

Rolly Maulana Awangga

Prangko Digital Twin

Digital vs Digital Twin

Dua Produk Peruri Menggunakan Secure Paper

- Materai : Fungsi Pajak atas Dokumen UU No.10 Tahun 2020
 - Konvensional (tidak dihilangkan, tetap ada)
 - E-meterai
 - Karena ada definisi fungsi maka timbul kebutuan format elektronik
- Prangko : Permen kominfo No. 21 Tahun 2012
 - Carik Kertas
 - Belum disebutkan bentuk digital?
 - Fungsi prangko Undang-Undang Nomor 38 Tahun 2009 pasal 22:
 - Bukti pembayaran biaya pengiriman pos
 - Alat edukasi masyarakat
 - Alat penyebarluasan informasi publik
 - Benda filateli

BAB I

KETENTUAN UMUM

Pasal 1

Dalam Peraturan ini yang dimaksud dengan:

1. Prangko adalah label atau carik, atau teraan di atas kertas dengan bentuk dan ukuran tertentu, baik bergambar maupun tidak bergambar, yang memuat nama negara penerbit atau tanda gambar yang merupakan ciri khas negara penerbit, dan mempunyai nilai nominal tertentu berupa angka dan/atau huruf.



PRESIDEN
REPUBLIK INDONESIA

UNDANG-UNDANG REPUBLIK INDONESIA

NOMOR 38 TAHUN 2009

TENTANG
POS

DENGAN RAHMAT TUHAN YANG MAHA ESA

PRESIDEN REPUBLIK INDONESIA,

E-meterai

PERURU CA
PDF VERIFICATION

SPL.pdf
1.03 MB

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED

Rev. 1 Signed by Meterai Eletronik 10000 GIB2022 E-METERAI

Rev. 2 Signed by FAISAL ABDULLAH (F27469636)

BACK

Powered by PERURI

Jika di Print Itu sudah Salinan bukan Dokumen Asli

e-Meterai

Beranda Tentang Berita FAQ

ketentuan e-Meterai

UU No 10 Tahun 2020

Undang-Undang Republik Indonesia Nomor 10 Tahun 2020, Menggantikan Undang – Undang Bea Meterai Nomor 13 Tahun 1985

Bea Meterai

Bea Meterai adalah pajak atas dokumen. Seiring perkembangan teknologi informasi yang sangat dinamis, banyak perubahan bentuk dokumen atau modifikasi sebelumnya. Teknologi informasi telah mendorong berbagai penggunaan kertas (paperless). Dalam hal kegiatan usaha ini, menjadi opsi untuk meningkatkan efisiensi. Sejalan dengan itu, transaksi elektronik pun semakin berkembang sehingga dapat dilakukan secara elektronik melalui jaringan internet. Karena itu, diperlukan perluasan definisi dokumen yang berupa kertas. Ekstensifikasi Bea Meterai atas dokumen sangat mendesak dilakukan agar potensinya dapat dirasakan dan memberikan peningkatan penerimaan bagi pemerintah.

Jika Fungsi Prangko

- Benda Koleksi
- Pencatatan Peristiwa atau Sejarah
- Masih perlukah sebagai alat bayar atau asset digital?

Solusi : Digital Twin



Gold Edition Crypto stamp Crypto stamp art Shop Wallet

Search by code or collection



DE | EN

Welcome to Crypto stamp!

The Crypto stamp is the world's first postage stamp with a digital twin in the blockchain.



Selama Ini Asset Crypto diatur Oleh Bapepti

PERATURAN BADAN PENGAWAS
PERDAGANGAN BERJANGKA KOMODITI
NOMOR 11 TAHUN 2022
TENTANG
PENETAPAN DAFTAR ASET KRIPTO YANG DIPERDAGANGKAN
DI PASAR FISIK ASET KRIPTO



Celebrate 140th Anniversary of Thai Postal Service

1st NFT Stamp in ASEAN

Konsep Digital Twin

Buy Now

THAILAND POST MARKET.COM
ของที่ระลึก สิ่งที่เก็บมือ

How to Spot the Differences of Each Rarity Level



Examples of NFT Stamps For Each Rarity



Rarity Level

Examples of NFT Stamps For Each Rarity

LEGEND LEVEL EXAMPLE



140 units

EPIC LEVEL EXAMPLE



1,400 units

RARE LEVEL EXAMPLE



6,400 units

UNCOMMON LEVEL EXAMPLE



14,000 units



Get 1 Get the stamp with its package delivered to your address



Get 2 Get FREE NFT Stamp randomly by filling
the code under the scratch-off
area for the registration [Click here!](#)

Differences between Physical Stamp and NFT (Digital Stamp)

Physical Stamp



NFT (Digital Stamp)



Sticker stamp

It can be used for postal charges, cost 140 baht.

Designed by Thailand Post

Running number: 1 – 50000

One of digital collectibles on the blockchain which can be bought, sold, or traded on NFT platforms

It cannot be used for any postal charges.

Designed by famous NFT artists

50,000 different and unique designs of NFTs

Remarks : Although the code is scratched off, the physical stamp can be used normally for postal charges with ease. The code can be used only one time.

Get Free NFT Stamp Easily by 3 Steps

1



Buy

Order the Crypto Stamp to be NFT Stamp's owner [Click to buy](#)

2



Register

Connect your MetaMask Wallet or JNFT. Then, fill your information for the registration

3



Get Free

Scratch and get a code for FREE NFT S

Amazing Facts of NFT Stamp



1st Time of ASEAN

For the 1st time of ASEAN, this is the opening of parallel world in the philately. Besides the physical stamp, you will get the NFT stamp for your collection. This is a bridge to connect NFT collectors and stamp collectors.



1st Time of 18 Cartoon Characters from NFT Artists

Thai famous NFT artists have joined this project to create 50,000 different and unique designs by generative arts.

