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MAY 2022

# Bravecoin whitepaper

# Hello **age-controlled** payments

Brave re-designs crypto-payments. Access privately to products suited to your age with the world's first payment ecosystem with age-tags

ABOUT BRAVE

# A success story since 2019

Founded back in 2019 in the Basque Country (Spain) by Saioa Arrizabalaga and Javier Gutierrez, Brave Corp is a privately held company that leverages AI and blockchain to drive positive change.

Since it's incorporation, Brave has received great Institutional support as well as ample media exposure and recognition at prestigious startup events such as San Sebastián Film Festival, WebSummit, Emprendedor XXI or South Summit, just to name a few.

Funded by



Accelerated by



Incubated by



2021 winner



2019 Award



Program member



2021 Finalist

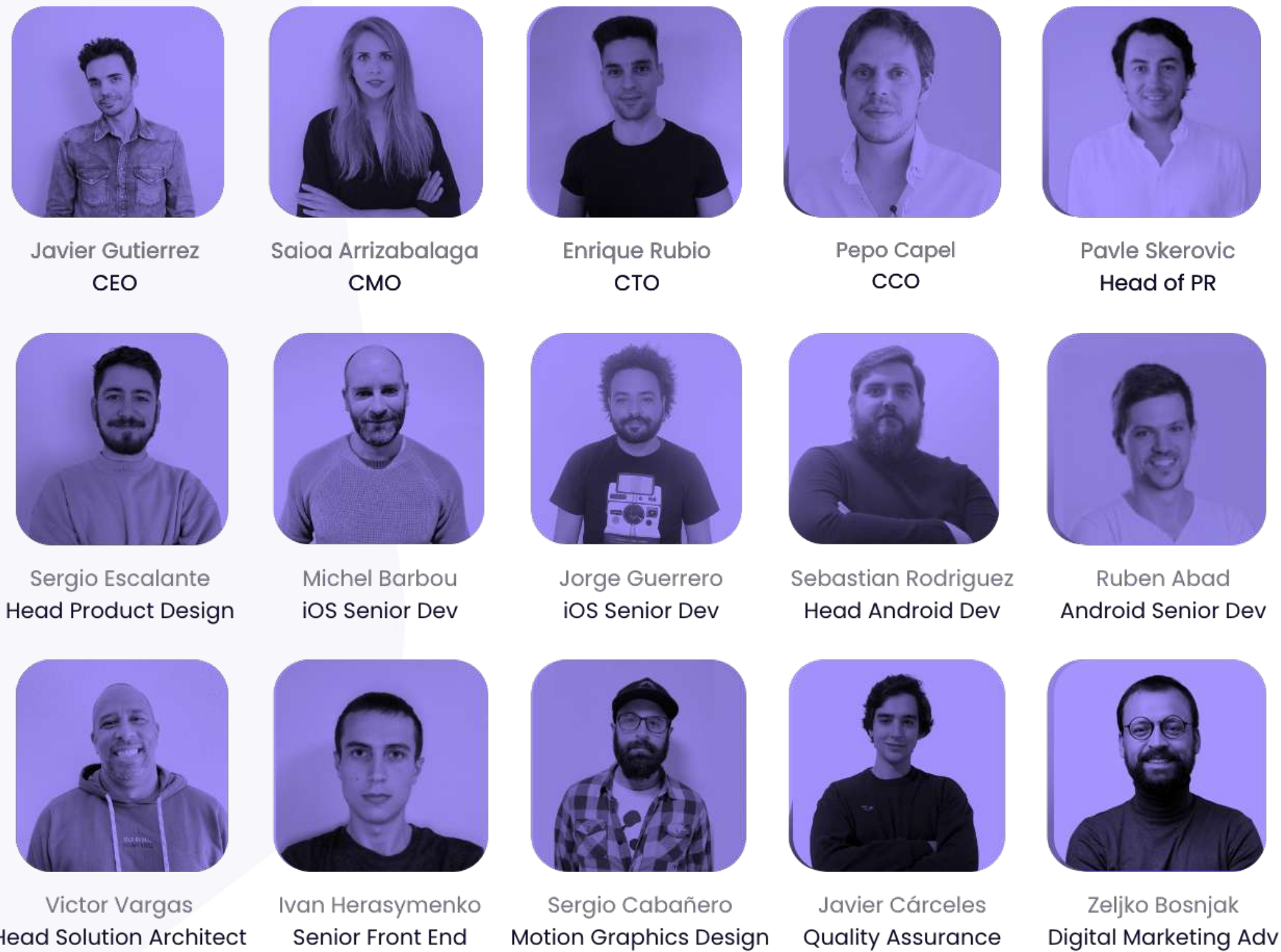


2019 Finalist



2019 Finalist





## OUR TEAM

# People with a purpose

Brave unites a passionate, multi-disciplinary team of Top professionals with a combined experience of over 230 years in Big Corporations, Formula One, Global Events, Tech Unicorns, Banking, complex Deep Tech developments...

OUR VISION

# Digital payments universally accessible

Simplicity and human-centric innovation will drive the mass  
adoption of crypto-payments



OUR MISSION

# Power age-controlled payments for a better, safer world

In a world where more and more products bear age restrictions, and consumers are increasingly aware about their privacy, we leverage AI and blockchain to make age-controlled payments simple, secure and globally accessible.

A young child is shown in profile, looking intently at a tablet device. The scene is dimly lit, with the primary light source being the glow from the tablet screen. The child's hand is visible, pointing at the screen. The background is dark, suggesting a nighttime setting.

over 500 million children under 14 years old  
get unrestricted access to contents and products for adults



## PROBLEM & SOLUTION

# Re-defining user privacy.

**Globally, over 500 million children\* get unrestricted access to adult related content and products such as alcohol, tobacco, gambling, pornography or violence, among many others.**

More and more countries are enforcing effective age-controls beyond an "I am over 18" box (self declaration) or random checks by the shop staff. But today's solutions are slow, cumbersome, and process IDs, credit cards or passports, which raise major security and privacy concern among end-users.

Boosted by the demand for more transparent user experiences as well as the increasing awareness about privacy protection, blockchain is gaining traction. Globally, over 295 million people hold crypto assets, and crypto users are predicted to triple by 2030.

Nonetheless, despite end-user demand for alternatives to conventional financial services, businesses are still hesitant with the adoption of crypto payments. The intrinsic volatility of crypto assets and the lack of ready-to-use, simple solutions that fulfill the operational needs of businesses, are barriers for the universal adoption of crypto payments.

