

Blockchain&GIS

How to protect data privacy?

Overview of presentation

This presentation was explain about FAIR principle which most important to be open data, and geospatial data. FAIR – a set of guiding principles to make data Findable, Accessible, Interoperable, and Reusable. The term FAIR was launched at a Lorentz workshop in 2014, the resulting FAIR principles were published in 2016.

Blockchain and GIS are possible to integrated? In term of blockchain technology data store designed to distribute and open for access, open for traceback. This is most benefit from this technology. So, tracing back the data and official trust data information should store in blockchain.

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01

▪ Blockchain

Decentralisation — no single party has control over what information goes in

Consensus — many different parties store exact copies of the same ledger, so the majority has to agree on the information being added



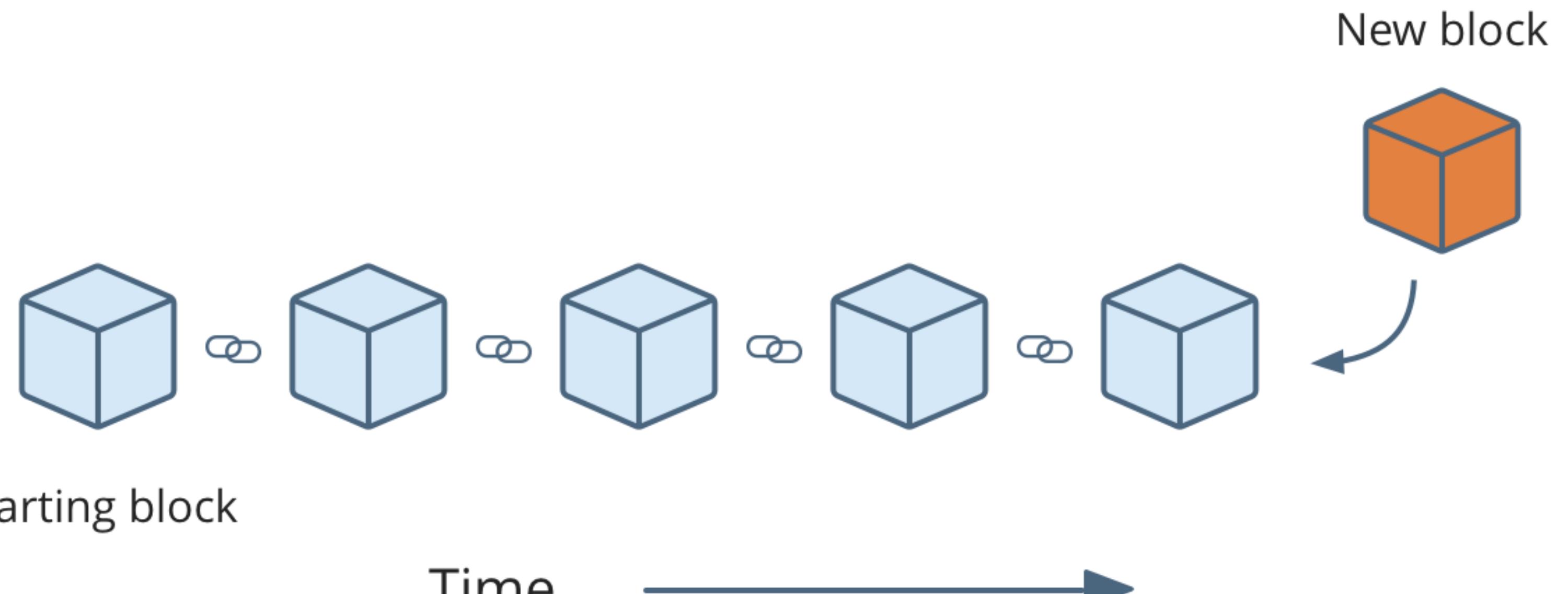
Add-only meaning you can't edit what's already there, you can only add information

No Conflict New information can't conflict with what's already been added

01

■ Blockchain

How it is work?