[Read more >](#)



Only 140 Legend NFTs

In this collection, the 1st NFT Stamp in ASEAN, there are only 140 legend NFT stamps which are in the rarest level. It can be unlocked randomly. The unique thing of this level is the distinctive texture of the pigeon with the perforated border. Besides the legend level, the NFT stamps will be minted with the levels of scarcity; Epic, Rare, Uncommon, and Common.

[Read more >](#)



Punk Kub



Temuan Lapangan Rekan Filatelis Dunia

I tried to find out what the postal rates are in Thailand, to establish what the 140 baht stamp might be used for. Unfortunately, the Thailand Post website proved to be rather frustrating: it has a postage rate ready reckoner, but when you have entered basic data and then press search, the data (and any answer) just disappears. Going then to the Bangkok Post newspaper website, I found that in July last year, the domestic postal rate for a letter up to 10g was 3 baht; whereas in the maximum weight bracket of 1-2 kilos, domestic postal rates were 55 baht.¹ Clearly, the most likely usage for the 140 baht stamp would be overseas post.

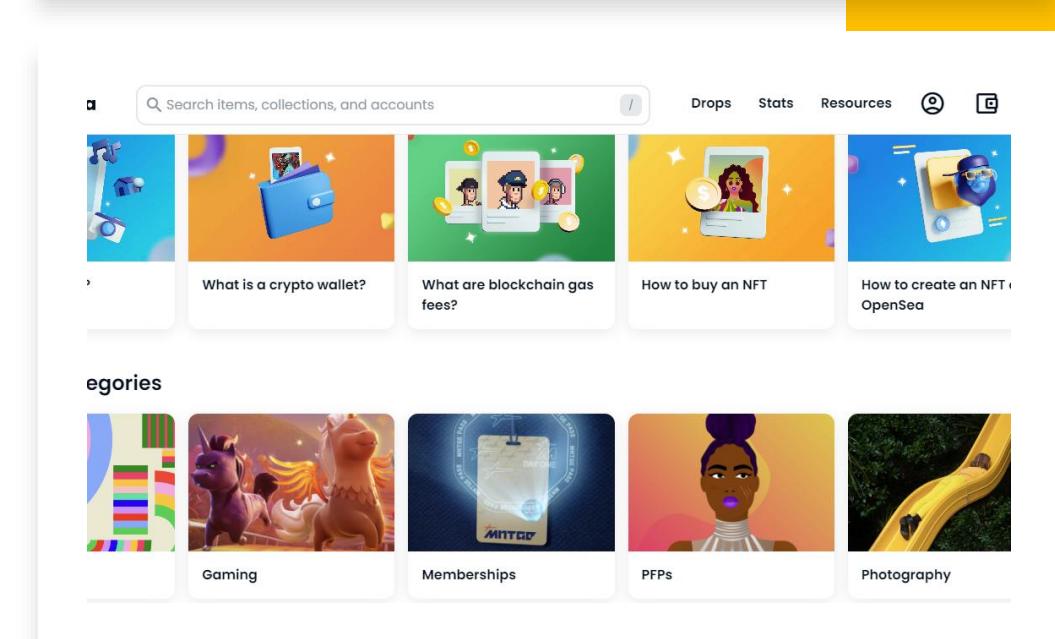
A review of the regular issues from Thailand Post indicates that the usual value of stamp issues is between 3-10 baht, so 140 baht is a very high value (equivalent to £3.40)² for Thailand Post to issue.

I then sought to register on the Thailand Post website, hoping to unlock the special features of this Crypto Stamp issue. Once again, I was unable to do this, because the compulsory data that you have to enter as part of registration (phone number and passport number) are geared, I think, to Thailand residents and/or nationals. So, I was unable to get access to the Non-fungible Token (NFT) Stamp. About the NFT Stamp, Thailand Post says:

- There are 50,000 individual and unique designs of the NFTs (where 50,000 is the number of the Crypto Stamps issued by Thailand Post);
- These unique designs are the work of famous NFT artists; and
- The digital stamp cannot be used for any postal charges.³

Tentang NFT

- Non-Fungible Token (limited edition, hanya satu, unik dan memiliki kategori rarity level) di Minting oleh NFT Artist
- Persaingan dengan Whale NFT Market yang ada
- Alasan kuat kenapa harus membeli prangko digital twin dibandingkan membeli langsung NFT pada umumnya



opensea.io/collection/crypto-stamp-edition-1

 **OpenSea** / [Drops](#) [Stats](#) [Resources](#)   



Crypto stamp

By [48307A](#)

Unique items **178.1K** · Total items **183.9K** · Created **May 2019** · Creator earnings **0%** · Chain **Ethereum** · Category **Art**

This Crypto stamp is issued by the official Austrian Postal Service (Österreichische Post AG). This special postag...

[See more ▾](#)

677 ETH
total volume **0.005 ETH**
floor price **< 0.1%**
listed **153,215**
owners **83%**
unique owners

[Items](#) [Analytics](#) [Activity](#)

  **Price low to high** 

Sweep 

Search by name or attribute

Price low to high

Status	▼
Price	▼
Quantity	▼
Currency	▼
Attributes	▼

 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code
 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 690 österreich QR code	 690 österreich QR code
 700 österreich QR code	 690 österreich QR code	 690 österreich QR code	 690 österreich QR code	 690 österreich QR code	 690 österreich QR code	 700 österreich QR code
 700 österreich QR code	 690 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code	 700 österreich QR code

QR Hanya
berisi situs
postal crypto
austria

OpenSea /

Drops Stats Resources   



Crypto stamp 

Crypto stamp 2 5er7LG

Owned by [Leonardo_Sa_Toshi](#)

5 views Art

Sale ends April 26, 2023 at 11:10 PM

Current price
0.005 ETH \$9.11

Add to cart  Make offer

Price History

No events have occurred yet
Check back later.

