



DAO IPCI – LEADING BLOCKCHAIN SOLUTION TO CLIMATE CHANGE

QUICK OVERVIEW AND USE CASES UPDATE

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Who we are?

Decentralized Autonomous Organization Integral Platform for Climate Initiatives is an already operating blockchain infrastructure for the global green finance markets based on Ethereum public blockchain. DAO IPCI helps measure and mitigate environmental damage from economic activities and aims at boosting global investments in green assets in order to help reach UN sustainable development and Paris Agreement goals.

What problems do we solve?

DAO IPCI unlocks the **\$23 trillion investment opportunity of the Paris Agreement** by building trust, transparency, traceability and linkage across fragmented green finance markets. Open source and relatively lower cost than traditional business processes – enables innovative climate programs to emerge rapidly engaging and empowering stakeholders directly.

Who are our users?

Any existing mandatory and voluntary environmental programs of diverse scopes of activities, jurisdictions, as well as businesses, NGOs and individuals may create independent DAO core to use blockchain features in their daily operations. Independent mitigation programs may interlace within DAO IPCI and form a web of DAOs choosing modules and protocols they wish to share and have in common with their peers. More in [Whitepaper](#).

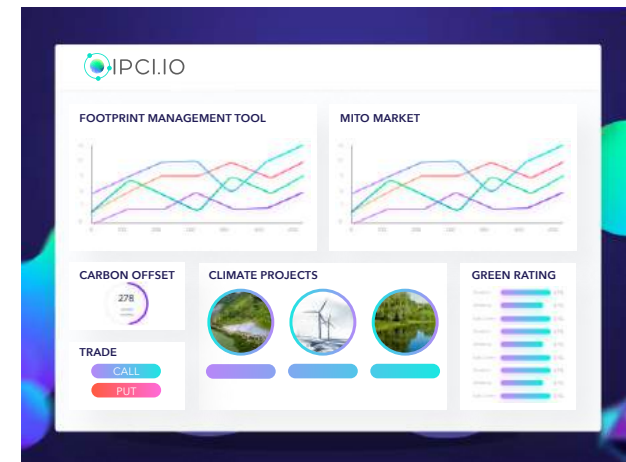


DAO IPCI Team at the World Bank Innovate4Climate Conference in Barcelona with Massamba Thioye, UNFCCC blockchain team lead.



Key DAO IPCI features:

- Measurement and tracking of positive and negative environmental impact from of polluters/climate projects.
- Issuance, trade and retirement of various environmental assets (Incl. Carbon Credits, Green Bonds, RECs etc.).
- Democratizing access to green investment and assets via online **DApp** - decentralized application.
- Building linkages across markets with MITO - Mitigation Token.
- Blockchainization of corporate, regional, national and international environmental programs.



Dapp 2.0 to be released Q3 2018

DAO IPCI USE CASES

1. World's first transaction of green assets in blockchain

DAO IPCI platform officially started operating in March 2017. The Moscow-based Russian Carbon Fund and leading French climate finance group Aera Group [have pioneered](#) the first worldwide carbon credit transaction using blockchain technology. The Verified Carbon Units equal to 400 tons of carbon dioxide were used to offset carbon emissions by airline passengers both in Russia and internationally. IT support were provided by Microsoft Russia and [Airalab](#).

Our efforts were soon acknowledged by Accenture Strategy who awarded DAO IPCI with international [Cleantech Award](#) at Collision - US fastest growing tech conference. Interested by the potential of blockchain, both UNFCCC and the World Bank team invited DAO IPCI to share experience at the Innovate4Climate Forum and then at the world's largest climate conference [COP23](#).

At COP 23 we had [presented](#) our approach to [Paris Agreement art. 6 blockchainization](#) and were invited to take part in numerous events and negotiations that soon led to origination of disruptive use cases across the globe.

In September 2017 Russian company [Khimprom](#) issued first Russian post-Kyoto carbon credits equivalent to 201,085 tons of CO₂ the first market transaction with these credits took place in April 2018. The same month, another company, Swiss Krono, [issued](#) 1.5 mln tradable carbon credits in DAO IPCI blockchain.



