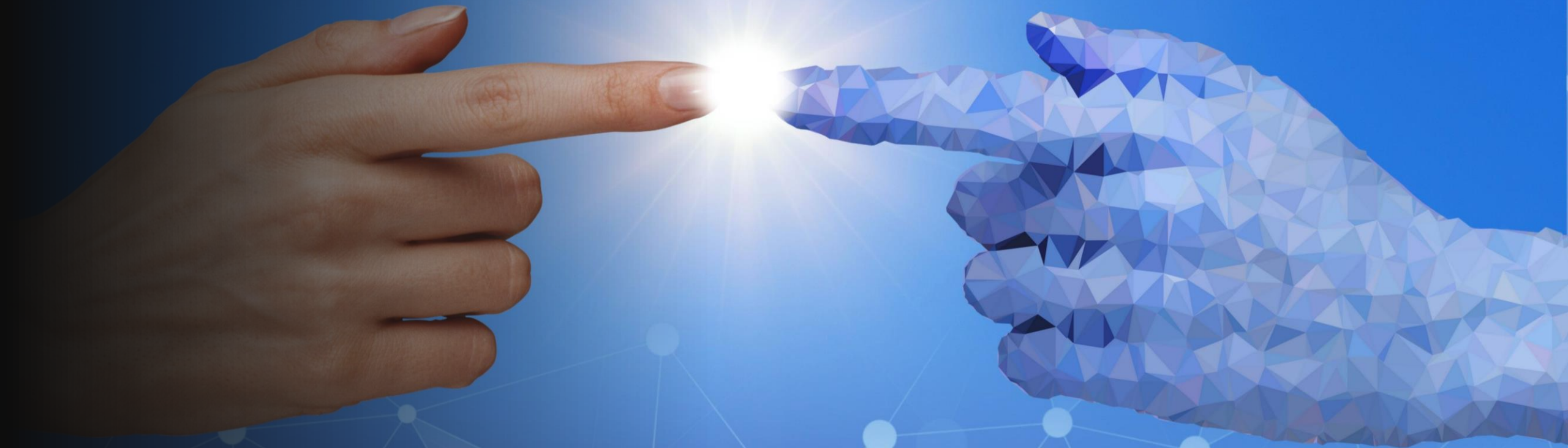


Introduction to blockchain use cases to be found
outside of the speculation mania.



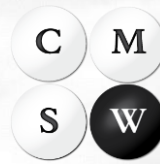
www.alexpfeiffer.at | twitter.com/alexpfeiffer
www.researchgate.net/profile/Alexander-Pfeiffer-2



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SHELLER TEACHER EDUCATION PROGRAM
education arcade



L-Università
ta' Malta



WIRTSCHAFTS
UNIVERSITÄT
WIEN VIENNA
UNIVERSITY OF
ECONOMICS
AND BUSINESS



www.alexpfiffer.at



www.blockchain-in-gaming.com/gallerydefenderontestnet/



www.carbon-diet.at/

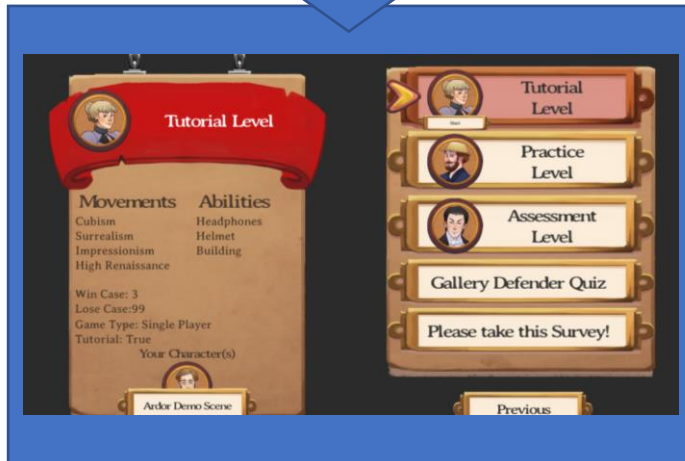


www.cycle4value.at/en/

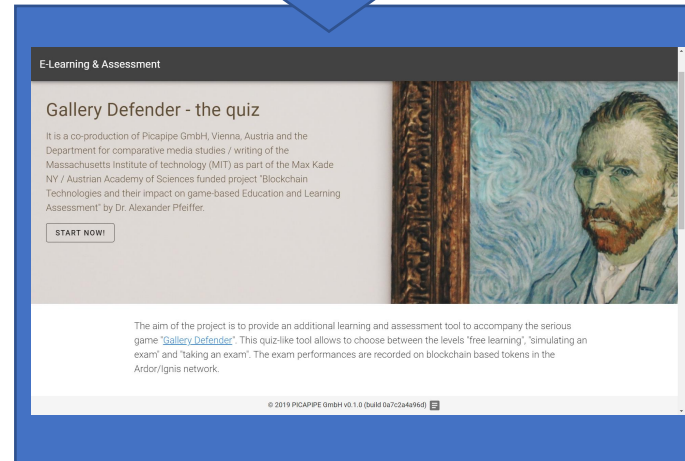


cities.ait.ac.at/projects/hotcity/

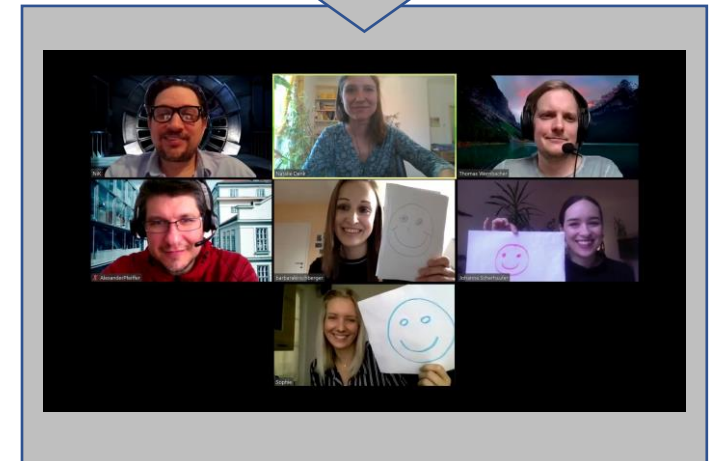
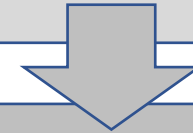
Game-based learning & Assessment



E-Learning & Assessment



In person and online conducted
oral exams



Tradeable Network
Maintainance Utility
Token

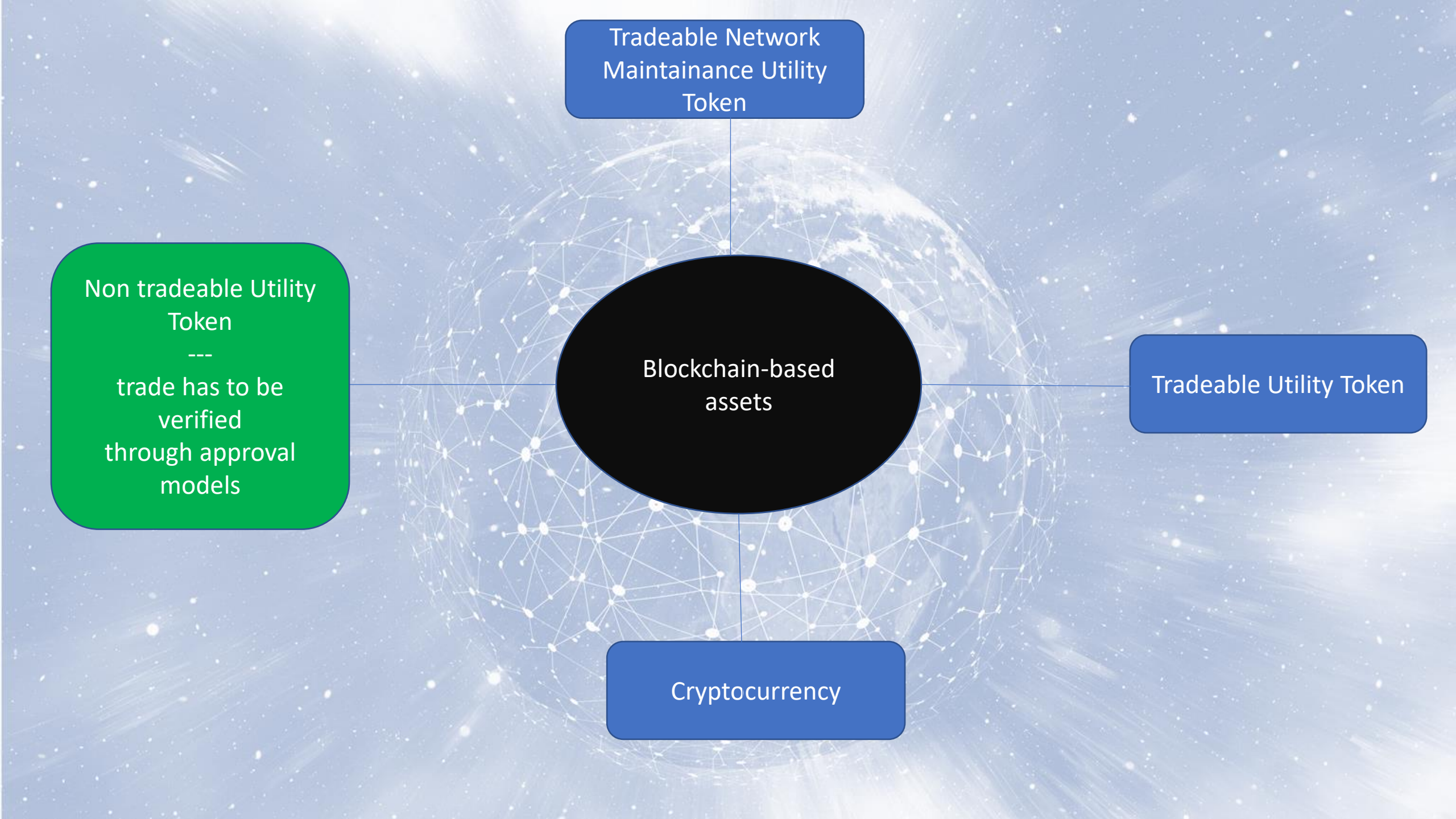
Non tradeable Utility
Token

trade has to be
verified
through approval
models

Blockchain-based
assets

Tradeable Utility Token

Cryptocurrency



Blockchain

and the **GAMING SECTOR**

TRY OUT ONE OF THE FIRST LEARNING GAMES WORLDWIDE, WHICH SECURES THE LEARNING RESULTS ON BLOCKCHAIN.