Description

Listings

Aktifitas Transaksi NFT Llama



Item Activity				
Filter				
Event	Price	From	To	Date
List	0.005 ETH	Leonardo_Sa_Toshi		4d ago
List	0.062 ETH	Leonardo_Sa_Toshi		2y ago
Transfer		23BA98	Leonardo_Sa_Toshi	2y ago 
Airdrop		NullAddress	23BA98	3y ago 



0



NL crypto stamp



NLCS Bull

Owned by [VantLicht](#)

14 views

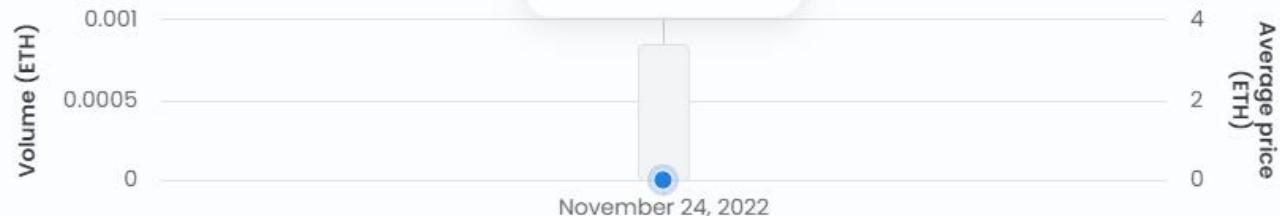
Sale ends April 24, 2023 at 1:18 PM

Current price

2.5 MATIC \$2.85[Add to cart](#)[Make offer](#)

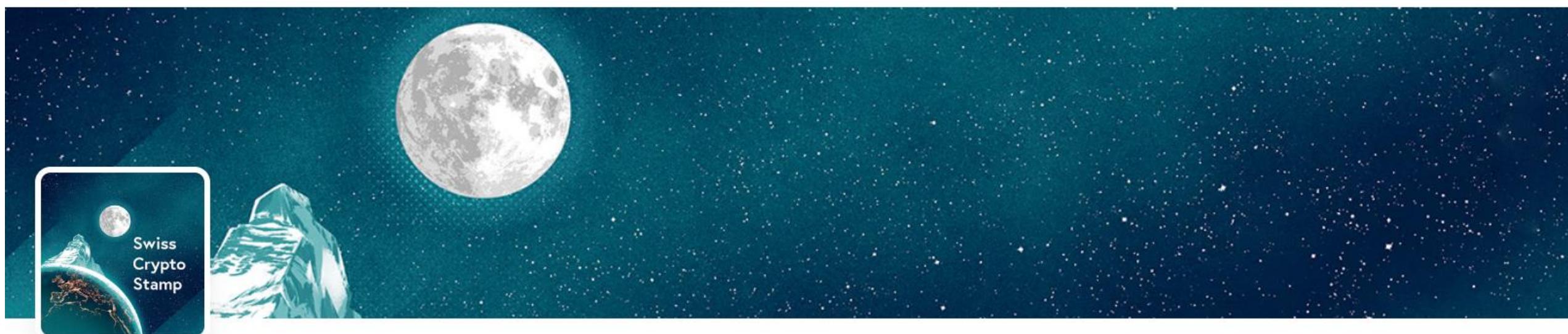
Price History

0.0008 ETH
Avg. price: 0.0008 ETH
Num. sales: 1
Nov 24 at 7:00 AM



Description

Listings



Swiss Crypto Stamp



By [SwissCryptoStamp](#)

Unique items 13 · Total items 175K · Created **Nov 2021** · Creator earnings 0% · Chain **Polygon**

With the Swiss Crypto Stamp, Swiss Post is bridging the gap between the physical and digital worlds in philately,...