PROJECT ID

Country: Mauritius

Project: La Ferme Bambous 15 MW solar farm

Owner: Sarako PVP Co. Ltd

CO₂ saved: 22,000 tonnes per year

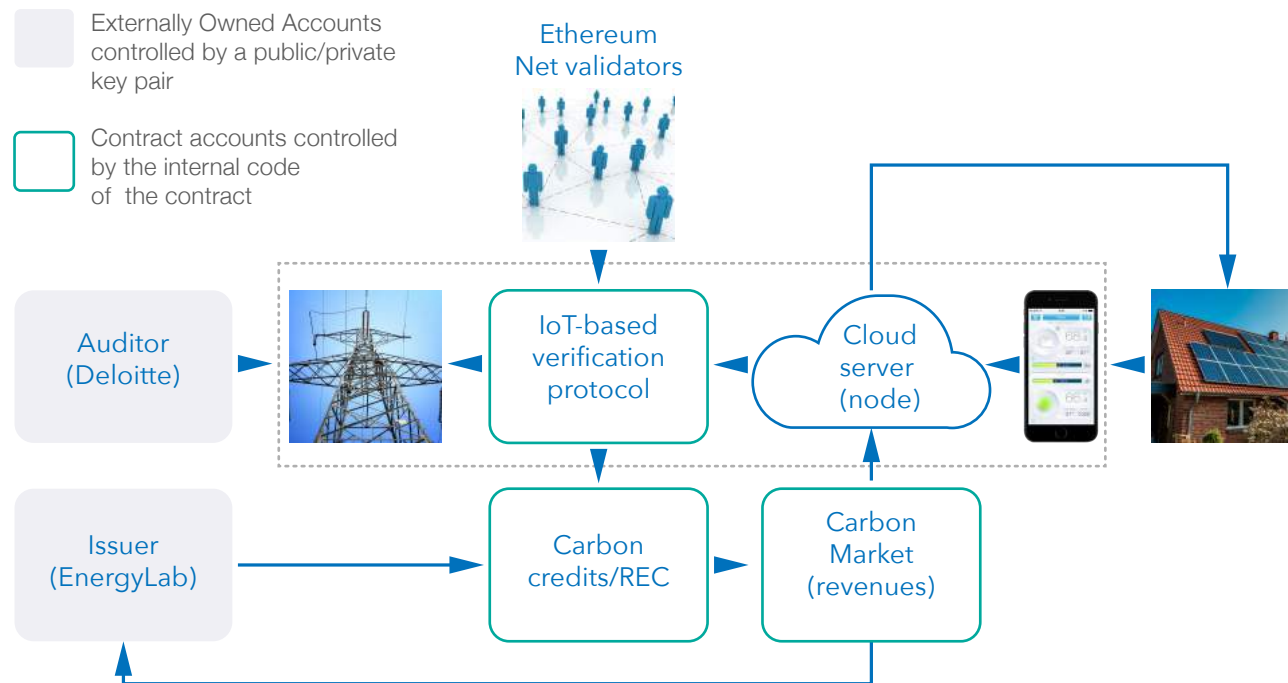
Standards VCS + CDM

UN Sustainable Goals Reached



2. Rural community solar power in Chile

Together with our Chilean partner New Era Foundation we are [launching](#) first ever distributed climate program for remote villages. Thanks to the smart sensors that are connected to DAO IPCI blockchain, the locals will be rewarded for using solar energy.



“Climate policy should have sound economic basis to ensure that we pay fair costs for GHG emissions and get fair remuneration for mitigation outcomes. Our blockchain solution provides digital ecosystem to make it happen”

Anton Galenovich
PhD, DAOI PCI founder

The data from IoT smart devices on generation/consumption of renewable energy is aggregated at the external server of the program Operator - EnergyLabs. The emissions reductions-based carbon credits (tokens) are going to be distributed among the households thus opening a new climate finance stream that was previously impossible.