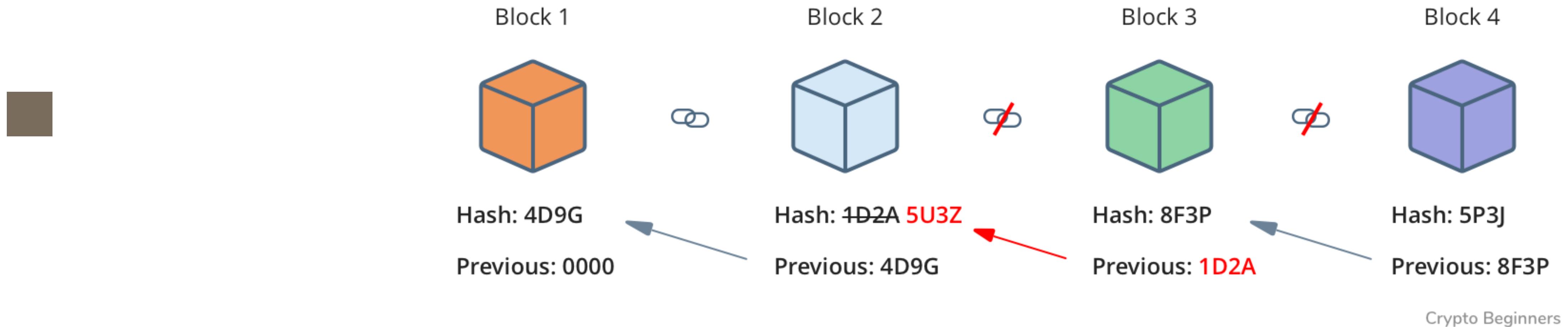


Crypto Beginners

01

■ Blockchain

How it is work?