[See more](#) ▾

98 ETH
total volume

0.0038 ETH
floor price

0.001 ETH
best offer

100%
listed

171,956
owners

98%
unique owners

Items

Analytics

Activity



Search by name or attribute

Price low to high ▾





Search by name or attribute

Price low to high



Status



Price



Quantity



Currency



Matterhorn

0.0038 ETH

Last sale: 360 MATIC

Dent Blanche

0.005 ETH

Last sale: 0.005 ETH

Piz Bernina

0.0058 ETH

Last sale: 0.0058 ETH

Säntis

0.0116 ETH

Last sale: 0.0116 ETH

Pilatus

0.0332 ETH

Last sale: 0.023 ETH

Dufourspitze

0.055 ETH

Last sale: 0.040 ETH

x2500



x1000



x350



x150



x250



x200



Rigi

0.1795 ETH

Last sale: 0.105 ETH

Eiger, Mönch and Jungfrau

0.3 ETH

Last sale: 0.200 ETH

Matterhorn with Marmot

2.5 ETH

Last sale: 0.0041 ETH

Rigi with golden eagle

3 ETH

Last sale: 2.450 ETH

Piz Bernina with Ibex

3.8 ETH

Last sale: 0.500 ETH

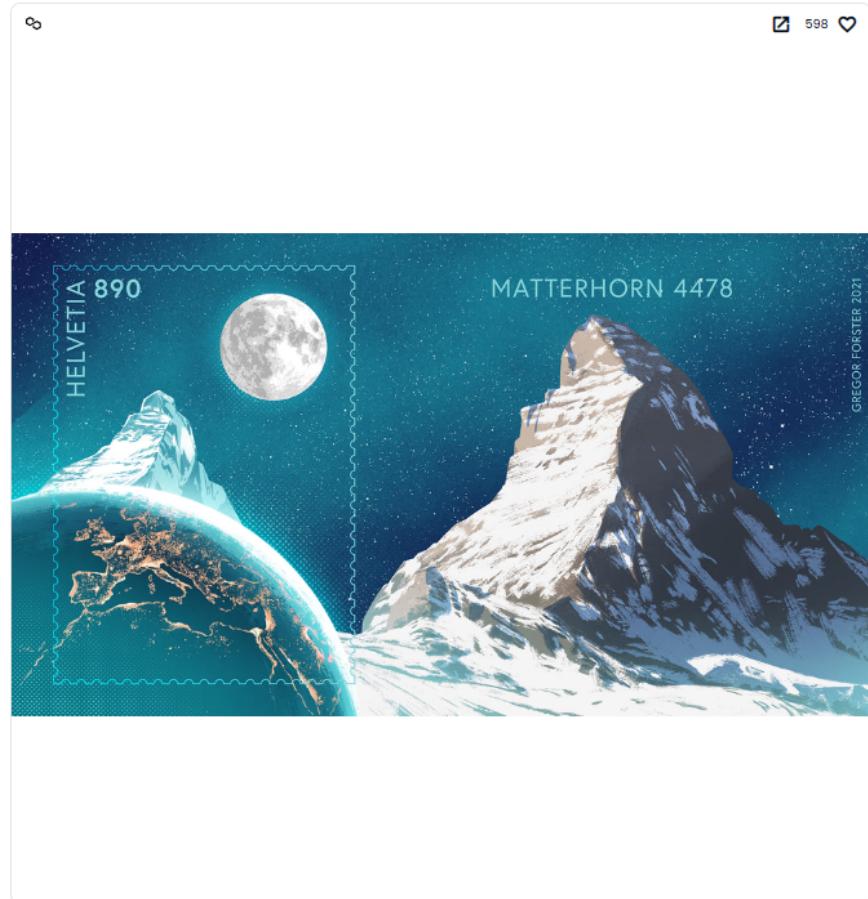
Säntis with cow

5.5 ETH

Last sale: 0.750 ETH

x50





Swiss Crypto Stamp

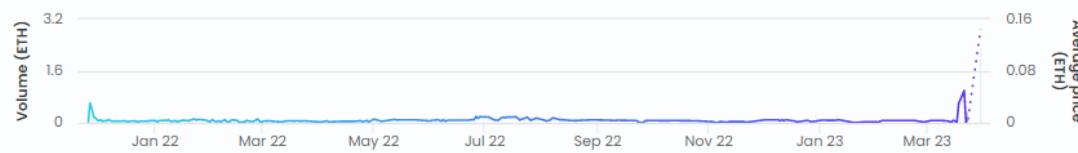
Matterhorn

64.2K owners | 65.0K items | 34.8K views | 598 favorites

Current price

0.0038 ETH \$6.93 Substitute listings ⓘ**Buy it now****Make offer**

Price History



Listings

Unit Price	USD Unit Price	Quantity	Expiration	From
------------	----------------	----------	------------	------

0.0038 ETH	\$6.93	6	in 1 month	087B3B
------------	--------	---	------------	--------



0.004 ETH	\$7.21	29	in 24 days	KardosShop
-----------	--------	----	------------	------------



0.005 ETH	\$9.12	29	in 6 months	KardosShop
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Description

By SwissCryptoStamp

The first digital design naturally shows the Matterhorn, Europe's most famous pyramid-shaped mountain.



Swiss Crypto Stamp 2.0



Unique items 11 · Total items 250K · Created Jul 2022 · Creator earnings 0% · Chain Polygon

After the success of the first crypto stamp last year, Swiss Post is continuing its adventure and will be putting th...

See more ▾

0.534 ETH
total volume 0.0031 ETH
floor price --
best offer 91%
listed 248,020
owners 99%
unique owners

Items Analytics Activity



Search by name or attribute

Price low to high ▾



Status



C 11 items

Price



x25K

Quantity



x25K

Currency



x25K



C 11 items



Cyril Schäublin
0.0031 ETH
Last sale: 0.006 ETH



Denise Fernandes
0.0031 ETH
Last sale: 0.005 ETH



Elene Naveriani
0.0031 ETH
Last sale: 6 MATIC



Elie Grappe
0.0031 ETH
Last sale: 5 MATIC



Klaudia Reyncicke
0.0031 ETH
Last sale: 0.003 ETH



Maya Kosa / Sergio da Costa
0.0031 ETH
Last sale: 5 MATIC



Nora Longatti
0.0031 ETH
Last sale: 0.005 ETH



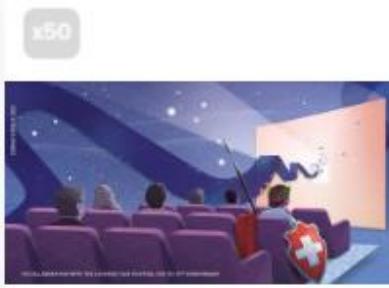
Samuel Patthey
0.0031 ETH
Last sale: 0.003 ETH



