markets Are Primed to Grow and Adopt Metal Form Factors

**Total Number of Payment Cards in Circulation (bn)** 



- Card schemes, governments, and central and commercial banks around the world are investing in payment schemes to migrate cash payments to electronic (mostly card-based), fulfill financial inclusion agendas, and encourage regional payment innovations
- Cards are entrenched in consumer payments, and their volumes are forecasted to grow across all regions
  - Fastest regional expansion arises from the rising middle class in developing markets
  - CompoSecure currently delivers cards to issuers in 6 continents
- Over the next five years, CompoSecure's share of shipped payment cards into total cards in circulation is projected to increase from 0.15% to 0.21%

## **Differentiated Capabilities**

## A Metal Payment Card Industry Leader

#### **EXPERTISE**

- Extensive trade secrets in metal card printing, proprietary coatings, and specialized etching and engraving
- Key manufacturing equipment heavily customized to enable proprietary processes
- Extensive experience collaborating with clients to craft a wide variety of unique metal designs

#### **PATENTS**

- Intense focus on intellectual property
- Extensive protection on metal card manufacturing
- 30 patents issued, 44 pending, and a new wave of technologies under development

#### **EXPANSIVE OPERATIONS**

- Ability to provide volume and quality at scale larger than any competitors' existing metal card output
- Strong operating leverage; already producing 20MM+ metal cards annually

#### TRADE SECRETS

#### INTELLECTUAL PROPERTY

**SCALE** 

CompoSecure continues to win in the marketplace by leveraging our proprietary processes, intellectual property and scale to deliver best in class products and enable our clients to grow new acquisitions, spending, and improve retention

## **Bespoke Card Programs Have Become Critical to Our Clients**

Highly Customized Programs with Best-in-Class Security and Form to Meet Partner Needs









#### **CompoSecure Issuer Client Since:**

2008 2003 2014 2016

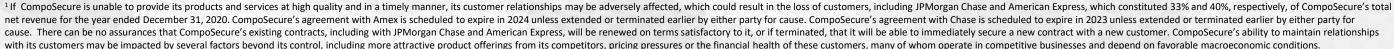
#### **Selected Metal Card Programs:**









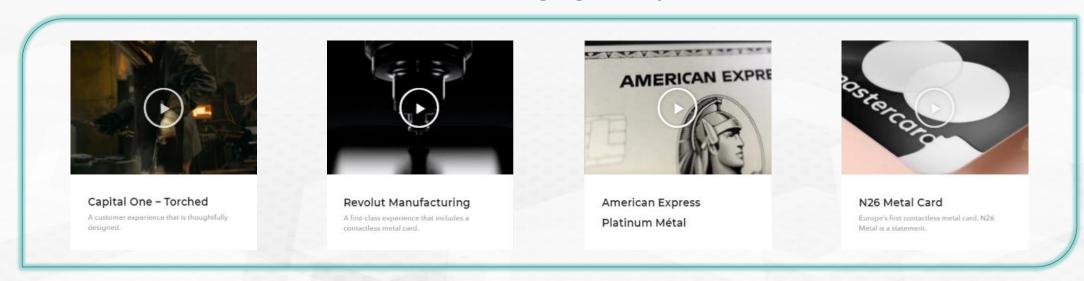


## CompoSecure's Products are Prominently Featured in Issuer Advertising

#### Metal is a Marketing Tool to Stay "Top of Wallet"

- Demonstrates the importance of metal to issuer's product offering
- Management believes metal has become a key component of the consumer-facing marketing message
- Substantial need for issuers to differentiate in a highly commoditized industry
- Consumer demand for metal cards is robust; issuers without metal card offerings risk losing over the long term<sup>1</sup>
- 70%+ of people ages 25-44 would prefer metal if all other card benefits were equal<sup>1</sup>

#### Select Issuer Advertisements Highlight CompoSecure's Products<sup>2</sup>



## CompoSecure Serves Issuers' Most Valuable Cardholder Portfolios

<sup>&</sup>lt;sup>1</sup> Edgar, Dunn & Company. 2019 Metal Cards Market Sizing and Consumer Research Report

<sup>&</sup>lt;sup>2</sup> See more in CompoSecure's video gallery at composecure.com/media/#videoanchor

## Market Research - Demand for Metal

## Rise of the Affluent Segments

- Rapid rise in the affluent-mass and affluent segments across the globe
- Increased consumer spending and fueled consumer demand for premium products and experiences

## **Key Motivators**

- Durability and Look & Feel
- Making an Impression (status)

# Key findings from 18,000 people across 18 markets:

#### METAL

Over Plastic

#### 65%<sup>1</sup>

Consumers would prefer metal cards over plastic cards if all benefits were equal.

#### **METAL**

Over Plastic

#### 96%2

Consumers preference when evaluating similar card artwork with different constructions

#### LOYALTY

#### 50%<sup>1</sup>

Consumers
willingness to change
banks for one that
offered a metal card

#### **MILLENNIALS**

#### **75%**<sup>1</sup>

Millennials ages (25-34) would also prefer metal if all benefits were equal.

#### **AFFLUENT**

Attraction

#### **75**%<sup>1</sup>

Affluent consumers would prefer metal cards if all benefits were equal.

# Millennials are Willing to Pay a Higher Price for Premium



**75%** 

millennials ages (25-34) would also prefer metal if all benefits were equal.

55%

millennials are willing to pay a higher price for high-quality premium products, compared to 35% of Baby Boomers.

60%

millennials prefer to be unique and standout from the crowd. Quality and uniqueness is the most important factors of luxury products for them.



Millennials want to show status, perceived wealthiness and want to flaunt their unique experiences via social media channels.

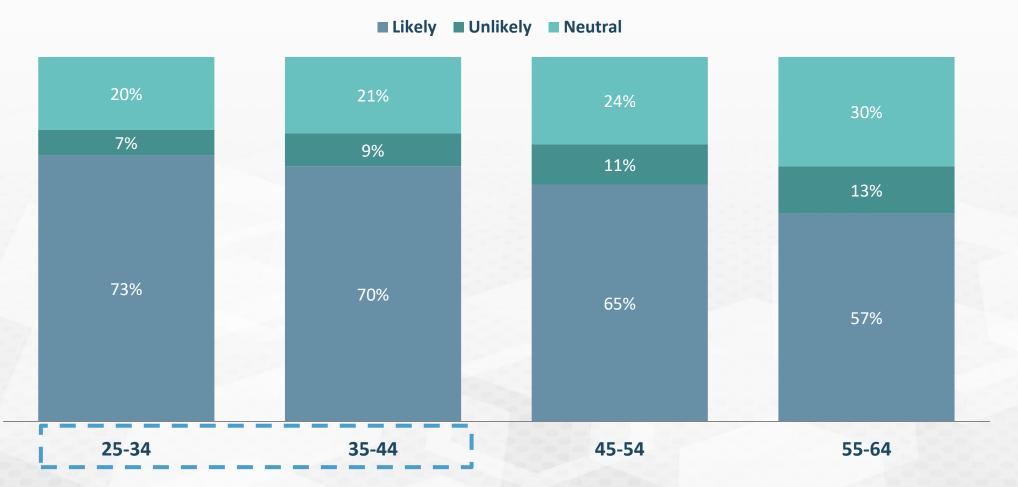
## **Strong Consumer Demand for Metal Cards**

Millennials Want to Show Status & Perceived Wealth, Highlighting Their Unique Experiences Via Social Media Channels

## **Consumer Preference for Metal Cards by Age Group**

#### **Survey Question:**

How likely are you to you select a metal card offer when you are looking for a new credit or debit card? 1



individuals ages (25-44) prefer metal cards if all benefits were equal when selecting a new card<sup>1</sup>

55%

millennials are willing to pay a higher price for high-quality premium products, compared to 35% of Baby Boomers<sup>2</sup>

<sup>70%+</sup> 

<sup>&</sup>lt;sup>1</sup> Edgar, Dunn & Company. 2019 Metal Cards Market Sizing and Consumer Research Report Surveys were completed at different times across different markets – UK, USA, Brazil, Japan, Hong Kong, Singapore (May 2018); Australia, Canada, India, Mexico (December 2018); Italy, Russia, Poland, France, Turkey, Germany, China, UAE (June 2019)

<sup>&</sup>lt;sup>2</sup> Global Data – Millennials are an import cohort to the population; Nielson, Global Data, Deloitte, Euromonitor & EDC Research

## **Attractive Metal Card Economics for Issuers**

\$1,500+

Typical individual customer lifetime value within premium card portfolios

#### **Metal Cards**

Issuers pay for a new card and issue to the cardholder once every 3-5 years (1)



#### **Rewards Payouts**

Cost issuers over 30x the price of one metal credit card (2) annually



**Travel Credits** 



Cash Back

...and Other Benefits

#### **Conversion of payment card programs to metal supports:**

- 1. Incremental new accounts acquired
- 2. Organic spend lift
- 3. Reduction in cardholder attrition

# Illustrative Payback on Conversion of Mass Affluent Card Program to Metal

- Cost of metal card is substantially outweighed by customer lifetime value and requires limited incremental spend or new customer wins to achieve breakeven for the issuer
- Any of the following portfolio improvements driven by metal card conversion will independently create positive ROI for an illustrative average mass affluent card program (3)

1-3%

Increase in Rate of New Account Acquisition 2-5%

Organic Spend Lift 3-7%

Attrition Reduction

<sup>&</sup>lt;sup>1</sup> Reflects current expiration cycle range

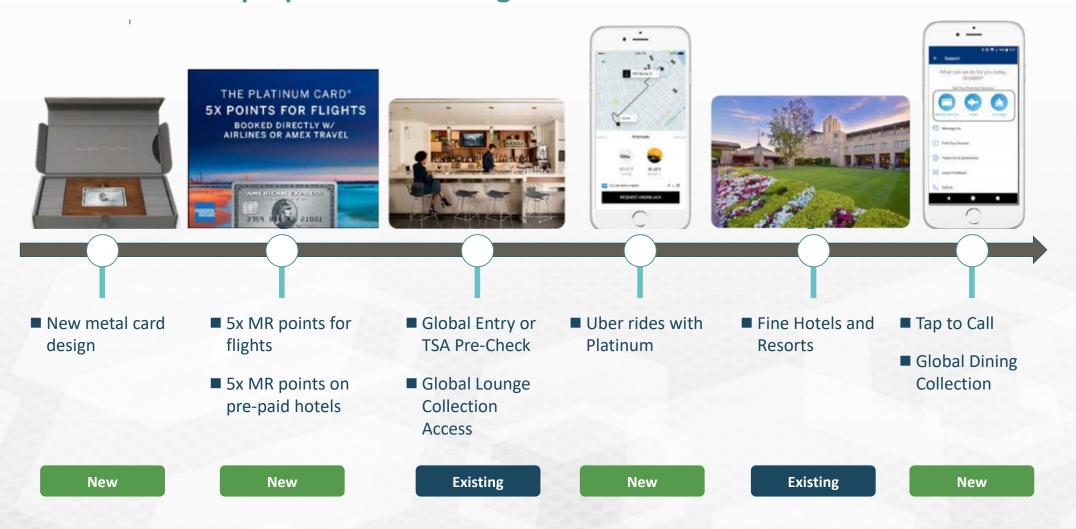
<sup>&</sup>lt;sup>2</sup> Estimated based on the typical price of CompoSecure metal cards in 2019

<sup>&</sup>lt;sup>3</sup> CompoSecure proprietary analysis based on average program embedded acquisition costs and portfolio performance to assess payback on conversion to CompoSecure's metal card products

## **American Express Product Refresh**

#### **Consumer Product Refresh**

In Q4'16, American Express enhanced its US Consumer Platinum value proposition including a new metal form factor



**52%** 1

New Accounts Acquired & Upgrades<sup>1</sup>

**17% 1** Q4 '17 Spend Growth<sup>2</sup>

290K
Metal Cards Proactively
Requested by Customers

47%
Percentage of New Platinum
Accounts that are
Millennials

Source: American Express 3/7/18 Investor Day, Page 47

<sup>1</sup>Through Dec '17 YoY

<sup>2</sup> Non-airline billings growth. Airline increased by 20%

## **Favorable Shift in Consumer Behavior**

JPMORGAN CHASE & CO.



