



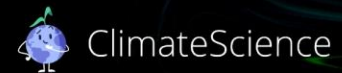
CLIMATE
CHAIN
COALITION

DIGITAL INNOVATION & DIGITALART4CLIMATE Pavilion

Co-Hosts

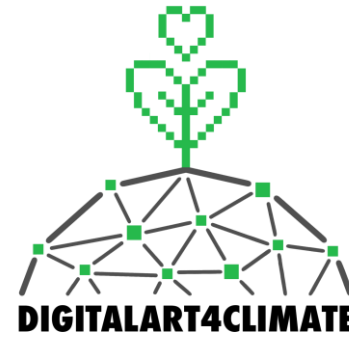


Partners



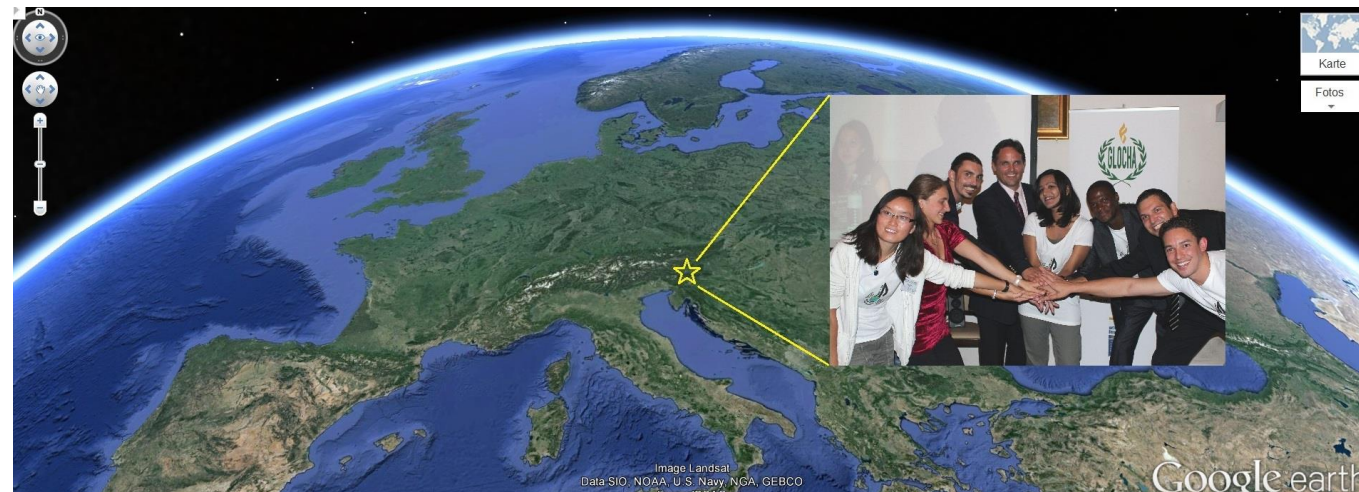


INTERNATIONAL ASSOCIATION
FOR THE ADVANCEMENT
OF INNOVATIVE APPROACHES
TO GLOBAL CHALLENGES

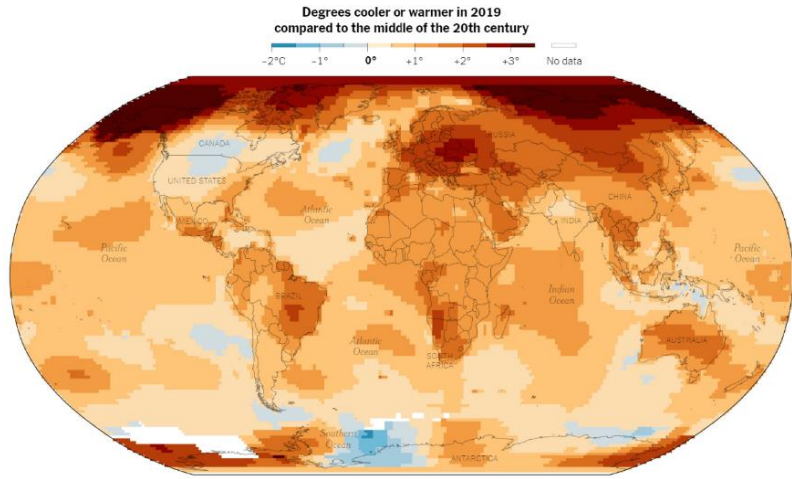


Miroslav Polzer

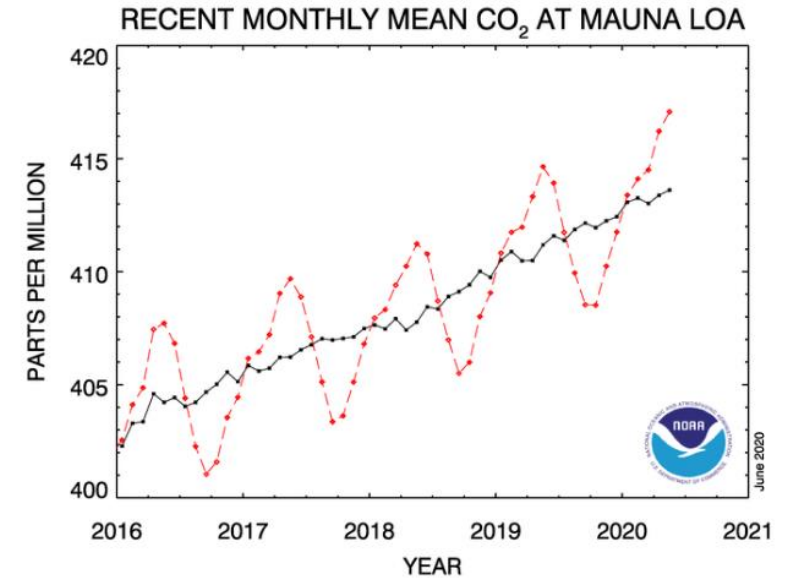
With Blockchain Technology towards Climate Neutral Cities and Citizens



Presentation at the COP27 Digital Innovation Pavilion, 08th



By The New York Times; Source: NASA Goddard Institute for Space Studies | Anomalies shown relative to the average temperature at each location between 1951 and 1980.



The Challenge:

Market failure & Governance failure & Failure of the Individual
Global Community is not responding effectively to the Climate crisis



Our Compass: The United Nations with the Sustainable Development Goals and the Paris Agreement on Global Climate Action



SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD





From global goals to local action and impact:

Innovation needs for transformative change

- **New Thinking / Cultural Innovation:** It starts with me and with my city, my local community and my region!