Valentin Merz
0.0031 ETH



Yan Hirschbühl
0.0031 ETH
Last sale: 5 MATIC



Helvetic Film World

Harga Penjualan

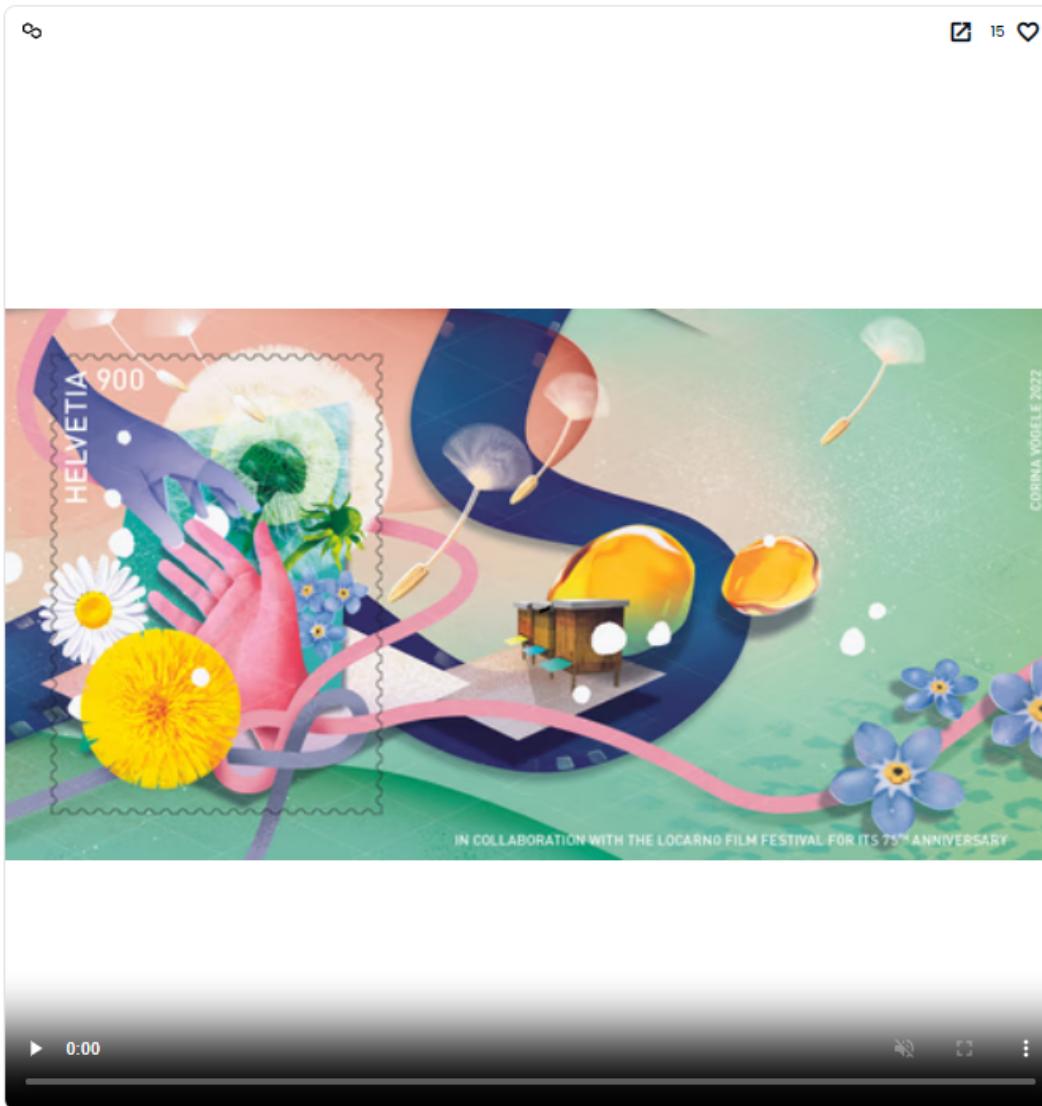


Swiss Crypto Stamp 2.0



- ✓ 10 designs
- ✓ Launch date: 8 August 2022
- ✓ 250,000 copies in total, 25,000 for each design
- ✓ Price per design: CHF 9
- ✓ In cooperation with the Locarno Film Festival

[Explore the collection](#)



15

Swiss Crypto Stamp 2.0

Denise Fernandes

24.9K owners 25.0K items 719 views 15 favorites

Current price

0.0031 ETH \$5.66 Substitute listings ⓘ

Buy 1 now

Make offer

Price History



Listings

Unit Price	USD Unit Price	Quantity	Expiration	From	
0.0031 ETH	\$5.66	4	in 6 months	087B3B	
0.0069 ETH	\$12.68	6	in 24 days	KardosShop	
0.007 ETH	\$12.77	27	in 6 months	stamps24-ch	

Description

By SwissCryptoStamp

Flowers are able to reach all four corners of the world. Regardless of race, generation or gender, there are

Swiss Crypto Stamp 2.0





UN Crypto Stamp

A row of small, semi-transparent icons representing different metrics or features.