Achieves "Top of Wallet" Status

 $\overline{N}26$ 



**Drives Consumer Willingness to Pay** 





**Supports Greater Crypto Asset Holdings and Retention** 



+ €7/month

Due to Metal Form Factor

~ \$450 - \$450k

Range of Crypto.com Coin Stakes

Qualifying for Lowest and Higher Tier

Memberships that Feature Metal Card<sup>2</sup>

## **Key Trends Impacting Issuers**

#### Given Demonstrated Consumer Behaviors and Market Dynamics, Issuers Continue to Rely on Payment Cards



Contactless Cards ("Tap-To-Pay")

- Usage of contactless physical payment cards has outpaced that of digital wallets for consumers who have both modalities available
- J.P. Morgan Chase reports that physical card tap to pay usage is 2.4x higher than digital wallet payments among their accountholders (1)



**Mobile Wallets** 

- **Entrenched consumer preference for physical cards** and payment habits are difficult to change
- Without clear demonstrated benefits, consumers have largely not been compelled to switch from physical cards to mobile wallets
- Mobile wallets continue to comprise an immaterial portion of in-store sales (e.g., Apple
   Pay share of U.S. in-store sales for 2020 was estimated to be 1.5% versus 0.1% in 2015) (3)



**E-Commerce** 

Despite more than two decades of relatively mainstream availability, e-commerce share of U.S. total retail sales is only ~13% (2)

<sup>(1)</sup> J.P. Morgan Chase 2019 Investor Day Presentation

<sup>(2)</sup> Source: PYMNTS: "How Consumers Are Using The Mobile Wallet To Make Purchases At The Physical POS"

<sup>(3)</sup> U.S. Census Bureau: 3rd Quarter 2020 Retail E-Commerce Sales Report

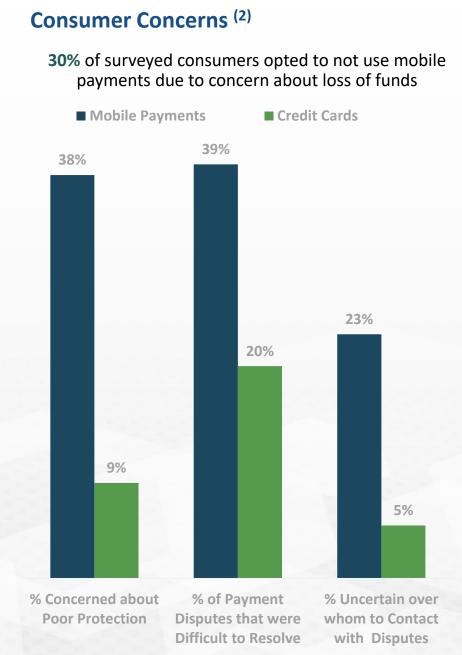
## **Entrenched Consumer Payments Behavior**

Consumer Mobile Payments Usage Has Slowly Increased Since Apple Pay's Initial Rollout in 2015





While the Apple Pay Ecosystem Has Expanded Substantially Since Launch,
Apple Pay Consumer Usage Remains Limited

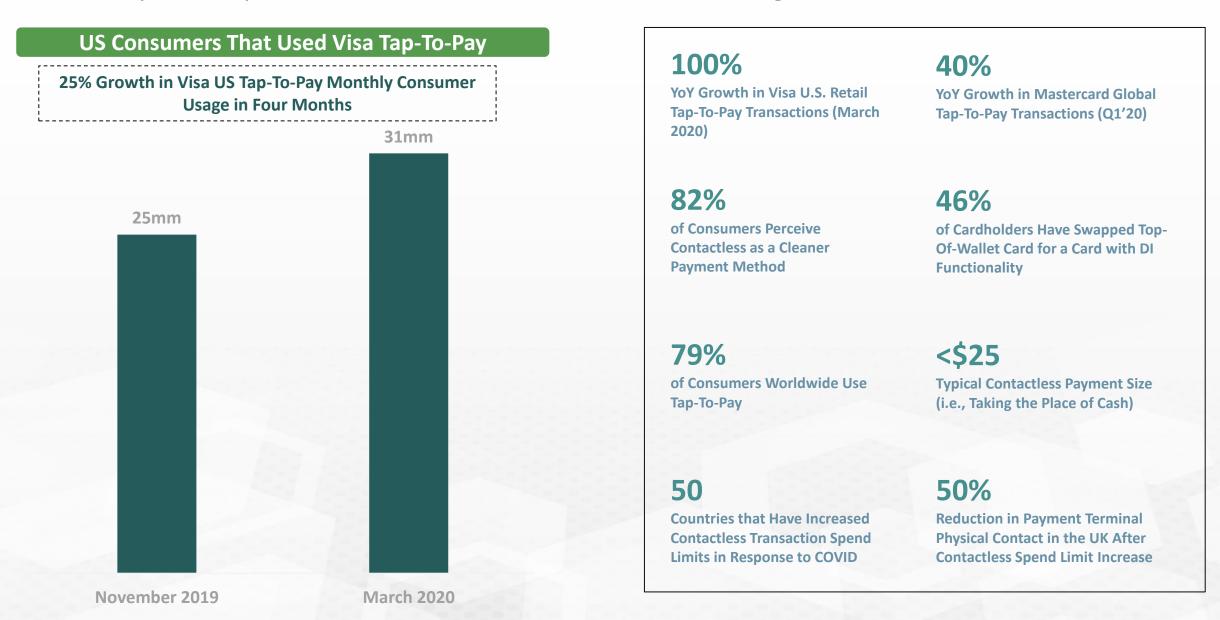


<sup>(1)</sup> Source: PYMNTS: "How Consumers Are Using The Mobile Wallet To Make Purchases At The Physical POS"; Apple Pay consumer usage percentage based on survey of 2,998 consumers who own smartphones, have installed Apple Pay, and made a purchase at a store that accepts Apple Pay; 2020 data collected from survey conducted in September 2020

<sup>(2)</sup> Source: Pew: "Are Americans Embracing Mobile Payments?"; Pew 2018 survey of 1,178 consumers who made a payment in the past year

## **COVID-Driven Acceleration of Tap-To-Pay Adoption**

Consumers, Key Industry Stakeholders, and Governments Are Turning to Contactless Cards to Minimize COVID Risks



DI Cards Offer a Safer, Cleaner, and Faster Way to Pay that Is Driving Accelerated Contactless Payment Adoption

## **CompoSecure's Commitment to Sustainability**

CompoSecure's Impact Goes Beyond Providing Premium Financial Cards Into Global Sustainability Efforts

#### Steel is the World's Most Recycled Material (1)

The stainless steel in CompoSecure's metal cards is comprised of 75% recycled stainless steel

For every one million metal veneer cards manufactured, more than ten tons of material is saved from going to landfills



© Gilberto Cervantes created this image with an intention of raising awareness about the environmental issues and climate change.

#### **Create Stickiness with Recovery Programs**

When sending a cardholder a new card, some issuers include a postage paid return envelope to return expired metal cards for shredding and recycling

CompoSecure believes truly sustainable products should not only meet the intended design life requirements, but also should have their components recaptured at the end of life to be used again to minimize waste



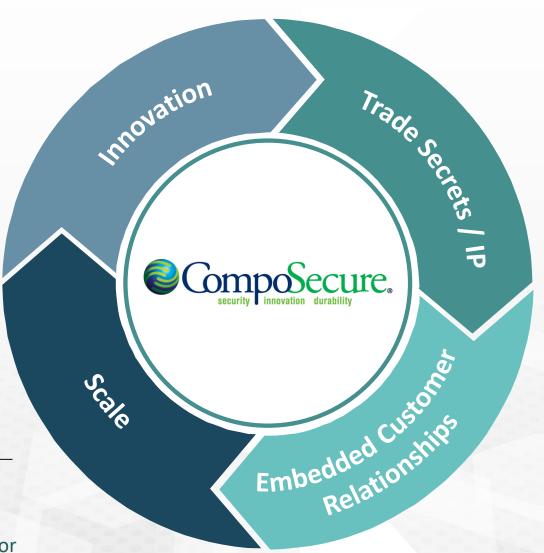
© Melting ice-berg, created by independent artist Jan Erik Waider specializing in Nordic landscapes photography.

## Why We Continue to Win

#### We Enable Clients to Grow Customer Acquisition, Spending, and Improve Retention



- First metal credit card (2003)
- First metal "tap-to-pay" credit card (2016)
- Arculus launch in 2021
- Pipeline of new tech including biometric security, dynamic CVV, keychain cards, LED







Patents



- Deep engineering expertise
- Proprietary material science capabilities

## **100+ Card Programs**

























**22mm** 

**Metal Cards** Annually<sup>1</sup>



9

Direct salespeople



7 Global

Distributor **Partners** 

12021E

## **CompoSecure's Growth Opportunities**

CompoSecure is an Engine of the Accelerating Transformation of Payment Cards to Metal



#### **Domestic Expansion**

- Substantial white space
   remains in the
   transformation of payment
   cards to metal among
   existing and prospective
   issuer clients
- Potential mass segment conversion to metal

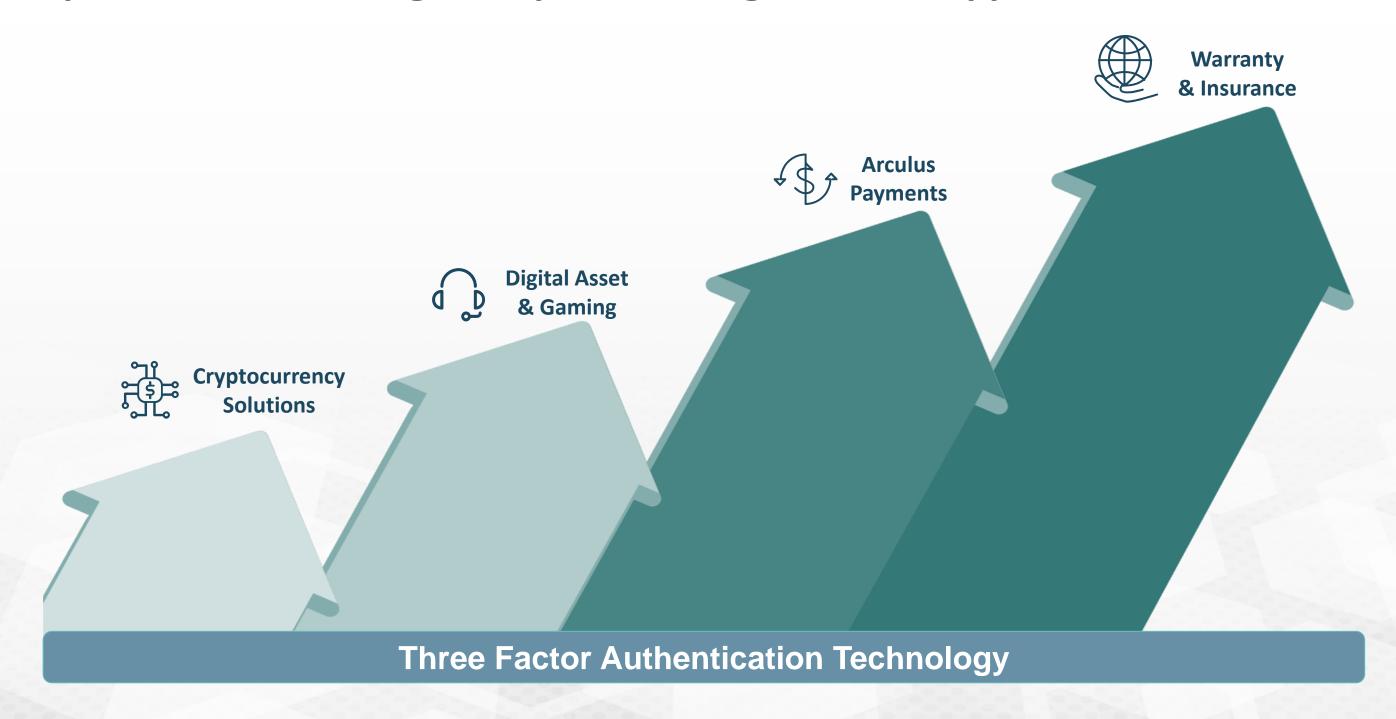
#### **International Growth**

- Still in early stages of international payment card conversion to metal in Europe, Asia, Middle East, and Latin America
- 2020 international revenue was \$47mm, ~6x 2017 revenue of \$8mm

#### **Technology & Innovation**

- Track record of growth from innovation in card design and payment technology integration
- FinTech innovators and digital challenger banks are increasingly seeking premium physical touch points

## **CompoSecure is Pursuing Multiple New Large Growth Opportunities**





**GROWTH EXECUTION PLAN** 

## **Building Digital Assets Ecosystem From Foundation in Superior Hardware**



Cryptocurrency

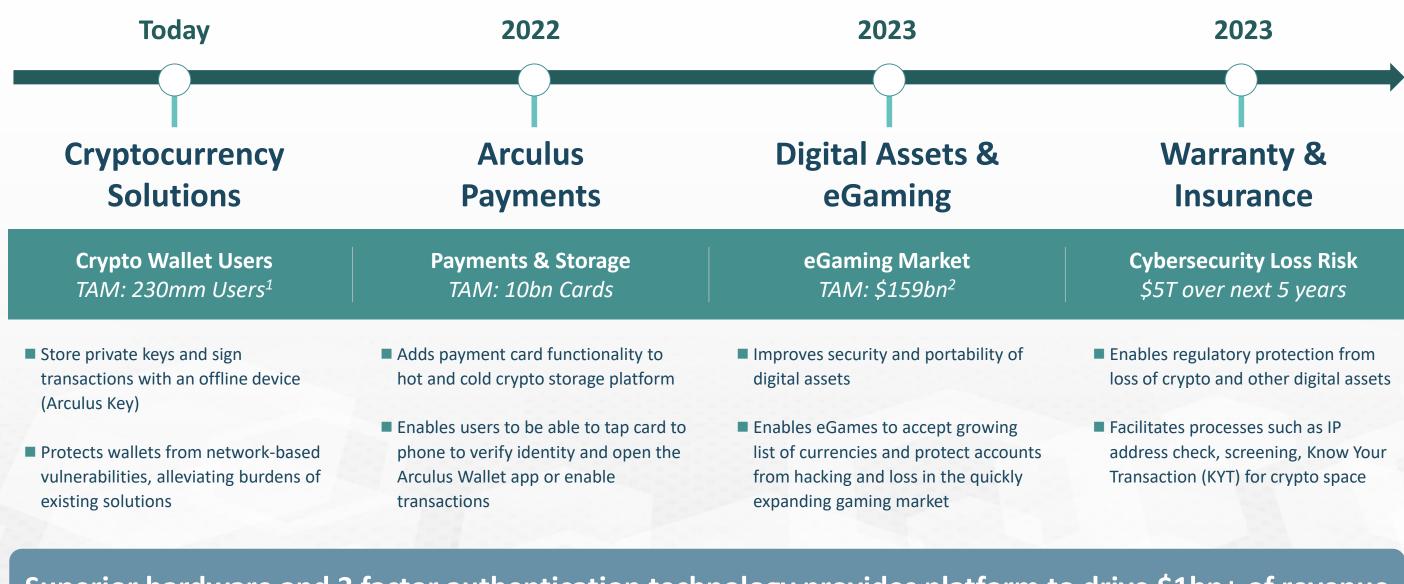
eGaming

Warranty & Insurance

■ Digital assets

36

## The Arculus Ecosystem Roadmap



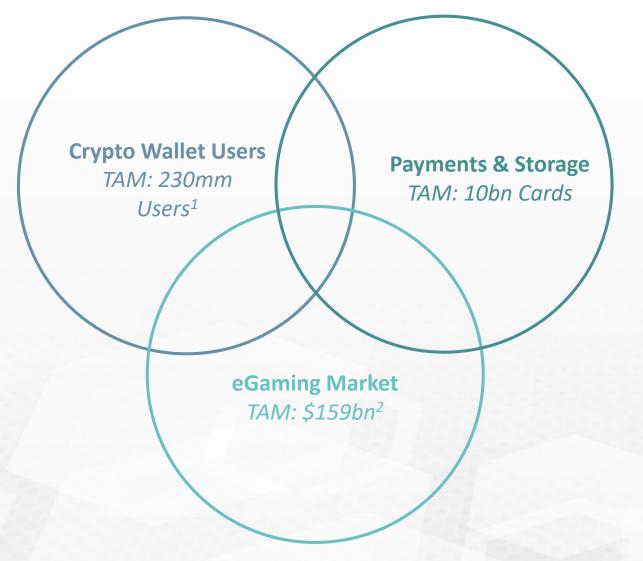
Superior hardware and 3 factor authentication technology provides platform to drive \$1bn+ of revenue