02

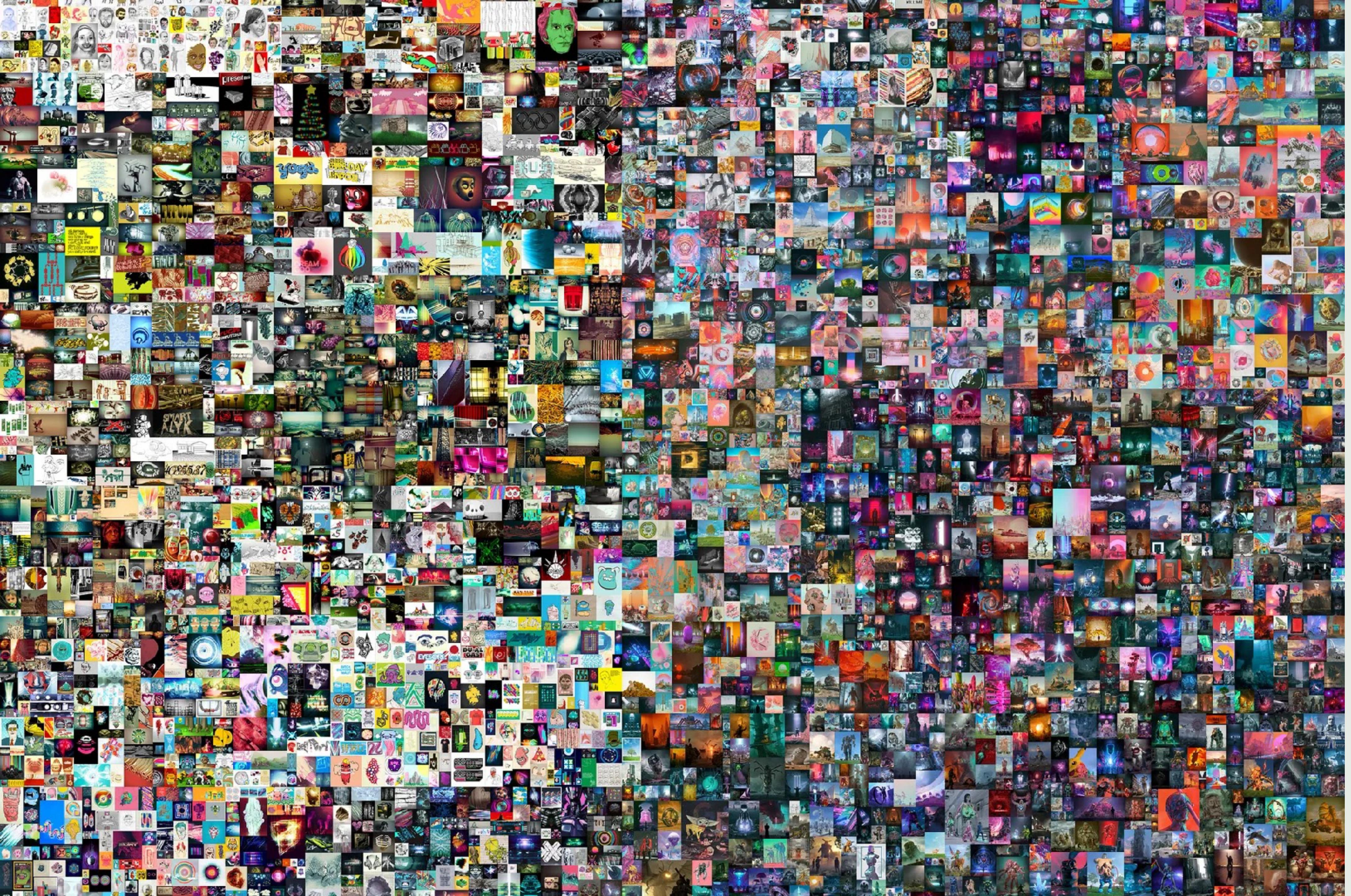
■ NFT NON-FUNGIBLE TOKEN

I-bitz company limited
GIS Marathon 24 Hours

Date
26 February 2021

