

Reliable-Digital Asset Platform
for Gold market innovation



Arowana Token

White Paper

Version 0.95

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01. Summary

Gold carries meaningful significance as the most important asset armed with commodity value throughout history and even as of today. Free trade in the Western world during the 19th century was based on the gold standard system which was, of course, based on gold. Though the gold standards of Pound Sterling collapsed due to the First World War and the Great Depression, the gold standard system was restored as a new currency order, Bretton Woods System (BWS), was established by the United States following the Second World War. As internal contradictions were mounting within the Bretton Woods System, however, Richard Nixon, the 37th President of the United States of America, restricted the gold standard system, which eventually led to separation of gold and fiat currency where gold ended up being jewelry, not currency.

But because the value of gold is still highly recognized worldwide, it maintains at the high level in a stable manner. If gold ever loses its status as assets, the systems of all nations will be collapsed, which will be no better than Apocalypse where mankind only focuses on what to eat and drink. That is why all States in the world reserve the gold.

Gold is distributed for various purposes in addition to its value as assets. Gold is the metal that the mankind has been using for the longest time, only second to copper, and because of its unique nature, it has been utilized throughout many different fields ever since human history began. With exceptional malleability and ductility, gold is easy to process, rarely gets rusted or altered, and causes no harms to human skins. Hence, mankind has long used gold as accessory to carry with him/her by making it into a thin foil or thread.

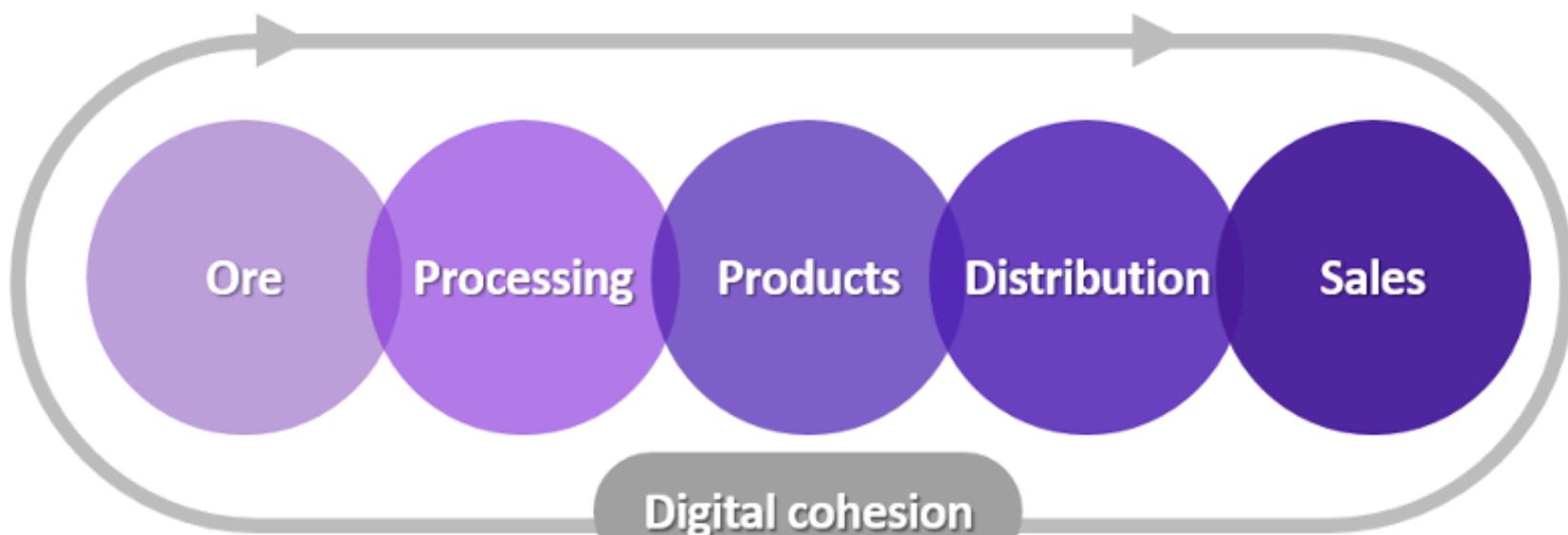
Despite the enormous value embedded in gold, however, its actual distribution market is marred with unreliability for its quality arising from the processes of excavation, processing and sales, and gold is forced to deal with other concerns, such as unwarranted transparency during trading procedures, undocumented transactions and double taxations. Moreover, not everyone can easily take part in its trading because its transport and distribution in the globe cannot be freely exercised as commodity assets.

Hence, ARW (Arowana) Project aims to instill reliability in the distribution process within the gold market by means of blockchain technology and contribute to legalization of gold-related businesses, and it also plans to provide a platform enabling digital voucher-based warranty, trading and transaction in order to ensure any individual easily engaging in trading of gold.

02. Project Introduction

2.1. Our Mission

ARW Project intends to integrate all phases from processing of gold ore to distribution and sales based on blockchain technology and digital platform. We plan to bestow reliability in gold trading and its distribution market by combining distinct technology, such as blockchain-based certification technology for authentic gold products, and guarantee organizations.



[Figure 1] Gold Lifecycle

We aim to build a new ecosystem for gold distribution and trading by forming the Aronawa gold belt through ARW Project



[Figure 2] Global Gold Value Belt

2.2. Point of Difference

- **Digital Code (Certification Service of Digital Authentic Product)**

Digital code technology is designed to enable the management of production information and history by grafting blockchain technology and invisible digital coding of all assets, including gold, diamond and art products.

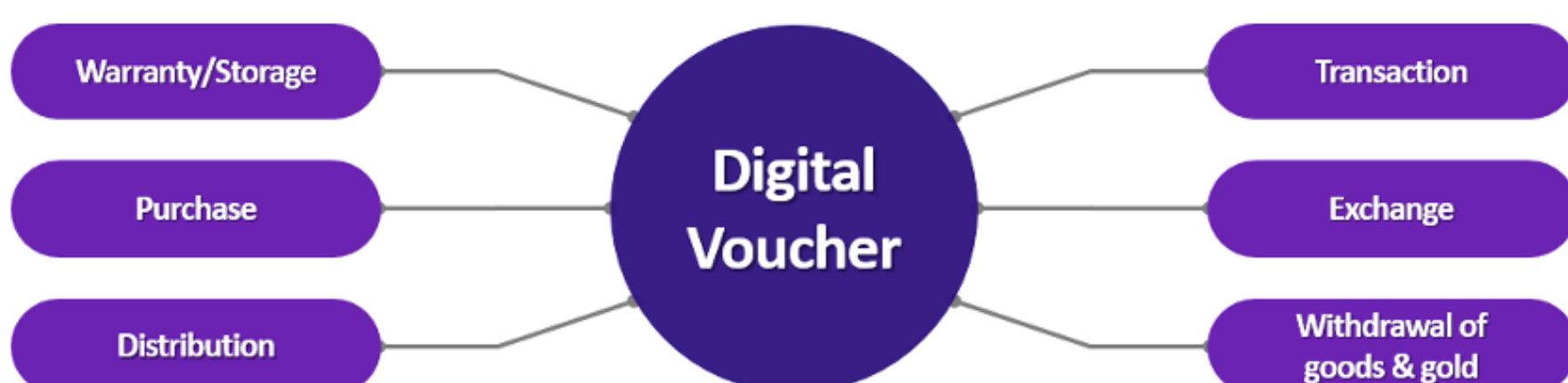
Subject	Digital Code	QR	Hologram	NFC/RFID	ARM
Visual identification	Impossible	Possible	Possible	Possible	Possible
Technical level	High	Low	Average	Average	High
Duplicability	Very difficult	Possible	Possible	Possible	Possible
Forgery/alteration	Very difficult	Possible	Possible	Possible	Possible
History tracking	Possible	Possible	Possible	Possible	Possible
Modification of manufacturing process	None	Yes	Yes	Yes	Yes
Marketing use	Possible	Possible	Possible	Possible	Possible
Applied material	All surface of object	In a shape of attached label	In a shape of attached label	In a shape of H/W chip	In a shape of H/W chip
Durability	Very high	Low	Low	Average	High

[Table 1] Digital Code

- **Digital Voucher (Innovation of Gold Asset Trading)**

Digital voucher is issued through digitalization of goods, gold and assets at the R-DAP (Reliable-Digital Asset Platform), is capable of history management, offers transparent and reliable transactions guaranteed by a reliable institution through interconnection with global market prices, and allows exchanges with goods and gold.