<sup>&</sup>lt;sup>1</sup> Estimated global crypto wallet users (all cold and hot) by 2025E

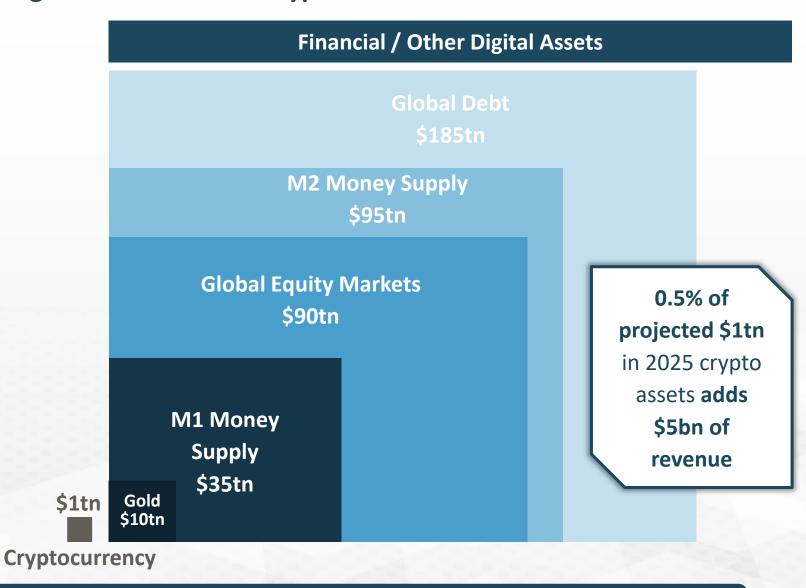
<sup>&</sup>lt;sup>2</sup> Spend on video games; increasingly monetized in-game. Source: NewZoo, 2020

## **Large and Growing Addressable Market**

#### **Massive Long-Term Revenue Opportunities**



#### **Significant Room for Crypto Asset Class Growth**



Arculus is entering an ecosystem that is forming the basis for a new global financial system with massive monetization opportunities

Sources: Accenture, Bessemer State of the Cloud 2020, Bond Capital, IDC

<sup>&</sup>lt;sup>1</sup> Estimated global crypto wallet users (all cold and hot) by 2025E

<sup>&</sup>lt;sup>2</sup> Spend on video games; increasingly monetized in-game. Source: NewZoo, 2020

## **Cryptocurrency Wallets Exist in a Variety of Forms**

#### **Hot Wallets**

Generate and store private and public keys and digitally sign transactions all within internet-connected devices where storage of the keys are hosted by a third party (e.g., exchange-hosted)

#### **Cold Storage Wallets**

Store private keys and sign transactions in an offline device, with the private key maintained by the user, protecting the wallet from network-based vulnerabilities

Offline Storage

Typical Design Characteristics

#### None

Day-to-day transaction activity
Seamless experience
Elevated cyber-theft risk

#### **Hardware Cold Storage Devices**



Longer-term storage

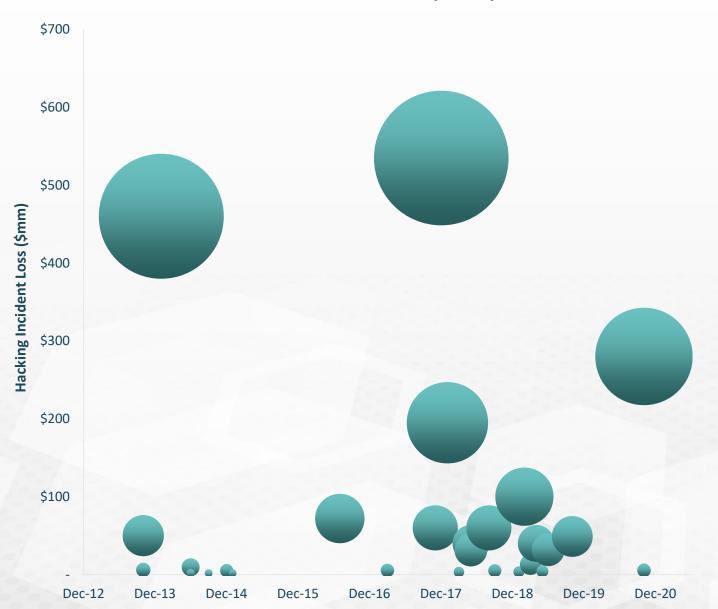
Cumbersome transactional experience

Highly secure (though attack vectors remain for many solutions)

Arculus will alleviate the burdens of existing cold storage solutions

## Hackers Are Targeting Cryptocurrency Assets Accessed by Hot Wallets

## Cryptocurrency Exchange Hot Wallet Hacking Incidents with Losses of Greater than \$1mm (\$mm) (1)



#### (1) https://www.ledger.com/academy/crypto/hacks-timeline/

# Rising Awareness of Crypto Ecosystem Security Risks

- From November 2013 through November 2020, crypto exchanges suffered ~30 cyberattacks that each resulted in at least \$1mm in losses
- These hacking incidents resulted in over \$2bn in aggregate losses
- Across public and private wallets, hackers are estimated to steal\$65 dollars in crypto assets every second
- In April 2021, Turkish exchange Thodex had about 390K active users and none have been able to withdraw their funds<sup>(2)</sup>
- Hacked Japanese bitcoin exchange Mt. Gox went out of business after the theft of 650K bitcoins worth around \$474mm<sup>(2)</sup>
- Hackers targeted users of Coinbase and Square's Cash App, reportedly draining some accounts...Some customers have complained that the companies aren't doing enough to protect them or to explain what happened<sup>(3)</sup>

<sup>(2)</sup> https://www.bankinfosecurity.com/turkish-police-probe-thodex-cryptocurrency-exchange-a-16455

<sup>(3)</sup> https://www.protocol.com/newsletters/protocol-fintech/cash-app-coinbase-hacks?rebelltitem=1#rebelltitem1

## **Nature of Early Incumbent Cold Storage Hardware Products**

Cold storage wallet hardware products available in the market today provide a suboptimal user experience and may not adhere to true cold storage security principles



# **Embedded Friction in the User Experience**

Cold storage products today require users to make manual inputs in small hardware wallet devices when authorizing each transaction



# Battery Power Limits Mobility

Necessity of charging cold storage hardware devices limit their mobility and create friction on the user



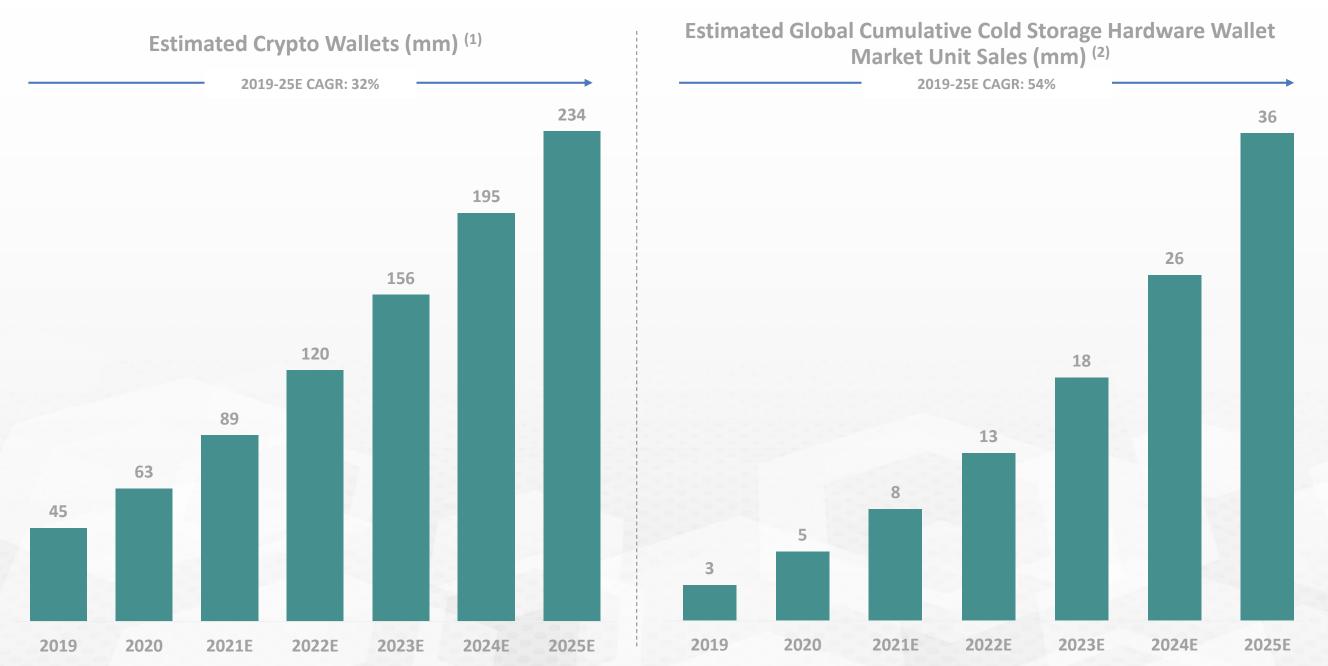


# **Product Inconsistent With True Cold Storage Security**

Many cold storage hardware products today connect directly to users' Internet-linked PCs and mobile devices and store recovery passcodes on the same hardware that private keys are stored, lacking air-gapped security

## **Crypto Wallet Addressable Market**

Rapidly Growing Base of Crypto Wallet Users as Ownership of Digital Currencies Becomes Increasingly Ubiquitous

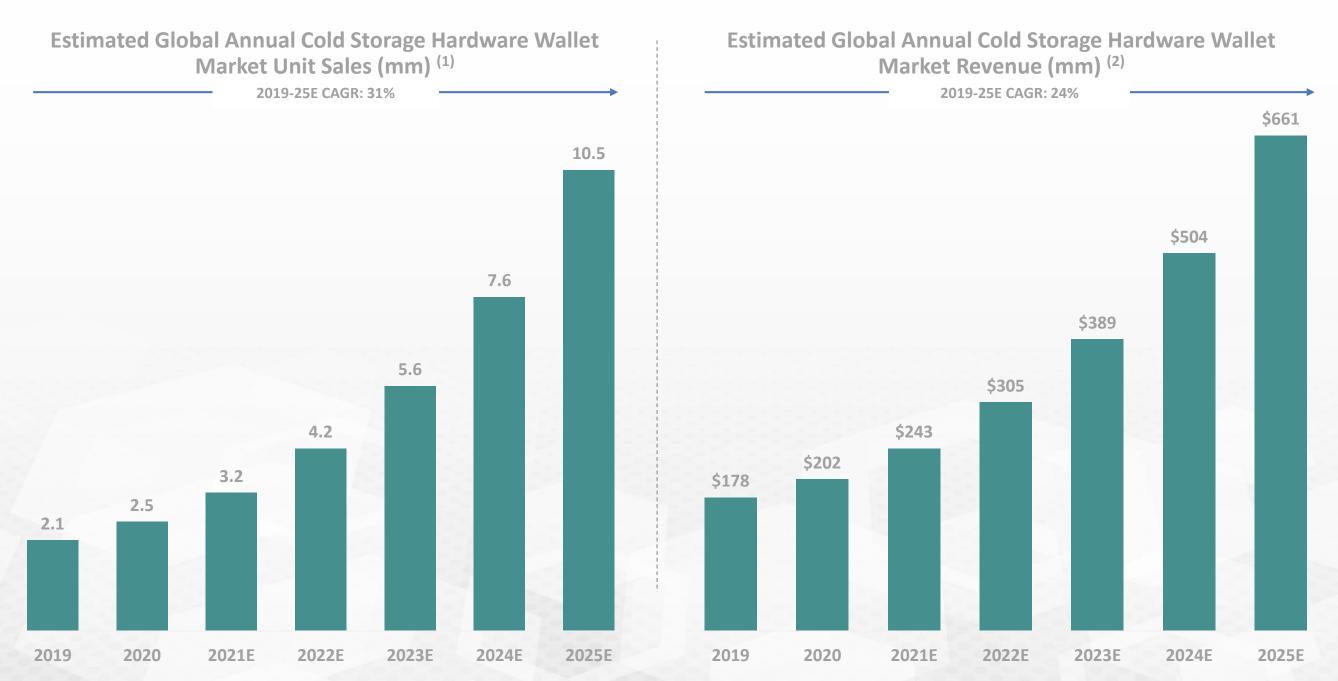


<sup>(1)</sup> Source: Blockchain.com and CompoSecure Management estimates; figures shown are for Blockchain.com-issued wallets only