**This is the perfect storm.**

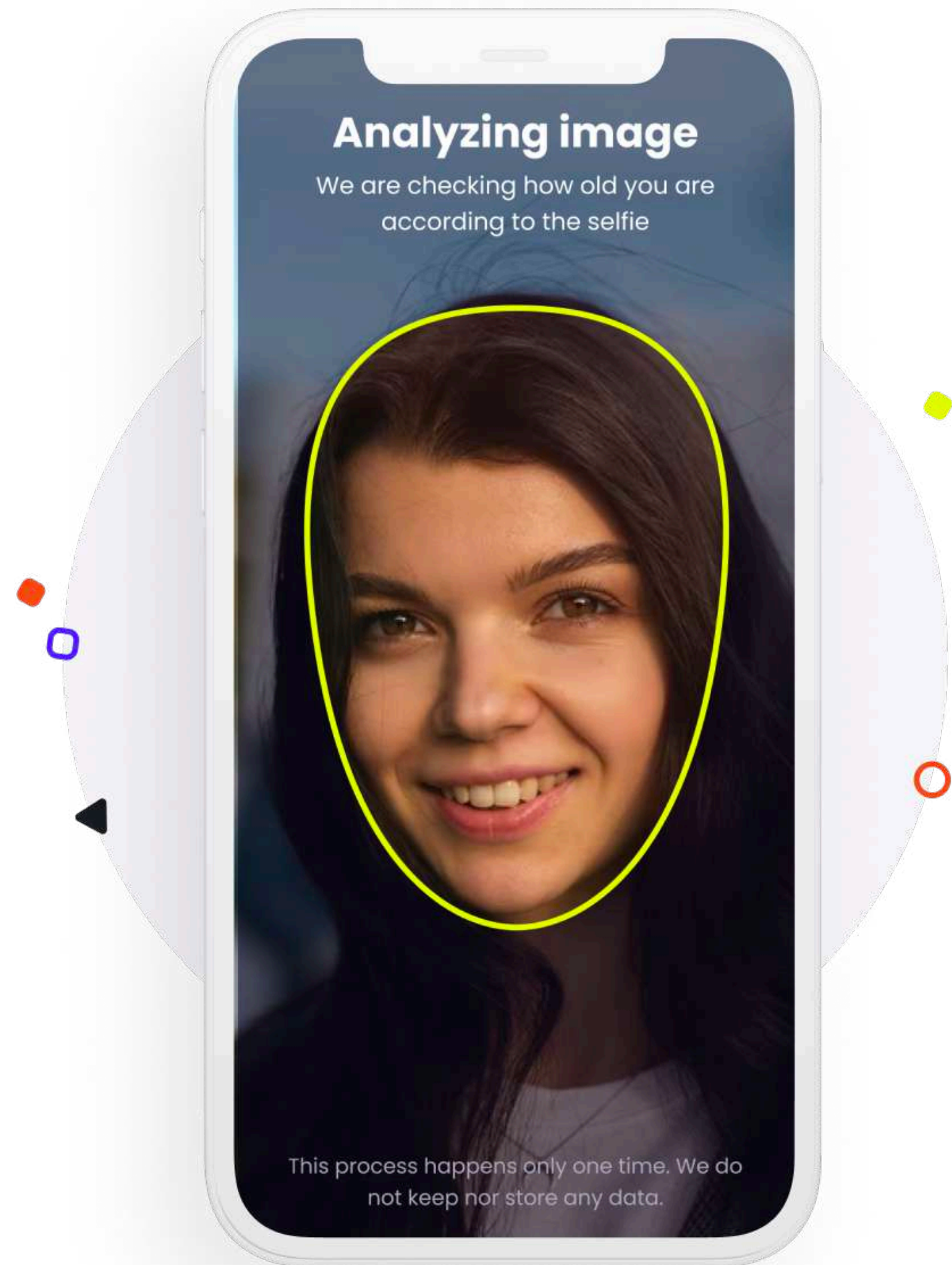
## ABOUT BRAVEPAY

# The future of payments, today.

BravePay is B2B SaaS ecosystem allowing businesses to securely and instantly manage access-controls and crypto payments. BravePay supports organizations to comply with regulations that limit underage access to specific content and products on and offline.

BravePay integrates blockchain and border control-level facial analysis algorithms, guaranteeing that user identity is completely safe and undisclosed in every user interaction with the merchant or contact ent provider.

\*source: UN data and company research



AI FOR GOOD

## Age-verification with just a selfie

**Brave simplifies the onboarding process for consumers of age-restricted products, with an instant and effortless experience.**

With just one selfie, Brave's AI analyzes the face landmarks of the users and confirms with surgical precision that they meet the legal age requirements. Instant, secure and with no personal data storage.

In exceptional cases or when required by internal policies, or regulations, Brave performs a secondary validation via

face match with an official ID or Passport.

When the whole process is completed, the images and the data from the user are deleted. We not share any information about end users with our B2B customers. to comply with regulations that limit underage access to specific content and products on and offline.

## TECHNOLOGY

# Age-controls explained

### 1. Computer Vision Algorithms.

The cornerstone of our system is a Computer Vision Algorithm. Our Deep Learning model has been designed to classify human faces of undefined individuals into 0-99 age groups. Unlike supervised machine learning methods that require manual definition of face features, our Convolutional Neural Network (CNN) has been designed to emulate the behavior of primary visual cortex cells. Trained with hundreds of thousands of human faces from different gender, age and ethnic groups, it shows over 90% precision in the binary

classification of adults/minors from a picture or video feed (close to 98% precision with the application of a logic threshold to correct the standard deviation in the 16-24 age groups).

Our innovation pipeline includes continuous improvement of our system precision with the end goal of reaching 99% precision, resulting in a drop of false negatives and user friction.

### 2. Anti-spoofing

Brave AI has been engineered to identify and mitigate system attacks that intend to bypass or distort the age-verification process.

With the progressive adoption of 3D and Infrared cameras in the newest smartphones, we will leverage this technology for additional security measurement.

### 3. Fall back methods

Users classified as minors by our Computer Vision algorithm, may be offered a second opportunity to demonstrate their legal age status through an alternative process. This “fallback” method, is marginal and completely voluntary by the user. The alternative methods differ Region to Region and are selected based on adoption, security, privacy and user experience.