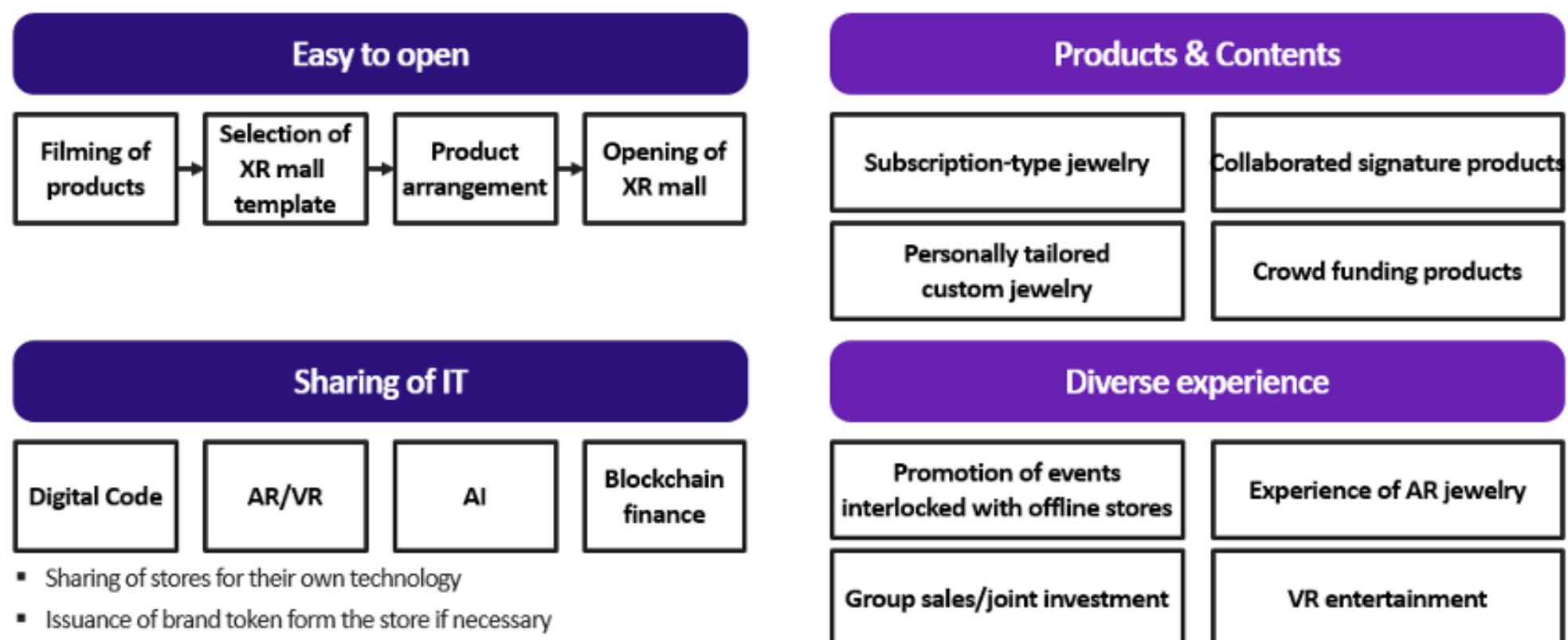
The most powerful strength of gold-based digital voucher is without spatial restrictions within transactions between individuals, businesses and nations while saving time and money.



[Figure 3] Gold-based Digital Voucher Function

• XR Shopping Mall (Diversity in Platform Experience)

ARW Project offers a convergence shopping mall where virtual reality and augmented reality are combined (XR: Extended Reality). Anyone can easily open up a store, and users are allowed to purchase gold-based digital voucher or various jewelry products through ARW token



[Figure 4] Summary of XR convergence shopping mall

2.3. Business Model

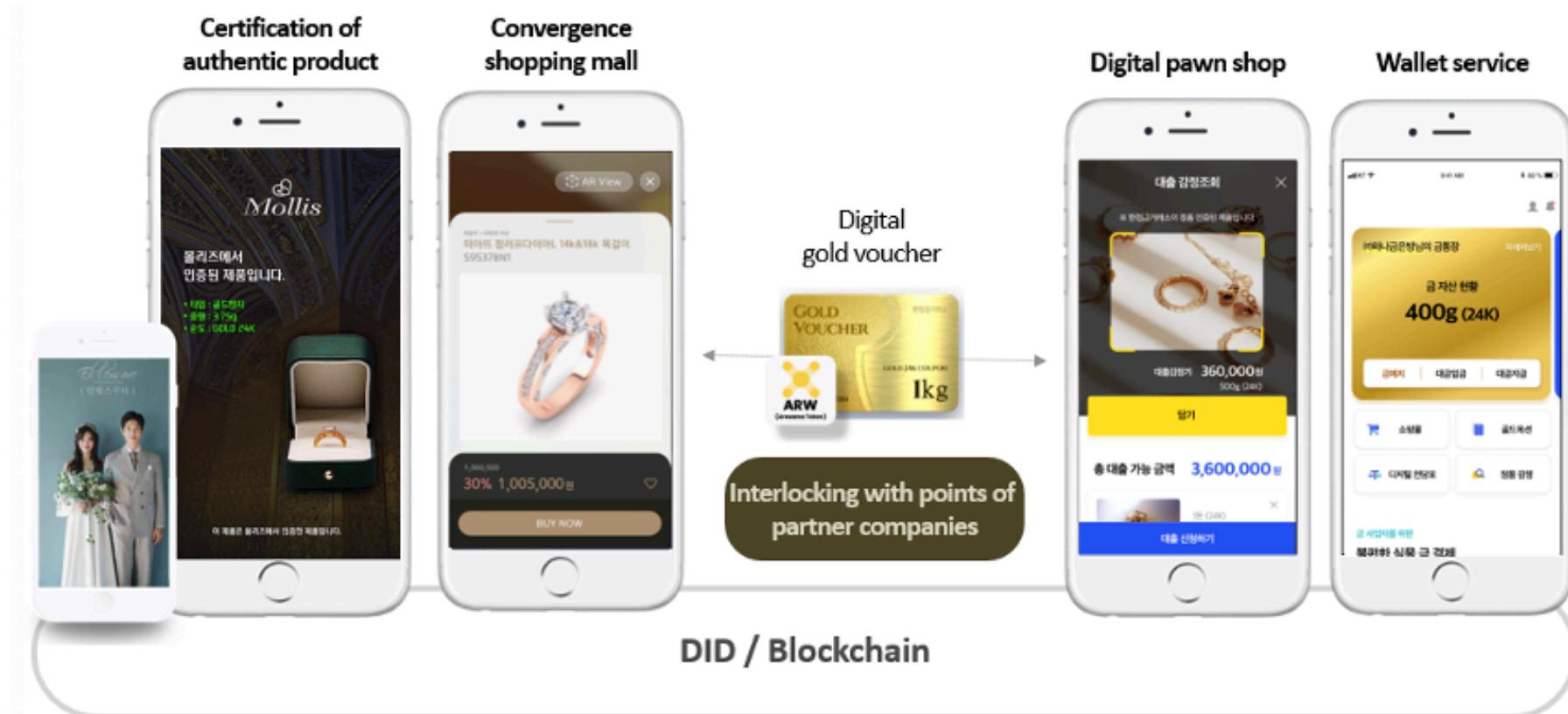
ARW Project unfolds in the process of Phase-1 of digital convergence platform and Phase-2 of digital financial platform based on blockchain technology. R-DAP is interlocked with goods and digital assets and is supported to mobilize trading of digital voucher.



[Figure 5] ARW Business Model

• Phase 1 – Digital Convergence Platform

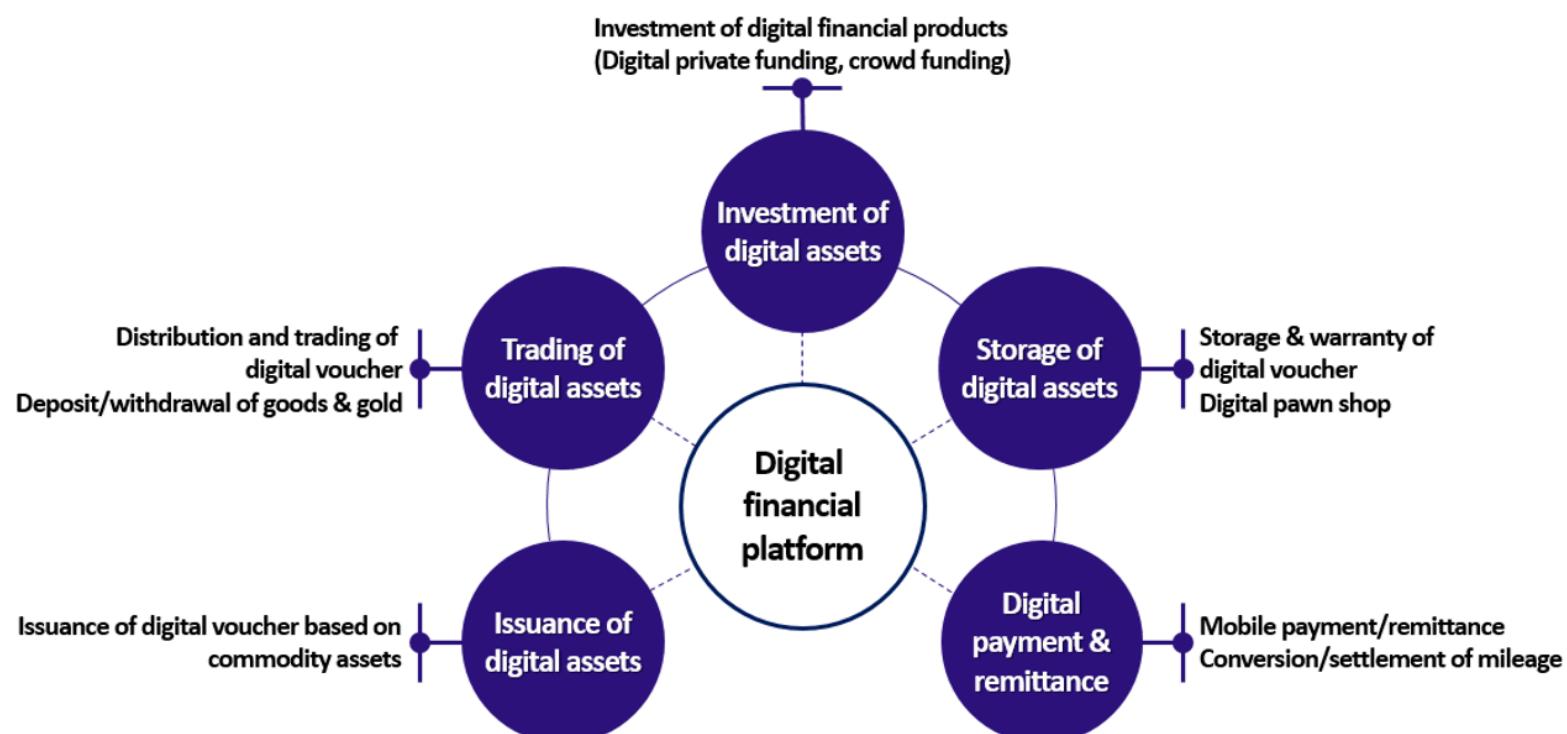
Phase-1 service of digital convergence platform issues gold-based digital voucher, enables warranty, exchange and trading, and expands availability through interconnections with points of partner companies by means of R-DAP. Also, the history of trading with all users is being operated with transparency through DID and blockchain technology.