3. National MRV and ETS blockchainization

Another important project is the blockchainization of the national system for monitoring, reporting and verification of GHG emissions in Kazakhstan. To implement the national Roadmap of transition to the green economy for 2013-2020 Kazakhstan needs to draw investments in clean technology and infrastructure, and this can be done thanks to national carbon market. DAO IPCI is going to provide a digital environment for this transition.

4. Drone emissions monitoring system

The third use case is carried on in technical cooperation with Airalab group to measure the methane emissions over rubbish dumps with the help of [drones](#) equipped with smart sensors ([successfully tested in April](#)). This project is a part of a larger concept of “private monitoring” which enables individuals to create the smart sensor networks of their own, to join a blockchain network and to sell the received data with the help of the IoT protocol to everyone who is interested.

5. Smart sensors network on blockchain

Together with Airalab DAO IPCI delivers a protocol for a smart sensors network that can measure energy consumption and wide range of air pollutants. If there are several independent owners of pollution sensors in the city, the community gets an alternative source of information, which is much more difficult to corrupt and discredit than centralized.



“Robots can measure, manage and compensate environmental impact better than a human does”

Sergei Lonshakov
DAO IPCI Chief Technology Officer

International Cooperation

DAO IPCI has a long history in working with international organizations and institutions such as the World Bank, UNFCCC, Green Climate Fund. Currently we are the members of the two most influential green blockchain alliances [Climate Chain Coalition](#) and Climate Blockchain institute as well as the Crypto Valley.

The results of this work were recently [presented in Bonn](#) on May 15. During the round table "Blockchain Technology & Business Model Innovation for Enhanced Youth Engagement in Climate Action" and the Climate Chain Coalition Press Conference Alexey Shadrin stood up with a presentation covering three of our use cases.

“If we look many miles over the horizon and see individuals pay for the pollution, someone on the other end of the world would get this money directly without transaction cost, without any influence of bad governance. And getting the money for concrete, tangible and viable climate action, this would totally change the dynamics between rich and poor countries...” - Martin Frick, Senior Director for Policy and Program Coordination of the United Nations Climate Change Secretariat

DAO IPCI work has been appreciated by Martin Frick, Senior Director for Policy and Program Coordination of the United Nations Climate Change Secretariat who also took part in the press conference. During the following bilateral meeting, he expressed his interest and approval of the DAO IPCI's initiatives and invited us to share this experience at COP24 conference in Poland.



Blockchain/DLT for climate action press-conference:
Joseph Robertson, Miroslav Polzer, Alexandra Lutz,
Martin Frick, Alexey Shadrin, Matthias Gelber



Core team members and advisors



Anton Galenovich, founder 

For 20 years he has been studying and advising on the market mechanisms of the Kyoto Protocol, Paris Agreement and CO₂ emission markets. Accredited non-governmental observer of the UN Framework Convention on Climate Change.



Sergey Lonshakov, founder, CTO 

Blockchain and smart contract projects developer, Airalab team leader. Since 2014 Sergey has been researching capabilities of Ethereum platform for DAO and IoT solutions.



Alexey Shadrin, founder 

Blockchain, Sustainability and Smart City evangelist, serial entrepreneur and key-note speaker. Founder of the Russian Carbon Fund and Evercity.



Lyudmila Brus, Marketing lead 

Environmental innovations and crypto journalist, blogger, with 10 + years of experience.



Joseph Pallant, advisor 

Joseph Pallant is a life-long seeker of environmental solutions, who has been active in the Carbon Market since 2004. At Canadian company Brinkman Climate Joseph develops Carbon Project Solutions, developer of forest, agriculture, waste and transportation offset projects in Canada and around the world.



Yuri Anisimov, advisor 

Fin Tech Director of Startmesh, Representative of RVC in SEA, co-founder and managing director of Ability Factors Pte. Ltd, with 25 years of experience in business development, operations, production engineering, and services.



Xiaocheng Zhang, advisor 

President at FinTech4Good. He also serves as a founding partner of New Development Ventures, on the Crowdfunding Professional Association Board of Directors and UN ESCAP Digital Economy Task Force.

Partners



Publications and reports



Contact us