Items 339 · Created Nov 2020 · Creator earnings 0% · Chain Ethereum

Connects a new generation of United Nations stamps with the blockchain

0.878 ETH
total volume **0.009 ETH**
floor price -- best offer 3% listed 80 owners 24% unique owners

Items Analytics Activity

Live **BETA** 343 results

Search by name or attribute

Price low to high

Status

▼



Price

▼



Quantity

▼



Currency

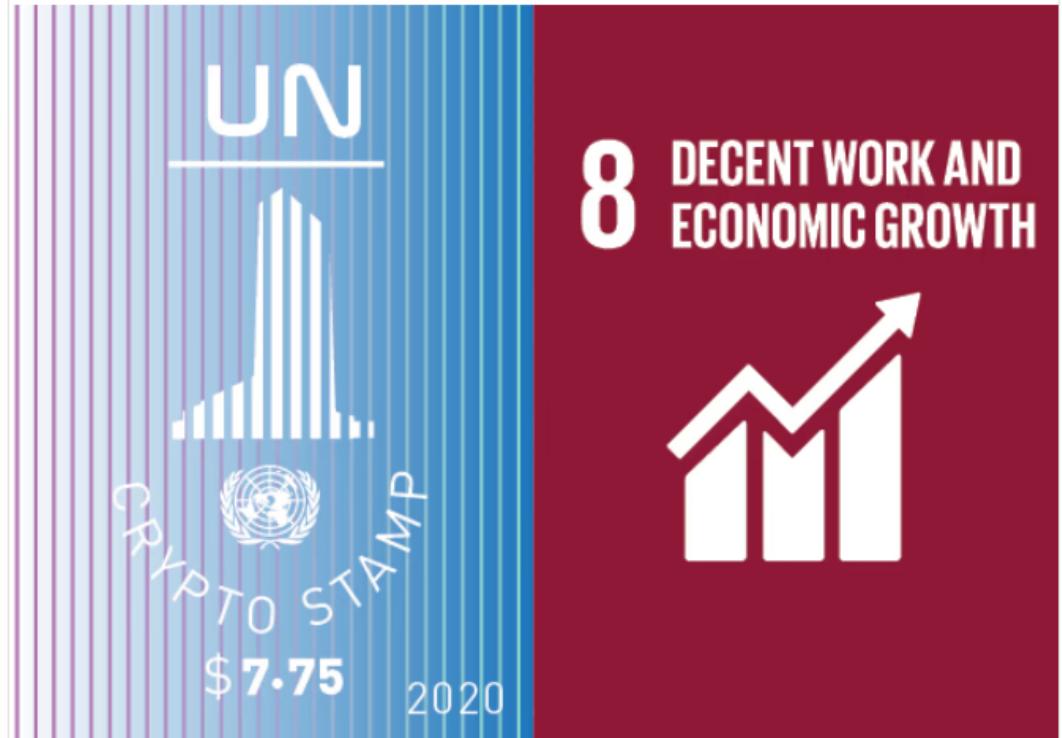
▼



Sweep



Make collection offer



0

UN Crypto Stamp

UNCS1 Cs1WA

Owned by stamps24-ch

23 views

Sale ends September 24, 2023 at 1:01 PM

Current price

0.009 ETH \$16.40

Add to cart



Make offer

Price History



No events have occurred yet

Check back later.

Listings

Offers

Description

By 90C1B5

UN Crypto Stamp Cs1WA



No offers yet

Aktifitas Transaksi NFT Llama

Item Activity				
Filter				
Event	Price	From	To	Date
>List	0.005 ETH	Leonardo_Sa_Toshi		4d ago
List	0.062 ETH	Leonardo_Sa_Toshi		2y ago
Transfer		23BA98	Leonardo_Sa_Toshi	2y ago 
Airdrop		NullAddress	23BA98	3y ago 

Kesimpulan

- Digital Twin : Sama halnya dengan Prangko konvensional. Ada harga penjualan awal, ada harga kolektor NFT.

Regulasi

- NFT Artist atau Artist Konvensional yang mau untuk menjadi NFT Artist untuk kepengurusan hak cipta gambar.
- Versioning teknologi smart contract yang dirilis.



Crypto Stamp Collection

Crypto stamp Collection is only available for Crypto stamps on xDAI/Gnosis chain:

- Crypto stamp 2.0 (xDAI/Gnosis onchain)
- Crypto stamp 3.0
- Crypto stamp 3.1

A Crypto stamp Collection is a virtual stamp album. The Crypto stamp Collection is normally identified by a name entered in the Ethereum Name System (ENS). Scan the mnemonic QR code ("[3]" on Crypto stamp 1.0, "[2]" on Crypto stamp 3.1) to enable Crypto stamps to be added to the collection. In technical terms, the Crypto stamp Collection – just like the Crypto stamps – is a special proxy smart contract with its own blockchain address and simultaneously an ERC-721 token. This allows the entire collection to be transferred or sold to a different owner.

Install an Ethereum browser

To start using your collections, activate Ethereum capabilities in your browser. You can do that by installing MetaMask or using a browser with Ethereum capabilities built-in.

[How to setup Metamask](#)