[Figure 6] Phase 1 – Digital Convergence Platform

• Phase 2 – Digital Financial Platform

Phase-2 digital financial platform is scheduled to be opened by phases under the consideration of legal and environmental elements. Digital financial platform will be expanded in order to enable the storage of goods, gold and digital voucher as well as crowd funding. At the same time, coordinated investments between financial products will be mobilized, and exchange services interlocked with goods and digital assets will be offered

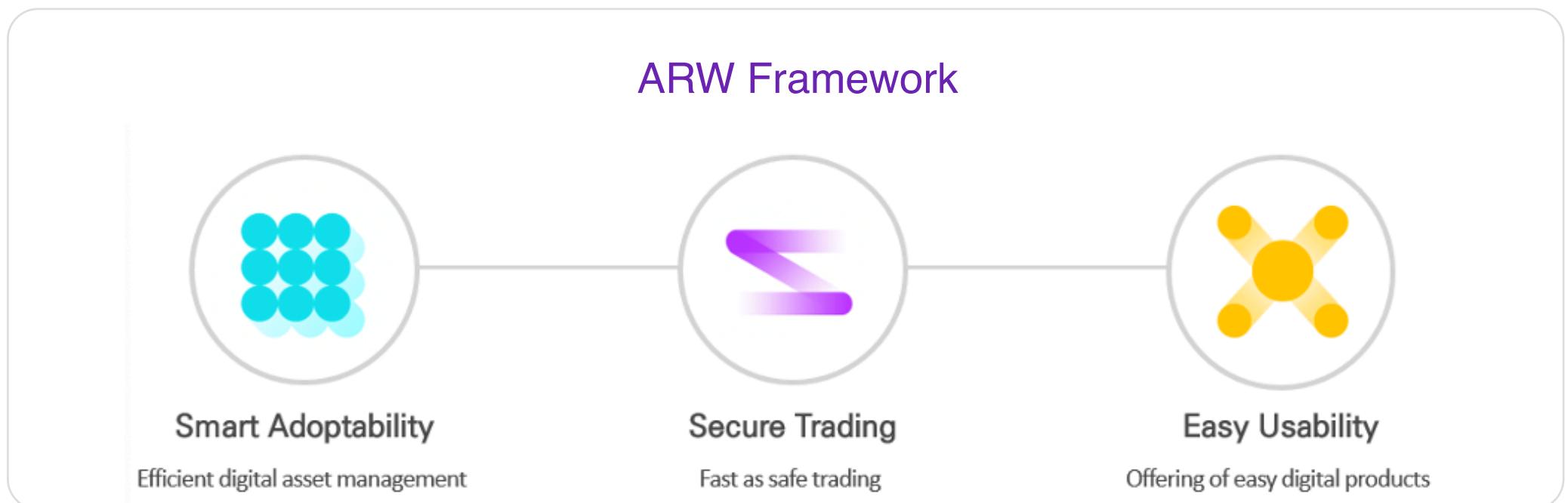


[Figure 7] Phase 2 – Digital Financial Platform

03. R-DAP (Reliable-Digital Asset Platform)

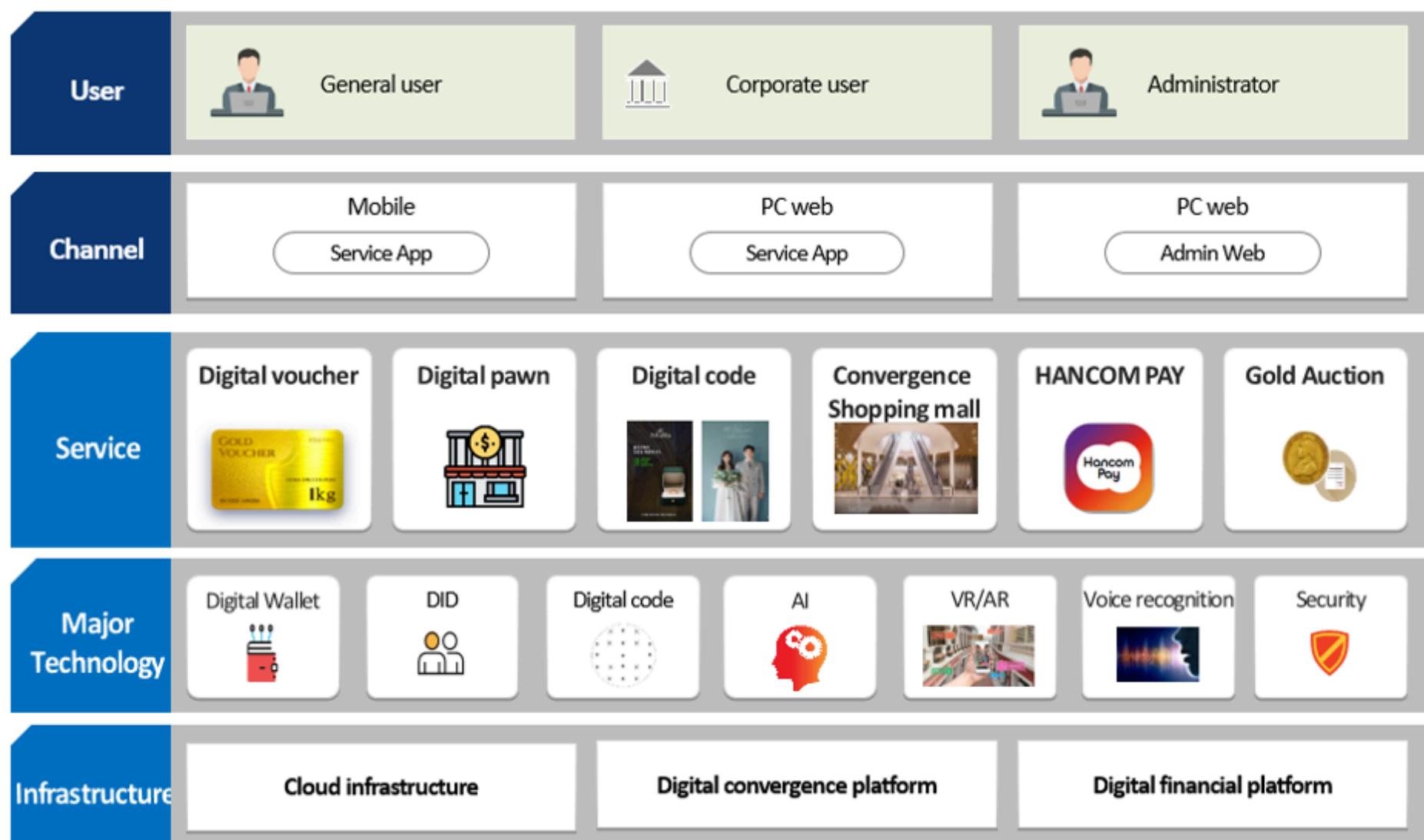
3.1. What is R-DAP?

R-DAP offer efficient digital asset management, fast and safe transactions and simple trading of digital products.