GALLERY DEFENDER WAS DEVELOPED BY THE LIVE LAB OF TEXAS A&M UNIVERSITY, THE BLOCKCHAIN PART WAS IMPLEMENTED UNDER THE SUPERVISION OF **DR. ALEXANDER PFEIFFER** (THE MIT EDUCATION ARCADE, MAX KADE NY SCHOLARSHIP RECIPIENT). IN FURTHER COOPERATION WITH DONAU-UNIVERSITÄT KREMS.

IF YOU LIKE TO TRY THE GAME PROTOTYPE AND TEST THE BLOCKCHAIN-SETTING (ON TESTNET AND/OR ON MAINNET), PLEASE CONTACT **ALEXANDER PFEIFFER**.

PLEASE HELP US AND FILL OUT OUR SURVEY ON THE IMPACT OF BLOCKCHAIN IN THE EDUCATIONAL INDUSTRY.

READ THE PAPER ON HOW GALLERY DEFENDER WAS CREATED AND LEARN MORE ABOUT THE TOKEN STRUCTURE.

LIVE LAB

TEXAS A&M UNIVERSITY



Massachusetts
Institute of
Technology



ÖAW

AUSTRIAN
ACADEMY OF
SCIENCES



Credits

LIVE Lab at Texas A&M University

André Thomas: Director
Hadeel Ramadan: Assistant Director
Lloyd Donelan : Engineering Lead
Michael Black : Engineer
Brenton Lenzen : Engineer
Nick Muniz : Engineer
Kishan Patel : Engineer

Comparative Media Studies | Writing at MIT

Alexander Pfeiffer: Blockchain Concept and
Consulting on Education Framework
<https://alexpfeiffer.mit.edu/>

Applied Game Studies at Danube-University Krems

N. Koenig: Senior Researcher
T. Wernbacher: Senior Researcher

Special Thanks

Trevor Higgins: Former Engineering Lead
Aksel Taylan: Former Engineer

About & Licensing

This particular version of the game gallery-defender has been developed as part of the research project Blockchain Technologies and their impact on game-based Education and Learning Assessment with support of the MAX KADE Foundation and the Austrian Academy of Sciences.

All artworks used in this game are low-resolution and licensed for free use in the US or public domain.

All artwork images used in this game are freely available online.

Gallery Defender is a non-commercial serious game intended for research and educational purposes.

Previous



Sending From Account Main :
ARDOR-365M-XM4Z-RZ48-23XNQ

Sending Gift and Student Token to Student
Account: ARDOR-X49X-72W4-A3P7-4P9S7
OR Your Personal Inputted Account

Sending Teacher Token to Teacher Account:
ARDOR-W5Y8-TRR7-9YHX-7QYPV

Input Message

Enter text...

Send Message

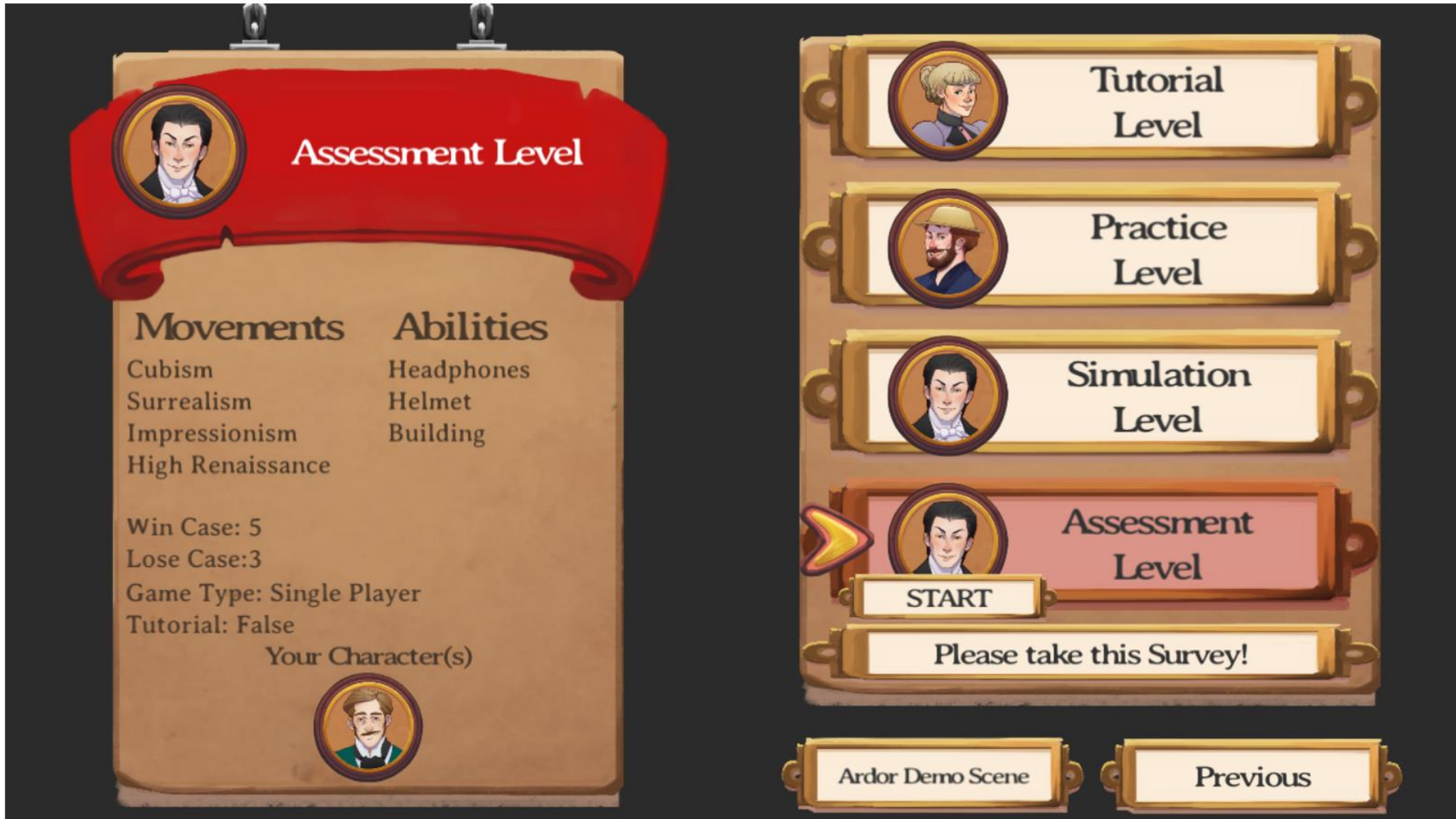
Send Teacher Token

Send Gift Token

Send Student Phased

Approve Transaction

Previous





Combat Log

- You chose: surrealism
- You chose: HighRenaissance
- You chose: Impressionism

Mr. Me

Victory Points: 2/5

Art Stolen by Thief: 0/3

Turn Limit: 9/15

Playing

This card cannot be played this turn

The Passage from Virgin to Old Woman

Headphones

The Lovers

Helmet

Violin and Candlestick

Building

The Parliament in London Stormy Sky

Cubism

Surrealism

Impressionism

High Renaissance



Your Account

ARDOR-X49X-72W4-A3P7-4P9S7

Set Account Info Details

Switch Account

1.359,9899 IGNIS
● Connected ● Unknown

IGNIS

Height 2942916

Search By ID...

Dashboard

- Dashboard
- Account Ledger
- Account Properties
- My Transactions
- Approval Requests
- Approval Models

Coin Exchange

Assets

Monetary System

Voting System

Data Cloud

Marketplace

Dashboard

1.359,9899

Account Balance

More Info

0 / 0

Pending / Completed Sales

More Info

Recent Transactions

Date					Height	Confirmations			
28.09.2019 12:49:11			Asset Transfer	1	ARDOR-365M-XM4Z-RZ48-23XNQ	You		2942894	22
27.09.2019 23:33:39			Asset Transfer	1	ARDOR-365M-XM4Z-RZ48-23XNQ	You		2938652	1.440+
27.09.2019 14:16:36			Asset Transfer	1	ARDOR-365M-XM4Z-RZ48-23XNQ	You		2935680	1.440+
27.09.2019 14:02:13			Asset Transfer	1	ARDOR-365M-XM4Z-RZ48-23XNQ	You		2935604	1.440+
27.09.2019 14:01:45			Asset Transfer	1	ARDOR-365M-XM4Z-RZ48-23XNQ	You		2935600	1.440+
27.09.2019 14:01:35			Asset Transfer	1	ARDOR-365M-XM4Z-RZ48-23XNQ	You		2935598	1.440+
27.09.2019 11:46:35			Asset Transfer	1	ARDOR-365M-XM4Z-RZ48-23XNQ	You		2934887	1.440+
27.09.2019 11:11:58			Asset Transfer	1	ARDOR-365M-XM4Z-RZ48-23XNQ	You		2934715	1.440+

Transaction Info



Info

Actions

Transaction
DetailsPhasing
Details

Raw Data

Asset: 13489968754320443895

Asset Name: veduut

Quantity: 1

Recipient: You

Sender: ARDOR-365M-XM4Z-RZ48-23XNQ

Type: Asset Transfer

Passphrase

.....