<sup>(2)</sup> Sources: "Global Hardware Wallet Market," (Mordor Intelligence, 2020) and CompoSecure management estimates

## **Cold Storage Hardware Wallet Estimated Annual Sales**

Demand Is Underpinned by Expanding Cryptocurrency Ownership and Desire for Enhanced Security

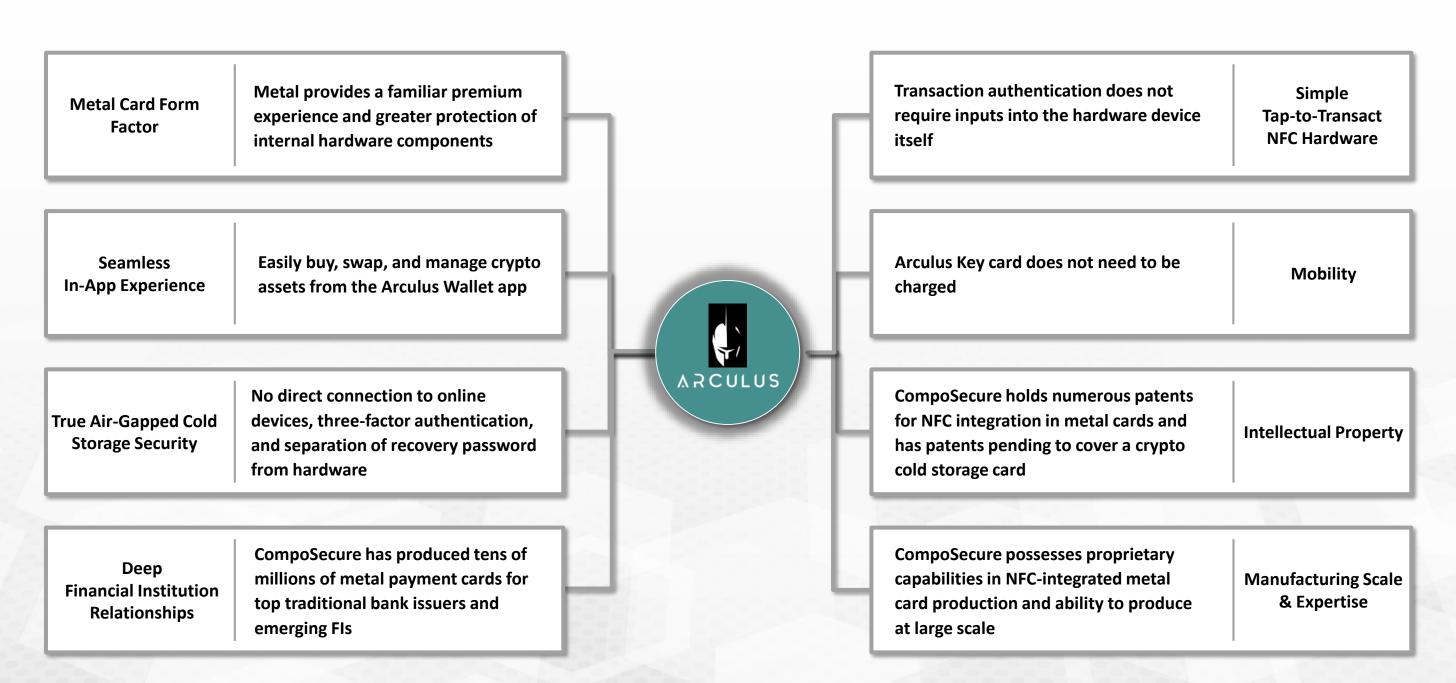


<sup>(1)</sup> Sources: "Global Hardware Wallet Market," (Mordor Intelligence, 2020) and CompoSecure management estimates

<sup>(2)</sup> Source: "Global Hardware Wallet Market," (Mordor Intelligence, 2020)

## **CompoSecure Aims to Leverage Unique Strengths for Arculus**

Advantages in Product Design, Security, Financial Institution Relationships, and Manufacturing Capabilities

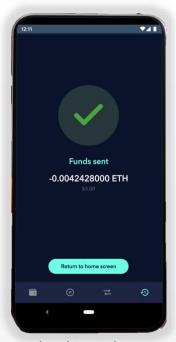


## **Arculus Enables Safe Storage for Crypto Assets**

#### **Superior User Experience**



Simply tap-to-transact with the Arculus Key card



Seamlessly send, receive, and swap cryptocurrency



Easily track and record

+0.00074074 BTC \$30.17

historical transactions

#### Convenience of a Hot Wallet with the Security of Cold Storage

Secure: Advanced three-factor authentication security across biometric, PIN and Key card and truly air-gapped

Innovative: No charging required, crypto key storage solution with encrypted NFC ("tap-to-transact")

**Convenient:** Easily send, receive, and trade crypto assets through the mobile app

App Video<sup>1</sup>

Password: Arculus2021

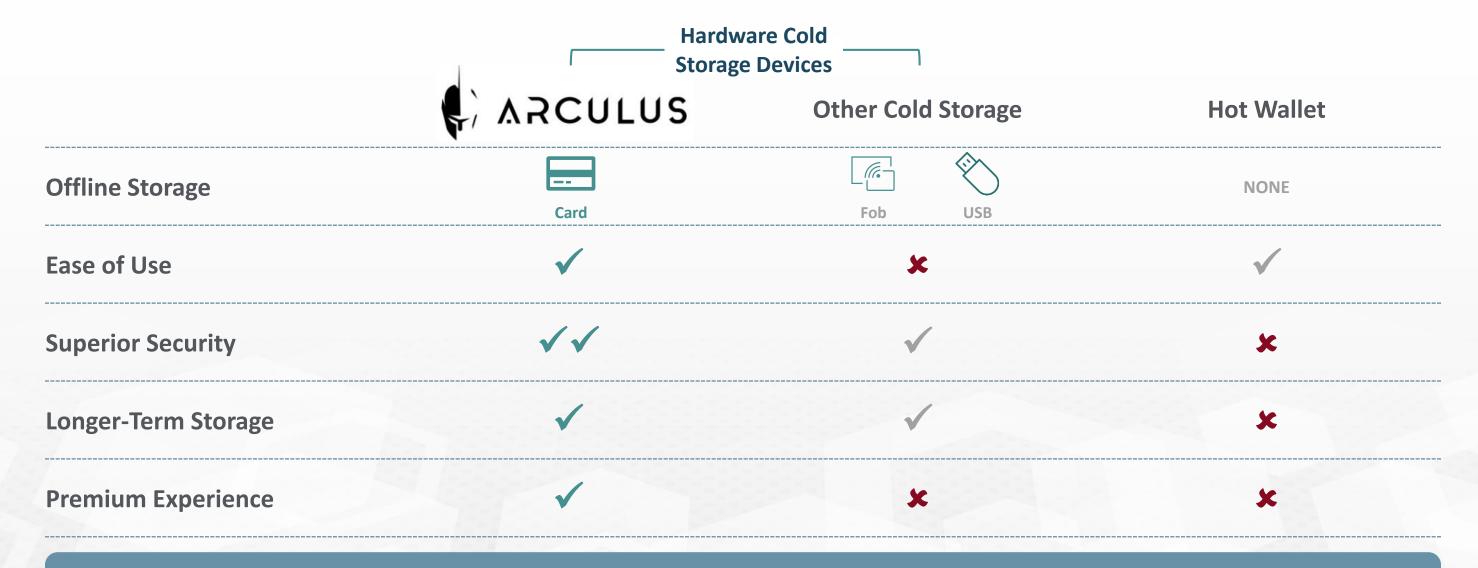
## **Arculus Cold Storage Wallet**



Easily and securely buy, swap, and store cryptocurrencies with Arculus

- The Arculus platform features the proprietary, easy-touse Arculus Wallet mobile app and slim, metal Arculus Key card
- The platform utilizes advanced three-factor authentication security across different form factors: (1) biometric; (2) PIN; and (3) Arculus Key card
- The Arculus Key card is a truly air-gapped, crypto PINS and key storage solution that easily connects to the Arculus Wallet mobile app via encrypted NFC connection ("tap-to-transact")
- The Arculus Key card does not need to be charged and does not involve manual inputs to the card itself to authenticate, only requiring the user tap the card to the phone
- Arculus provides greater depth of defense by separating the recovery passcode from the encrypted keys located on the Arculus Key card

## **Arculus Alleviates the Burdens of Other Crypto Storage Solutions**



Arculus is the only Crypto storage product that combines ease of use and superior security standards

## **Cold Storage Hardware Wallet Feature Comparison**

#### **Arculus Offers Best-In-Class User Experience**

	ARCULUS	Ledger	Trezor Model T
Form Factor	Card	Fob with Display	Fob with Display
Companion App	Arculus Wallet	Ledger Live	Trezor Wallet
Key Storage Type	Cold	Cold	Cold
Secure Element	Certified Secure Element (CC EAL6+)	Certified Secure Element (CC EAL5+)	None
Pin Code	Yes	Yes	Yes
Restoration	12 Word Passcode	24 Word Passcode	12-24 Word Passcode
Passcode Storage	Separate from Device	On Device	On Device
Interface	Tap-to-Transact Rich GUI	Manual Inputs in Fob	Manual Inputs in Fob
Authentication	Biometric, Pin, Encrypted NFC connection between card and phone	Pin & Device	Pin & Device
Charge Required?	No	Yes	Yes
Price	\$80-\$120	\$60-\$120	\$170

## Multi-Pronged Go-To-Market Strategy and Revenue Model

Opportunities to Monetize Across Hardware Sales, Transaction Fees, and Recurring User Fees





to Offer Crypto Solutions





**Established Crypto Market Platforms** 

**Consumer Sales** 

B2B2C

Markets & Channels

Revenue Model

Value Proposition

**Direct-to-Consumer (DTC)** 

**Retail (E-Commerce & In-Store)** 

**Traditional Banks** 

**Emerging FinTechs** 

**Arculus Key Card Hardware Sales** 

Sold wholesale to FI partner

**Cryptocurrency Exchanges** 

**Transaction Processers** 

**Arculus Key Card Hardware Sales** 

Sold DTC or wholesale

Transaction Fee (1)

Volume-based fee for transactions

placed through the Arculus Wallet app

Transaction Fee (1)

Volume-based fee for transactions placed through the Arculus Wallet app

Recurring User Fee<sup>(1)</sup>

Monthly fee per user

**Arculus Key Card Hardware Sales** 

Sold wholesale to crypto partner

Transaction Fee (1)

Volume-based fee for transactions placed through the Arculus Wallet app

Recurring User Fee(1)

Monthly fee per user

**Deliver best-in-class crypto cold storage product** to serve rapidly growing

consumer demand

Differentiate the FI partner's offerings with a crypto cold storage solution in a premium

metal form factor

Better serve increasing FI customer demand for crypto solutions

Differentiate the crypto partner's platform with a premium cold storage offering

Reduce customer churn to off-platform wallets that take assets and transactions away from the

crypto partner's platform and support / promote exchanges' DeFi wallets

B2B sales are assumed to include a hardware sale and the potential for transaction fees or recurring user fees depending on the partnership. Transaction fees are a revenue share arrangement with Arculus' processing partners for transactions placed through the Arculus Wallet app

#### **Diversified Revenue Model**

#### **Multiple User Monetization Opportunities**

#### **Hardware Sales**

- Direct-to-Consumer sales
- Business-to-Business sales

#### **Transaction Fees**

- Crypto currency trading fees
- eGaming trading and transfer fees

#### **Recurring Fees**

- Hot wallet subscription fees (monthly)
- Crypto/digital asset insurance fees (monthly)

#### **Example Transactions**

Customer purchases Arculus Key card

CompoSecure charges consumer per Arculus Key sold

Customer trades crypto on Arculus app

Gamers transfer currency to or from wallet via Arculus app

CompoSecure charges customer % fee based on total transaction value

Customer signs up for Arculus hot wallet

Customer purchases crypto insurance from third party insurance partner

CompoSecure charges customer customary monthly hot wallet fee

CompoSecure earns monthly fee from third party insurance provider

### **Envisioned Arculus Platform Evolution**

Offerings Are Set to Expand as the Use of Crypto Assets and Products Become Increasingly Mainstream

# **Arculus**Cold Storage

- Air-gapped, NFC-enabled true cold storage in a premium metal card
- To serve crypto wallet users that seek the enhanced security of true cold storage (B2B and B2C)

#### **Arculus + Secure Log-in**

Cold & Hot Storage

- Arculus Plus card to support both cold and hot wallets
- Hot wallet function only verifies air-gapped Arculus identity token with FIDO2 security
- Verifies identity with registered card instead of signing actual transaction
- Offers enhanced security for all crypto wallet holders, not just cold storage users

### Payments + Arculus + Secure Log-in

Payments & Storage

- Adds payment card functionality to hot and cold crypto storage platform
- Users to be able to tap card to phone to verify identity to open the Arculus Wallet app or enable transactions
- Bypass customer service
- Enables three-factor authentication

#### **Estimated Launch**

September 2021

#### **Estimated Launch**

2022

#### **Estimated Launch**

2022



## **Business Update**

#### Building & growing relationships with crypto industry leaders on differentiated products:

- Growing relationship with <u>Crypto.com</u> for metal cards across North America, Asia, and European markets. Crypto.com has over 10 million users worldwide and is a top-ten finance app in both the App Store and Google Play.
- Partnered with <u>Gemini</u> on cryptocurrency rewards metal credit card that earns up to 3% back on purchases in bitcoin or the more than 40 cryptocurrencies. Gemini has announced a waitlist of more than 250,000 customers.