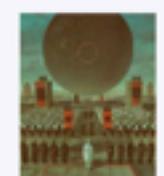
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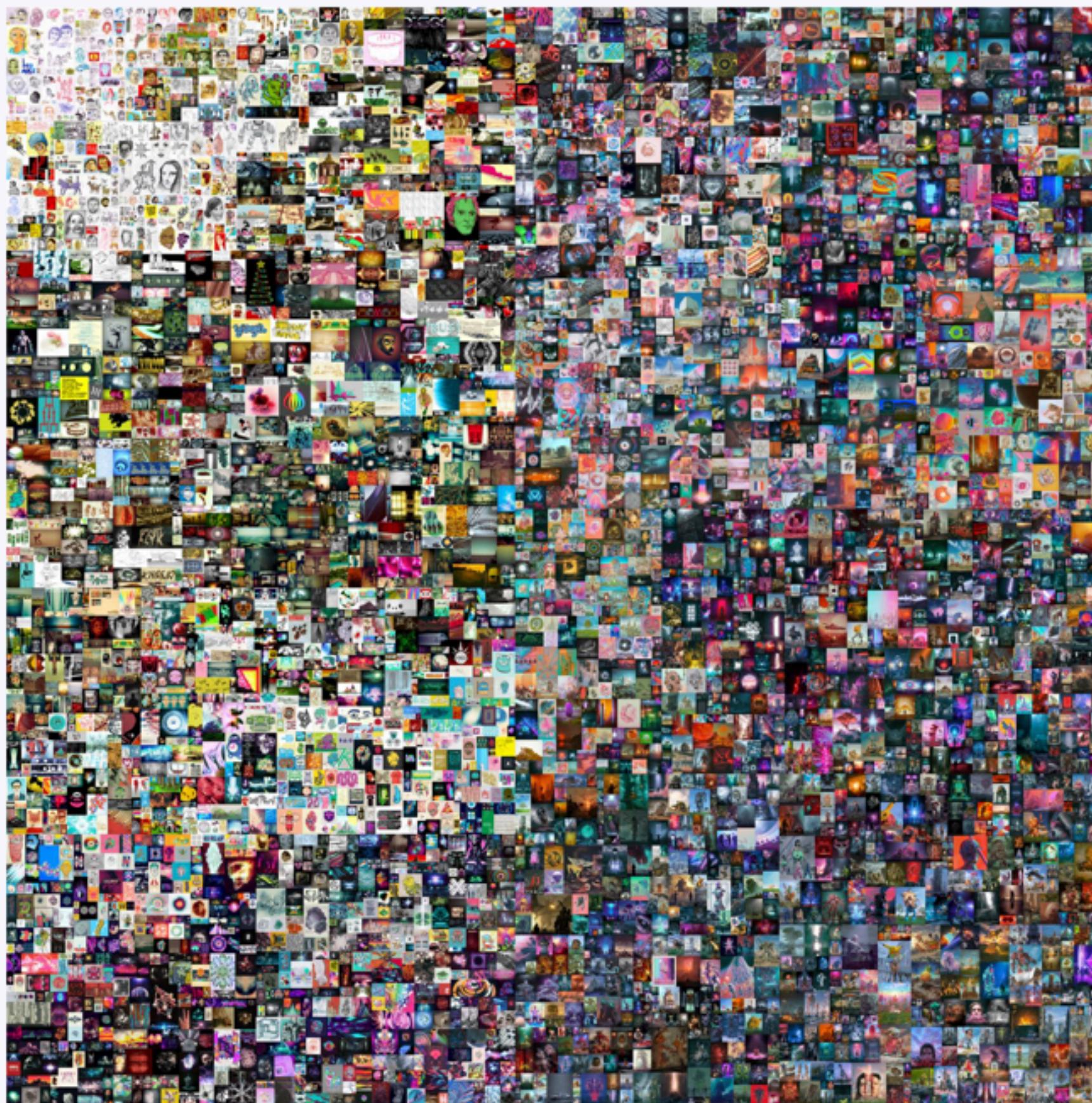