- **Social Innovation/Public Sector Innovation:** - We need to cooperate better on local and global level and set up new (decentral) coordination and incentive systems for the multi-stakeholder provision of global public goods
- **Digital Innovation** (blockchain/NFTs (in comb. with, AI, IoT et al.) is a game changer, enabling new forms of multi-stakeholder climate action empowerment and incentivization

Systemic Change powered by IAAI GloCha – Unlocking Potentials of Blockchain for Multistakeholder Climate Action Empowerment



INTERNATIONAL ASSOCIATION FOR THE ADVANCEMENT OF INNOVATIVE APPROACHES TO GLOBAL CHALLENGES



The Education, Communication & Outreach Stakeholders Community
Recognized by the UNFCCC in 2016

Co-founder

Co-founder

*UNFCCC accredited Civil Society Organization
Committed to systemic and cross-sectoral
solutions in support of the UN system
Co-founder of ECOS and CCC*



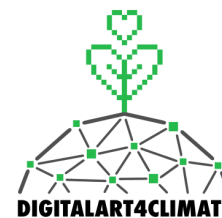
**CLIMATE
CHAIN
COALITION**

Co-founded by the UN CC secretariat in December 2017

Associated partner



ACE AT



Aim:

Multistakeholder collaboration of policy makers, digital innovation community and resource holders towards the development of a comprehensive global Data and Digital Innovation Infrastructure (D2I2) – a digital climate action business and public service ecosystem – in support of multistakeholder engagement in the implementation of the European Green Deal and the Paris Agreement.