#### Expanding security and authentication capabilities Nok Nok partnership:

 Collaborating with <u>Nok Nok</u> to increase the security and authentication for Arculus and CompoSecure's core payment cards. Additional capabilities gained with this new platform also set the stage for CompoSecure to offer the industry's first metal "Internet Credit Card" that offers Fast Identity Online (FIDO) log-in and authentication capabilities.

#### Arculus Launch

- Arculus will go live in September for direct to consumer sales and B2B partnerships. Product is in final beta testing.
- Marketing efforts kicking off in August ramping up to multi-channel B2C and B2B plan in September

## **Business Update – Industry Trends**

# Hacks continue to drive additional consumer awareness about security and the need to protect their cryptocurrency

- March 2021: hacker stole \$5.7M from cryptocurrency platform roll by obtaining private key from hot wallet<sup>(1)</sup>
- April 2021: critics accuse Turkish cryptocurrency exchange CEO of fleeing country with \$2B worth of customers' assets as none of the 390K active users were able to withdraw their funds<sup>(2)</sup>
- June 2021: victims receiving counterfeit Ledger Nano X hardware wallets through the mail<sup>(3)</sup>
- June 2021: founders of South Africa's largest cryptocurrency exchange vanished along with nearly \$3.6B in Bitcoin after telling investors the exchange was hacked<sup>(4)</sup>
- July 2021: hackers exploited weakness in ChainSwap's smart contract protocol allowing them to steal \$8M+ in crypto-assets<sup>(5)</sup>

#### Fund raising and competitive focus continues

- June 2021: Jack Dorsey (Square co-founded & Twitter CEO) announced their intention to build a cold storage crypto wallet "important to us to build an inclusive product that brings a non-custodial solution to the global market...requires great product design; minimal setup time, relying on existing devices, and end-to-end reliability"<sup>(6)</sup>
- June 2021: Ledger raised \$380M Series C funding reaching a valuation of \$1.5B<sup>(7)</sup>

<sup>1) &</sup>lt;a href="https://techcrunch.com/2021/03/16/5-7m-stolen-in-roll-crypto-heist-after-hot-wallet-hacked/">https://techcrunch.com/2021/03/16/5-7m-stolen-in-roll-crypto-heist-after-hot-wallet-hacked/</a>

https://www.bankinfosecurity.com/turkish-police-probe-thodex-cryptocurrency-exchange-a-1645

<sup>3)</sup> https://bitcoinmagazine.com/technical/ledger-hack-victim-scam-details

https://fortune.com/2021/06/24/bitcoin-ameer-raees-cajee-theft-south-africa/

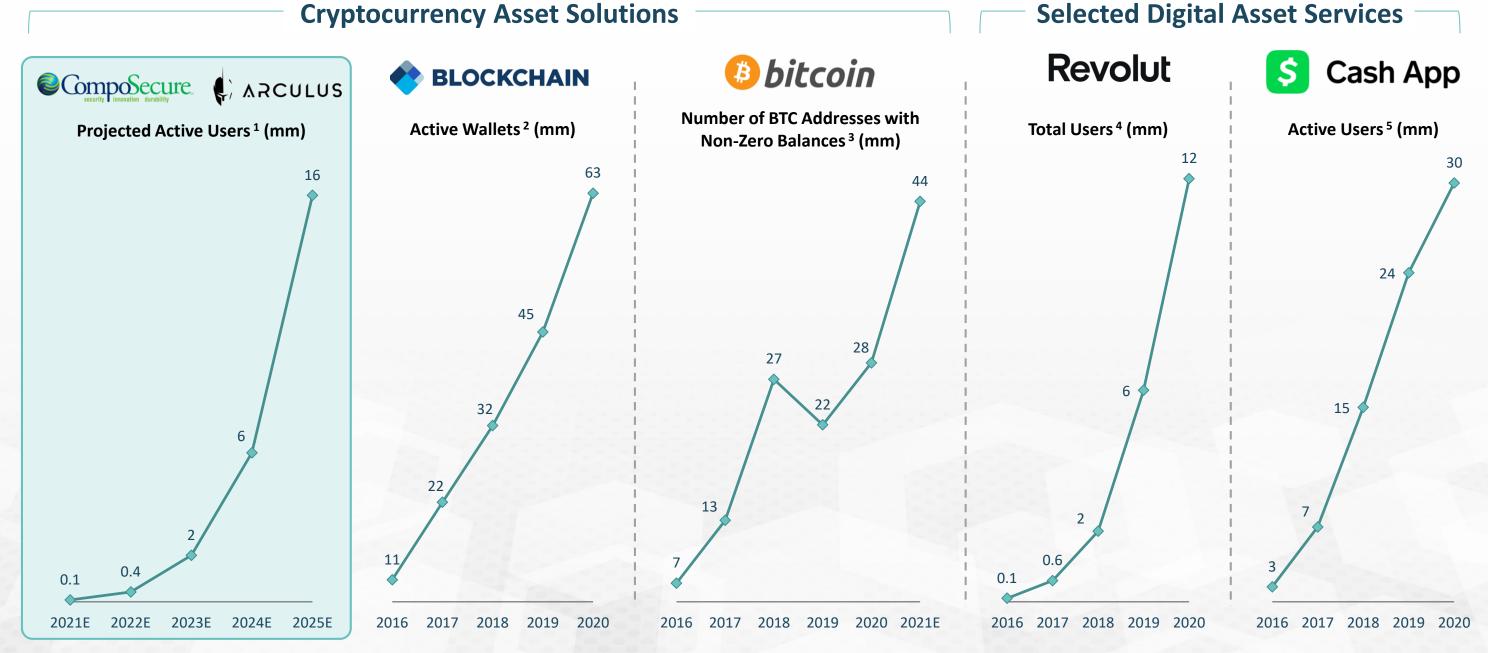
<sup>5)</sup> https://finance.yahoo.com/news/chainswap-hackers-steal-8m-crash-121056965.html

<sup>6)</sup> https://hypebeast.com/2021/6/square-bitcoin-wallet-jack-dorse

<sup>/)</sup> https://techcrunch.com/2021/06/10/ledger-raises-380-million-for-its-crypto-hardware-wallet,



## **Rapid Acceleration of Digital Asset Adoption**



Sources: Investor presentations, management estimates

<sup>&</sup>lt;sup>1</sup> Projected Active Users at year end across Arculus digital assets, eGaming, and cryptocurrency services

<sup>&</sup>lt;sup>2</sup> Source: Blockchain.com

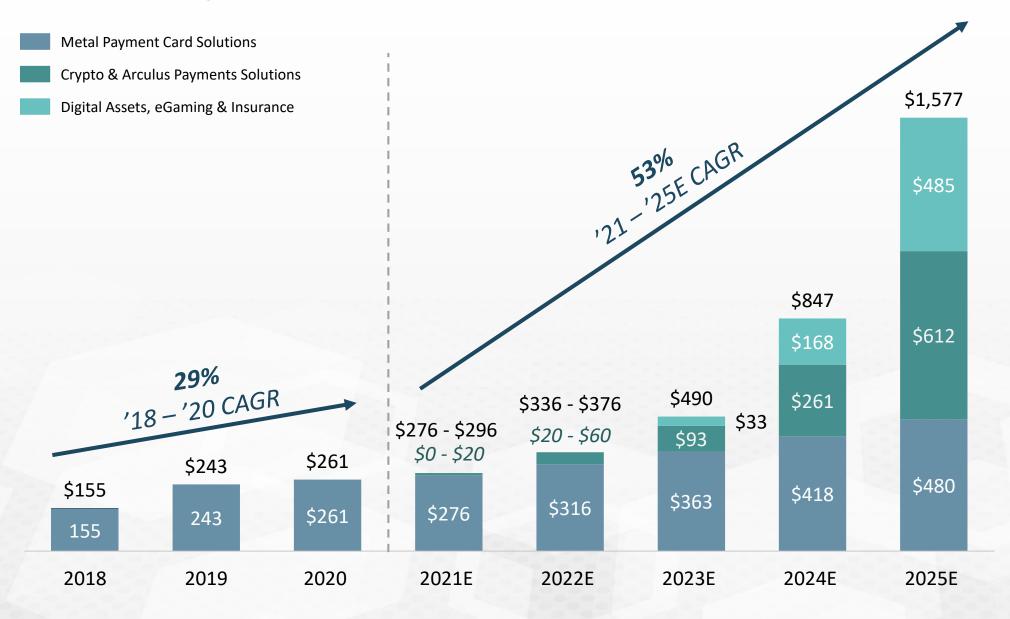
<sup>&</sup>lt;sup>3</sup> Historical data from studio.glassnode.com/metrics; 2021E non-zero address balance is projected extrapolating YTD as of February 11, 2021 through the end of 2021

<sup>&</sup>lt;sup>4</sup> https://www.businessofapps.com/data/revolut-statistics/

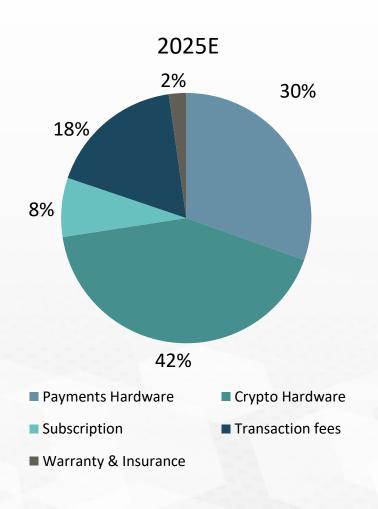
<sup>&</sup>lt;sup>5</sup>2020 user count reported as of June 2020

## **Projected Net Revenue Evolution**

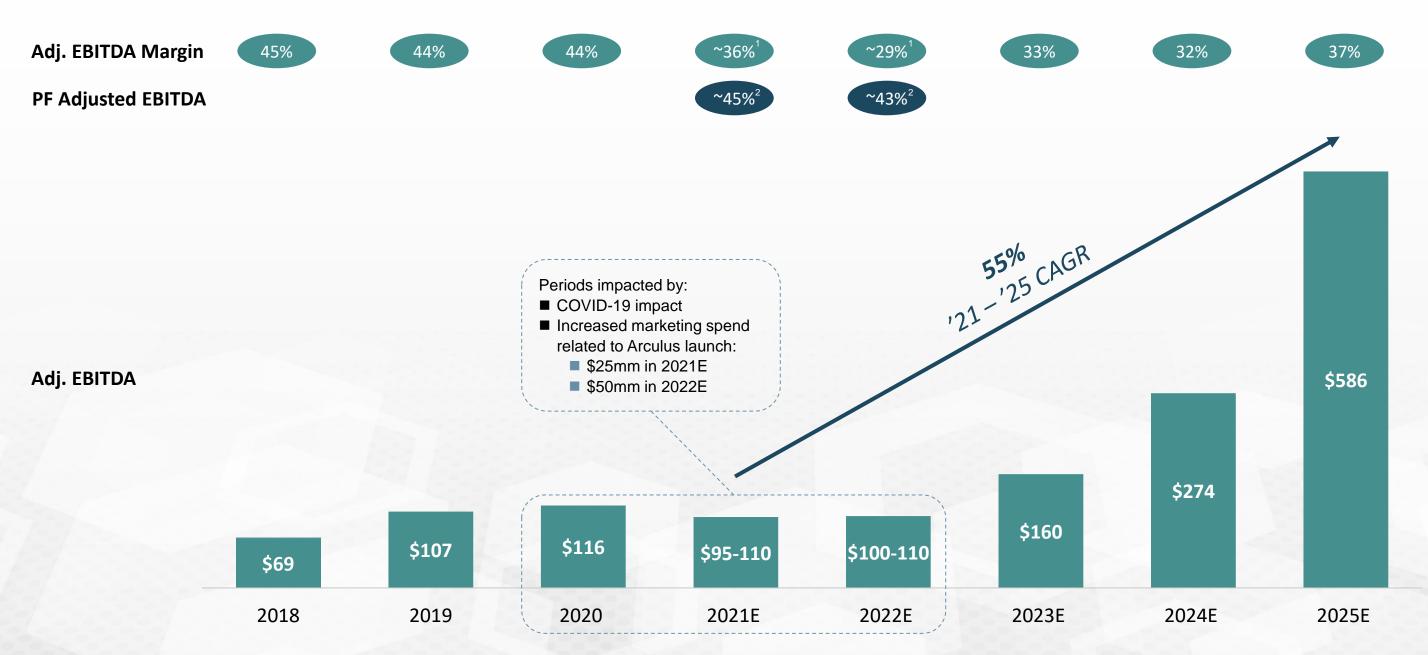
#### **Net Revenue by Solution (\$mm)**



#### **Net Revenue by Type (\$mm)**



## **Strong EBITDA and Free Cash Flow**



Source: Company financials and management estimates

Note: Margins are calculated on Net revenues

<sup>&</sup>lt;sup>1</sup> Margins based on mid-points of the 2021E net revenue (\$276mm - \$296mm), 2022E net revenue (\$336mm - \$376mm), 2021E Adj. EBITDA (\$95mm - \$110mm), and 2022E Adj. EBITDA (\$100mm - \$110mm) ranges