STAD VAN NEDERLAND

toekomst in beweging



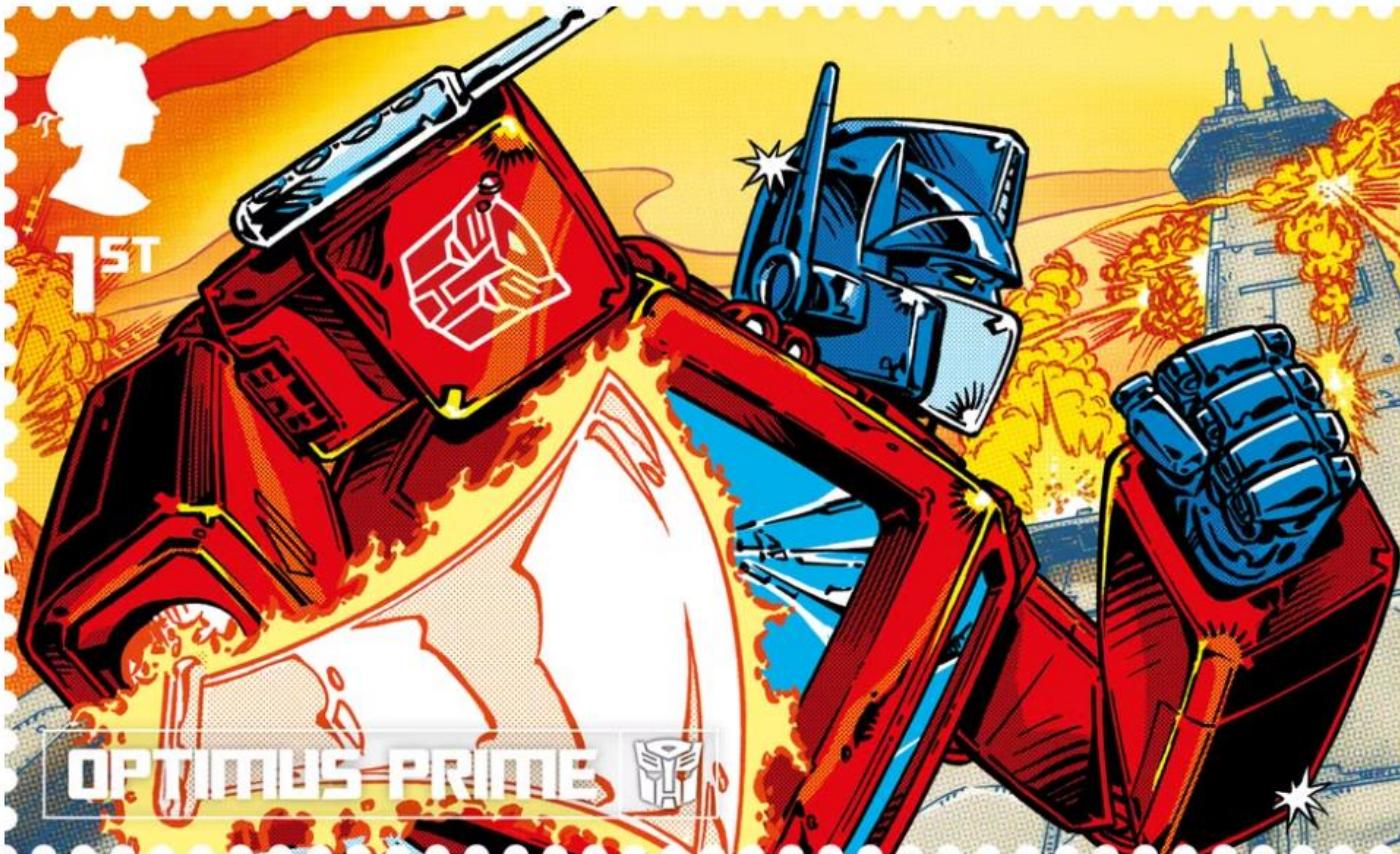
Augmented Reality (AR) stamp

Money

Royal Mail unveils Augmented Reality Transformers stamps

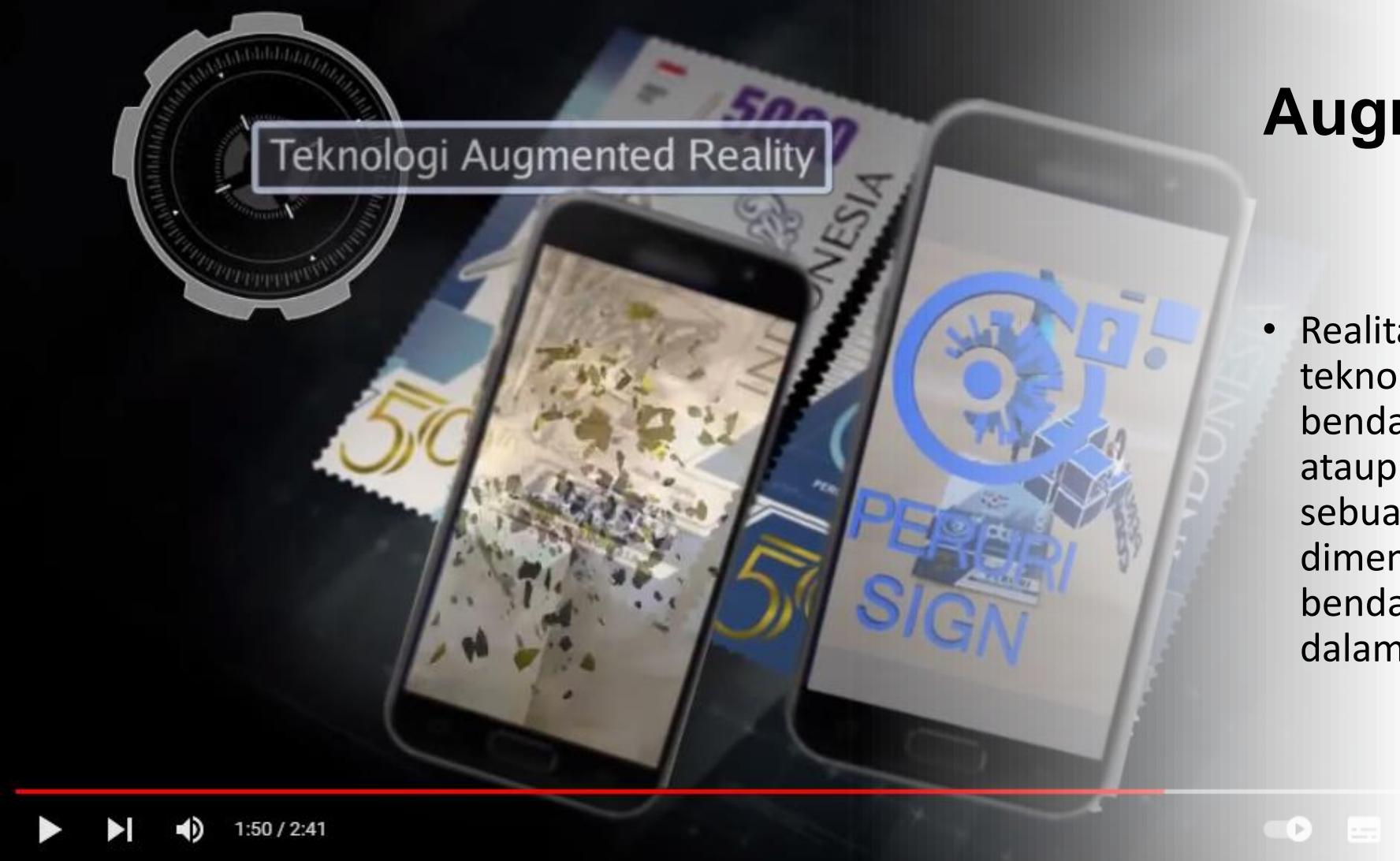
The stamps pay tribute to the British contribution to the robots franchise.

Luke O'Reilly • Sunday 14 August 2022 15:27



Augmented Reality

- Realitas berimbuh, adalah teknologi yang menggabungkan benda maya dua dimensi dan ataupun tiga dimensi ke dalam sebuah lingkungan nyata tiga dimensi alalut memproyeksikan benda-benda maya tersebut dalam waktu nyata.