Activities and Leading Partners:

- **Unique Object Identification** use case proposal to EBSI- European Blockchain Services Infrastructure, (lead by Jo Bronckers)
- **Digital MRV and Smart Standards**, (lead by Tom Baumann)
- **Climate Finance Innovation**, (lead by Alexey Shadrin)
- **Registration, Certification and Incentivization** of citizens/youth climate action outcomes/impact & Voluntary Markets (Fran Benedito)
- Climate Action **Data Markets & IoT**, (lead by Tom de Block)
- **Climate Action Tracking and Accounting**, (ADEME & Yale Open Lab)
- **Climate Philanthropy Innovation** (Miroslav Polzer)
- Youth led design of a **Digital Climate Pact Platform** (European Climate Pact, Climate Neutral Now, City Climate Pacts) (Miroslav Polzer)
- **COP26 Digital Innovation pavilion**



<https://unfccc-cop25.streamworld.de/webcast/iaai-briefing-digital-innovation-community>



et al.

#GoodLife with Individual Climate Action Dashboard App / Ecosystem

A global ecosystem of tech and non-tech infrastructure, interoperability standards, digital identity management, digital finance, smart contracts and collective decision making for trusted and accountable multistakeholder climate action



powered by



Individual Climate Action Dashboard App

Web 3.0 version with Blockchain

	Unique digital badges / crypto stamps / collectibles / tokens
Pledge/Pact	Individual SMART goals linked with self-sovereign digital ID, which functions also in the context of digital public services (e.g. tax incentives)
Thematic/ Geographic Communities	Digital collectibles / crypto stamps issued by climate action communities and global coordination mechanism (GloCha), empowering participation in resource use decisions, evaluation, verification, etc.)
Climate Action and Climate Finance log (connected with Global Registry)	Digital measurement, reporting and verification, smart standards, certification and global registration of climate action activities as digital assets, attribution of outcomes with global challenges action registries, digital climate action reporting/storytelling, trading or digital collection of outcome certificates, games, connected with UN's global climate action accounting system (NAZCA), digital finance innovation

Global Public Sector Innovation – The UNFCCC Action for Climate Empowerment Program



ACE AT

The Project ACE^{AT} is a collaborative global effort towards **strengthening Action for Climate Empowerment (ACE)** within and beyond the UNFCCC process. The goal is to **empower all members of society** to engage in **Climate Action** and to change the perception on ACE.

Initiated, Funded
and Coordinated by

-  Federal Ministry
Republic of Austria
Climate Action, Environment,
Energy, Mobility,
Innovation and Technology

Lead Partner:



United Nations
Climate Change Secretariat

Associated Partners:

ecos



INTERNATIONAL ASSOCIATION
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I.C.L.E.I
Local
Governments
for Sustainability

ACE^{AT} – Activity Areas and Roles of Partners

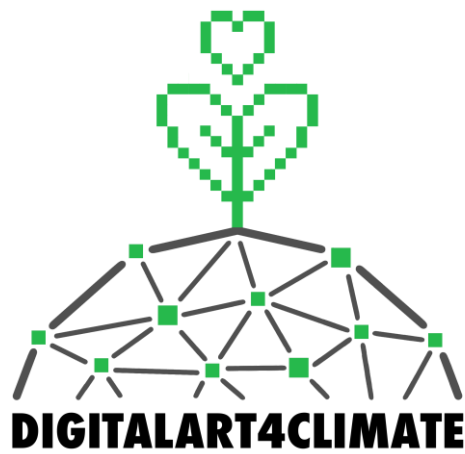
Activity Area	Activity Leader (bold) and Contributors	Key Issues
1. Rethinking and Reorganizing ACE for All of Society Climate Action Empowerment (Consultation and virtual conference)	UN CC (organizational and technical support) BMK ECOS/IAAI ICLEI	<ul style="list-style-type: none"> • public and private funding for ACE • Engagement of private/business sector in ACE • global ACE platform • regional ACE dialogues • feasibility of an ACE non-Party stakeholders network support structure/secretariat (in Austria)
2. ACE^{AT}core Activities (with a particular focus on Youth and gender)	UN CC ECOS et al.	<ul style="list-style-type: none"> • Mapping (in collab. with ECOS and other partners) • Coherence / interlinkages (UNFCCC process & UN); Thematic focus: Gender and Youth • connections with Non-party stakeholders, ACE National Focal Points & National Gender and Climate Change Focal Points
3. ACE^{AT+} Activity areas – ECOS/IAAI	ECOS/IAAI UN CC (contributing as appropriate) BMK, ICLEI	<ul style="list-style-type: none"> • Feasibility study and business plan for a global ACE non-Party stakeholders support structure/office • Resource Mobilization Innovation for ACE (2 events) • Digital Global ACE Platform Concept development
4. ACE^{AT+} Activity areas – ICLEI	ICLEI IAAI	<ul style="list-style-type: none"> • enhancing engagement of local and regional governments in the ACE framework (Strategic framework, Daring Cities Forums in 2021 and 2022, good practice cases)