<sup>&</sup>lt;sup>2</sup> Pro forma adjusted to add back marketing spend related to the Arculus launch (total marketing spend of \$25mm and \$50mm in 2021E and 2022E, respectively)

# **Financial Summary**

\$mm	Q1 2021A	Q4 2020A	Q1 2020A
<b>Total Net Revenue</b>	\$64	\$54	\$80
N 0 0 0 1	100/	1.50/	450/
% QoQ Growth	19%	-16%	17%
% YoY Growth	-20%	-22%	74%
COGS	(\$30)	(\$28)	(\$38)
Gross Profit	\$34	\$26	\$42
% Margin	53%	48%	53%
SG&A	(\$8)	(\$20)	(\$13)
Operating Income	\$26	\$6	\$29
operating meanic	Ψ20	ΨΟ	Ψ2)
Net Income	\$23	\$3	\$28
(+) Interest Expense	\$3	\$3	\$1
(+) Adjustments	0	\$11	\$4
(+) D&A	\$3	\$3	\$2
	400	400	
Adj. EBITDA	\$29	\$20	\$35
% Margin	45%	37%	44%
% QoQ Growth	45%	-32%	28%
% YoY Growth	-17%	-27%	71%

## **Financial Information by Segment**

#### Metal Payment Card Solutions Arculus Crypto & Digital Assets Ecosystem

	metal rayinent cara solutions			7 11 cando en 4 pero en 2 18 1 an 7 18 2 ca 2 2 co 3 4 ca 11						
	2021E	2022E	2023E	2024E	2025E	2021E	2022E	2023E	2024E	2025E
Unit Sales (mm)	22	25	29	33	39	0.1	0.3	2	7	17
% growth	7%	15%	14%	15%	15%	-	255%	533%	229%	155%
Net Revenue (\$mm)	\$276	\$316	\$363	\$418	\$480	\$101	\$402	\$127	\$429	\$1,097
% growth	6%	15%	15%	15%	15%	-	300%	217%	238%	156%
Operating Expenses <sup>3</sup>	(156)	(178)	(205)	(237)	(272)	(3)	(23)	(55)	(161)	(368)
Marketing Expenses	(0.3)	(0.3)	(0.4)	(0.4)	(0.5)	(25)	(50)	(70)	(175)	(350)
Adj. EBITDA	\$120	\$138	\$158	\$181	\$207	(\$18)4	(\$33)5	\$2	\$93	\$379
% margin	43%	44%	44%	43%	43%	nm	nm	1%	22%	35%

<sup>&</sup>lt;sup>1</sup> Assumes mid-point of Arculus ecosystem 2021E revenue range of \$0mm – \$20mm; <sup>2</sup> Assumes mid-point of Arculus ecosystem 2022E revenue range of \$20mm - \$60mm; <sup>3</sup> Operating Expenses excludes D&A and marketing expense, but includes COGS, personnel costs, commissions, professional fees, rent, non-income taxes, public company costs, and other expenses; <sup>4</sup> Assumes mid-point of Arculus ecosystem 2021E Adj. EBITDA range of (\$25mm) - (\$10mm); <sup>5</sup> Assumes mid-point of Arculus ecosystem 2022E Adj. EBITDA range of (\$28mm)

## **Historical Levered Free Cash Flow**

(\$mm)	2018A	2019A	2020A
Adj. EBITDA	\$ 69	\$ 107	\$ 116
Cash from Change in NWC	(23)	(11)	(5)
Capex	(9)	(10)	(8)
Cash Interest Paid	(5)	(5)	(5)
Mandatory Debt Repayment	(6)	(11)	(11)
Levered Free Cash Flow <sup>1</sup>	27	71	88
Adj. EBITDA Conversion	39%	66%	76%
Levered Free Cash Flow Yield <sup>2</sup>			7%

Source: Company financials

<sup>&</sup>lt;sup>1</sup> These figures reflect the Company's historical legal structure as a pass-through entity for tax purposes that results in the Company historically not paying tax at the entity level. In the Proposed Transaction, the Company intends for CompoSecure Rollover Equity to be held in a traditional "UP-C" structure, and such equity holders will receive the benefits from a customary tax receivable agreement. Levered Free Cash Flow Yield assumes de-SPAC total equity value of \$1,258mm.



TRANSACTION OVERVIEW

#### **Transaction Overview**

#### Illustrative Sources and Uses (\$mm)

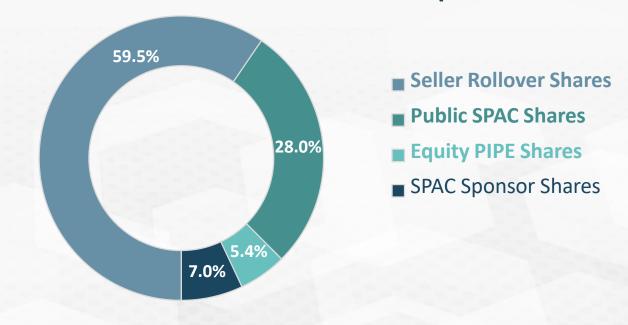
Sources	
CompoSecure Rollover Equity	\$492
SPAC Cash In Trust <sup>1</sup>	236
Common Equity PIPE Proceeds <sup>2</sup>	45
Convertible Notes Proceeds <sup>2</sup>	130
Total Sources	\$903

Uses	
CompoSecure Rollover Equity	\$492
Cash Consideration	361
Transaction Costs	50
Total Uses	\$903

#### **Pro Forma Enterprise Valuation at Close (\$mm)**

Illustrative Share Price		\$10.00
Pro Forma Shares Outstanding <sup>3</sup>		82.6
Total Common Equity Value <sup>3</sup>		\$826
Convertible Unsecured Notes		130
Pro Forma Net Debt (ex. Convertible Notes)		250
Pro Forma Enterprise Value Valuation <sup>4</sup>		\$1,206
EV / 2021E Net Revenue	\$286	4.2x
EV / 2022E Net Revenue	356	3.4x
EV / 2022E Adj. EBITDA	105	11.5x

#### Illustrative Post-Transaction Ownership<sup>1,2,3</sup>



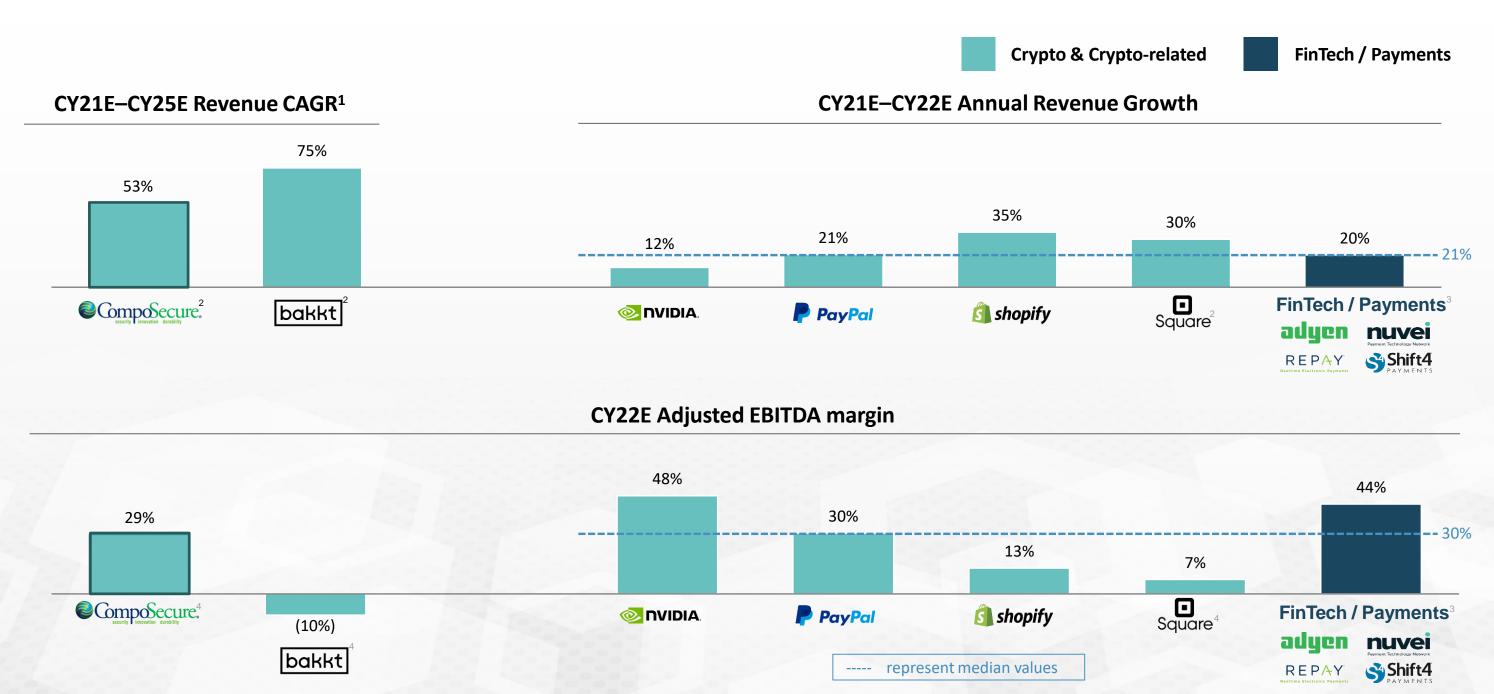
<sup>&</sup>lt;sup>1</sup>Assumes no SPAC investors redeem their shares for cash in trust

<sup>&</sup>lt;sup>2</sup> Assumes \$45mm in Common Equity PIPE and \$130mm of 5-year Convertible Unsecured Notes proceeds

<sup>&</sup>lt;sup>3</sup> Includes impact of all 5.8mm founder shares vesting at close. Excludes warrants; Excludes 7.5mm earnout shares for existing Composecure shareholders. 3.75mm shares are earned if the VWAP is at least \$15.00 over any 20 trading days within any 30-trading day period during the first 36 months; another 3.75mm shares are earned if the VWAP is at least \$20.00 over any 20 trading days within any 30-trading day period during the first 48 months

<sup>&</sup>lt;sup>4</sup> Valuation multiples based on the midpoints of estimated 2021E net revenue (\$276mm - \$296mm), 2022E net revenue (\$336mm - \$376mm) and 2022E Adj. EBITDA (\$100mm - \$110mm) ranges

## **Growth and Margins Compare Favorably to Peers**

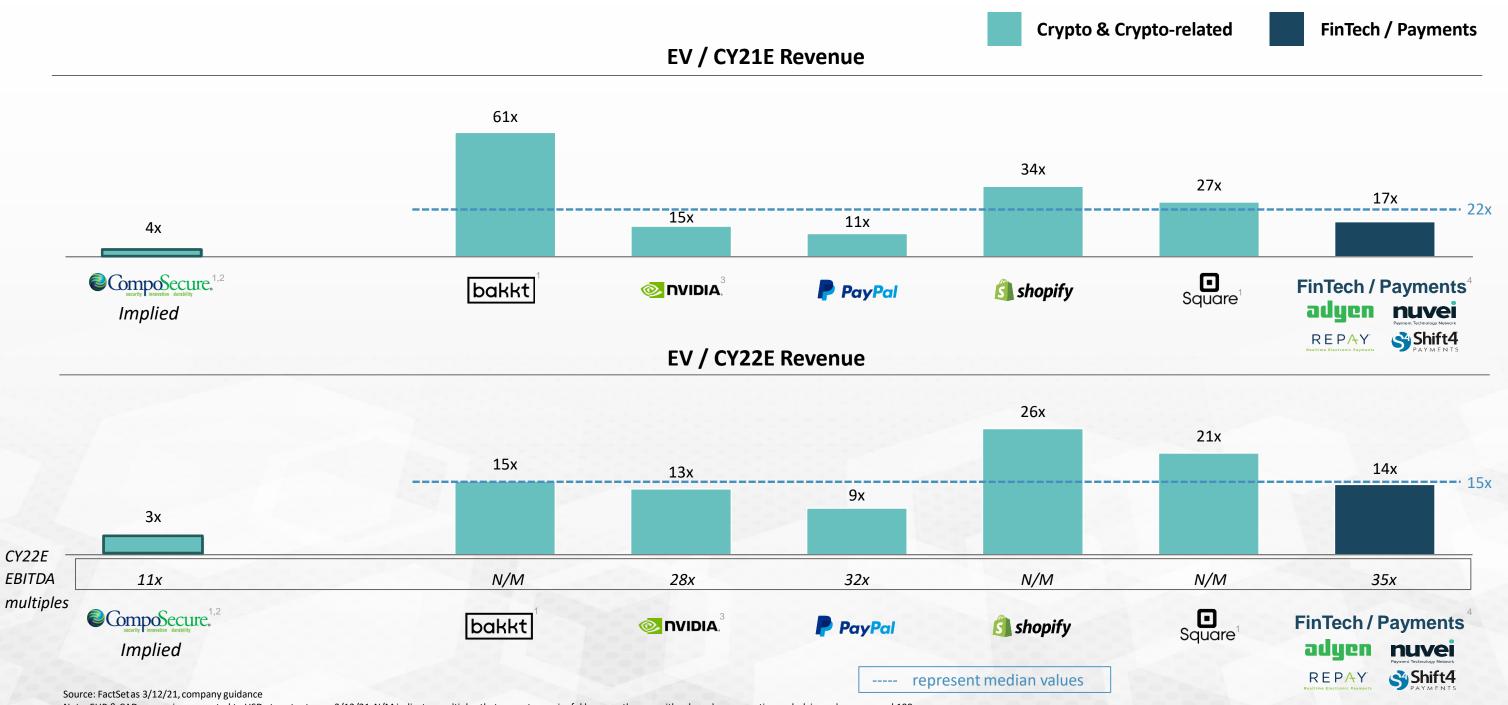


Source: FactSet as 3/12/21, company guidance

Note: EUR & CAD currencies converted to USD at spot rates on 3/12/21

<sup>&</sup>lt;sup>1</sup> CompoSecure's Revenue CAGR based on mid-point (\$286mm) of 2021E net revenue range (\$276mm - \$296mm) and 2025E projection (\$1,577mm); Adjusted to be net revenue; Metrics reflect median of peer set; Calculated as a percentage of net revenue. CompoSecure's margin calculated using midpoints of the 2022E Adj. EBITDA (\$100-110mm) and Net revenue (\$336mm - \$376mm) ranges