### 4. Biometrics?

Brave AI does not perform any biometrical identification nor stores any biometrics from the user. The age-check is fully anonymous and does not imply a face match with databases but purely the analysis of the facial landmarks that change as a result of the aging process. Once the age-check is completed, the image is deleted.

ECOSYSTEM

# Designed for real life use

BravePay guarantees that every user session and purchase meets the age requirements while ensuring that the identity of the user stays completely anonymous.

BravePay ecosystem has endless applications to access and pay age restricted products in the on and offline world.



### Websites & Apps

Simplifies the access controls and payments in websites and mobile apps.



### Social media & dating

Ensures that social media users Meet the legal age requirements



### Video on demand

Blocks content not suited for children in video on demand platforms



### Gambling

Controls the access and payments in on and offline casinos



### Venue Access Controls

Simplifies the access controls and payments in events and night clubs.



### Automatic Sales

Regulates alcohol and tobacco purchases in vending machines and self-checkouts.



### E-commerce

Prevents underage access to age-restricted products (alcohol, cannabis...)



### Retail & hospitality

Makes crypto payments universal and simplifies cashless payments.



## VALUE PROPOSITION

# The new paradigm for crypto payments.

Brave supports organizations to perform age-checked crypto transactions on and offline, without collecting sensitive personal information from their customers.

BravePay, provides consumers with a secure, anonymous crypto wallet with a re-usable digital age-tag enabling the access to products suited to their age. During the onboarding process, with just a selfie, our computer vision algorithms

analyze the facial landmarks of users and perform highly accurate age estimation, anonymously and below a second. Once the age of an individual has been defined, the image is deleted and the age-tag is securely linked to the user wallet.

BravePro makes crypto payments simple and accessible to businesses of all sizes. A POS system, a CRM, a staff management portal, a crypto accounting system...BravePro upgrades on and offline business to advanced crypto-friendly stores.

Bravecoin is the cryptocurrency that powers BravePay ecosystem. This utility token built on the backbone of the Stellar Network, allows users to perform crypto-payments for products suited to their age, without disclosing their identity nor sharing any personal information with the merchant.



## BravePay

BravePay wallet, re-defines how users pay on and offline, making crypto experiences amazingly simple whilst ensuring that user privacy is completely safe.



### Amazingly Simple

Forget about secret keys and recovery phrases. Sign up with your email and keep full control of your personal crypto account.



### Protect Your Privacy

BravePay wallet keeps your identity 100% safe. We do not capture, store or share any personal information from you.



