
Centre for International
Governance Innovation

Climate Change & Blockchain Law & Governance

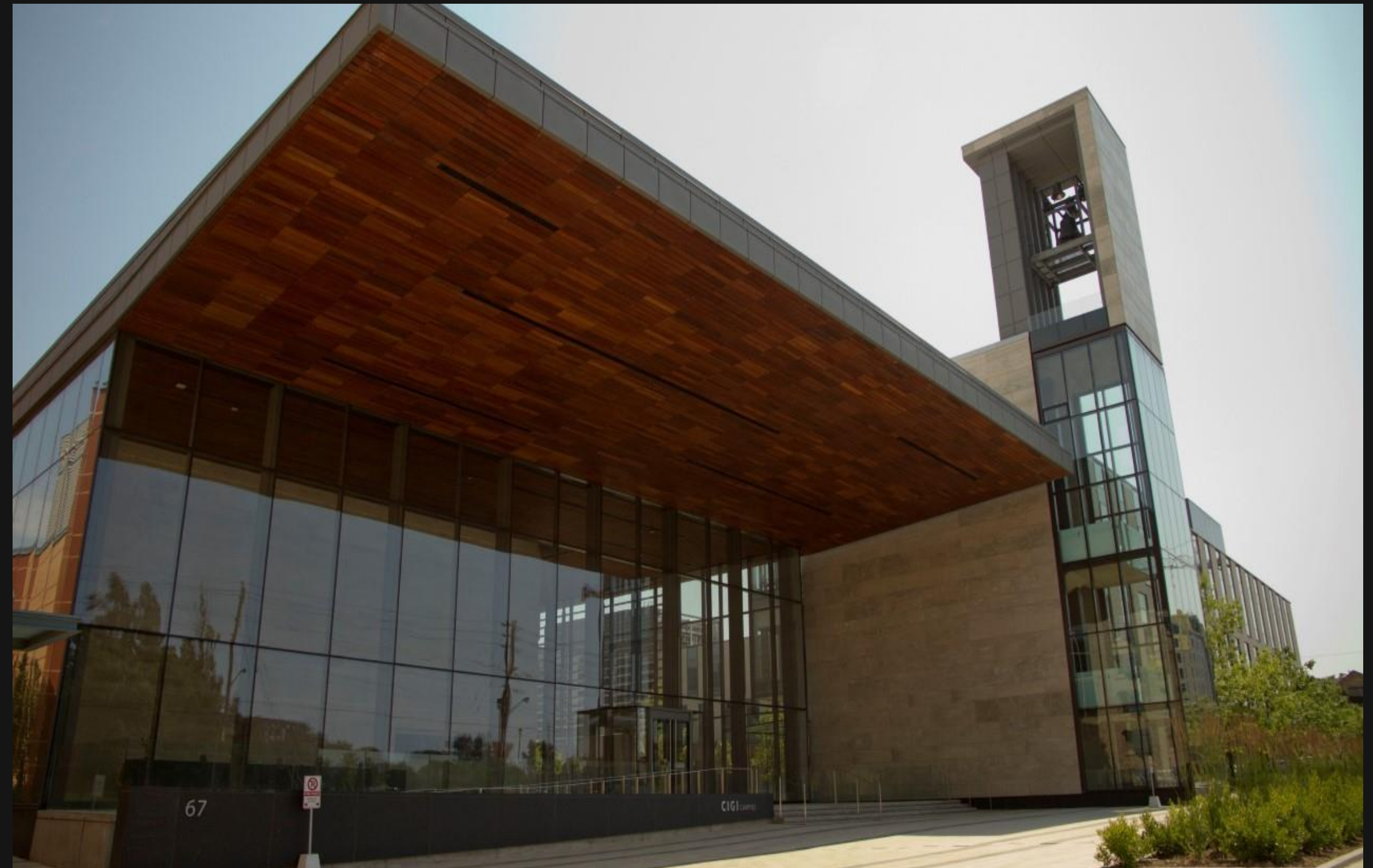
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www.cigionline.org

Outline of Presentation

1. Introduction to ClimateCup
2. Structure of Paris Agreement
3. Climate\Blockchain Potential
4. Legal, political & implementation challenges
5. Using blockchain/DLT to aid transition to green/low carbon energy infrastructures
6. Blockchain/DLT for green finance
7. ClimateCup conclusions



Blockchain CLIMATECUP Roundtable



OpenInternationalLaw & Technology
Fitness Gym - leading technology
innovators & experts in international law
and governance working to address
global governance challenges:

1. Using blockchain\DLT to codify the Paris Agreement on Climate Change for innovative coordination of complexity
2. Exploring the potential application of blockchain technology to contribute to climate action reporting, measurement, finance, etc.