## **Peer Valuation Comparison**





## **Highly Seasoned and Experienced Management Team**



Jon Wilk Chief Executive Officer

25+ Years Industry Experience

**Notable Experience** 





**Tim Fitzsimmons** Chief Financial Officer

**30+ Years Industry Experience** 

Notable Experience











Gregoire (Greg) Maes Chief Operations Officer

25+ Years Industry Experience

Notable Experience





Adam Lowe, PhD Chief Innovation Officer

**10+ Years Industry Experience** 

**Notable Experience** 









Stephen Luft VP, Global Head of Sales

20+ Years Industry Experience

**Notable Experience** 





**Lewis Rubovitz** VP, Global Strategy & **Business Development** 

15+ Years Industry Experience

Notable Experience

AMERICAN REVION BAIRD



**Dori Skelding** VP, Marketing & Supply Chain

20+ Years Industry Experience

**Notable Experience** 

VISA JPMORGAN CHASE & CO.

#### **LLR Partners Overview**

#### **LLR Partners**

- Philadelphia-based middle market financial sponsor that initially invested in CompoSecure in 2015 and will continue to be the company's largest shareholder post closing
- Since founded in 1999, has raised over \$5bn across six progressively larger funds, closing most recent fund at \$1.8bn in Oct. 2020
- 111 total investments since inception across technology, payments and other sectors; 41 active portfolio companies
- In addition to CompoSecure, LLR's experience in payments includes Celero Commerce (current), DaySmart Software (current), Midigator (current), Fleet One (realized), and Heartland (realized)
- In 2019, LLR made 8 new investments, completed 22 portfolio add-on acquisitions, exited 5 investments and undertook 1 IPO

#### **Select Investments**

























#### Mitchell Hollin



CompoSecure Board
Member (since 2015)

Partner at LLR

- Partner at LLR Partners focusing on FinTech and Software; led LLR's investment in CompoSecure
- Previously, co-founded and served as Managing Director of Advanta Partners, a private equity firm focused on financial services
- Began his private equity career at Patricof & Co. Ventures (now known as Apax Partners)
- Other Current Investments: Celero Commerce,
   DaySmart Software, Midigator, PCS Retirement, Sterling
   Trading Tech, YCharts

#### **Case Study: Heartland Payment Systems**

- Mitchell Hollin led LLR's growth equity investment in Heartland Payment Systems in 2001
- As board member from 2001 2016, he helped lead Heartland through an IPO on the NYSE in 2005 at an implied TEV of \$750mm+
- LLR realized a total MOIC of 8.4x over ~6 year hold period
- Following LLR's exit in 2007, Mitchell continued to serve as Heartland's lead director through the payments processor's \$4.3bn merger with Global Payments (NYSE: GPN) in 2016
- Stayed on the board of GPN through its subsequent ~\$22bn merger with TSYS in 2019 (NYSE: TSS)

Source: LLR Partners website and materials

## **Case Study: Forming and Scaling**



#### Pioneers in Developing the PCIe Data Storage Market



**Dr. Don Basile**Chairman (2006-2009), CEO (2008-2009), Seed Investor



**Dixon Doll, Jr.** SVP, Sales & Corp. Development (2008-2009), Seed Investor

**Leadership:** Led company through Series B raising \$66.5 million from leading investors including Dell, NEA and Lightspeed

**Business Development:** Secured three major OEM deals (HP, IBM, Dell) and initial commercial deals with key customers (Apple, Facebook) which became largest customers

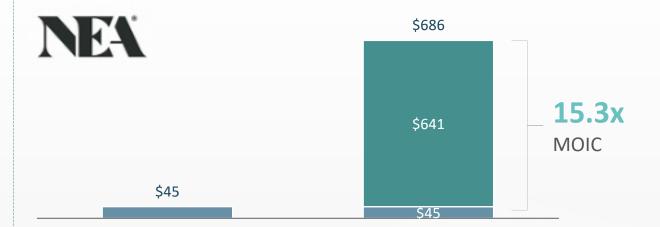
**Talent Acquisition:** Recruited and retained top talent, including Steve Wozniak as CTO (Apple Co-Founder)

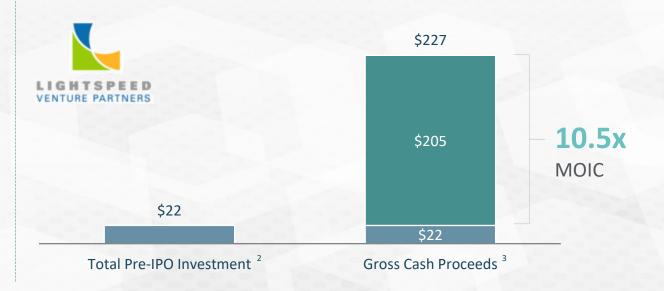
Globalization: Established operations in Europe and Asia

I like the people and the product and said I would like some greater involvement.

- Steve Wozniak (on accepting CTO job at Fusion)1

**Select Investors Estimated Returns Summary** 





<sup>&</sup>lt;sup>1</sup> Fortune Magazine, "The man who wooed Woz,", February 13, 2009

<sup>&</sup>lt;sup>2</sup> NEA investments include Seed, Series A, B, C, and Conv. Notes (2007-2010); Lightspeed investments include Series B and C and Conv. Notes (2009-2010)

<sup>&</sup>lt;sup>3</sup> Including Series B repurchase and post-IPO dispositions

Source: Public Filings, Capital IQ, Forbes

## **Convertible Notes Private Placement – Summary Terms**

Instrument:	Exchangeable Senior Unsecured Notes
Issuer:	CompoSecure Holdings, L.L.C.
Amount:	\$130 million
Maturity:	5 years, NC-3 customary provisional call right at 130% of conversion price (initially \$14.95)
Ranking:	Senior Unsecured Notes
Coupon:	7.0% cash
<b>Conversion Rights:</b>	\$11.50 conversion price (up 15%)

# **Financial Summary**

\$mm	2018A	2019A	2020A
Total Net Revenue	\$155	\$243	\$261
% YoY Growth		57%	7%
COGS	(\$76)	(\$115)	(\$128)
Gross Profit	<b>\$79</b>	\$128	\$133
% Margin	51%	53%	51%
SG&A	(\$22)	(\$41)	(\$48)
Operating Income	\$57	\$87	\$84
Net Income	\$52	\$81	\$78
(+) Interest Expense	\$5	\$5	\$6
(+) Adjustments	\$5	\$12	\$22
(+) D&A	\$8	\$9	\$10
Adj. EBITDA	\$69	<b>\$107</b>	\$116
% Margin	45%	44%	44%
% YoY Growth		55%	8%

### **Adjusted EBITDA Reconciliation**

\$mm	2018A	2019A	2020A
Net Income	\$52	\$81	\$78
Interest Expense	5	5	6
Depreciation and Amortization	8	9	10
Unadjusted EBITDA	\$65	\$96	\$94
ISO Litigation Costs	2	3	0
Non-Cash Stock Option Expense	1	1	2
Non-Recurring Transaction Costs	0	0	4
Board of Director Costs	0	0	0
Deferred compensation	0	0	0
Special Distribution	0	7	16
Out-of-Period	(0)	0	0
Expense Accruals	1	(1)	0
<b>Total EBITDA Adjustments</b>	\$5	\$12	\$22
Adjusted EBITDA	\$69	\$107	\$116

- ISO Litigation Costs: Adds back nonrecurring expenses associated with the ISO litigation
- Non-Cash Stock Option Expense: Non-cash stock option expenses related to the executive incentive plan
- Nonrecurring Transaction Costs: Transaction related costs associated with prior transaction processes and paid to Merrill Communications, BDO USA, Edgar Dunn and Battelle
- **Board of Director Costs**: Board of Directors fees, travel and related expenses associated with the Company's Board of Directors for board meetings
- **Deferred Compensation**: Exclusion of deferred compensation expense as Management does not expect the plan to continue in its current form post-IPO
- **Special Distribution**: Adjustment to add back special distributions to Class C unit holders that was expensed in 2019A and 2020A. The distributions are akin to equity distributions
- Out-of-Period Adjustments: Includes an (i) insurance audit that presents historical insurance expense as though the audit assessments charged at the end of the insurance policy period were included in the monthly insurance expense as well as a (ii) a sales & use tax adjustment that reverses the December 2018 overaccrual for commercial activity sales tax in the state of Ohio in connection with the May 2015 LLR Acquisition
- 8 Expense Accrual Adjustments: Expense accrual adjustments reflecting the ISO Commissions Accrual, PTO Expense, DI Licensing Accrual, Price Concessions for Two Customers, a Customer Rebate and a Bonus Expense

### **Balance Sheets**

(\$mm)	2018A	2019A	2020A
Assets			
Current Assets			
Cash & cash equivalents	\$3	\$ 27	\$ 13
Restricted cash	10	-	-
Accounts receivable, net	25	19	9
Inventories	12	18	30
Prepaid expenses and other Current assets	2	1	1
Total Current Assets	52	65	53
Property and equipment, net	29	30	28
Deposits and other assets	0	0	0
Total assets	82	96	81
Liabilities and Members' Equity			
Current Liabilities			
Accounts payable	3	3	2
Accrued expenses	28	15	15
Line of credit	18	-	
Current portion of long-term debt	10	14	24
Total current liabilities	58	32	42
Long-term debt, net of deferred finance costs	57	117	212
Line of credit			20
Other liabilities	2	2	0
Total liabilities	117	151	274
Members' Equity	(35)	(56)	(193)
Total liabilities and members' equity	82	96	81

## **Statements of Operations**

(\$mm)	2018A	2019A	2020A
Revenue			
Net sales	\$155	\$243	\$261
Cost of sales	76	115	128
Gross Profit	79	128	133
Operating expenses			
Selling, general and administrative	22	41	49
Income from operations	57	87	84
Other expense			
Interest expense, net of interest income	(5)	(5)	(5)
Amortization of deferred financing costs	(1)	(1)	(1)
Net Income	52	81	78

### **Statements of Cash Flows**

(\$mm)	2018A	2019A	2020A
Cash flows from operating activities			
Net income	\$ 52	\$ 81	\$ 78
Adjustments to reconcile net income to net cash provided by operating activities			
Depreciation	8	9	10
Equity compensation expense	1	2	2
Inventory reserve	0	(0)	1
Amortization of deferred finance costs	1	1	1
Changes in assets and liabilities			
Accounts receivable	(20)	6	10
Inventories	(4)	(6)	(13)
Prepaid expenses and other assets	(1)	1	(0)
Other liabilities	(0)	0	(2)
Trade accounts payable	2	(0)	(0)
Accrued expenses	0	(13)	0
Net cash provided by operating activities	39	81	87
Cash flows from investing activities			
Acquisition of property and equipment	(9)	(10)	(8)
Net cash used in investing activities	(9)	(10)	(8)
Cash flows from financing activities			
Proceeds from line of credit	29		20
Payment of line of credit	(11)	(18)	-
Proceeds from term loan		76	118
Payment of term loan	(6)	(11)	(11)
B unit preference payment	(1)	-	-
B unit earnout distribution	(17)	-	_
Deferred finance costs related to debt origination		(1)	(3)
Distributions to members	(33)	(104)	(217)
Net cash used in financing activities	(39)	(58)	(93)
Net increase (decrease) cash, cash equivalents and restricted cash	(9)	14	(13)
Cash, cash equivalents and restricted cash, beginning of year	22	13	27
Cash, cash equivalents and restricted cash, end of year	13	27	13
Supplementary disclosure of cash flow information			
Cash paid during the year for interest	5	5	5

Source: Company financials

## **Adjusted EBITDA Reconciliation**

<b>\$mm</b>	Q1 2021A	Q4 2020A	Q1 2020A
Net Income	\$23	\$3	\$28
Interest Expense	3	3	1
Depreciation and Amortization	3	3	2
Unadjusted EBITDA	\$29	<b>\$9</b>	\$31
Non-Cash Stock Option Expense	\$0	\$0	\$0
Non-Recurring Transaction Costs	\$0	\$1	\$1
Special Distribution	\$0	\$10	\$3
<b>Total EBITDA Adjustments</b>	\$0	\$11	\$4
Adjusted EBITDA	\$29	\$20	\$35