[Figure 8] Characteristics of R-DAP

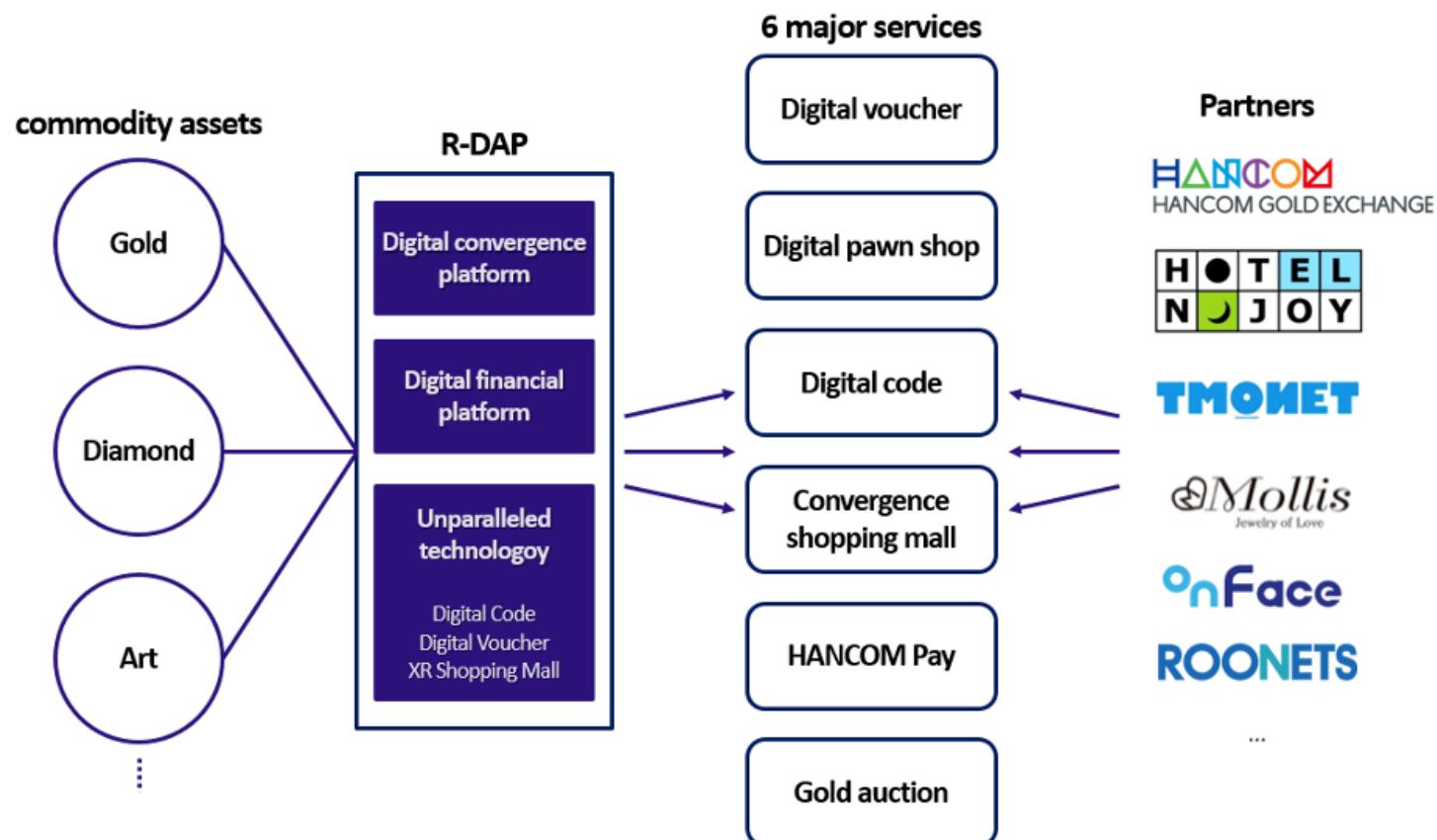
R-DAP is a service platform supporting for diverse assets and points to be flawlessly used at heterogeneous multimedia based on ARW token (utility token)



[Figure 9] R-DAP Diagram

3.2. Digital Asset Ecosystem

R-DAP builds a valuable ecosystem for digital assets through 6 distinct services which never existed in conventional gold markets before.



[Figure 10] Digital Asset Ecosystem

3.3. Why R-DAP?

R-DAP delivers 5 major strengths as shown below.

1) Issuance & Management of Digital Assets

R-DAP plans to provide supports in order to ensure issuance, exchange and trading of the assets under the digital asset ecosystem (Figure 10) in such an order, accommodating the types and uses of NFT, FT and Hybrid token, in the future.

2) Compliance with Digital Asset Guides in Korea and Overseas

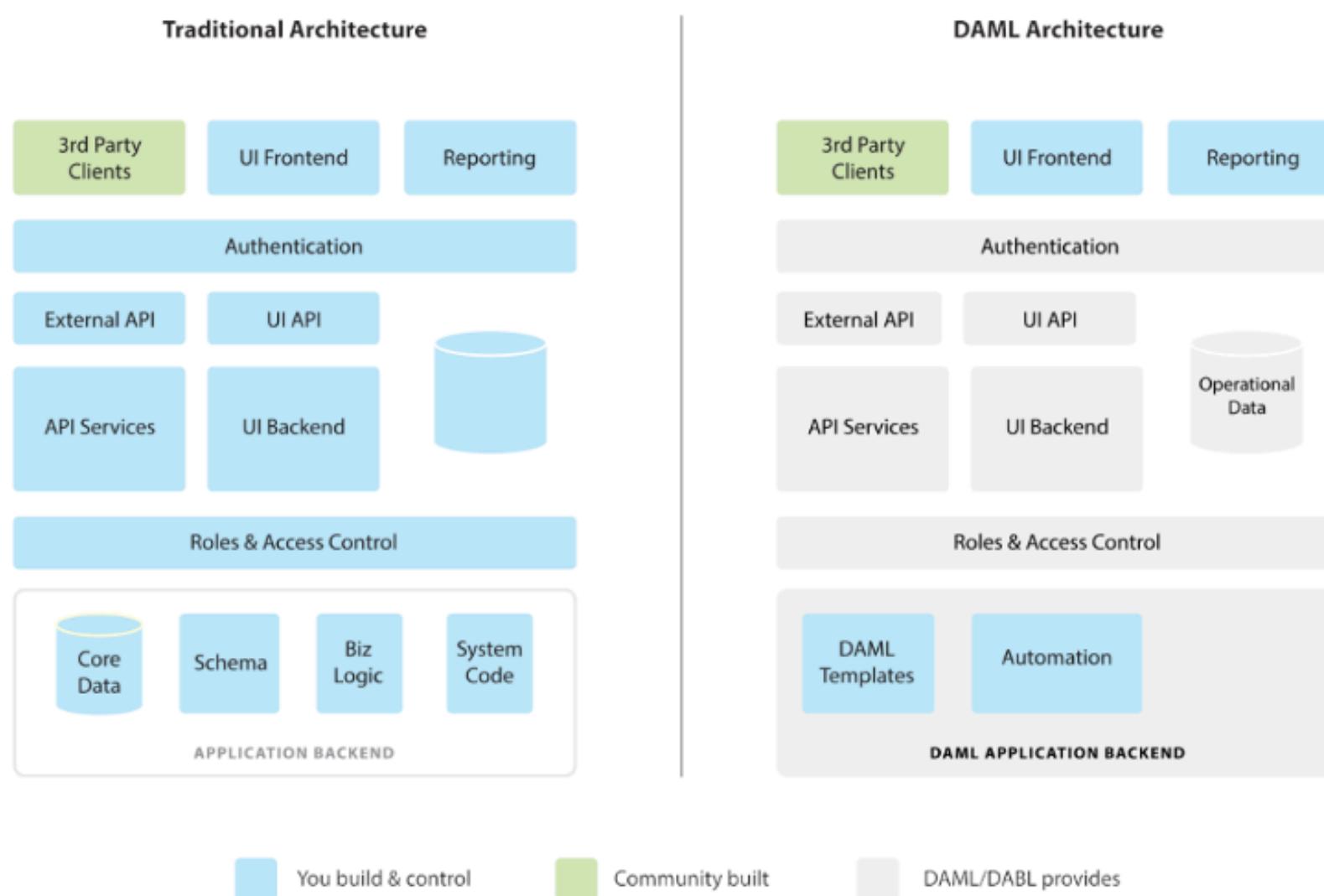
Digital assets issued by R-DAP are to reduce the costs for digital conversion and compliance and to enable transactions based on smart contracts by fully complying with the digital asset guides in response to financial regulatory authorities in Korea and overseas.

3) Protection of Digital Assets

R-DAP provides multi-signature to safely protect digital assets through partnership with reliable wallet companies with ISMS certifications

4) DAML & Contract Modeling

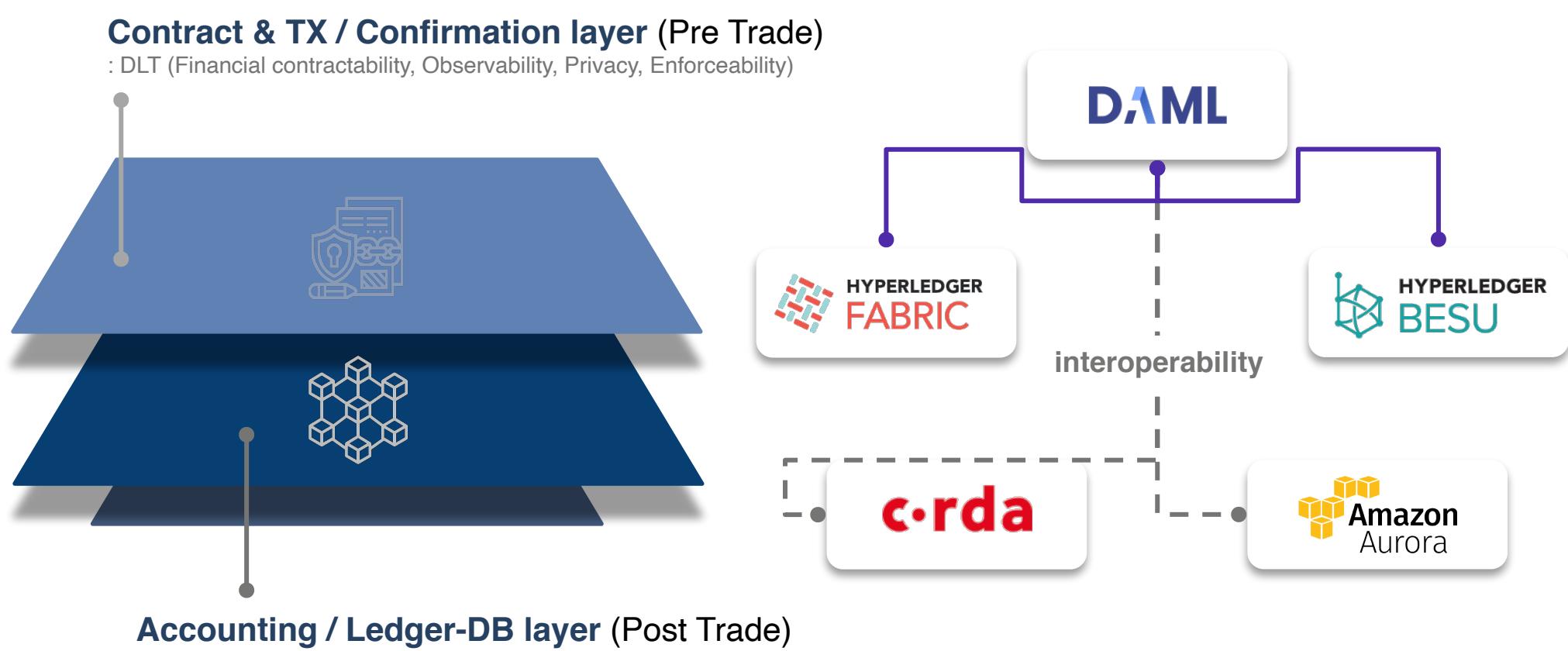
R-DAP designs optimized digital assets based on DAML (Digital Asset Modeling Language) and offers contract modeling of MPA (Multiple Party Agreement)



[Figure 11] DAML Architecture

5) One R-DAP + Any Blockchain

R-DAP supports multi-blockchain (protocol) architecture for extensive expandability.