 Remember passphrase for decryption

Shared Key

Decrypt

Close

Your Account

ARDOR-X49X-72W4-A3P7-4P9S7

[Set Account Info](#) [Details](#)
[Switch Account](#)

1.359,9899 IGNIS

● Connected ● Unknown

[IGNIS](#)

Height 2942920

Dashboard

> Dashboard

> Account Ledger

> Account Properties

> My Transactions

> Approval Requests

> Approval Models

Coin Exchange

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Monetary System

Voting System

Data Cloud

Marketplace

Dashboard

1.359,9899

Account Balance

[More Info](#)

0 / 0

Pending / Completed Sales

[More Info](#)

Recent Transactions

Date			Height	Confirmations
28.09.2019 12:49:11			2942894	27
27.09.2019 23:33:39			2938652	1.440+
27.09.2019 14:16:36			2935680	1.440+
27.09.2019 14:02:13			2935604	1.440+
27.09.2019 14:01:45		Asset Transfer	2935600	1.440+
27.09.2019 14:01:35		Asset Transfer	2935598	1.440+
27.09.2019 11:46:35		Asset Transfer	2934887	1.440+
27.09.2019 11:11:58		Asset Transfer	2934715	1.440+
		Asset Transfer	2934598	1.440+

Transaction Info
✕

Info
Actions
Transaction Details
Phasing Details
Raw Data

Asset: [13489968754320443895](#)

Asset Name: veduut

Quantity: 1

Recipient: You

Sender: [ARDOR-365M-XM4Z-RZ48-23XNQ](#)

Type: Asset Transfer

Encrypted Message

Time: 330.6372
 Correct: 10
 Wrong: 0
 Grade: 100.00
 Grade: A

Shared Key

c81012187a8cc50614f7f3d03532e420b0381eaeee77b1fe290456f54b458bf9

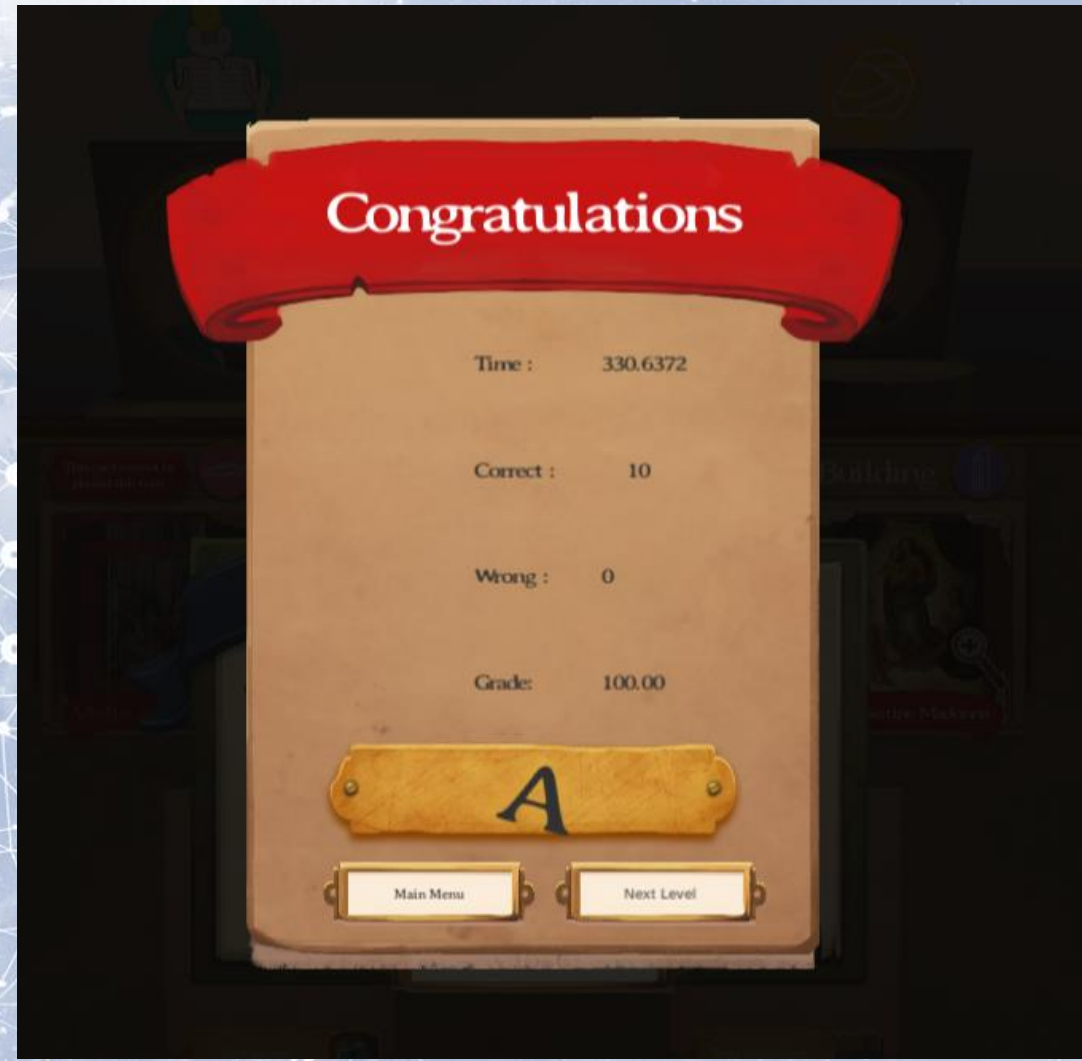
Close

Send IGNIS

Transaction Info

Info	Actions	Transaction Details	Phasing Details	Raw Data
Asset:	13489968754320443895			
Asset Name:	veduut			
Quantity:	1			
Recipient:	You			
Sender:	ARDOR-365M-XM4Z-RZ48-23XNQ			
Type:	Asset Transfer			
Encrypted Message				
Time: 330.6372				
Correct: 10				
Wrong: 0				
Grade: 100.00				
Grade: A				
Shared Key				
c81012187a8cc50614f7f3d03532e420b0381eaaee77b1fe290456f54b458bf9				

Asset Transfer 1 ARDOR-365M-XM4Z-RZ48-23X



Your Account

ARDOR-X49X-72W4-A3P7-4P9S7

Set Account Info Details

Switch Account

1.359,9899 IGNIS

● Connected ● Unknown

IGNIS

Height 2942920

Search By ID...

Dashboard

Dashboard

Account Ledger

Account Properties

My Transactions

Approval Requests

Approval Models

Coin Exchange

Assets

Monetary System

Voting System

Data Cloud

Marketplace

Dashboard

1.359,9899

Account Balance

More Info

0 / 0

Pending / Completed Sales

More Info

Recent Transactions

Date

28.09.2019 12:49:11

27.09.2019 23:33:39

27.09.2019 14:16:36

27.09.2019 14:02:13

27.09.2019 14:01:45

27.09.2019 14:01:35

27.09.2019 11:46:35

27.09.2019 11:11:58

Transaction Info



Info

Actions

Transaction
DetailsPhasing
Details

Raw Data

Asset: 13489968754320443895**Asset Name:** veduut**Quantity:** 1**Recipient:** You**Sender:** ARDOR-365M-XM4Z-RZ48-23XNQ**Type:** Asset Transfer

Encrypted Message

Time: 330.6372

Correct: 10

Wrong: 0

Grade: 100.00

Shared Key

c81012187a8cc50614f7f3d03532e420b0381eaeee77b1fe290456f54b458bf9

Close



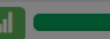
Height

Confirmations



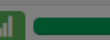
2942894

27



2938652

1.440+



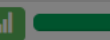
2935680

1.440+



2935604

1.440+



2935600

1.440+



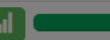
2935598

1.440+



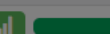
2934887

1.440+



2934715

1.440+



2934598

1.440+

Your Account

ARDOR-LFRL-9R5F-JUYA-G2PJD

[Set Account Info](#) [Details](#)
[Switch Account](#)

1.509,9999 IGNIS

● Connected ● Unknown

[IGNIS](#)

Height 2943044

[Dashboard](#)
[Dashboard](#)
[Account Ledger](#)
[Account Properties](#)
[My Transactions](#)
[Approval Requests](#)
[Approval Models](#)
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[Data Cloud](#)
[Marketplace](#)

Dashboard

1.509,9999

Account Balance

[More Info](#)

0 / 0

Pending / Completed Sales

[More Info](#)

Recent Transactions

Date						Height	Confirmations
28.09.2019 13:13:30			Arbitrary Message	0,0000	ARDOR-X49X-72W4-A3P7-4P9S7 You	2943030	14
21.08.2019 19:10:51			Ordinary Payment	10	0,0000 ARDOR-X49X-72W4-A3P7-4P9S7 You	2657092	1.440+
21.08.2019 15:42:57			Ordinary Payment	-10	0,0000 You ARDOR-W5Y8-TRR7-9YHX-7QYPV	2656001	1.440+
21.08.2019 15:41:43			Ordinary Payment	10	0,0000 ARDOR-W5Y8-TRR7-9YHX-7QYPV You	2655996	1.440+
21.08.2019 15:40:59			Ordinary Payment	1.500	0,1 ARDOR-VS8T-QYQS-SK9H-5BYBB You	2655990	1.440+

[View More](#)
[Account Ledger](#)

Transaction Info


[Info](#)
[Actions](#)
[Transaction Details](#)
[Raw Data](#)

Encrypted Message

Dear future Boss, attached you find the shared key to my grading certificate of gallery defender, I hope I can work for you in the future:

```
c81012187a8cc50614f7f3d03532e420b0381eaaee77b1fe290456f54b458bf9
```

Shared Key

```
e15b099ff99a81e898604b49c324a9f0fa625cda97e8c02d7ba53c8193cc25f3
```