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**Beeple (b. 1981)****EVERYDAYS: THE FIRST 5000 DAYS**

Price Realised

USD 69,346,250

Estimate unknown



Closed: 11 Mar 2021

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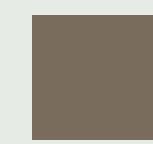


Winder Forest

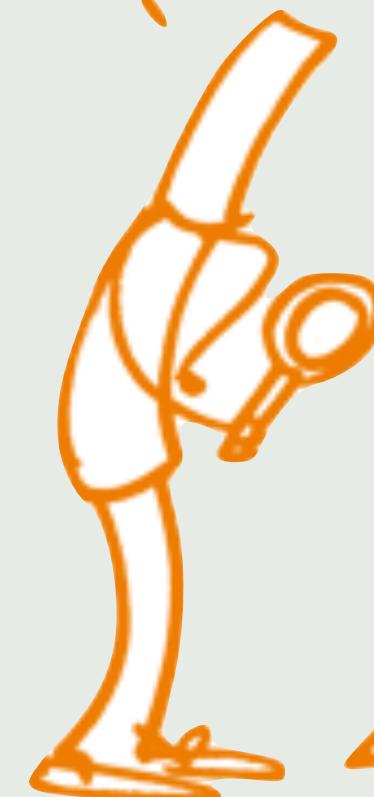
03

FAIR principles Findable, Accessible, Interoperable and Re-usable

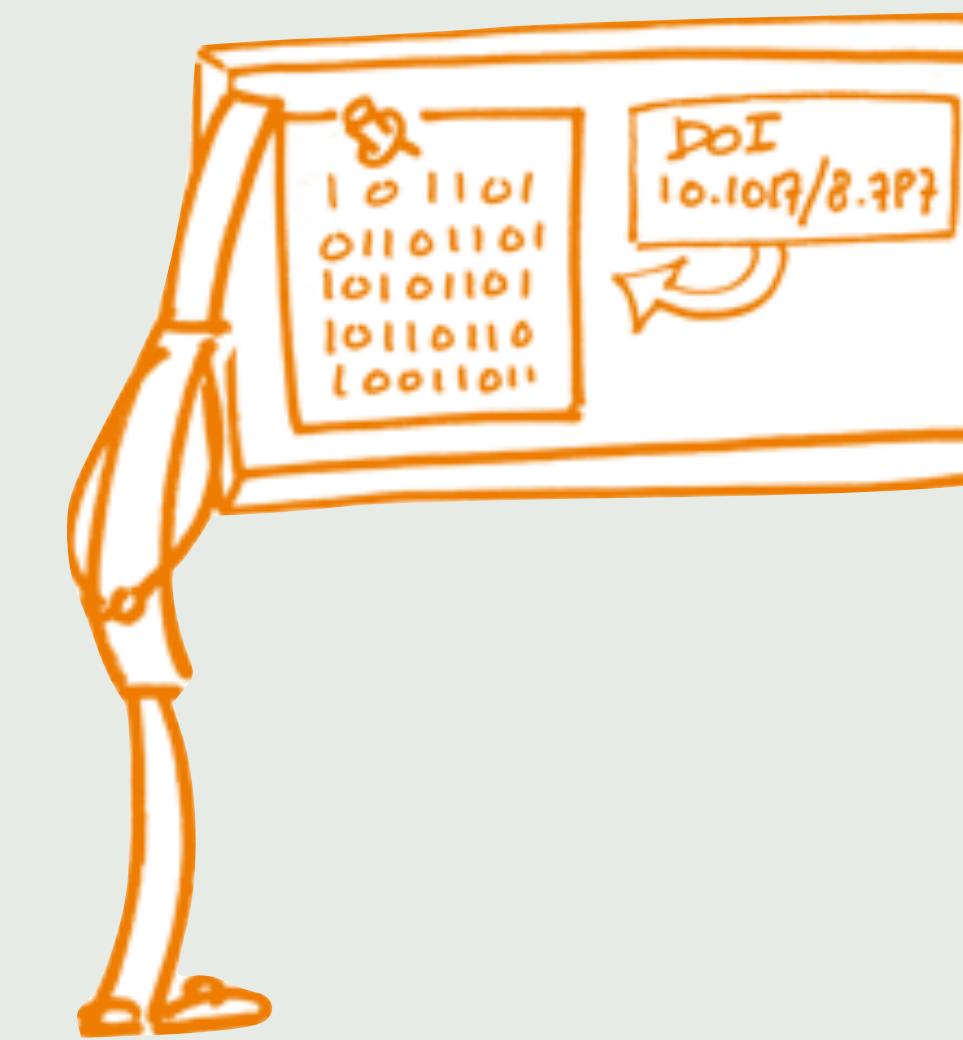
FAIR DATA PRINCIPLES



AH!



FINDABLE



ACCESSIBLE



INTEROPERABLE



REUSABLE

https://open-science-training-handbook.github.io/Open-Science-Training-Handbook_EN/

03

▪ Findable

The first thing to be in place to make data reusable is the possibility to find them. It should be easy to find the data and the metadata for both humans and computers. Automatic and reliable discovery of datasets and services depends on machine-readable persistent identifiers (PIPs) and metadata.

ສິ່ງແຮກທີ່ຈະກຳໃຫ້ຂ້ອມູລສານາຄຸກໃຫ້ ຈານໜ້າໄດ້ ກົດໆເວົາສານາຄຸກຫາຂ້ອມູລມັນໄດ້ ແລະ ຄວວຍ່າງຍຶ່ງທີ່ຕ້ອງໜ້າໄດ້ຍ່າງ ຮວດເຮືວແລະ ໄມ່ລຳບາກ ທີ່ Metadata ທີ່ ສ້າງນາສໍາຮັບມຸນເຊີຍ ມີ ຂອບພົວເຕັນ ຕ້ອງສານາຄຸກເຂົ້າໃຈໄດ້ ຮະບບການເຂົ້າຄົ້ນຂ້ອມູລທີ່ດີ ພຣ້ອມ Metadata ຈະກຳ ແລະ ສານາຄຸກກຳງານໄດ້ ແບບອັດໂນມັຕີ

▪ Accessible

The (meta)data should be retrievable by their identifier using a standardized and open communications protocol, possibly including authentication and authorisation. Also, metadata should be available even when the data are no longer available.