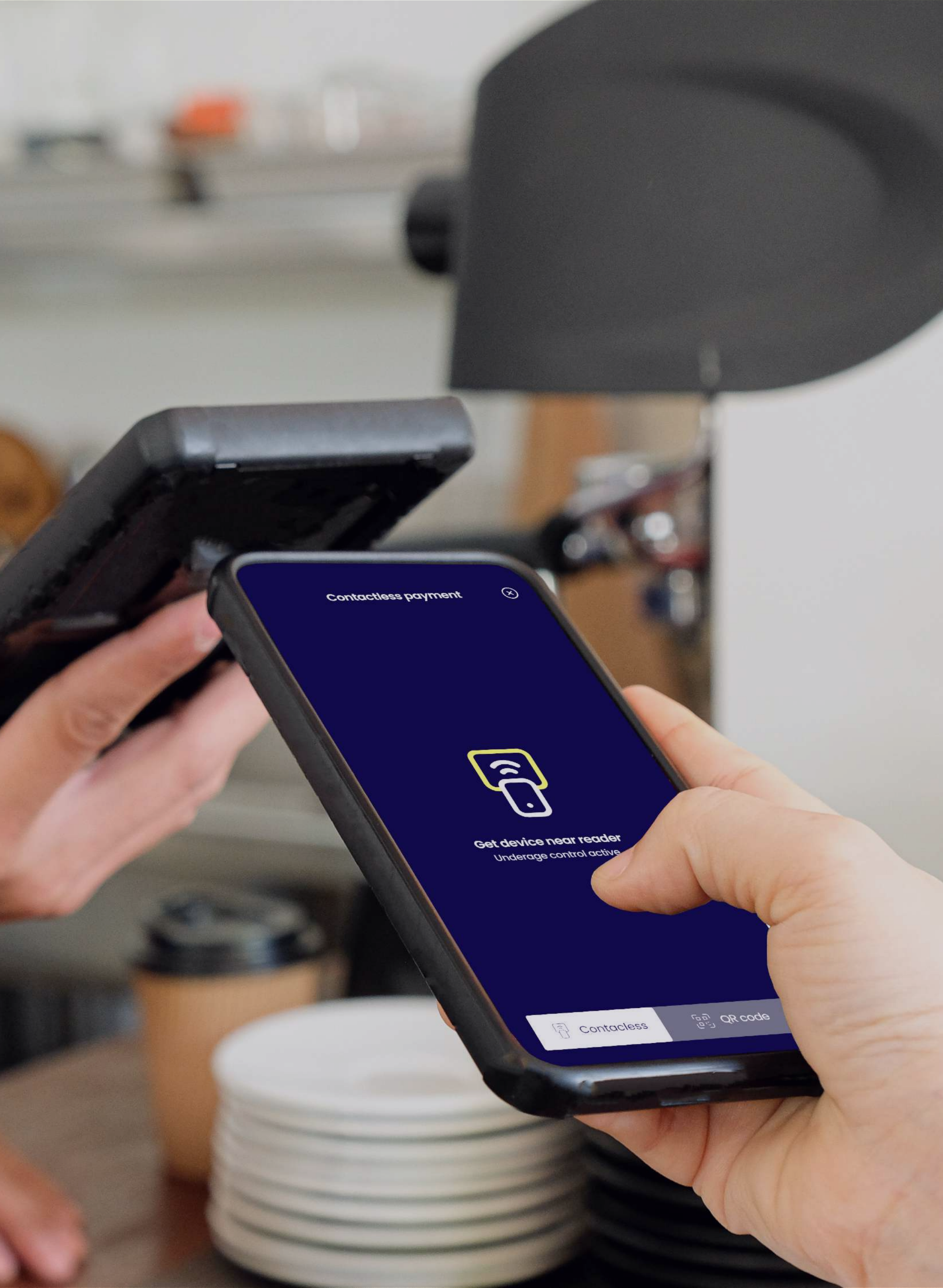
### Manage funds in one click

Send and Receive funds from your card, contact list or any other Stellar account



### Pay anytime, anywhere

Securely Pay with BravePay wallet in a fast growing network of on and offline business partners



## BravePro

BravePro makes crypto payments simple and accessible to businesses of all sizes. With BravePro, traditional stores get upgraded to crypto-friendly in minutes.



### Set up in seconds

Create your BravePro business account in just few clicks.



### No transaction fees

Unlike credit cards, BravePro has Zero transaction fees.



### Android & iOS Mobile App

Collect crypto payments from the smartphones of your store stare straight into your business account.



### Manage your inventory

Create your store product list in minutes. Prepare detailed checks and control your store inventory.



### A Powerful CRM

Control your business in one place: assign roles to your staff, get real time analytics and manage crypto-fiat transfers.



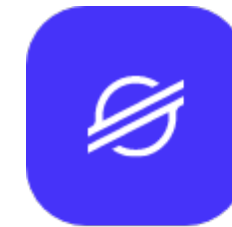
### Both you and your customers win

With Bravecoin rewards you get up to 1% of your transactions back and your customers get full refund of their "lucky purchases".



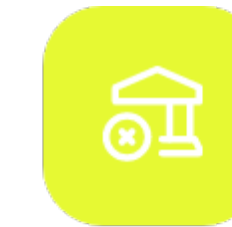
## BraveCoin

The world first cryptocurrency with age-tags and advanced tokenomics that powers BravePay payment network.



### Powered by Stellar

Brave Coin leverages the power of Stellar Network one of the fastest growing and most efficient blockchain protocols.



### Pay without bank account

Brave Coin enables universal access to banking services without the need of a bank account. With Brave, fiat, other cryptocurrencies and even phone credits become instant money.



### Total Security

Brave Coin follows the Stellar Consensus Protocol, which is asymptotically secure. As a result, no amount of computing power can overtake consensus, making our Token completely invulnerable to 51% attacks.