From: ARDOR-X49X-72W4-A3P7-4P9S7

To: You

Compressed: true

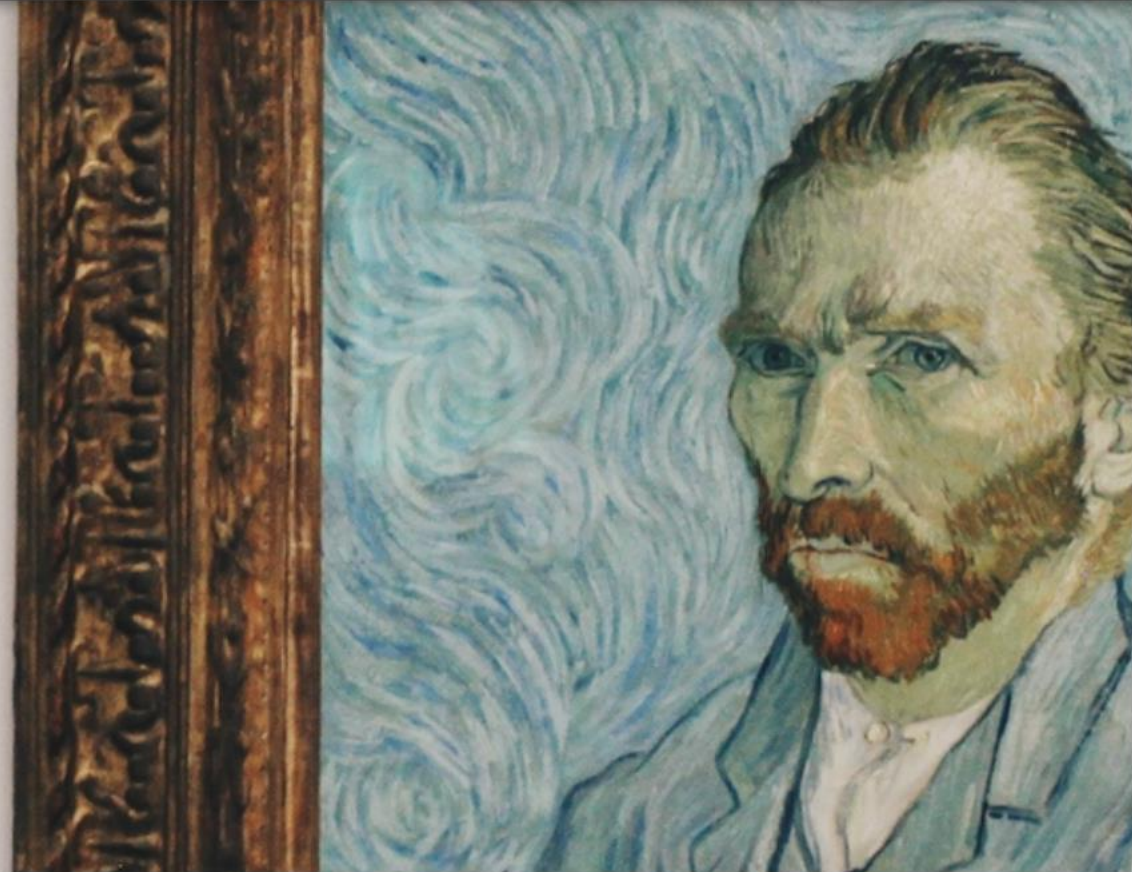
Hash: 7ce3a1653c0eeaa8a6980aada079f16f6c1815a4fe0768a4b4efe06c4f18b164

[Close](#)

Gallery Defender - the quiz

It is a co-production of Picapipe GmbH, Vienna, Austria and the Department for comparative media studies / writing of the Massachusetts Institute of technology (MIT) as part of the Max Kade NY / Austrian Academy of Sciences funded project "Blockchain Technologies and their impact on game-based Education and Learning Assessment" by Dr. Alexander Pfeiffer.

[START NOW!](#)



The aim of the project is to provide an additional learning and assessment tool to accompany the serious game "[Gallery Defender](#)". This quiz-like tool allows to choose between the levels "free learning", "simulating an exam" and "taking an exam". The exam performances are recorded on blockchain based tokens in the Ardor/Ignis network.

the project at any time.

Learn & practice

Learn and practice your knowledge about famous paintings, brilliant artists, and what you should know about different art styles. Read the introductory texts carefully and try to answer the questions best as you can. You can repeat this stage as often as you like. The time you feel fit try the next stage called "test yourself!"

LEARN NOW!

Test yourself!

Test yourself! Show your knowledge about famous paintings, brilliant artists, and what you should know about different art styles. You have no introductory texts this time, but you learn what would have been right after each question. You can repeat this stage as often as you like. The time you feel fit go to the last stage "take the exam".

TEST YOURSELF!

Take the exam

Take the exam! Show your knowledge about famous paintings, brilliant artists, and what you should know about different art styles finally to the world. The result of this exam will be stored on Blockchain. This could proof the teacher, that you took the exam and create a learning record no one can manipulate. Not you. Not your teacher. Not your parents.

START THE EXAM

A project by



MIT



PICAPIPE
GMBH

Gallery Defender - the Quiz - take the exam

Take the exam! Show your knowledge about famous paintings, brilliant artists, and what you should know about different art styles finally to the world. The result of this exam will be stored on Blockchain. This could proof the teacher, that you took the exam and create a learning record no one can manipulate. Not you. Not your teacher. Not your parents.

You can create an Ardor Wallet on Testnet here: <https://testardor.jelurida.com/index.html> . After you created your wallet-address (and your privatekey which you should keep on a safe place)* you have to verify your address by entering your privatekey after you are logged in the first time. And you need to run one test transaction. You can get Ignis for the Testnet (they have no value - as it is testnet) on https://www.ardor.world/en/faucet_ignis/ . After you received them, send one Ignis to any other address, e.g.: ARDOR-W5Y8-TRR7-9YHX-7QYPV If you do not want to create your own Ardor Address, enter ARDOR-X49X-72W4-A3P7-4P9S7 in the address field and log in with this. (<https://testardor.jelurida.com/index.html>) *It is only testnet, so no token has any value. However do as you would do it on mainnet, where the privatekey is key ;). Learn more about Ardor (the public blockchain we used for this project) here: <https://ardorplatform.org/> The Ardor wallet of the Quiz/E-learning App itself is ARDOR-V3NE-6DX6-2NQ6-37XPV - access the testnet node with this address, to see the processes live on the node.



privatekey after you are logged in the first time. And you need to run one test transaction. You can get Ignis for the Testnet (they have no value - as it is testnet) on https://www.ardor.world/en/faucet_ignis/ . After you received them, send one Ignis to any other address, e.g.: ARDOR-W5Y8-TRR7-9YHX-7QYPV If you do not want to create your own Ardor Address, enter ARDOR-X49X-72W4-A3P7-4P9S7 in the address field and log in with this. (<https://testardor.jelurida.com/index.html>) *It is only testnet, so no token has any value. However do as you would do it on mainnet, where the privatekey is key ;). Learn more about Ardor (the public blockchain we used for this project) here: <https://ardorplatform.org/> The Ardor wallet of the Quiz/E-learning App itself is ARDOR-V2NE-6DY6-2N06-27YDV. access the testnet node with this address, to see the processes live on the node

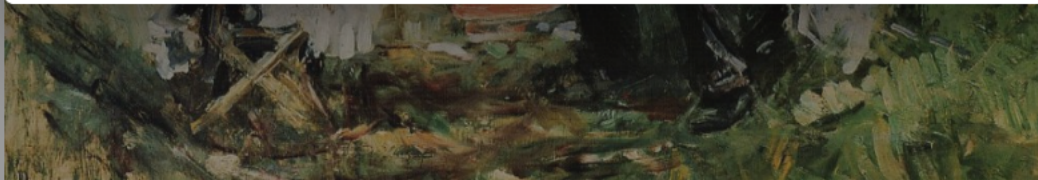
Insert your ardor wallet!

Please insert your ardor wallet address. Otherwise you will not get your asset

[Insert your ardor wallet.](#)


ARDOR-X49X-72W4-A3P7-4P9S7

START NOW!



START EXAM!

Quiz finished!



Points
98

Your Account

ARDOR-V3NE-6DX6-2NQ6-37XPV

[Set Account Info](#) [Details](#)

[Switch Account](#)

1,444,3049 IGNIS

● Connected ● Unknown

[IGNIS](#)

Height 2968490

Search By ID...

Dashboard

- » Dashboard
- » Account Ledger
- » Account Properties
- » My Transactions
- » Approval Requests
- » Approval Models

Coin Exchange

Assets

Monetary System

Voting System

Data Cloud

Marketplace

1,444,3049

Account Balance

[More Info](#)

Assets Value (0 Assets Owned)

[More Info](#)

Currencies Value (0 Currencies Owned)

[More Info](#)

Purchased Products

[More Info](#)

0 / 0

Pending / Completed Sales

[More Info](#)

99+

Messages

[More Info](#)

0

Aliases

[More Info](#)

01.10.2019 19:32

Last Updated (Block: 2968484)

[More Info](#)

Recent Transactions

Date		Type	Amount	Fee	Account		Height	Confirmations
01.10.2019 19:21:02		Asset Transfer		0,02	You ARDOR-X49X-72W4-A3P7-4P9S7		2968426	64
01.10.2019 19:21:00		Arbitrary Message		0,001	You You		2968424	66
01.10.2019 19:19:59		Asset Issuance		0,001	You Asset Exchange		2968417	73
01.10.2019 8:43:00		Asset Transfer		0,02	You ARDOR-LFRL-9R5F-JUYA-G2PJD		2965045	1.440+
01.10.2019 8:43:00		Arbitrary Message		0,001	You You		2965044	1.440+
01.10.2019 8:41:59		Asset Issuance		0,001	You Asset Exchange		2965037	1.440+
30.09.2019 16:36:54		Asset Transfer		0,02	You ARDOR-X49X-72W4-A3P7-4P9S7		2959959	1.440+
30.09.2019 16:36:59		Arbitrary Message		0,001	You You		2959954	1.440+
30.09.2019 16:35:59		Asset Issuance		0,001	You Asset Exchange		2959949	1.440+
30.09.2019 15:17:52		Asset Transfer		0,02	You ARDOR-Z4SZ-U9S6-KV27-BH8AH		2959556	1.440+

[View More](#)

[Account Ledger](#)

Your Account

ARDOR-X49X-72W4-A3P7-4P9S7

Set Account Info | Details | [Copy]

Switch Account ▾

1.359,9799 IGNIS

● Connected ● Unknown

IGNIS ▾

Height 4511501

Search By ID... 🔍

- Dashboard ▾
 - Dashboard
 - Account Ledger
 - Account Properties
 - My Transactions
 - Approval Requests
 - Approval Models
- Coin Exchange >
- Assets >
- Monetary System >

Date	Asset	Quantity	Recipient	Sender	Type	Height	Confirmations
07.10.2019 4:06:06						3006490	1.440+
06.10.2019 10:31:56						3000895	1.440+
04.10.2019 19:30:18						2988496	1.440+
04.10.2019 17:30:28						2987837	1.440+
04.10.2019 17:20:48						2987786	1.440+
03.10.2019 18:23:27						2980544	1.440+
03.10.2019 9:03:02						2977574	1.440+
03.10.2019 8:06:01						2977285	1.440+
03.10.2019 0:55:15						2975019	1.440+
03.10.2019 0:54:02	Asset Transfer	1,00	You	ARDOR-365M-XM4Z-RZ48-23XNQ	Asset Transfer	2975017	1.440+
03.10.2019 0:50:44	Asset Transfer	1,00	You	ARDOR-365M-XM4Z-RZ48-23XNQ	Asset Transfer	2974999	1.440+
03.10.2019 0:42:36	Asset Transfer	1,00	You	ARDOR-365M-XM4Z-RZ48-23XNQ	Asset Transfer	2974949	1.440+
03.10.2019 0:31:56	Asset Transfer	0,02	You	ARDOR-V3NE-6DX6-2NQ6-37XPV	Asset Transfer	2974889	1.440+
	Asset Transfer	0,02	You	ARDOR-V3NE-6DX6-2NQ6-37XPV	Asset Transfer	2974870	1.440+

Transaction Info

Info | Actions | Transaction Details | Raw Data

Asset: 12898940555816247094

Asset Name: ELCert

Quantity: 1

Recipient: You

Sender: ARDOR-V3NE-6DX6-2NQ6-37XPV

Type: Asset Transfer

Public Message
{"submittedBy":"ElearningGradeCertificate","source":"TRANSACTION"}

Close

Warning: You are connected to the TestNet! The testnet peer port is 26874.