GloCha DigitalArt4Climate Transformative Solutions

digitalart4climate.space



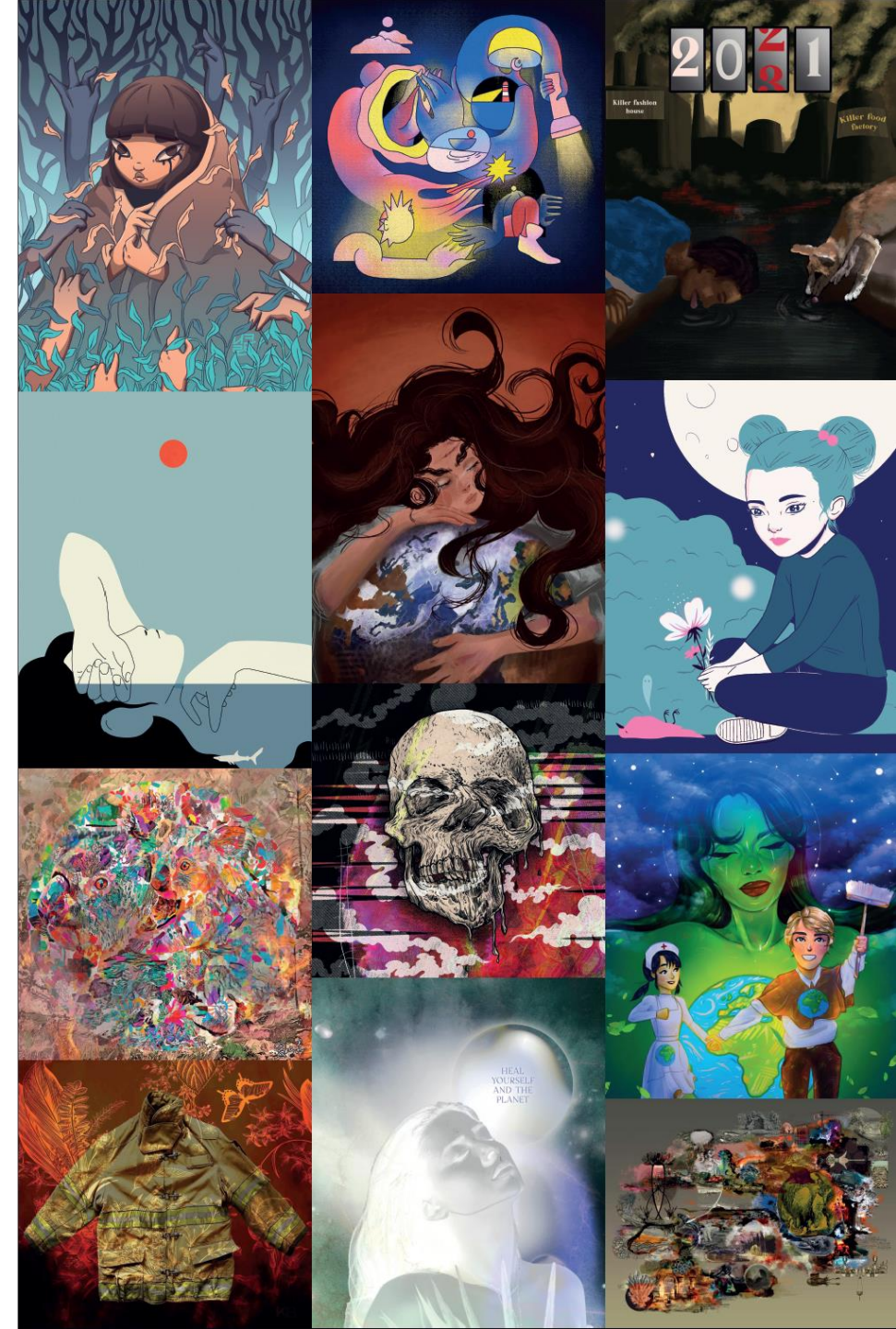
Culture,
Technology and
Organizational
Innovation For
Action For Climate
Empowerment