ຂ້ອມູລຄວງຄຸກເຮັດວຽກອອກນາໄດ້ໂດຍການ ຮະບຸຜ່ານວິທີການ ແລະ ການສ້ອສາກທີ່ເປັນ ມາຕະຫຼາມ ຫຼຶ້ງສານາຄຸກວິປັດກຳ ກຳນົດສຶກທິການເຂົ້າຄົ້ນ ເຊັ່ນເດືອຍວັນກັບ ຄໍາອົບຍ້າຂ້ອມູລ (Metadata) ກົດໆຄວງຄຸກ ເຮັດວຽກອອກນາໄດ້ເຊັ່ນເດືອຍວັນ ເພື່ອອົບຍ້າ ຂ້ອມູລ ຄົ້ນແນ້ວ່າຂ້ອມູລອາຈະໄນ່ສານາຄຸກ ເຂົ້າຄົ້ນໄດ້ກົດໆຕາມ

▪ Interoperable

The data should be able to be combined with and used with other data or tools. The format of the data should therefore be open and interpretable for various tools, including other data records. The concept of interoperability applies both at the data and metadata level. For instance, the (meta)data should use vocabularies that follow FAIR principles.

ຂ້ອມູລ ຄວງ ມີຄວາມສານາຄຸກທີ່ຈະຄຸກນຳໄປ ໃໃຈງານຮ່ວມກັບຂ້ອມູລຊຸດອື່ນໆ ມີ ເຊື່ອ ເຄື່ອງ ມີ ອື່ນໆ ໄດ້ ທີ່ມີເນື່ອພິຈາລະນາຄົ້ນຂ້ອມູລ ຄວງນີ້ format ທີ່ເປັດໃຈງານແລະ ອ່ານ ຕີ່ຄວາມຂ້ອມູລຜ່ານເຄື່ອງມີໄດ້ຮ່າຍໆ ເຄື່ອງມີ ມີ ຂັດການຂອງ ການແລກປ່ຽນປະຫວ່າງ ກັນຕ້ອງພິຈາລະນາກັ້ນມີຕົກອົງຂ້ອມູລແລະ ມີຕົກອົງ Metadata

▪ Re-usable

Ultimately, FAIR aims at optimizing the reuse of data. To achieve this, metadata and data should be well-described so that they can be replicated and/or combined in different settings. Also, the reuse of the (meta)data should be stated with (a) clear and accessible license(s).

ເປົາມາຍສູງສຸດຂອງ FAIR ທີ່ ຕ້ອງການໃຫ້ເກີດແນວການໃຫ້ຂ້ອມູລ ທ້າໄດ້ ເພື່ອໃຫ້ບຣລຸວັຕຸປະສົງນີ້ ການນຳມຳອຽບຍ້າຂ້ອມູລທີ່ດີ ທີ່ຄຽບຄັນ ຕາມຄຸນລັກເບັນຮະບອງຂ້ອມູລ ຍ່ອນ ກຳໃຫ້ເກີດການນຳໄປໃຫ້ຕ່ອງ ເພື່ອສ້າງ ຂ້ອມູລ ແລະ ປະໂໂຍື່ນນີ້ເປັນຕ່ອງໄປ ແລະ ການນຳໄປໃຫ້ຕ່ອງຄວງພິຈາລະນາ ເຮັດວຽກໃຫ້ສັດເຈນ

03

▪ Findable

- F1. (meta)data are assigned a globally unique and eternally persistent identifier.
- F2. data are described with rich metadata.
- F3. (meta)data are registered or indexed in a searchable resource.
- F4. metadata specify the data identifier.

▪ Accessible

- I1. (meta)data use a formal, accessible, shared, and broadly applicable language for knowledge representation.
- I2. (meta)data use vocabularies that follow FAIR principles.
- I3. (meta)data include qualified references to other (meta)data.