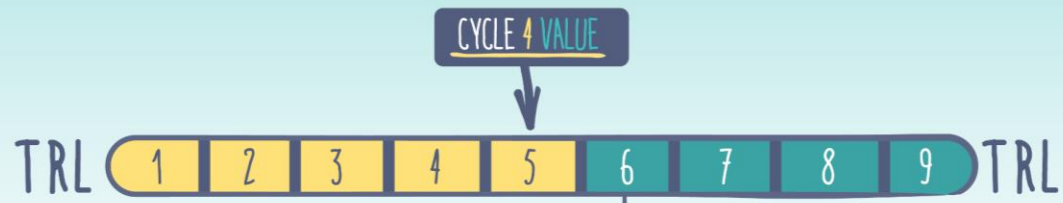
Das Projekt wird im Rahmen des FTI-Programms Mobilität der Zukunft durch das Bundesministerium für Klimaschutz gefördert und von der Österreichischen Forschungsförderungsgesellschaft abgewickelt.



 **Bundesministerium**
Klimaschutz, Umwelt,
Energie, Mobilität,
Innovation und Technologie

CYCLE 4 VALUE

A BLOCKCHAIN-BASED REWARD SYSTEM TO PROMOTE CYCLING



Plausibility Check:
Machine Learning



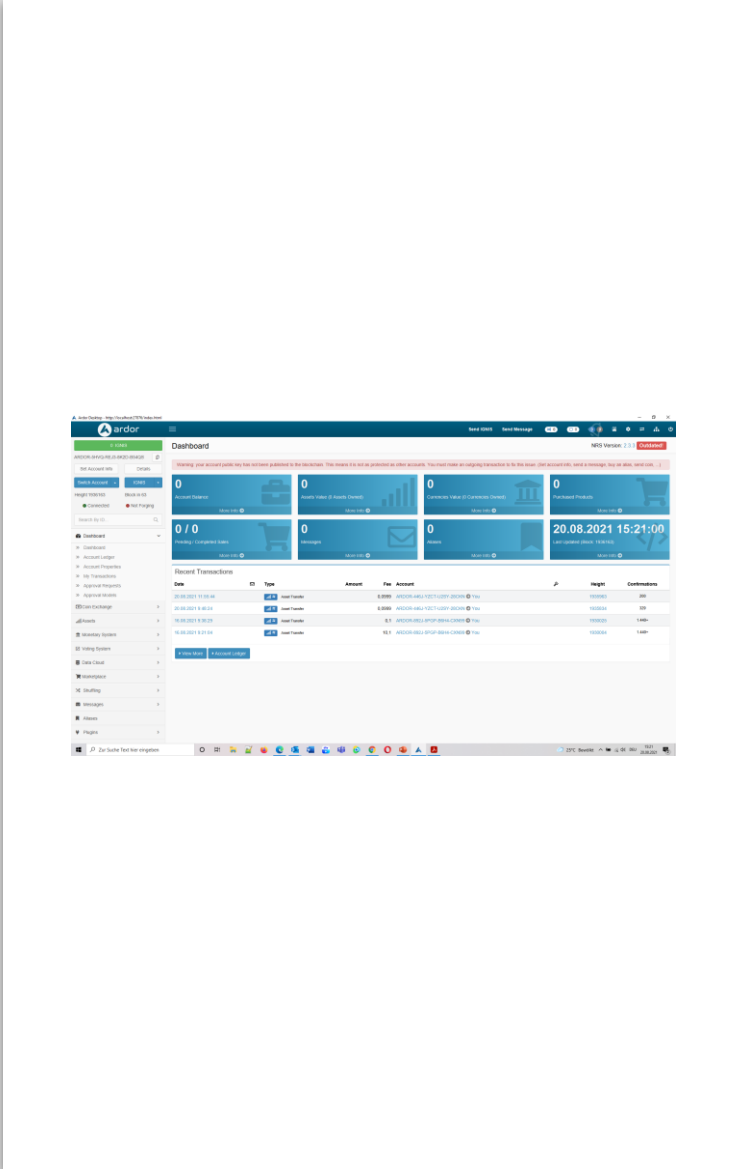
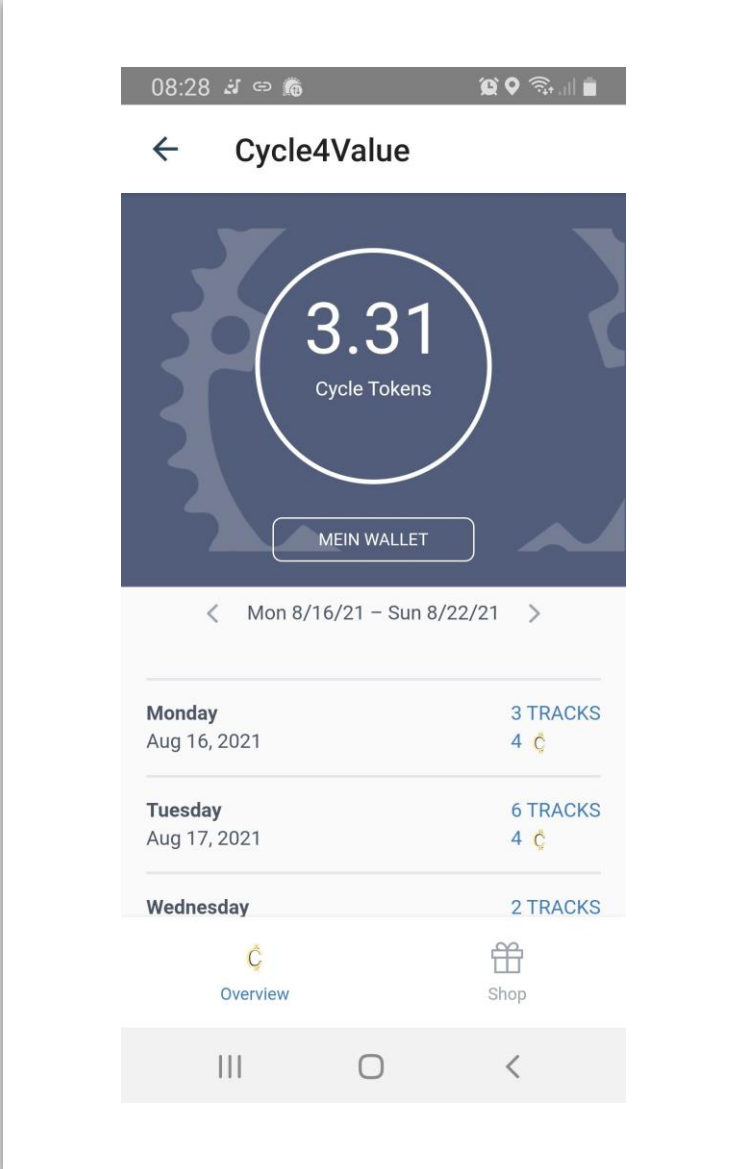
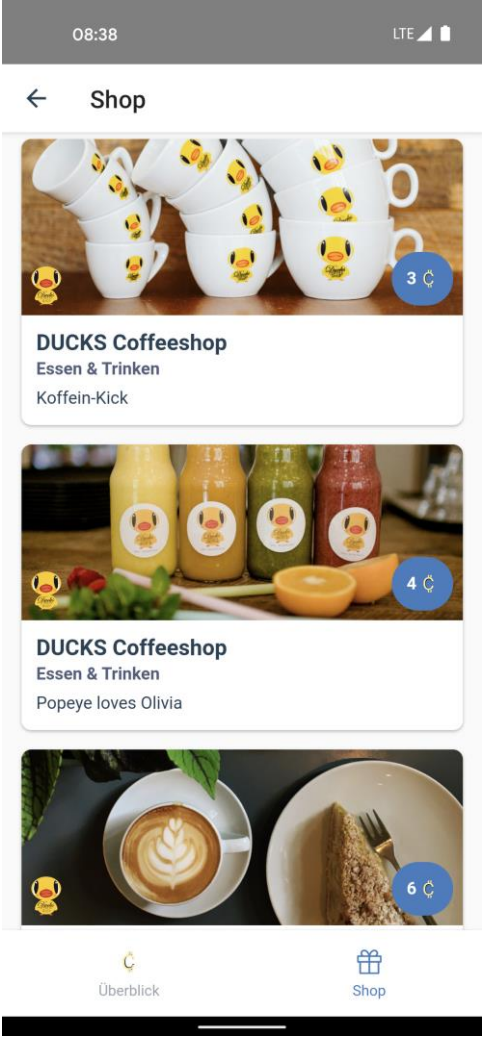
1€
per
Kilometre