DigitalArt4Climate is a multi-stakeholder partnership initiative which uses blockchain technology (non-fungible tokens/NFTs) to **turn artwork into digital assets**, which can be **collected** and **traded**, thus enabling new forms of **resource mobilization** in support of youth focused **Sustainable Development Goals/ UN Agenda2030** implementation in general and [Action for Climate Empowerment](#) in particular.



<https://unfccc-cop26.streamworld.de/webcast/iaai-digitalart4climate>



DigitalArt4Climate NFT marketplace



Market My tokens Trades FAQ

DA4C_NFT_Management
yGHTD...hYUVD

0.079915333808 KSM
QUARTZ by UNIQUE

Market

Status ▾

- My NFTs on sale
- Fixed price
- Timed auction
- My bids

Price ▾

Min to Max

Collections ▾

- DigitalArt4Climate COP26 Collection

Attribute count ▾

- 1 6

Collection / token

Search

Listing date ▾

6 items



DA4C #9
DigitalArt4Clim [id 447]
80
Price



DA4C #7
DigitalArt4Clim [id 447]
80
Price



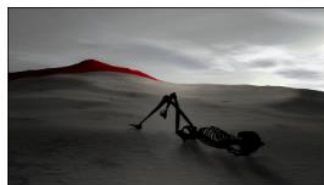
DA4C #5
DigitalArt4Clim [id 447]
80
Price



DA4C #4
DigitalArt4Clim [id 447]
80
Price



DA4C #3
DigitalArt4Clim [id 447]
80
Price



<https://dafc.unique.network/market>

Powered by Unique Network - NFT parachain on Polkadot



Transforming NFTs into Impact NFTs

GloCha Registry

<https://bit.ly/GloCharegistry>

The key to individual global goals "impact" management

A climate safe future and a peaceful and good life for all can be secured only if people everywhere contribute to the local and global common good in a meaningful and rewarding manner.

GloCha is the movement and the community of those working for a just and liveable planet earth, it is a cultural, economic and socio-technical ecosystem that recognizes and rewards action of individuals.

This registry is the starting point of a global decentralized ledger, which will document and connect people, resources, action and impact so that individuals can build their verified, certified and registered legacy.

Although the GloCha journey has started already back in 2007 with the formation of the UN accredited civil society organization IAAI, this registry deliberately starts its records with the entries of the DigitalArt4Climate initiative

The first entries of the GloCha Registry are the entries of the DigitalArt4Climate COP26 collection.

After the DigitalArt4Climate COP26 NFT sales, there will be added new entries to the registry, which will identify (through the public key of a digital wallet or with the actual name) the buyer of the NFT - the provider of financial resources for action for climate empowerment.

Then there will be entered digital IDs for projects and project outcomes.

For the contributors of resources this GloCha registry will be the platform through which they will receive entitlements for participation in GloCha programs DAO governance and attribution of specific project outcomes that have been enabled by their contributions.