Peluncuran Prangko Augmented Reality Edisi 50 Tahun Peruri



Solusi QRCode

 QRCode use the Reed–Solomon error correction algorithm with four error correction levels :

4

- Level L (Low) 7% of codewords can be restored.
- Level M (Medium) 15% of codewords can be restored.
- Level Q (Quartile) 25% of codewords can be restored.
- Level H (High) 30% of codewords can be restored.



 A reading won't return you wrong values : if the QRcode can't be read it won't return anything, so it's quite "accurate".



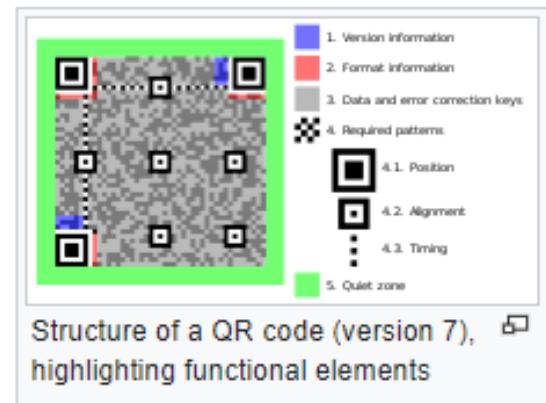
See http://en.wikipedia.org/wiki/QR_code for more explanations.

Standards [edit]

There are several standards that cover the encoding of data as QR codes:^[14]

- October 1997 – AIM (Association for Automatic Identification and Mobility) International^[15]
- January 1999 – JIS X 0510
- June 2000 – ISO/IEC 18004:2000 *Information technology – Automatic identification and data capture techniques – Bar code symbology – QR code* (now withdrawn)
Defines QR code models 1 and 2 symbols.
- 1 September 2006 – ISO/IEC 18004:2006 *Information technology – Automatic identification and data capture techniques – QR code 2005 bar code symbology specification* (now withdrawn)^[16]
Defines QR code 2005 symbols, an extension of QR code model 2. Does not specify how to read QR code model 1 symbols, or require this for compliance.
- 1 February 2015 – ISO/IEC 18004:2015 *Information – Automatic identification and data capture techniques – QR Code barcode symbology specification*
Renames the QR Code 2005 symbol to QR Code and adds clarification to some procedures and minor corrections.
- May 2022 – ISO/IEC 23941:2022 *Information technology – Automatic identification and data capture techniques – Rectangular Micro QR Code (rMQR) bar code symbology specification*^[17]
Defines the requirements for Micro QR Code.

At the application layer, there is some variation between most of the implementations. Japan's NTT DoCoMo has established de facto standards for the encoding of URLs, contact information, and several other data types.^[18] The open-source "ZXing" project maintains a list of QR code data types.^[19]



Contoh Kasus : Royal Stamp(Bukan QR Code)

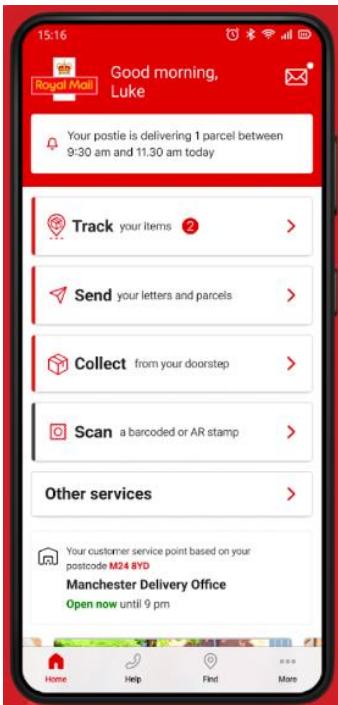
We've added barcodes to all our regular stamps. Regular stamps without a barcode* will no longer be valid after 31 July 2023. This follows the introduction of a 6 month grace period from the initial 31 January deadline. You can either use up your non-barcoded stamps before this new deadline or swap them for the new barcoded ones.

The stamps that have changed are the stamps (pictured below) that will be very familiar to you. They feature the profile of Her Late Majesty The Queen on a plain coloured background. The barcodes will enable exciting new services by connecting physical stamps to the digital world through the Royal Mail app which you can download [here](#).



Note: Special Stamps with pictures on and Christmas Stamps without a barcode will continue to be valid and don't need to be swapped out.

Scan Hanya Dari Aplikasi, Untuk Mengirim Video ke Penerima Surat



Google Play Games Apps Movies Books Children

Royal Mail

Royal Mail Group

1M+ Downloads | Rated for 3+ ⓘ

Add to wishlist

This app is not available for your device

Developer contact ⓘ

The Google Play Store page for the Royal Mail app. It features the app's logo, developer information, download statistics, and rating. A note indicates the app is not available for the user's device. Below the main info, there's a row of six screenshots showing different features of the app, followed by a link to "About this app".

About this app →

Track an item:
• Simply enter your Royal Mail tracking ID or scan the barcode and we'll notify you on the progress of your delivery.

A large, rounded square icon for the Royal Mail app, featuring the brand's red color and white crown logo.

Inovasi : Bagaimana cara agar prangko bisa di tracking

- QRCode on Demand Print pada bagian prangko(Belum Ada)



Digital Twin Stamp

- Austria Post : <https://crypto.post.at/>
- Croatian Post : <https://kripto.posta.hr/marka/>
- Emirates Post Group : <https://www.emiratespostshop.ae/>
- Gibraltar Stamps : <https://www.gibraltar-stamps.com/>
- Liechtenstein : <https://shop.philatelie.li/>
- Malaysia : <https://www.pos.com.my/empatbelas-setem-ku-folder-set.html>
- Marshall Islands : <https://www.mi10cryptostamps.com/>
- Netherlands : <https://www.postnl.nl/en/sending/nl-crypto-stamp/>
- Swiss Post : <https://shop.post.ch/shop/>
- Thailand Post : <https://www.thailandpost.co.th/en/index/>
- United Nations : <https://crypto.unstamps.org/>

Terima Kasih