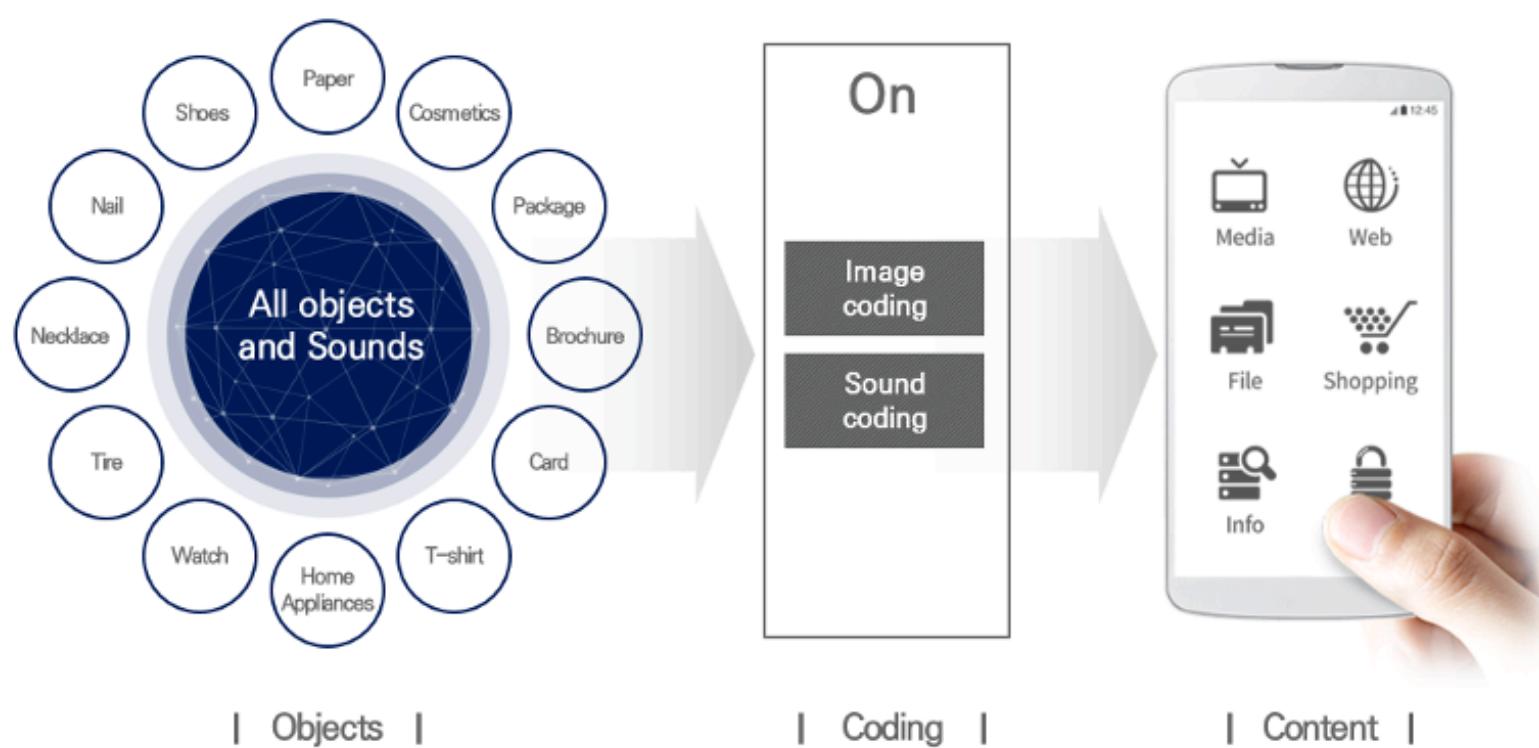
[Figure 12] Schematic diagram of R-DAP interoperability

3.4. R-DAP Major Functionality

- Digital Code – Certification of Authentic Products & Provision of Digital Contents

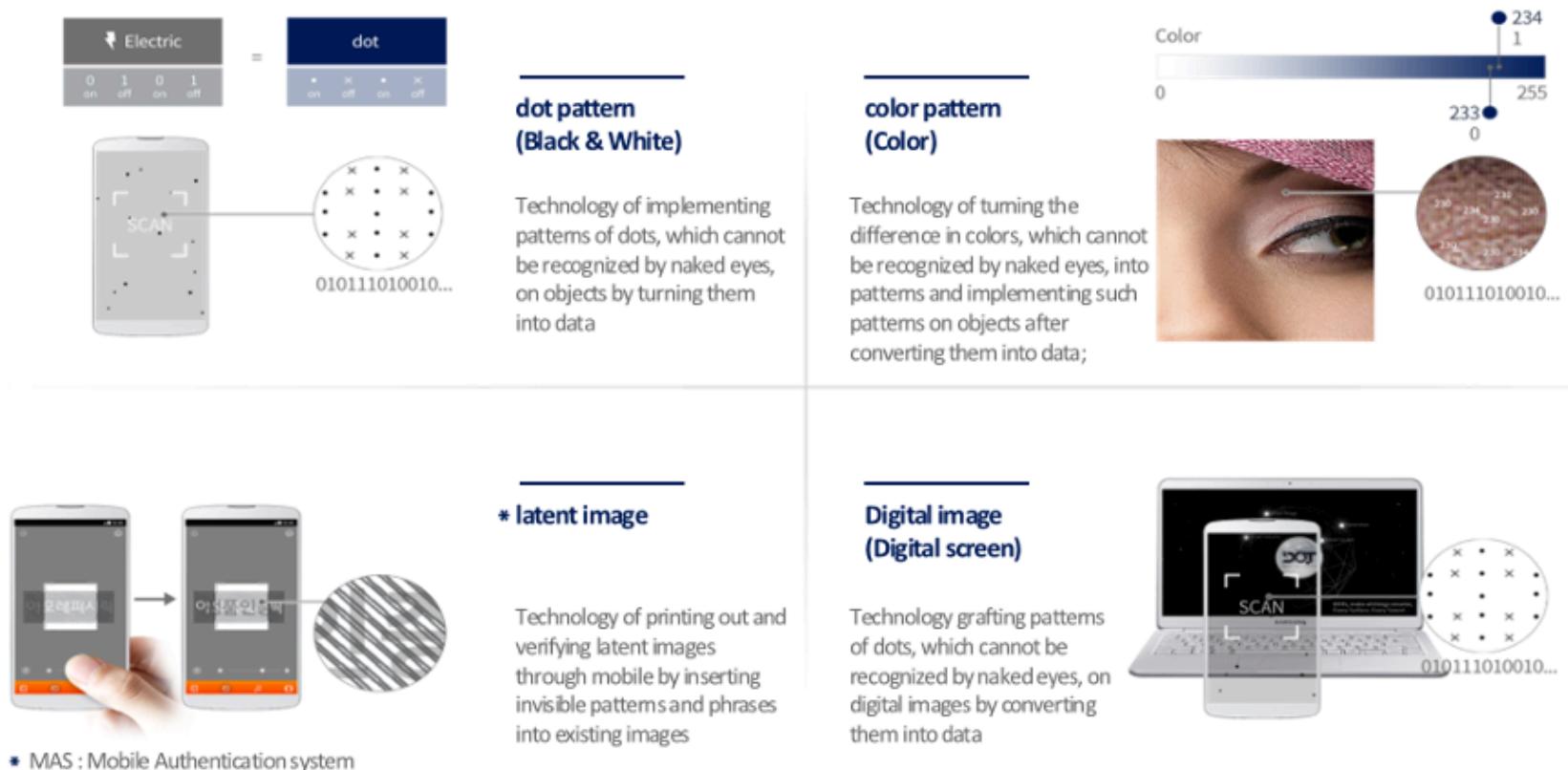
It offers certification of authentic products and various digital contents by applying digital codes to all objects and sounds

- A. Issuance, warranty and printing of reliable warranty certificate
- B. Guarantee of value and quality of gold and diamond
- C. Guarantee of authentic products and offering of appraisal statements
- D. Provision of life contents



[Figure 13] Summary of Digital Code

Coating technologies, such as dot and color pattern, latent image and digital pattern, apply to images



[Figure 14] Digital Code application technology

• Digital Voucher – Trading of Actual-gold-based Digital Voucher

Warranty and storage of actual gold can be offered through Hancom Gold Exchange, a partner company, where purchase, trading and exchange of digital voucher is available

A. Warranty and storage of actual gold

Once actual gold is deposited at Hancom Gold Exchange, purity and weight of gold is guaranteed following appraisal, and various digital trading becomes available through digital voucher.