Structure of Paris Agreement

Article 4: “prepare, communicate and maintain successive nationally determined contributions (NDCs)”

Article 6: cooperate voluntarily in using internationally transferred mitigation outcomes

Article 9: mobilizing “financial resources to assist developing country Parties with respect to” climate mitigation and adaptation.

Article 10: “cooperative action on technology development and transfer”

Structure of Paris Agreement cont'd

Article 12: “cooperate in taking measures... to enhance climate change education, training, public awareness, public participation and public access to information”

Article 13: “an enhanced transparency framework for action and support ... which takes into account Parties’ different capacities”... “building of transparency-related capacity”

Article 14: “global stocktake” periodically to “assess the collective progress

Article 15: compliance mechanism “to facilitate implementation of and promote compliance

Climate\Blockchain Potential?

Paris Agreement is not prescriptive; relies on NDCs, self-reporting, peer & expert review, facilitating bottom up climate action

Requires climate-related data to be collected, analyzed, compared, **using common but flexible standard** for developed & developing countries

Developing a **reliable, global ledger of critical climate data** could be used to :

- Track payments for climate mitigation & adaptation projects, track provenance\value of carbon credits & offsets
- Increase transparency\trustworthiness of carbon markets & climate mitigation & adaptation projects, attracting private green finance, green crowd funding
- Help subnationals track & reduce energy consumption, enable individuals to track their own carbon footprint
- Track critical data, weather events, insurance risks to support Warsaw Mechanism on climate loss & damage (Article 8)

Blockchain/DLT for green finance

Anton Galenovich, Alexey Shadrin & Sergey Lonshakov, Russian Carbon Fund, DAO IPCI
Impact Mitigation: practical concepts, lessons learned and prospects

Cao Yin, Energy Blockchain Labs, *Utilizing blockchain technology to create carbon credit in China*

Henry Chan, ConsenSys, WeiFund: *Crowdfunding on Ethereum*

Tejas Sawant, SolarCoin Foundation, *SolarCoin Powering the Energy Transition*

Michael Casey, MIT Digital Currencies Initiative, *Using the Blockchain to Affordably Finance Solar Energy in Off-Grid Communities*



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Legal, political & implementation challenges



Alexandre Gellert, UNFCCC Secretariat, *The Potential of Blockchain Technology to Enhance Climate Action*

Marcela Scarpellini, Right. Based on Science, *Science Based Targets: the right starting point*

Nick Beglinger, CleanTech21, *Blockchain for Climate*

Maria Netto, Inter-American Development Bank, *Blockchain as a tool to promote access to finance*

Claire Henly, Rocky Mountain Institute/Energy Web Foundation, *Energy Web Foundation – the open source, blockchain-based platform for the energy sector*

Using blockchain/DLT to aid transition to green/low carbon energy infrastructures



Lawrence Orsini, LO3 Energy, *Distributed Grid Solutions that Bring People, Technology, and Energy Together*

Dominik Schiener, IOTA, *Building a Green Machine Economy: from Vision to Practice*

Sofie Blakstad, Stockholm Green Digital Finance, *Trust and Transparency for a Sustainable Future*

Jason Libersky, Xpansiv, *Leveraging Existing Commodity Production Data to Deliver Sustainability Objectives*

Tom Baumann, Collaborase, *Standards 2.0 Governance Innovation for Blockchain*

ClimateCup breakout discussions

Focused on specific climate change issues that blockchain technology has the potential to transform:

1. Climate finance
2. Environmental data transparency
3. Distributed energy production

Report available at cigionline.org



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Questions?



Thank you