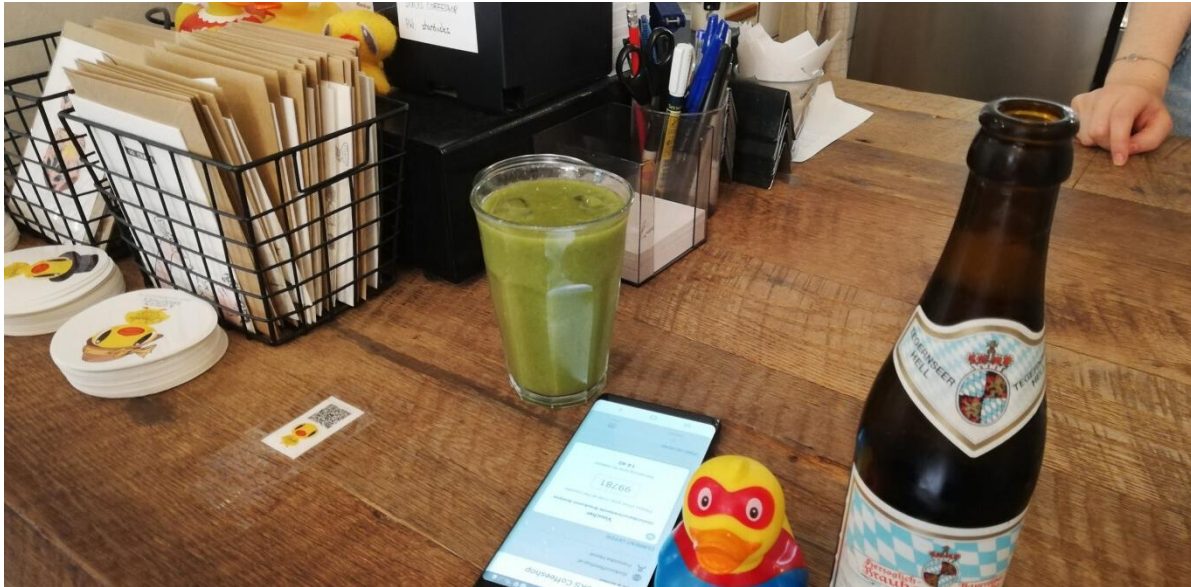
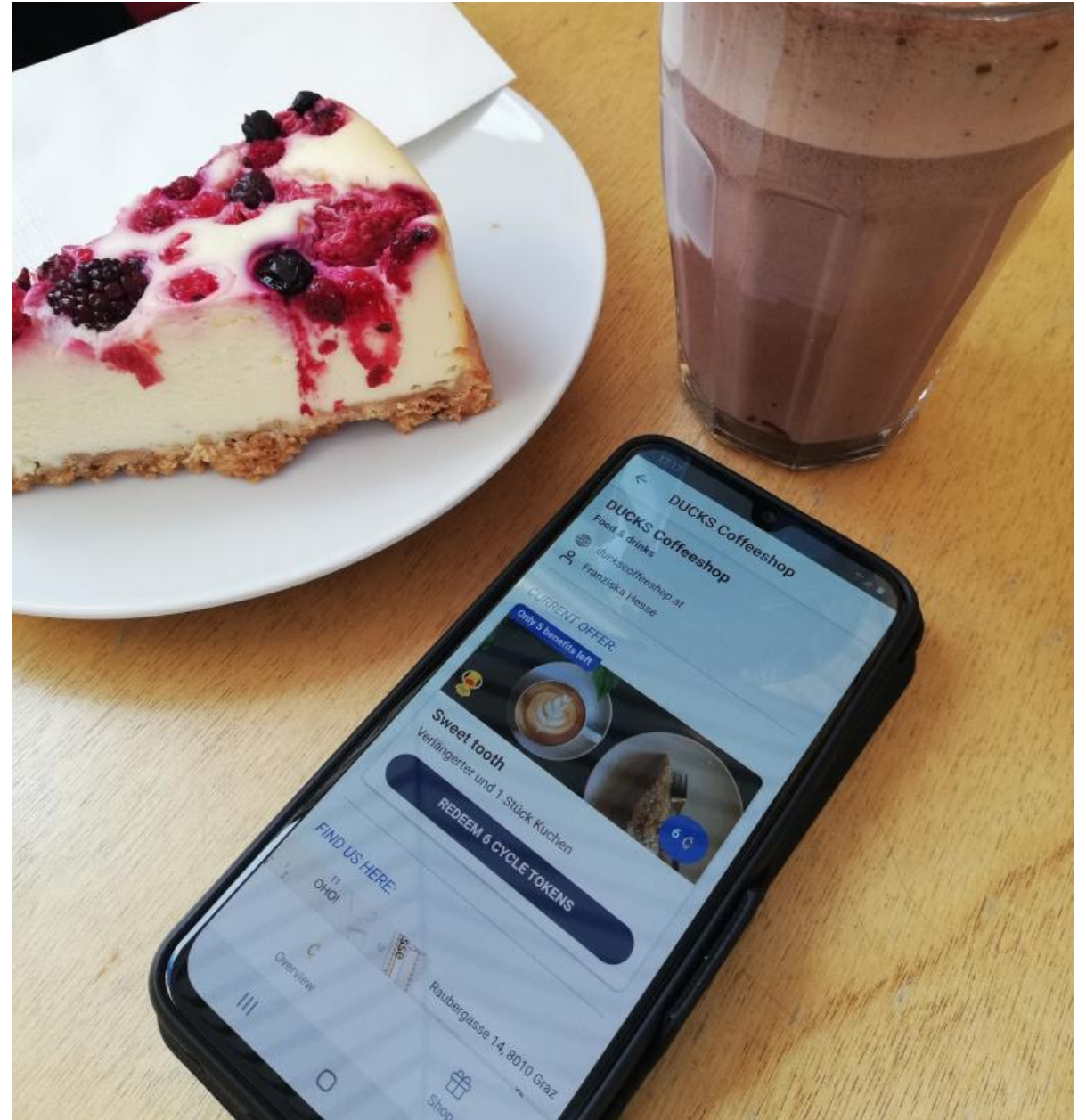


Trade Cycle Tokens
-Vouchers and
redeem Perks



Impact Areas	Indicators	per Indicator	per Impact Area
SDG13 Climate Action	○ Savings in greenhouse gas emissions CO ₂	0,0257 €	0,0377 €
	○ Savings in air pollutant emissions NO _x	0,0105 €	
	○ Savings in air pollutant emissions NH ₃	0,0003 €	
	○ Savings in air pollutant emissions NMVOC	0,00022 €	
	○ Savings in air pollutant emission SO ₂	0,00002 €	
	○ Savings in air pollutant emission PM _{2.5}	0,00006 €	
○ Savings in air pollutant emission PM ₁₀	0,0009 €		
SDG9 Industry, Innovation and Infrastructure	○ Reduction of individual mobility costs	0,26 €	0,26 €
SDG3 Good Health And Well-Being	○ Promotion of individual health	0,94 €	1,07 €
	○ Improvement of road safety	0,13 €	
TOTAL BENEFIT		1,37 € per Kilometre	





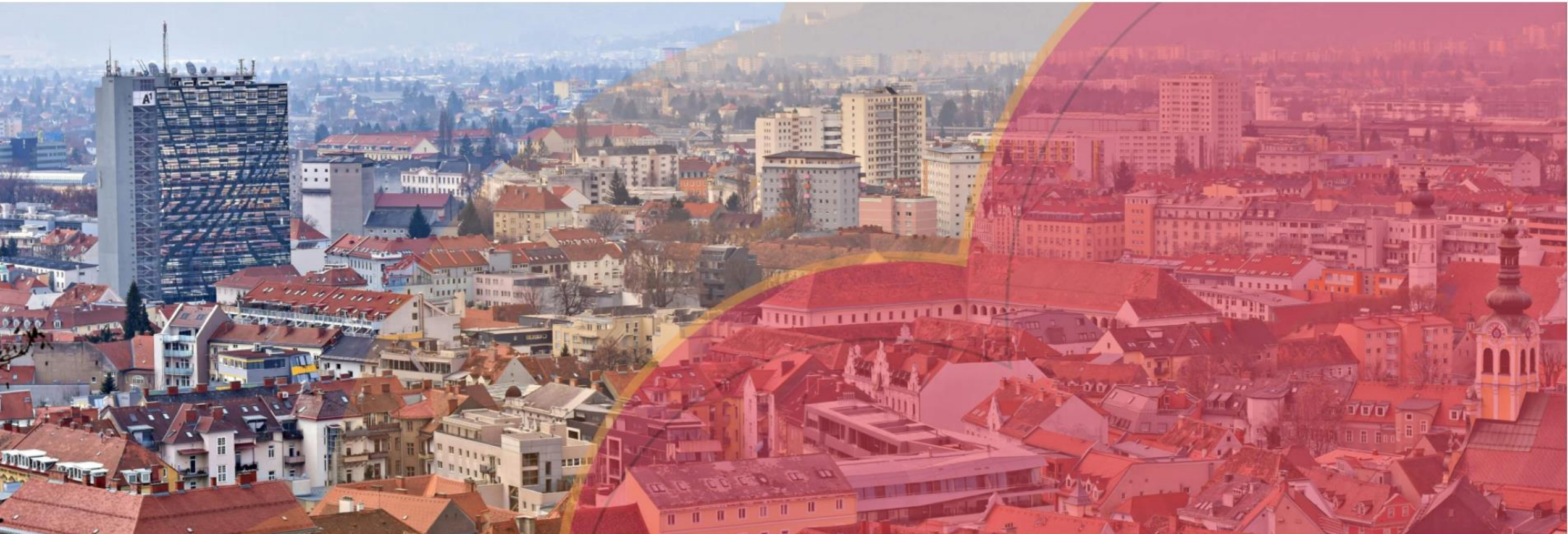
Das Spiel rund um Abwärmequellen in Städten