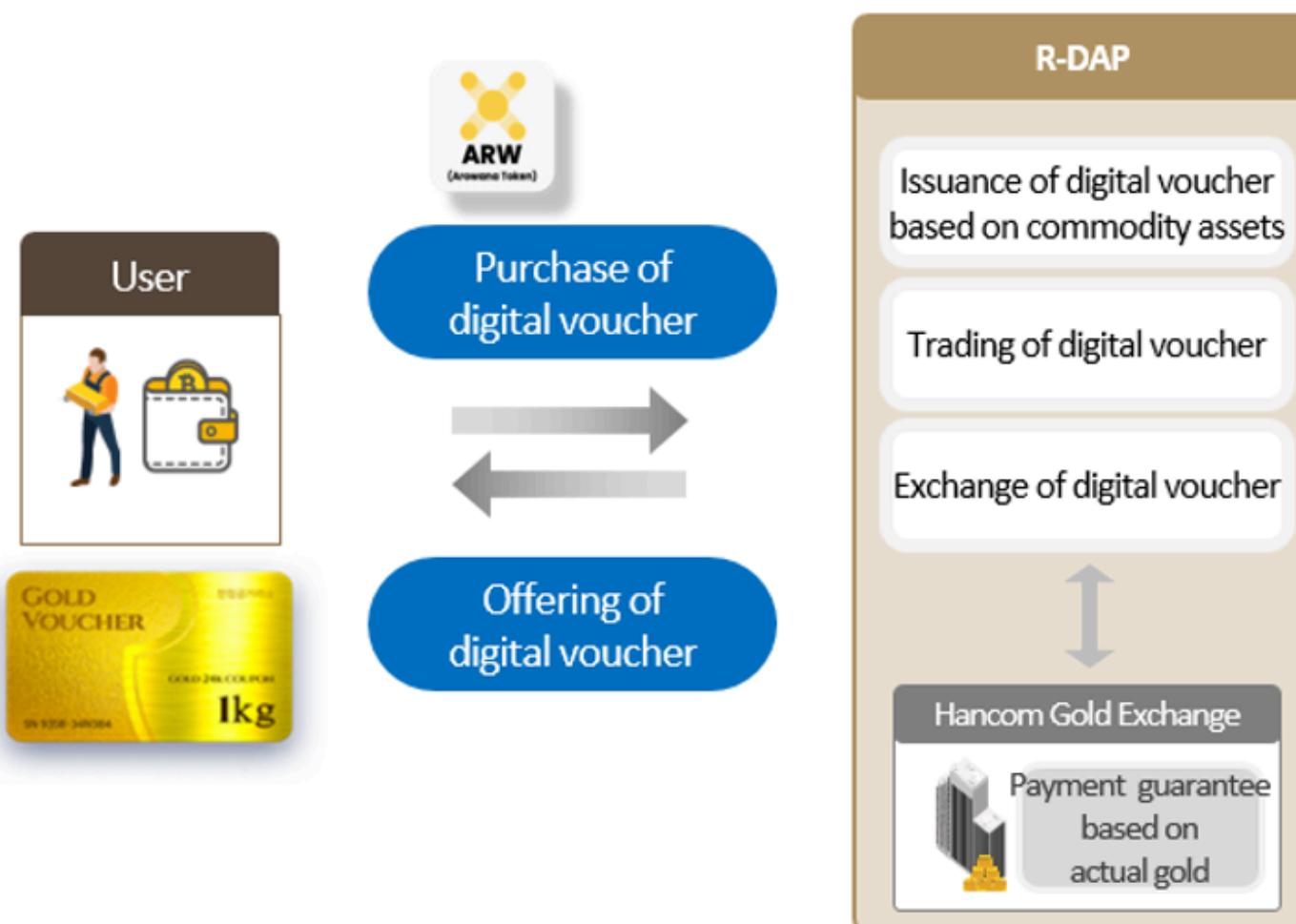
B. Digital voucher trading process

Purchase A user is able to directly purchase digital voucher without having to deposit actual gold through R-DAP

Trading Digital voucher trading is divided into 1) trading between individuals, 2) trading between an individual and business and 3) trading between businesses, where R-DAP supports all these 3 different trading types.

Exchange It also offers a service where mileages owned by partner companies are exchanged with digital vouchers

Withdrawal Digital vouchers can be withdrawn with actual gold. Withdrawals are made through Hancom Gold Exchange, and tax rates will vary depending on the country where such withdrawal is made.