▪ Interoperable

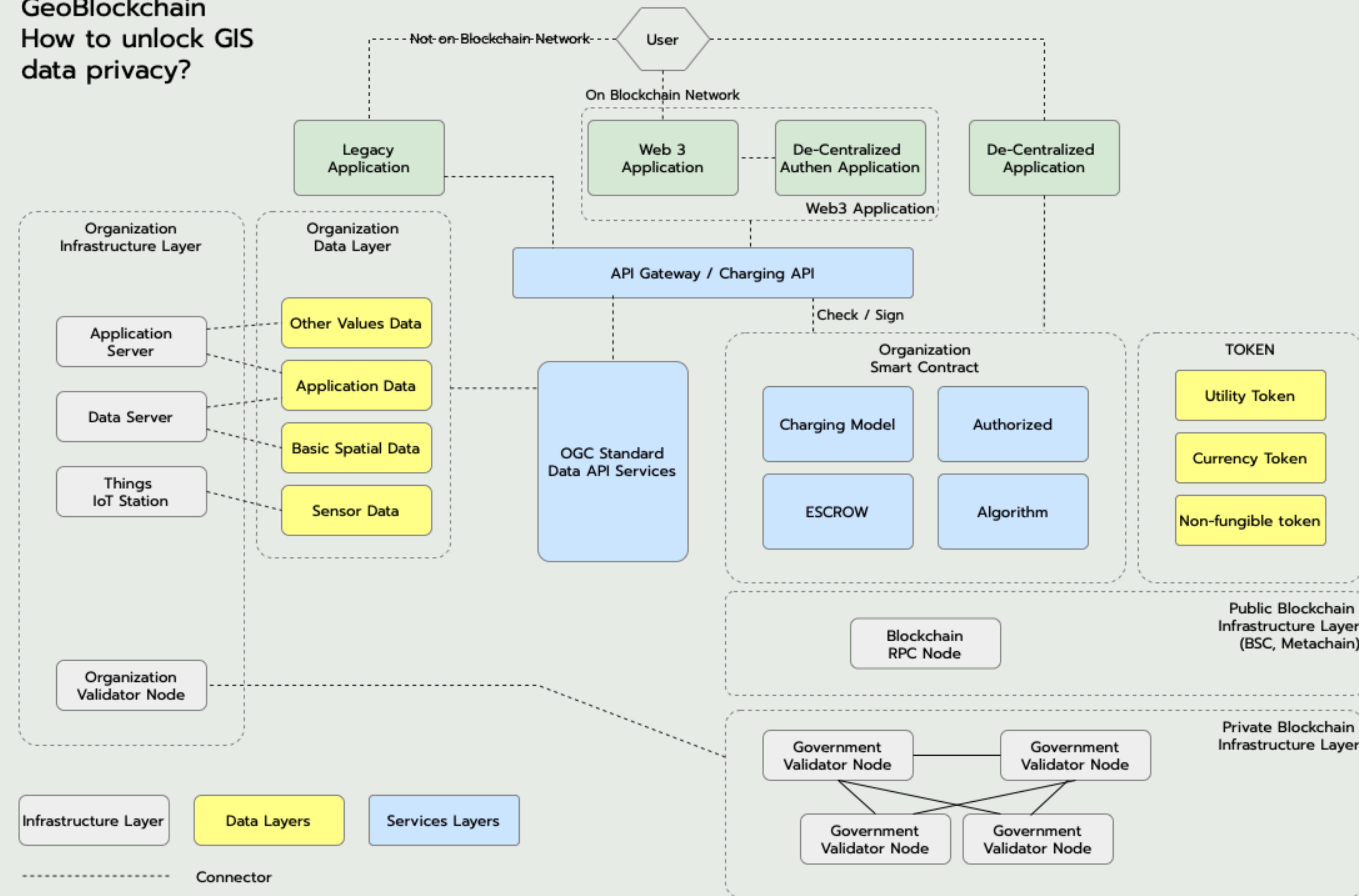
- A1 (meta)data are retrievable by their identifier using a standardized communications protocol.
 - A1.1 the protocol is open, free, and universally implementable.
 - A1.2 the protocol allows for an authentication and authorization procedure, where necessary.
- A2 metadata are accessible, even when the data are no longer available.

▪ Re-usable

- R1. meta(data) have a plurality of accurate and relevant attributes.
 - R1.1. (meta)data are released with a clear and accessible data usage license.
 - R1.2. (meta)data are associated with their provenance.
 - R1.3. (meta)data meet domain-relevant community standards.

GeoBlockchain

How to unlock GIS data privacy?



Thanks You

For your attention

I-bitz company limited

GIS Marathon 24 Hours

Date

26 February 2021

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