### Energy Efficient

Brave Coin subverts proofs entirely by authenticating transactions through set trustworthy nodes. As a result, we use far less energy than other cryptocurrencies, being more respectful with the environment.



BRAVEPAY

For the braves.

watch film



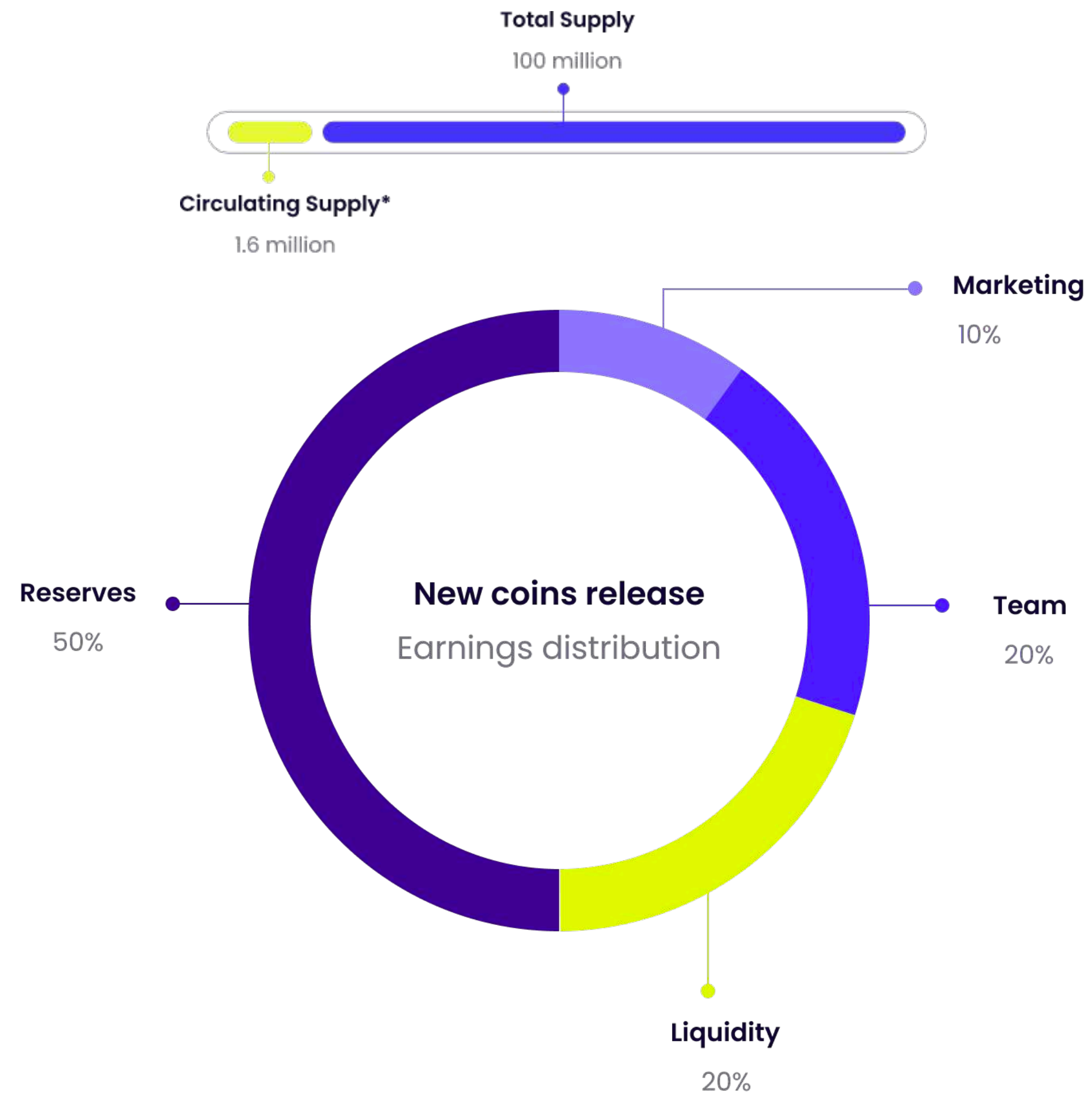
## TOKENOMICS

# Liquidity in tandem with business growth

With a limited supply of only 100 million, 20% of liquidity reserves and a progressive release, Bravecoin tokenomics have been carefully designed to stimulate sustainable growth.