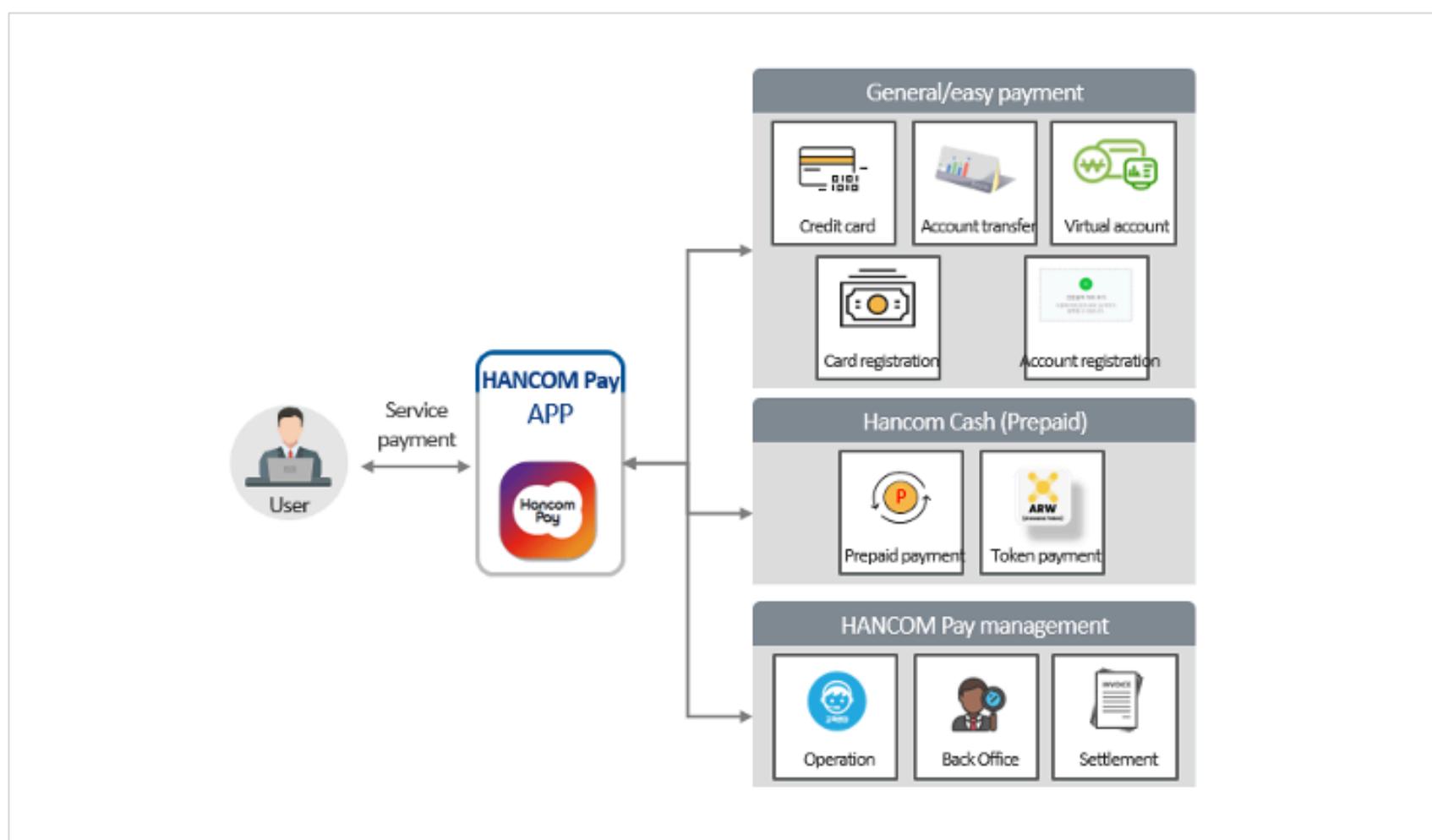


[Figure 15] Digital Voucher Trading

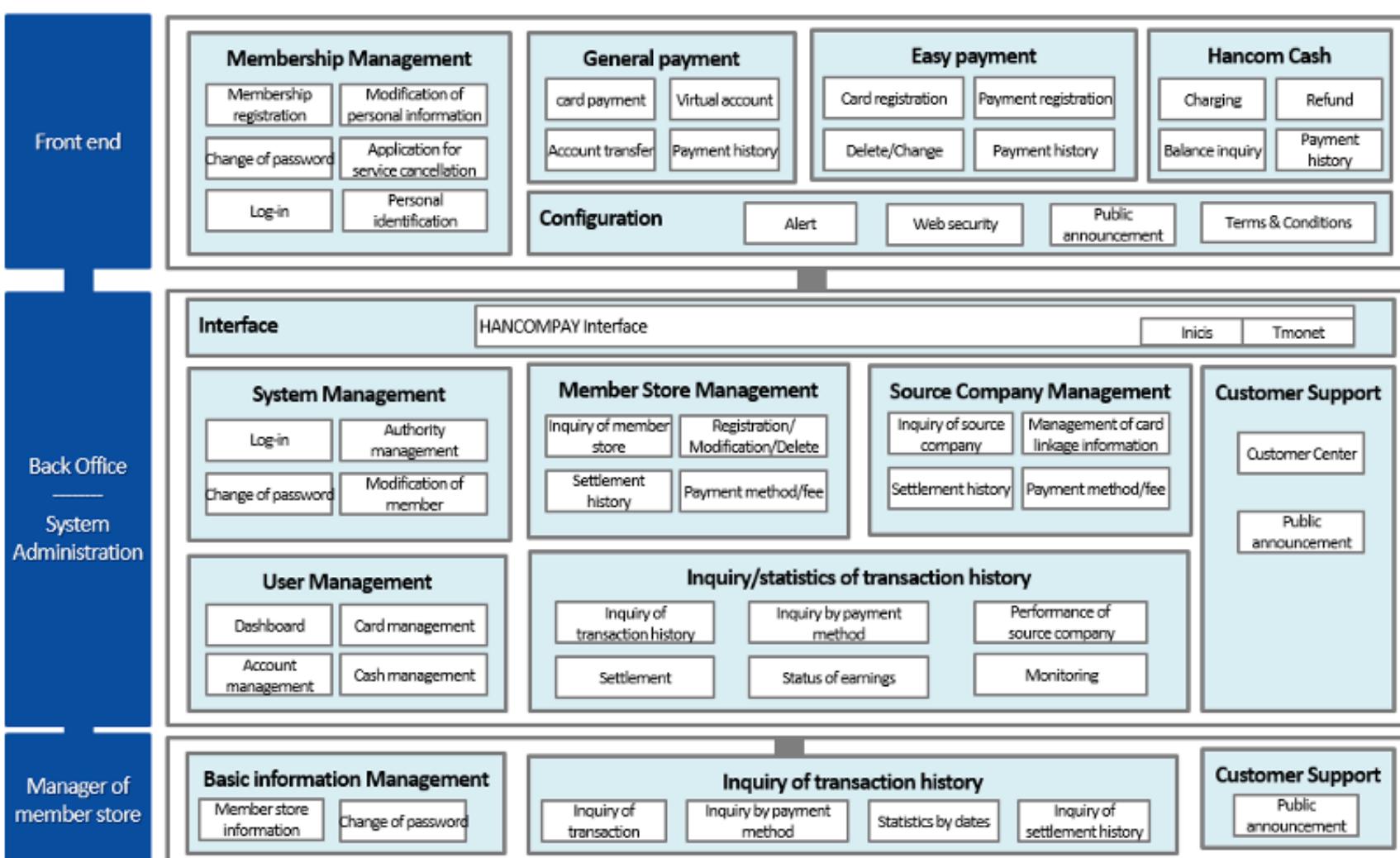
• HANCOM Pay - All-In-One Comprehensive Payment Service

Hancom Pay provides a comprehensive mobile payment service enabling one-time payment under diverse payment environments.

- **General Payment** Card payment, real-time account transfer and transfer to virtual account
- **Easy Payment** Offering of simplified payment through registration of card and account
- **Hancom Cash** Prepaid payments through charging
- **Combined Payment** Offering of combined payment in combination of general payment and Hancom Cash



[Figure 16] Summary of HANCOM Pay Service



[Figure 17] HANCOM Pay Features

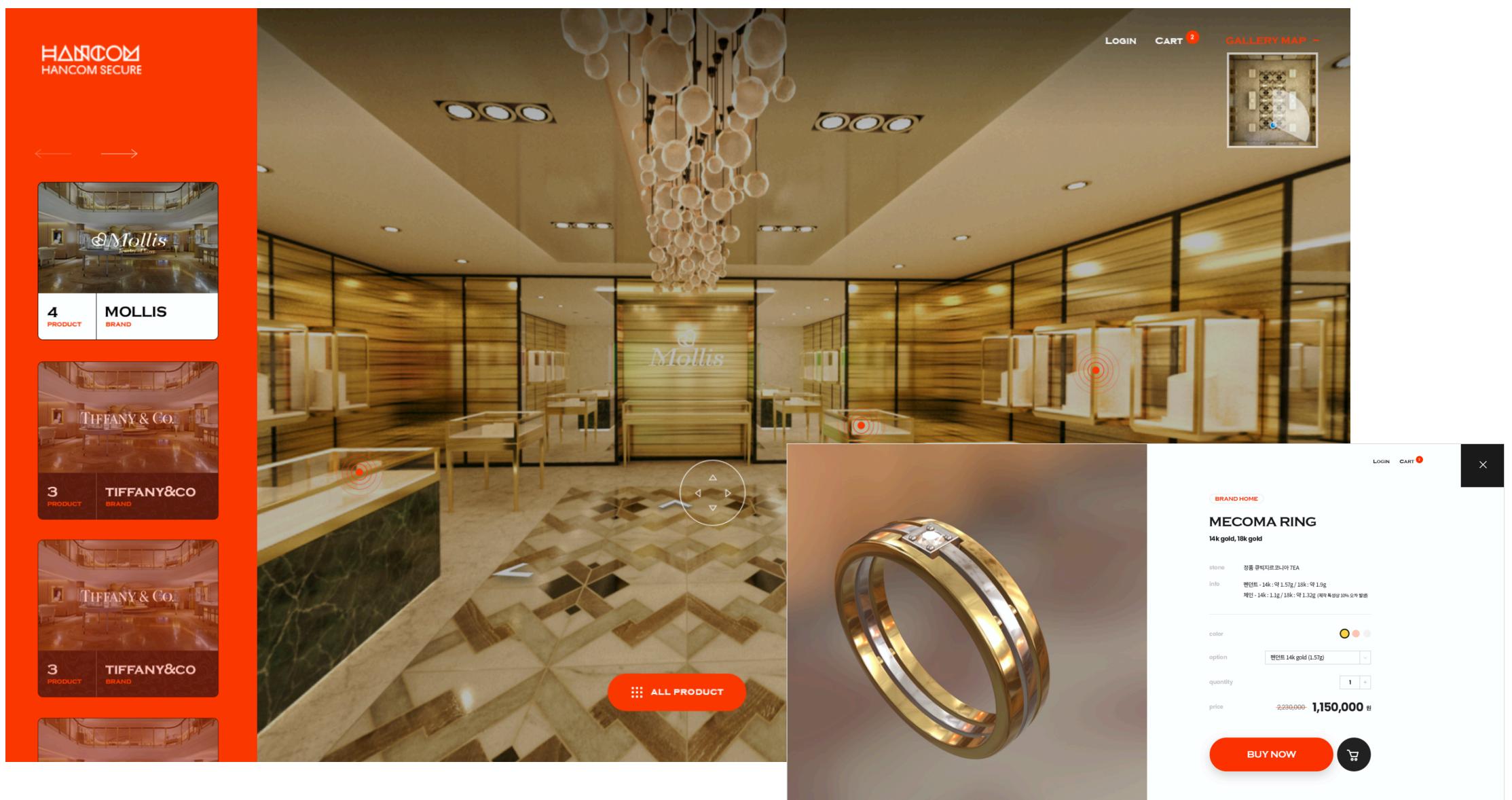
• Convergence Shopping Mall - XR Shopping Mall

Convergence shopping mall is a new pattern of social communication platform using new IT technology and plans to expand into Metaverse where various contents are consumed after starting out as XR convergence shopping mall.



[Figure 18] Convergence Shopping Mall

Stores opening at the convergence shopping mall can be built in an identical structure with offline stores or can be featured with online-only stores, where the stores can be readily and easily opened through basic templates



[Figure 19] Convergence Shopping Mall – Settled In Store

04. ARW Token

4.1. ARW Token Business Model

- **Membership** To be used for membership registration during access to convergence shopping malls by means of ARW token
- **Purchase & sales of digital voucher** Purchase and sales of digital voucher with ARW token
- **Digital pawn shop** Loan with actual gold and digital voucher as collateral from digital pawnshop
- **Purchase and reward at shopping mall** Purchase of jewelry and digital voucher at shopping mall, and reward means
- **Service fee for shopping mall business operator platform** Service fee for platform by shopping mall store user
- **Service fee for digital code** Service fee for digital code certification service, and contents



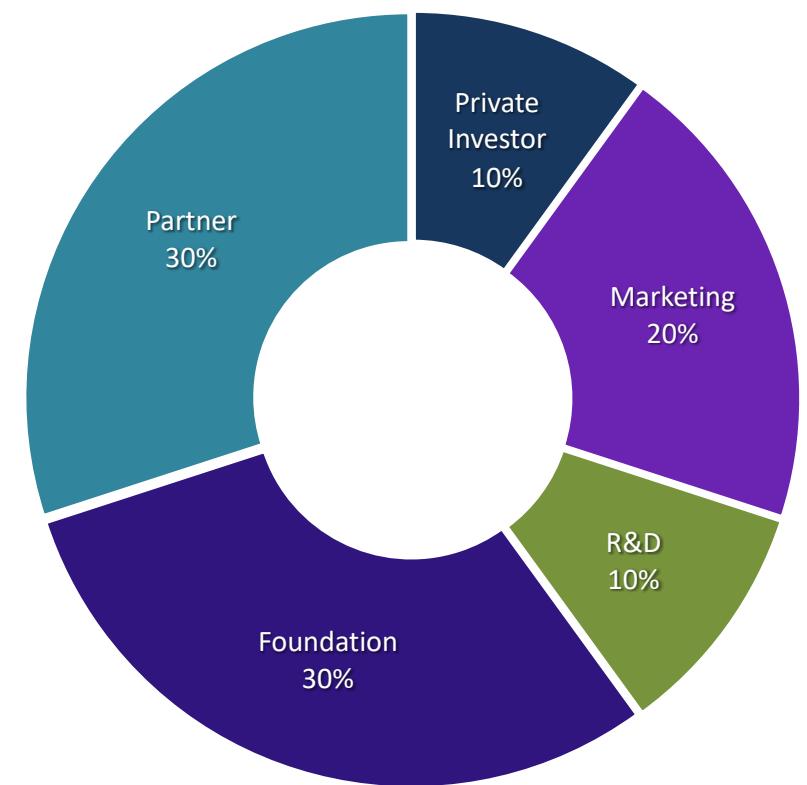
[Figure 20] ARW Token Import Model

4.2. ARW Token Distribution

Name of token	Arowana Token (ARW)
Network	ERC-20
Total volume issued	500,000,000ARW
Issuance price	1ARW=US\$0.04