- Non-Cash Stock Option Expense: Non-cash stock option expenses related to the executive incentive plan
- Nonrecurring Transaction Costs: Transaction related costs associated with prior transaction processes and public readiness paid to KPMG, Morgan Lewis, Merrill Communications, BDO USA, Edgar Dunn, S&P and Battelle
- Special Distribution: Adjustment to add back special distributions to Class C unit holders that was expensed in Q4 2020A and Q1 2020A. The distributions are akin to equity distributions

## **Balance Sheets**

\$mm	Q1 2021A	2020A
Assets		
Current Assets		
Cash and cash equivalents	\$5	\$13
Accounts receivable, net	25	8
Inventories	31	30
Prepaid expenses and other current assets	2	2
Total current assets	63	53
Property and equipment, net	25	28
Right of use asset, net	6	0
Deposits and other assets	1	0
Total assets	95	81
Liabilities and Members' Deficit		
Current Liabilities		
Current portion of long-term debt	24	24
Current portion of lease liabilities	1	0
Accounts payable	5	2
Bonus payable	2	4
Accrued Expenses	9	12
Total current liabilities	41	42
Long-term debt, net of deferred finance costs	206	212
Lease liabilities	6	0
Line of credit	15	20
Total liabilities	268	274
Members' Deficit	(173)	(193)
Total liabilities and members' deficit	95	81

# **Statements of Operations**

<u>\$mm</u>	Q1 2021A	Q1 2020A
Revenue		
Net sales	\$64	\$80
Cost of sales	30	38
Gross profit	34	42
Operating Expenses		
Selling, general and administrative	8	13
Income from operations	26	29
Other expense		
Interest expense, net of interest income	(3)	(1)
Amortization of deferred financing costs	0	0
Net income	23	28

## **Statements of Cash Flows**

\$mm	Q1 2021A	Q1 2020A
Cash flows from operating activities		
Net income	\$23	28
Adjustments to reconcile net income to net cash provided by operating activities		
Depreciation	3	2
Equity-based compensation expense	0	0
Amortization of deferred finance costs	0	0
Changes in assets and liabilities		
Accounts receivable	(17)	(7)
Inventories	(1)	(2)
Prepaid expenses and other assets	0	0
Deposits and other assets	(1)	0
Right of use assets	(6)	0
Accounts payable	2	6
Accrued expenses	(4)	(4)
Lease Liabilities	7	0
Other liabilities	0	0
Net cash provided by operating activities	6	23
Cash flows From investing activities		
Acquisition of property and equipment	0	(5)
Net cash used in investing activities	0	(5)
Cash flows From financing activities		
Proceeds from line of credit	0	20
Payment of line of credit	(5)	0
Payment of term loan	(6)	(4)
Distributions to members	(3)	(25)
Net cash used in financing activities	(14)	(9)
Net (decrease) increase in cash and cash equivalents	(8)	9
Cash and cash equivalents, beginning of period	13	27
Cash and cash equivalents, end of period	5	36
Supplementary disclosure of cash flow information		7 7 7
Cash paid for interest expense	3	1

# **Trading Comparables – Group**

	_	Revenu	e growth	Revenue CAGR	Gross margin	Adj. EBITDA margin	EV / R	evenue	EV / Adj. EBITDA
(\$bn)	Firm value	CY21E	CY22E	CY21E - CY25E	CY22E	CY22E	CY21E	CY22E	CY22E
CompoSecure. 1,2	\$1.2	10%	24%	53%	52%	29%	4x	3x	11x
Crypto and Crypto-related									
<b>⊚</b> ⊓VIDIA <sup>3</sup>	\$323.0	33%	12%	N/A	63%	48%	15x	13x	28x
PayPal	292.0	20%	21%	N/A	N/A	30%	11x	9x	32x
<b>shopify</b>	139.6	38%	35%	N/A	53%	13%	34x	26x	N/M
■ Square <sup>1</sup>	117.3	49%	30%	N/A	31%	7%	27x	21x	N/M
bakkt 1	3.3	N/A	307%	75%	N/A	(10%)	61x	15x	N/M
Median		36%	30%	N/A	53%	13%	27x	15x	30x
FinTech / Payments									
adyen	\$68.3	41%	39%	N/A	N/A	62%	59x	43x	68x
nuvei Payment Technology Network	9.2	54%	18%	N/A	81%	43%	16x	13x	31x
Shift41	8.3	41%	22%	N/A	61%	39%	18x	15x	38x
REPAY Realtime Electronic Payments	2.5	19%	16%	N/A	75%	44%	13x	12x	26x
Median		41%	20%	N/A	75%	44%	17x	14x	35x

Source: FactSet as 3/12/21, company guidance

Note: Presented in descending order based on Firm values; EUR & CAD currencies converted to USD at spot rates on 3/12/21; N/M indicates multiples that are not meaningful because they are either based on a negative underlying value or exceed 100x

## **Trading Comparables – Metal Card Payment Solutions**

	_	Revenu	e growth	Revenue CAGR	Gross margin	Adj. EBITDA margin	EV / R	evenue	EV / Adj. EBITDA
(\$bn)	Firm value	CY21E	CY22E	CY21E - CY25E	CY22E	CY22E	CY21E	CY22E	CY22E
CompoSecure, 1,2	\$1.2	7%	15%	16%	<sup>3</sup> 50%	43%	-	-	-
Metal Card Payment Solutions  High-growth Industrial Tech									
solar <mark>edge</mark>	\$15.3	25%	23%	N/A	34%	19%	8x	7x	36x
COGNEX	13.9	18%	13%	N/A	76%	35%	14x	13x	37x
UNIVERSAL DISPLAY	9.8	29%	24%	N/A	79%	50%	18x	14x	29x
shoals schools	6.2	33%	53%	N/A	41%	35%	27x	17x	49x
Median		27%	24%	N/A	59%	35%	16x	14x	36x
Other select high-quality Indu	strial Tech								
ROPER	\$50.4	14%	4%	N/A	63%	39%	8x	8x	20x
TRANSDIGM GROUP INC.	51.1	(1%)	13%	N/A	55%	47%	10x	9x	19x
<b>沙。ZEBRA</b>	27.0	14%	4%	N/A	47%	23%	5x	5x	22x
DOLBY.	9.4	8%	7%	N/A	89%	41%	7x	7x	17x
mercury	4.0	18%	13%	N/A	45%	22%	4x	3x	16x
Median		14%	7%	N/A	55%	39%	7x	7x	19x

Source: FactSet as 3/12/21, company guidance

Note: Presented in descending order based on Firm values; N/M indicates multiples that are not meaningful because they are either based on a negative underlying value or exceed 100x

<sup>&</sup>lt;sup>1</sup> Adjusted to be net revenue. EBITDA margins calculated based on net revenues as well; <sup>2</sup> CompoSecure growth rates, margins, CAGR are based on mid-points of the 2021E Net revenue (\$276mm - \$296mm), 2022E Net revenue (\$336mm - \$376mm) and 2022E Adj. EBITDA (\$100mm - \$110mm) ranges. Multiples are derived from the mid-points of these ranges as well; <sup>3</sup> Represents CY20A gross margin

### **Risk Factors**

- The COVID-19 pandemic has had a negative impact on our business and, if the pandemic continues or worsens, these impacts could be amplified and have a material adverse effect on our business, financial condition and results of operations.
- We may not be able to sustain our revenue growth rate in the future.
- We may fail to retain existing customers, including American Express and JPMorgan Chase which constituted 40% and 33%, respectively, of our total net revenue for the year ended December 31, 2020, or attract new customers.
- Data and security breaches could compromise our systems and confidential information, cause reputational and financial damage, and increase risks of litigation.
- We may be subject to system outages, data loss or other interruptions affecting our operations.
- We may be adversely affected by disruptions at our primary production facilities.
- We may have disruptions in our operations or supply chain.
- Cryptocurrency wallet storage systems, like Arculus, are subject to potential illegal misuse, risks related to a loss of funds due to cryptocurrency theft, security and cybersecurity risks, and system failures.
- We have limited experience in the Arculus ecosystem. We cannot be certain that our new offerings such as Arculus will be able to generate revenues that we project, or at all.
- Regulatory changes or actions may restrict the use of Arculus or cryptocurrencies or subject us to additional regulation and oversight in a manner that adversely affects our business.
- We may be unable to safeguard against misappropriation or infringement of our intellectual property.
- We may not be able to recruit, retain and develop qualified personnel.
- We may be unable to develop and introduce new products and services in a timely manner.
- If we fail to comply with the standards of the PCI Security Standards Council or other industry standards such as Payment Networks certification standards, our designation as a registered service provider could be suspended or terminated and our customers could terminate their agreements with us and refuse to do business with us.
- Our business is dependent on consumer and business spending.
- Our international sales subject us to additional risks.
- We have a substantial amount of indebtedness, which may limit our operating flexibility.
- The lenders under our credit facility could elect to accelerate payments due and terminate all commitments to extend further credit upon an event of default.

### **Cryptocurrency Basics**

# Joining Network & Buying Bitcoin

#### What do public and private keys actually look like?

Cryptographic keys—which underpin BTC wallets—are strings of numbers and letters:



**Public key:** Account number, similar to an e-mail address

0450863aD64A87ae8A2fE83c1aF1a8403cB53f53e486D8511 DaD8A04887e5B23522cD470243453a299fa9E77237716103A bc11A1dF38855eD6F2eE187E9c581bA6



**Address:** Shortened version of the public key, unique to each transaction.

1FfGkGsfn3DoDzwJTDmizXVVGBQKbVSwuo



**Private key:** Password granting access to a wallet's funds

Kx3uWwctbQRj3dDhMyngamfLApV6wiX7JUY7cgN1YQgijhRY7PQe

#### What does a typical wallet look like?

Wallets contain digital records of past transactions, which are used to calculate a total balance.



### **Transacting in Bitcoin**

Value sent must have been received in a

think of it like using a

past transaction-

gift card with 4BTC.

The transaction's

same wallet.

"change" goes back to

User A: the address is

different, but the funds

will likely return to the

#### How are bitcoin transactions recorded?

Sender	Address	Input (BTC)
User A	14Q7x8pWz	4.0
Receiver	Addrass	Output (RTC)

Example: User A Sends 2BTC to User B

ReceiverAddressOutput (BTC)User B12rgbuMEv2.0

Receiver Address Fee (BTC)

1EmDcxbnu

User A

Every transaction in the blockchain is tied to a unique identifier known as a transaction hash, which is a 64-character random string of letters and numbers. Transactions can be tracked using this identifier.

2.0-fees

Example ID: 0818d8a2f694077370cedf571c246d9cb3c4bd49 0bec66960df684fae618c68

# Verifying Bitcoin Transactions

#### How do miners add blocks to the blockchain?

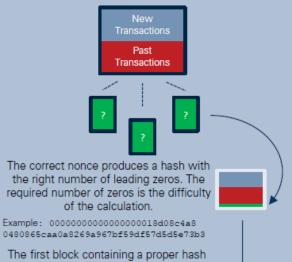
New transactions are verified and pooled.

Transaction
Transaction
Transaction

New transactions are grouped into a block with some data from past transactions.

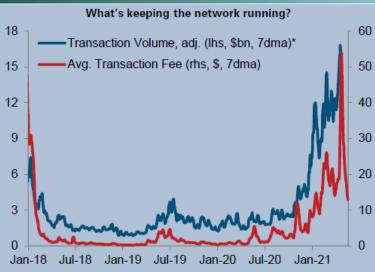


Miners solve a complex mathematical puzzle to identify the nonce that produces an output within a range determined by the bitcoin software.



becomes the newest block on the blockchain.

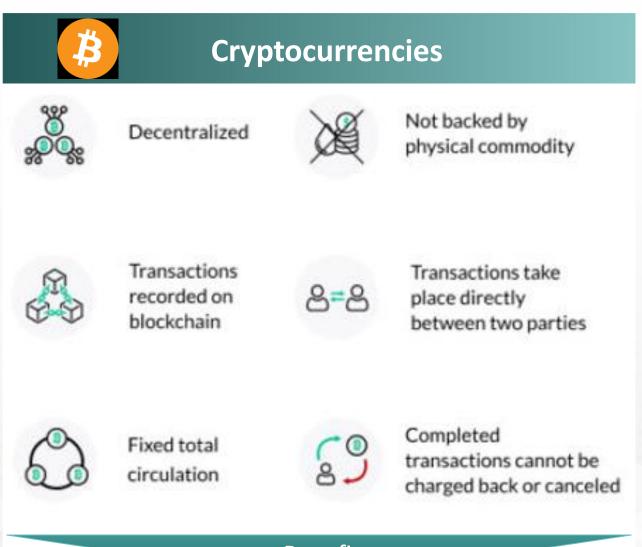
# Joining Network & Buying Bitcoin



\*Adjusted transaction volume is calculated by Coinmetrics as the dollar value of the sum of all native units transferred that day, removing noise and certain artifacts. Source: Coinmetrics, Goldman Sachs GIR.

### **Cryptocurrency Summary**

### There are several key characteristics that differentiate cryptocurrency and fiat currencies



### Benefits

- 1. Non-Dilutable Asset Inflation Immune
- 2. Enables Global Exchanges without Middlemen
- 3. Enables Smart Contracts
- 4. Creates Immutable Ledger of Transactions



### **Fiat Currencies**



Controlled by central bank



Backed by physical commodity



Transactions not recorded on blockchain or centrally available ledger



Transactions may require intermediary



Flexible total circulation



Chargebacks or canceled transactions are possible