Bravecoins are put in circulation following very strict rules. A fix % of the total circulating value is the baseline for every new coin release. With our algorithm, as coin price increases, the number of BravePay transactions needed to release a new Bravecoin grows in a linear manner.

This method guarantees that supply and demand are synchronized and that positive price action sufficiently rewards holders for providing liquidity to BravePay ecosystem.



## TIMELINE

**A vision without a plan  
is just a dream.**



**The retail and wholesale digital payments market is booming worldwide.**

According to the Boston Consulting Group's "Global Payments 2021: All In for Growth," its 19th annual report on the payments industry, the business of sending and receiving payments is growing.

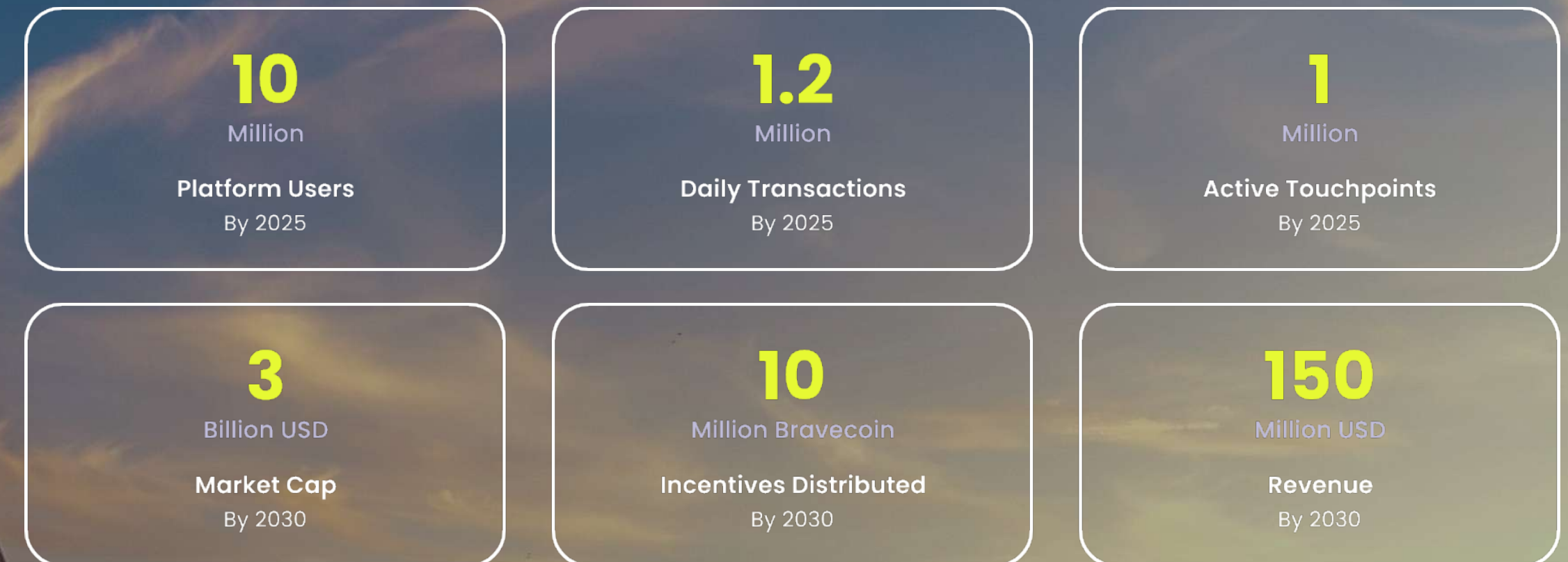
According to the BCG report, by 2030 the total global revenue from payment transactions will nearly double to \$2.9 trillion by 2030, up from roughly \$1.5 trillion in 2020.

The broader shift to digital commerce has given rise to thousands of financial technology players, such as buy-now-pay-later, direct software integrations, various cashless-payment providers, cryptocurrencies, and more. The result is projected strong 5-year growth for global payments-related revenue.

**OUR TARGETS**

# The future is now

BravePay set today the global standard for the future of age-controlled payments. The only way to predict the future is to create it.





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