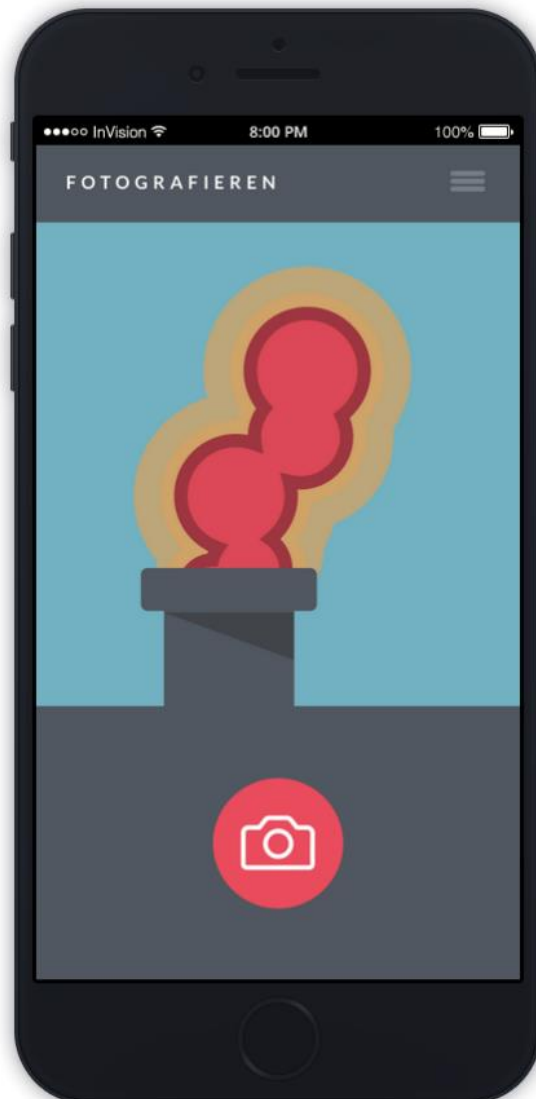
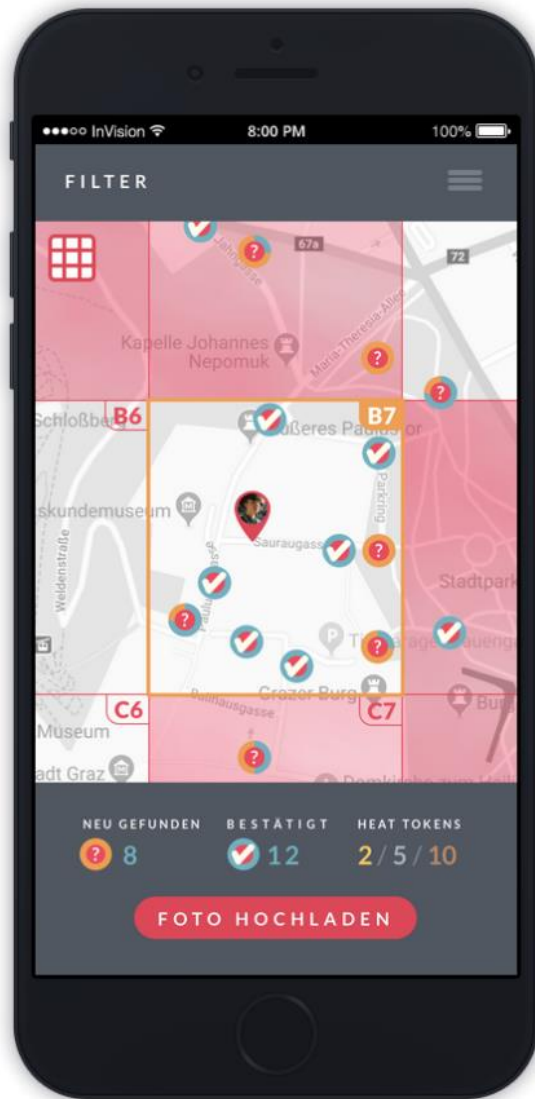
Im Rahmen des Förderprogramms Stadt der Zukunft (5.Ausschreibung)
<https://www.ffg.at/stadt-der-zukunft-programmlinie>

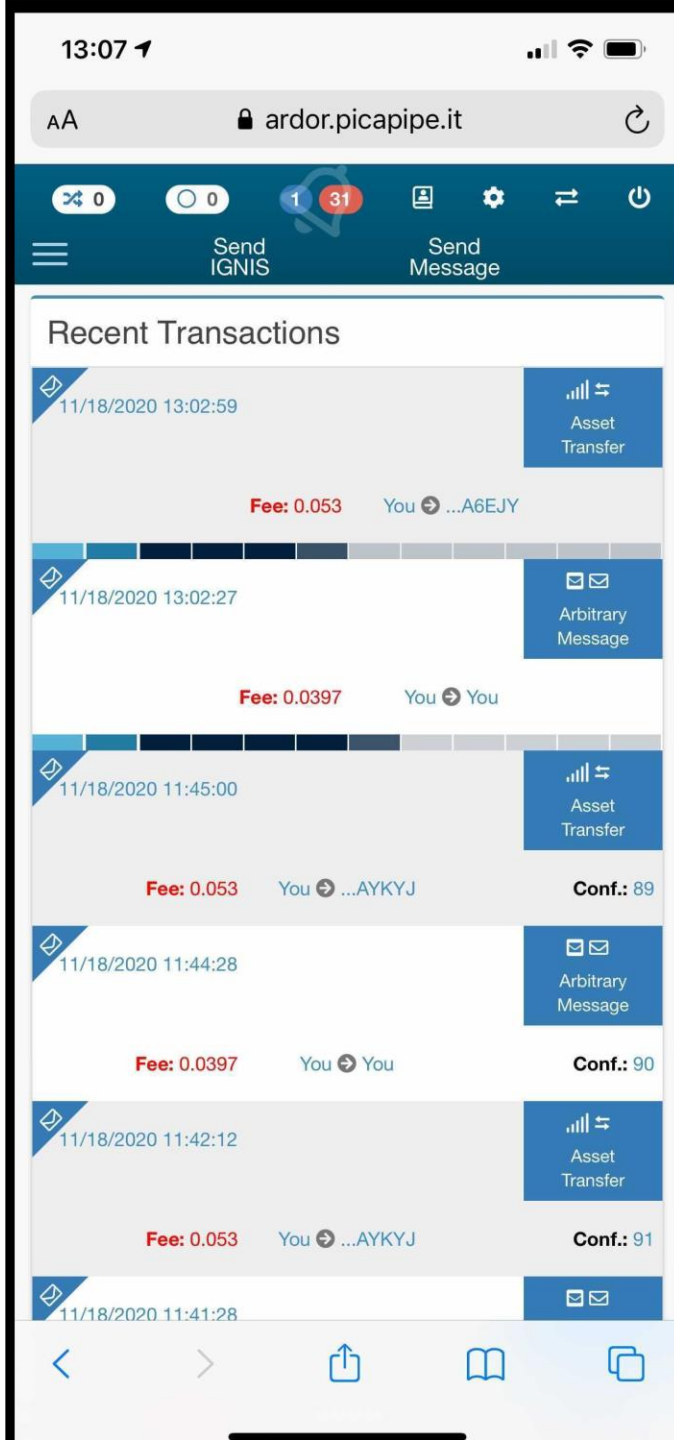
 **Bundesministerium**
Klimaschutz, Umwelt,
Energie, Mobilität,
Innovation und Technologie

 **FFG**
Forschung vorantreiben

 **STADT**
der Zukunft









Das Projekt

Hauptziel von CARBON DIET ist die Umsetzung und Testung des Konzepts suffizienter individueller Mobilitätskonten in einem konkreten Anwendungsfall mit hohem Wirkungspotenzial. Der konkrete Anwendungsfall betrifft das hohe Potenzial der CO₂-Reduktion bei Dienstreisen und Dienstwegen, da in Österreich (laut „Österreich Unterwegs“) täglich gut 1,5 Mio. Dienstwege mit dem PKW zurückgelegt werden. Gleichzeitig bekennen sich immer mehr Unternehmen zur Umsetzung von Klimaschutzmaßnahmen. Mit einem Mobilitätskonto-Tool können Unternehmen CO₂-Einsparungserfolge nicht nur quantifizieren, sondern konkrete Einsparungsziele festlegen.

979 IGNIS

ARDOR-BRFC-JFGH-2LK6-CTNNQ 📄

CDMaster

Details

Switch Account ▾

IGNIS ▾

Height 8765290

Block soon

● Connected

● Not Forging

Search By ID... 🔍

🏠 Dashboard >

🔄 Coin Exchange >

📊 Assets ▾

» Asset Exchange

» Trade History

» Transfer History

» Quantity Change History

» My Assets

» Open Orders

» Approval Requests

» Issue Asset

🏛️ Monetary System >

☑️ Voting System >

☁️ Data Cloud >

🛒 Marketplace >

🔄 Shuffling >

✉️ Messages >

🔖 Aliases >

🔌 Plugins >

My Assets

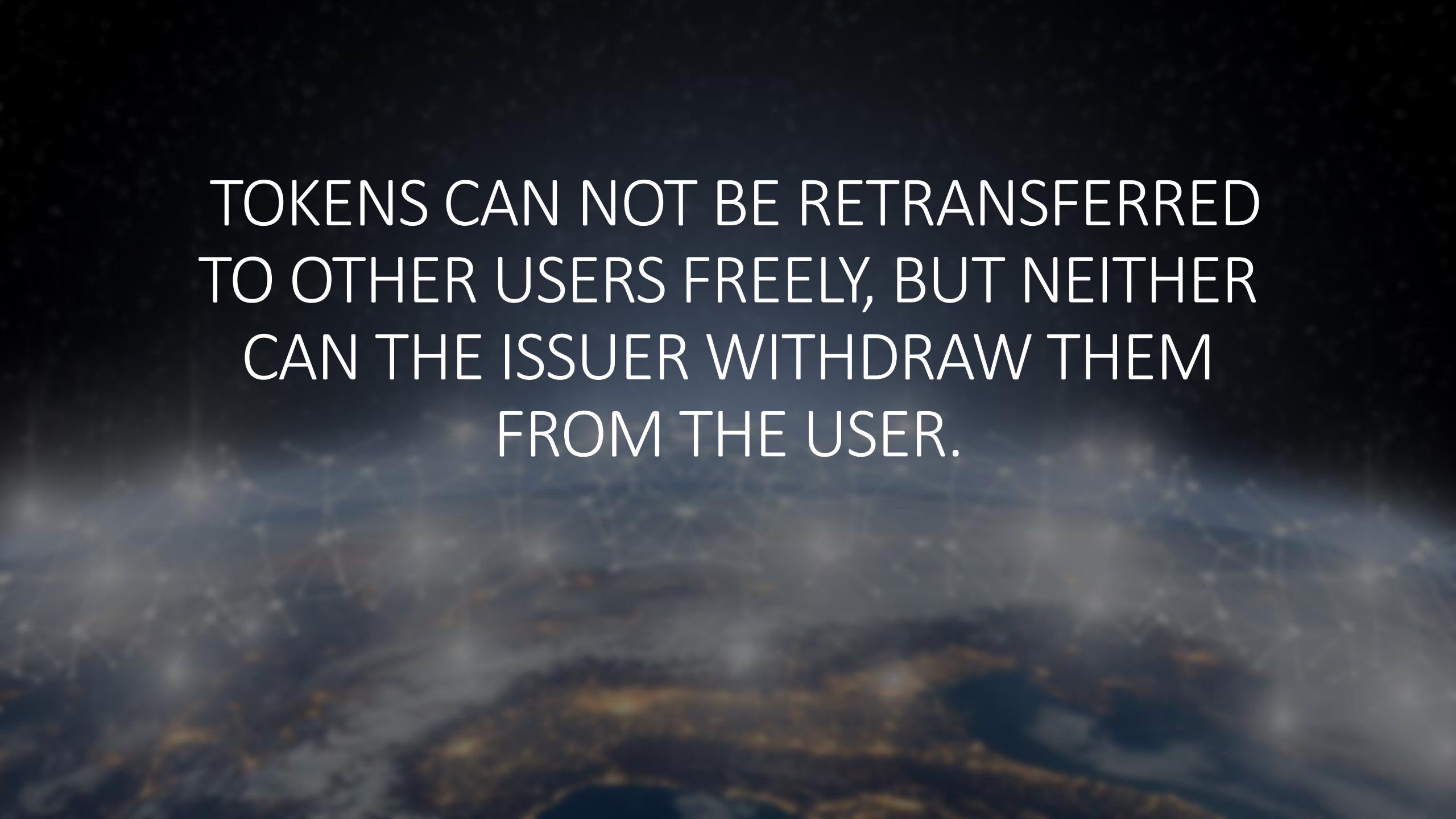
Asset	Quantity	Total Available	Percentage	Lowest Ask	Highest Bid	Value in Coin	Action
CDCER	100.000.000	100.000.000	100,00%				Transfer Increase Shares Delete Shares
CDCOU	100.000.000	100.000.000	100,00%				Transfer Increase Shares Delete Shares
CDGT	100.000.000	100.000.000	100,00%				Transfer Increase Shares Delete Shares
CDVER	10.000.000	10.000.000	100,00%				Transfer Increase Shares Delete Shares



Main findings:



A PUBLIC BLOCKCHAIN IS BEING USED.
OR A COMBINATION OF
PRIVATE/CONSORTIUM BLOCKCHAIN
IN A SETTING THAT MAKES SENSE.