IAAI GloCha will work with UN entities, like the UN Habitat Youth programme as well as the UN Climate Change Global Climate Action Data portal towards recognition of this registry as trusted source of information of non-state actors' to action for climate empowerment

Registry number	Resource/ Action/ Contribution	Type of resource/ action/ contribution	Contributor	Digital ID	details about the contribution	localization/ geo info	Verified by	NFT identifier	storage/ IPFS	Relation to other registry entries	
										enabled by	enabling
0001DA4C2022	No Noah for next flood	video	Souki Belghiti		finalist of the DigitalArt4Climate COP26 Art Competition	Morocco	Miroslav Polzer	https://dafc.unique.network/token/447/2			
0002DA4C2022	Shame	image	Mehran Yazdi		finalist of the DigitalArt4Climate COP26 Art Competition	Iran	Miroslav Polzer				
0003DA4C2022	Team Earth	image	Ana Đačanin		finalist of the DigitalArt4Climate COP26 Art Competition	Serbia	Miroslav Polzer				

Structure



PHYSICAL WORLD

METAVEVERSE

IAAI
Registered entity accredited to the UN System (i.e. UNFCCC, ECOSOC, DGC)

GLOCHA
Decentralised Ecosystem Empowering Multistakeholder UN SDG Action

UCO
A quasi-international DAO offering global youths a blockchain based solution to govern and enable action



ACE MARKET PLACE
A Blockchain based market place that allows resource mobilisation. Products include NFTs, Cryptostamps, Carbon Credits, Coin Raises

DIGITAL ART 4 CLIMATE
Multi disciplinary gallery that gives climate conscious artists a platform to create and trade digital assets whilst raising awareness for climate action

FUND RAISING
UCO members will have the opportunity to connect with philanthropists and raise funding for their sustainability projects

LIFE MANAGEMENT
Life management app to help citizens live a more sustainable life with Glocha Standards

EDUCATION
Education platform through which members of UCO share the challenges they face and learn about who to solve sustainability related issues

Global Challenges Action ID



1. **Individual ranking** of 10 (out of 17) SDGs based on perceived personal relevance of each SDG (number of [possible combinations](#) more than 70 billion)
2. Heptadecimal (combination of 9 numbers plus characters A-G representing the 17 SDGs) representation of the individual SDG ranking = the **unique individual Global Challenges Action identifier** for the person.
3. Automated Design of an **Individual SDG Wheel image** based on ranking from step 1.
4. Programming of the ID info on the **NFC of the GloCha ID card**
5. Registration of NFT and NFC data in **GloCha registry**
6. **printing** of ID card on site at DA4C COP27 pavilion
7. **Registering DID in GloCha Global Challenges Action Registry:** (example DoinGud <https://doingud.com/my-profile>, see below) – in general optional, and not needed for Individual SDG Wheel NFT ownership; but necessary for personalized action NFT registrations and participation in related community activities)
8. **Connecting NFT with DID**
9. Checking Info on GloCha Registry NFT ID & NFTs **Frontend solution / Platform/Website** (= the landing page that people reach by scanning the GloCha ID Card ID NFC directing People directly to the specific GloCha ID and associated GloCha NFT collection)



NFC Label Printer

The GloCha App: Empowering Citizens / Youth to become agents of change:

An Individual Climate Action Dashboard app on everyone's Mobile Device

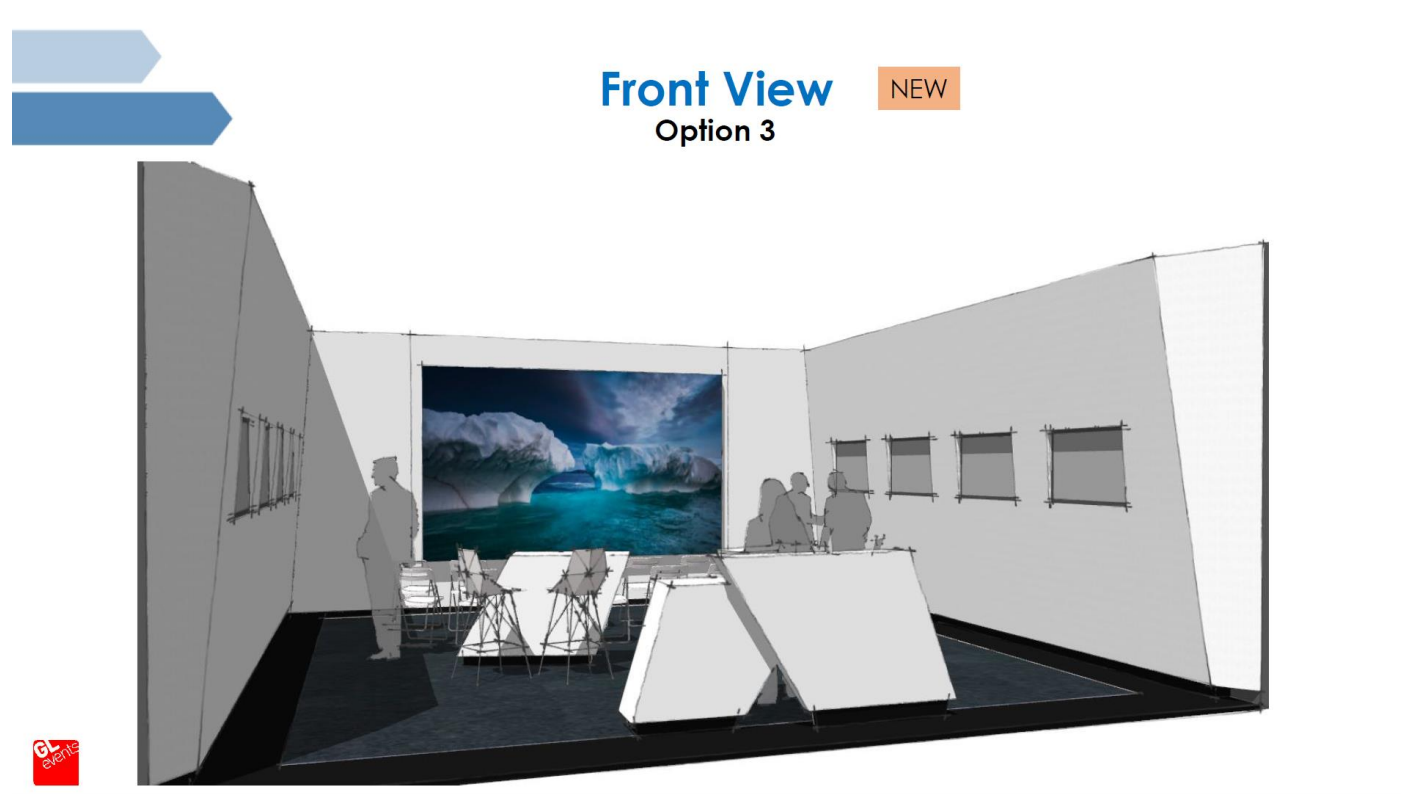
Meaningful and Rewarding Climate Action as a NFT/ Digital Badges Collection Game



Next Steps for DigitalArt4Climate & GloCha

- Promotion of low carbon lifestyles of employees (in the context of Scope 3 Carbon footprint minimization efforts etc.)
- NFTs based Voluntary Carbon footprint compensation (DA4C ACE supporter stamps UNFCCC Archives edition launch at COP27)
- Youth/Citizen climate action reporting consortium
- Citizen climate action certification DAO
- Alliance building with digital solutions providers for green economy/climate entrepreneurship, starting at COP27 with a view towards a potential COP28 presidency (and COP29) flagship initiative

COP27 Digital Innovation / DigitalArt4Climate Pavilion



- A space for the digital innovation community to showcase solutions, advise and support the global climate governance process with events, exhibitions, creative sessions, networking, ..
- Identifying a new “Operation system” for the UNFCCC process & non-state actors

Join us as we drive the Blockchain Revolution For Climate Neutral Cities and Citizens!

Miroslav Polzer

Polzer@glocha.info @[glocha](#) mp



www.glocha.info

<https://digitalart4climate.space/>

<https://www.climatechaincoalition.io/>