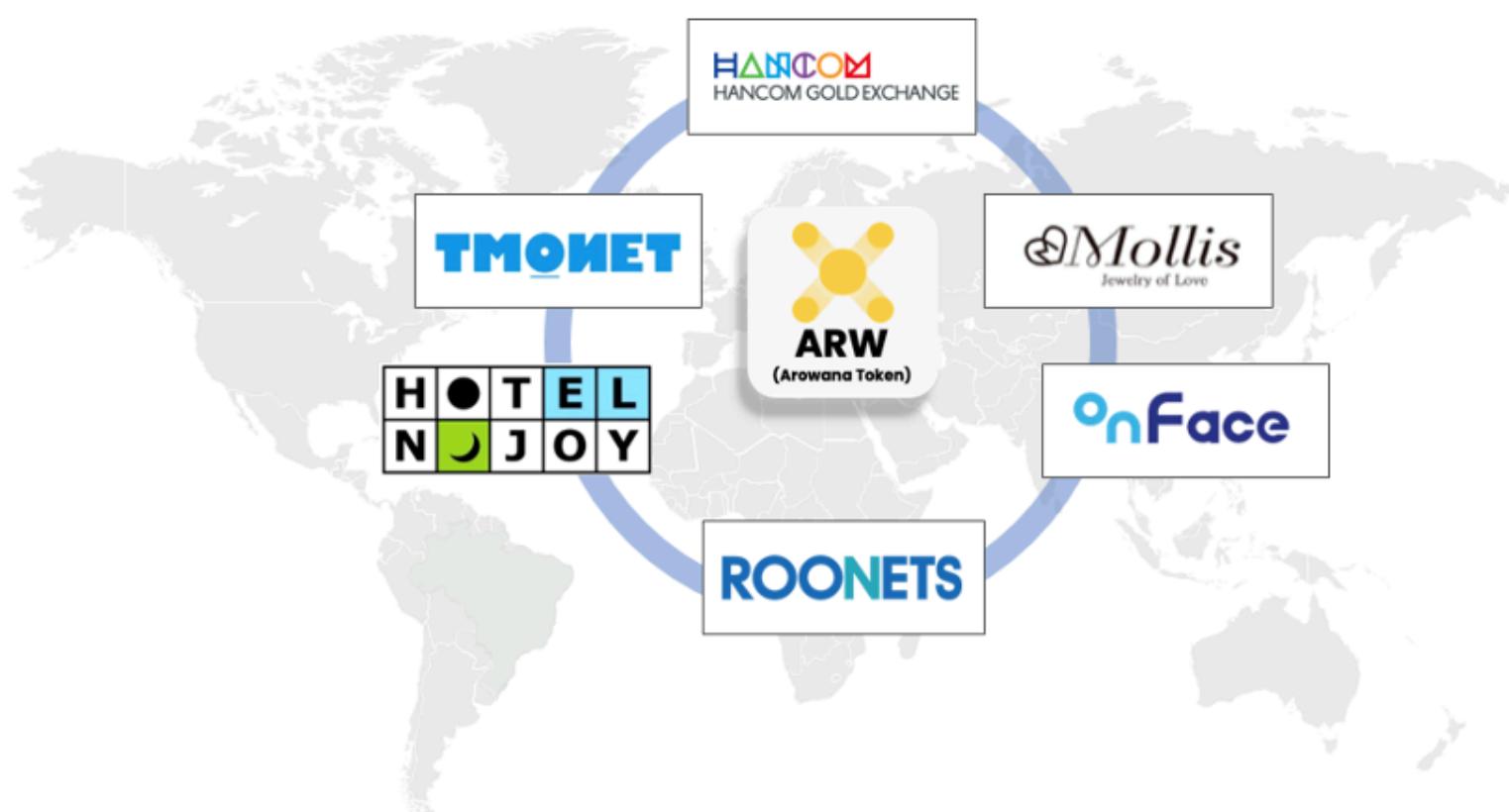
[Table 2] Distribution of ARW Token

Private Investor	10%
Marketing	20%
R&D	10%
Foundation	30%
Partner	30%



[Figure 21] ARW Token

05. Business Partners



06. Team Introduction



CEO Sung-ho Yoon

Representative Director
of Arowana Tech



Director Jason Park

Representative Director of
Hancom Global Gold Exchange
CEO of Xtock
NHN Naver UX Center



CSO Jake Jeon

Executive Director of
Hancom Singapore
IBM Kore IT Consulting
New Business Planning at
MERITZ Financial Group



CTO Ph.D Sang-yeop Song

Representative Director of
Hancom Singapore
CTO of Hancom Gold Exchange
New Business Development
at Hancom MDS



Strategic Partner

Kyong-Bong Park
Director of TMONET R&D
Center



Strategic Partner

Min-seok Kim
Representative Director of
ONFACE Games

Dev Young-jung Kim

Technical Director of Xtock
Head of Development at Brave
Innovation

Dev Jong-gap Jeong

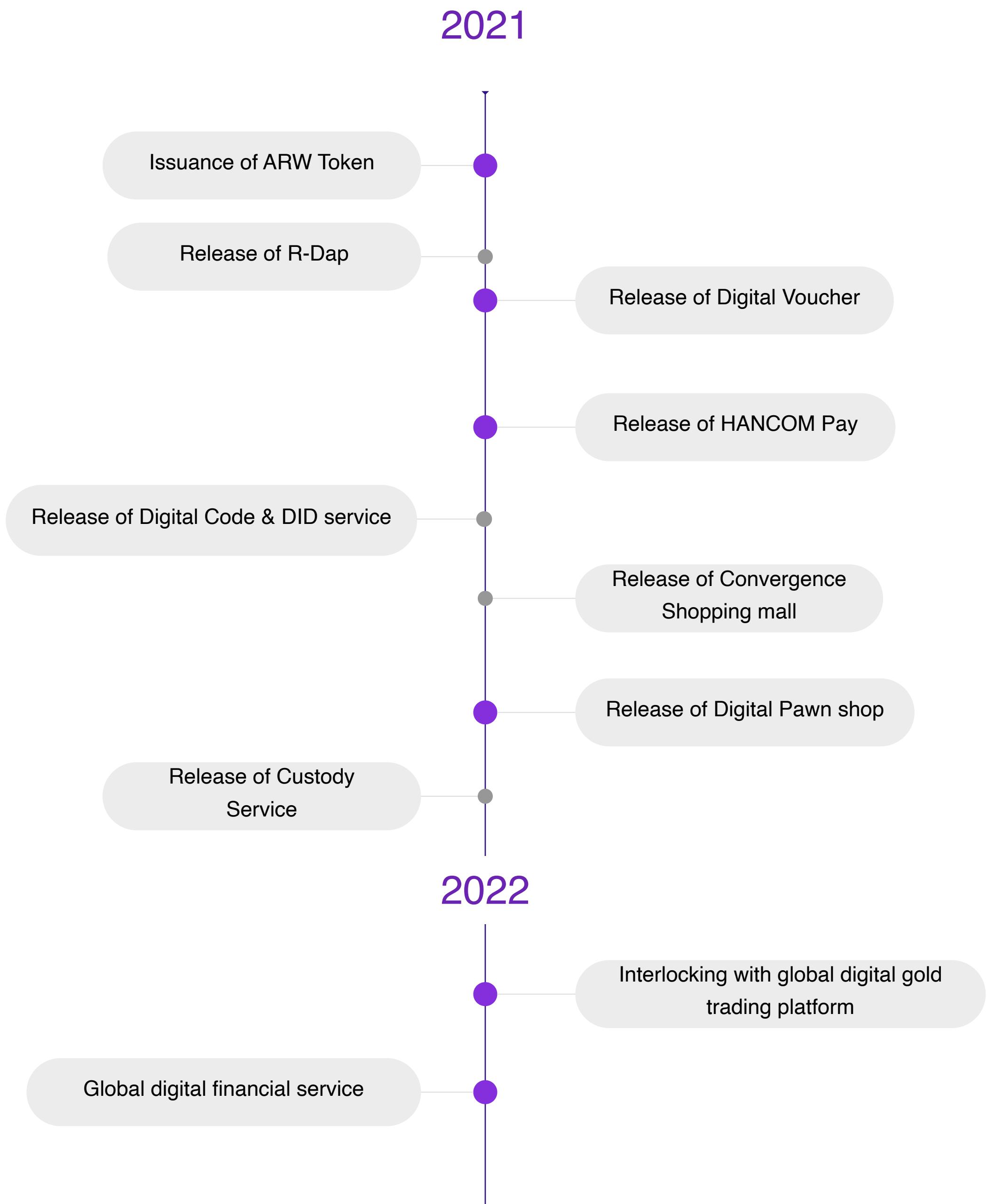
Director of Hancom With R&D Center
Expert in Blockchain & Security

BD Jung-su Kim

Strategic Planning Team at Xtock
Walton Blockchain

Technical Partner XTOCK

07. Project Roadmap



08. Closing

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