TOKENS CAN NOT BE RETRANSFERRED
TO OTHER USERS FREELY, BUT NEITHER
CAN THE ISSUER WITHDRAW THEM
FROM THE USER.

TRANSACTION FEES TO THE NETWORK
ARE PAID BY THE RESPECTIVE ISSUER(S)
OR OPERATOR(S) OF THE TOKEN(S).

IT IS POSSIBLE TO ENCRYPT THE MESSAGE ASSOCIATED WITH THE TOKEN, SO ONLY THE TRANSACTION ITSELF IS PUBLICLY VISIBLE, WHILE THE PRIVATE INFORMATION REMAINS PRIVATE AND ONLY ACCESSIBLE TO THOSE PARTIES WHO SHOULD HAVE ACCESS TO IT (FOR THE RELEVANT PERIOD).

TO ACHIEVE THIS SHARED-KEYS CAN BE GENERATED, AND THUS A SHARING SYSTEM FOR THIRD PARTIES WHO GET ACCESS TO THE INFORMATION ATTACHED TO THE TOKEN CAN BE DEVELOPED (BUT NOT THE TOKEN ITSELF AS INFORMATION BEARER).

THIS MESSAGE (THE CORE CONTENT) CAN, IN CERTAIN CASES WHERE IT MAKES SENSE, BE DELETED FROM THE BLOCKCHAIN AFTER SOME TIME (WITH THE KNOWLEDGE OF THE PARTNERS INVOLVED). ONLY THE PROOF OF THE TRANSACTION ITSELF REMAINS.

USERS CAN, IF THEY WANT, ALWAYS OPERATE
A FULL NODE AND THIS WITH EXISTING
DEVICES SUCH AS THEIR OWN MODERN
SMARTPHONE, THEIR OWN PC OR WITH
INEXPENSIVE HARDWARE SUCH AS A
RASPBERRY PI.

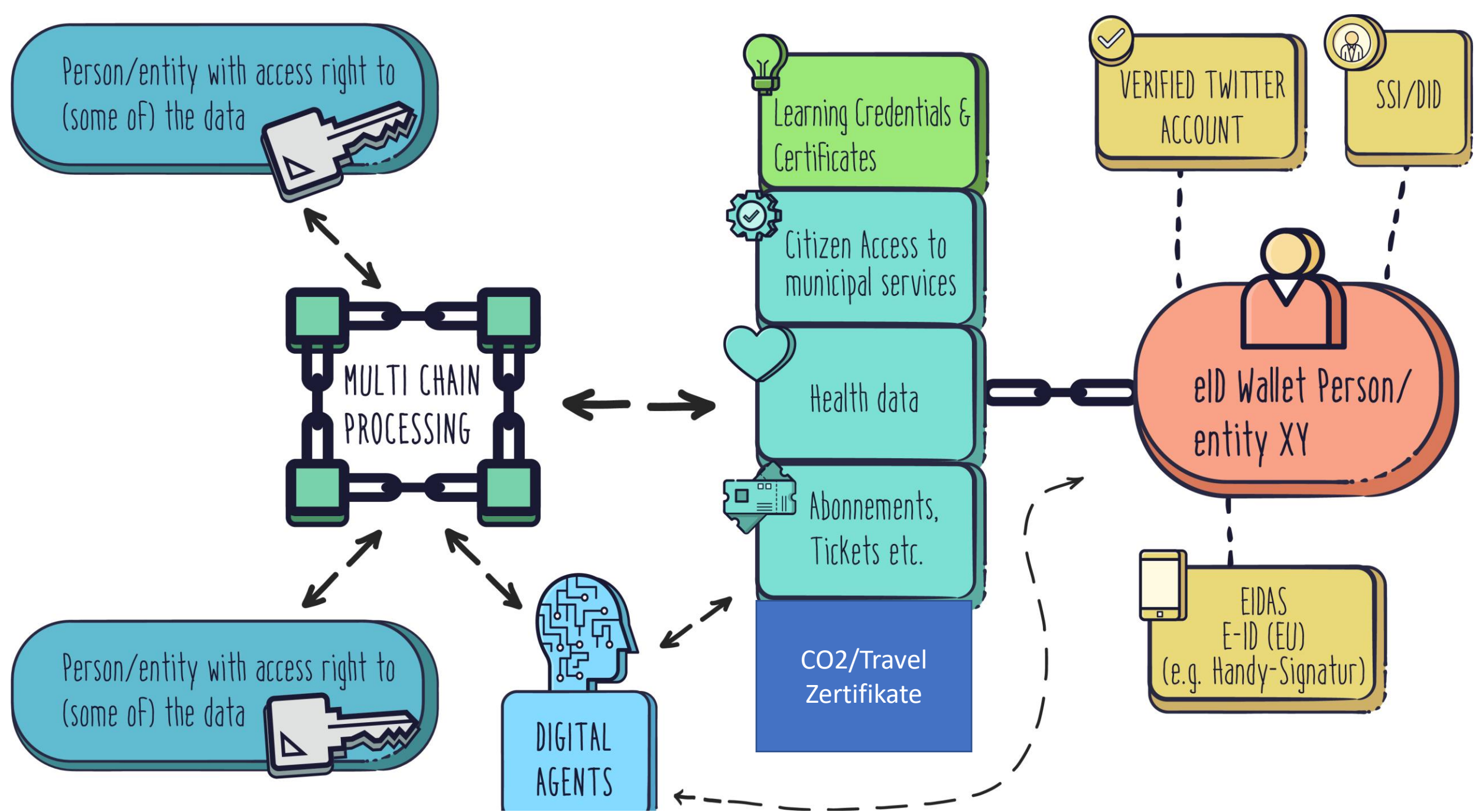


USERS CAN, IF THEY WANT, ALWAYS OPERATE A FULL NODE AND THIS WITH EXISTING DEVICES SUCH AS THEIR OWN MODERN SMARTPHONE, THEIR OWN PC OR WITH INEXPENSIVE HARDWARE SUCH AS A RASPBERRY PI. THE FULL NODE CAN BE OPERATED WITHOUT HOLDING NETWORK MAINTENANCE TOKENS OR CRYPTOCURRENCIES.



THE AVAILABILITY OF DIGITAL QUALIFIED
SIGNATURES, OR OTHER SECURE FORMS
OF DIGITAL AND FORGERY-PROOF
IDENTITY VERIFICATION.

USE OF AN EID WALLET. THIS IS A WALLET FOR
BLOCKCHAIN TOKENS THAT IS BOUND TO A
PERSON, IT CAN HOLD UTILITY TOKENS AND
MANAGE SMART CONTRACTS.





www.blockchain-in-gaming.com/gallerydefenderontestnet/



www.carbon-diet.at/

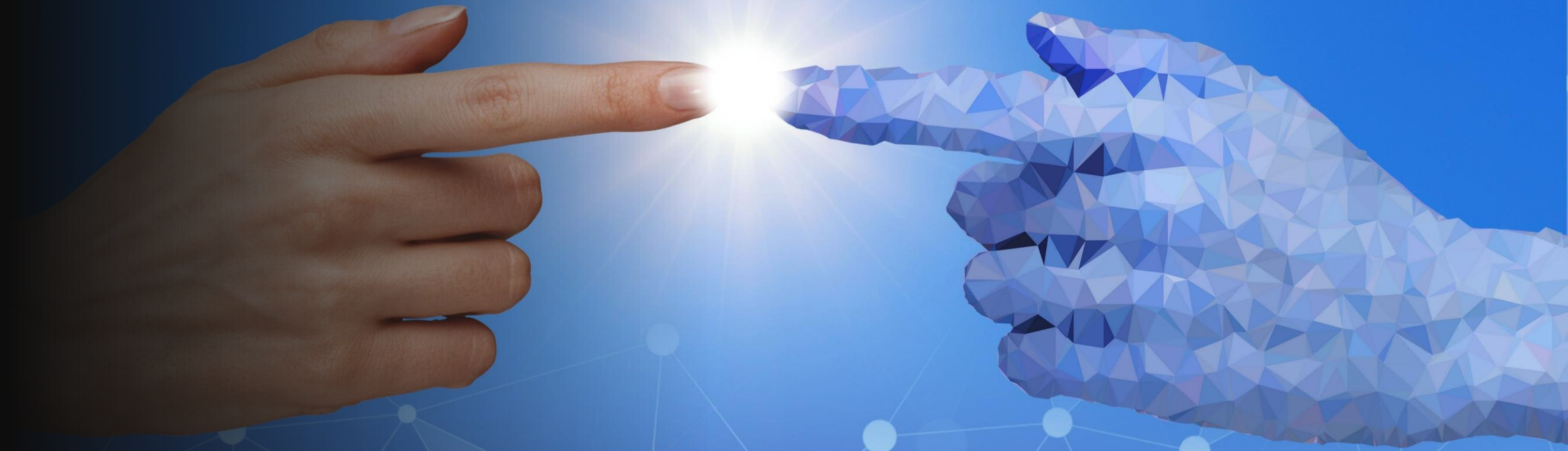


www.cycle4value.at/en/



cities.ait.ac.at/projects/hotcity/

Thank you.



www.alexpfeiffer.at | twitter.com/alexpfeiffer
www.researchgate.net/profile/Alexander-Pfeiffer-2