



Exploring the application of blockchain technology for Emissions Trading and climate-related Monitoring, Reporting and Verification systems in Mexico

“Use cases supporting climate action ”

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Sven Braden, Independent Consultant



Energy Blockchain Labs, China



Approach

- Establishment of a platform for the development of carbon assets (using IBM Hyperledger Fabric)
- Permissioned platform is run by emitters, governments, local governments, central governments, carbon asset exchanges, third-party inspections and certification bodies
- Provides linking of carbon emission reductions (incl. offsets) with mandatory emission quotas
- Compilation of 200 “carbon asset” methodologies into smart contracts which automates the calculation of quotas for enterprises that need to reduce emissions
- Energy Labs expects to cut the average 10-month carbon asset development cycle by 20 – 50 percent



Climate Coin, Earth Token, Carbon Coin



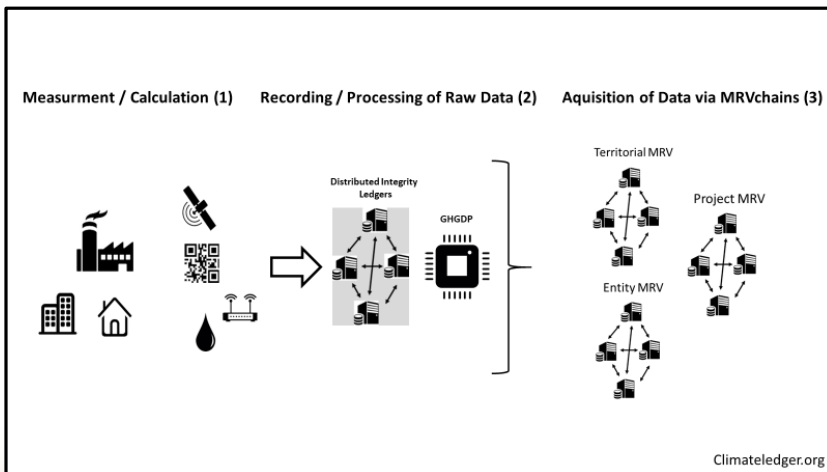
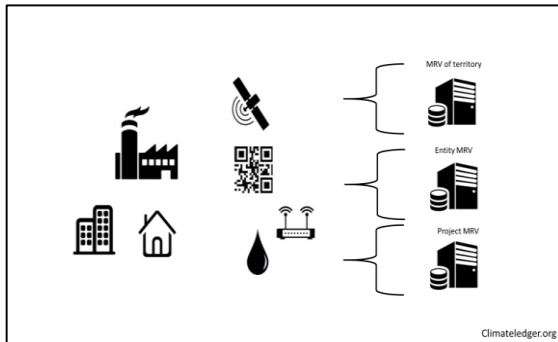
CARBON COIN

Approach

- Issuance of tokens (Climate Coin) that represent the reduction of an environmental asset such as ton of CO₂eq
- Revenues generated by these tokens are used to buy emission reductions either on dedicated environmental markets and/or from project developers directly
- Combine new means of climate finance (crowd funding) and may provide liquidity to carbon / environmental markets
- P2P features facilitate access for smaller business to participate in environmental asset trading
- May open new business opportunities via linking with other DLT applications (e.g. supply chain for goods)



Digitizing MRV – Idea Note of Climate Ledger Initiative



Approach

- Establishing a “market” for GHG raw data - which can be accessed by various MRV systems
- Examination of potential of machine to machine protocols
- Combining AI + IoT + DLT in order to
- Generate improved default values for specific GHG emissions sources (e.g. emissions from informal sector/activities)
- Could the generation of high quality data be incentivized via a blockchain approach (e.g. via tokenization of data generation)?



Disberse.com



Approach

- Tracking finance in the development sector
- Blockchain based fund management platform (service provider)
- Tracking trace of finance from donor to beneficiary
- Pilot in Swasiland with UK based charity organisation Positivewoman considerably cut costs of banking fees
- - teamed up with Start Network (fund managing organisation for DFID (UK) and SIDA (Sweden) to fully track funds



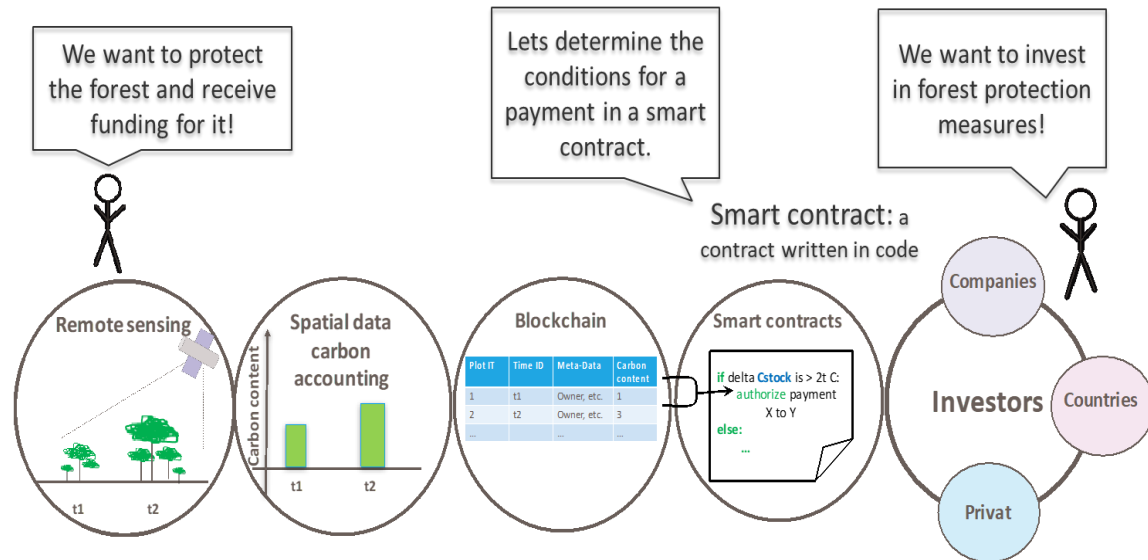
REDD Chain



Cleantech21

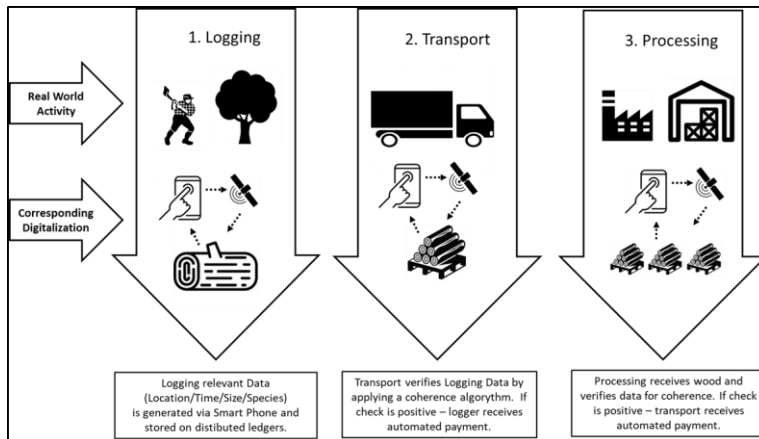
Quantis

Approach





WT Protocol

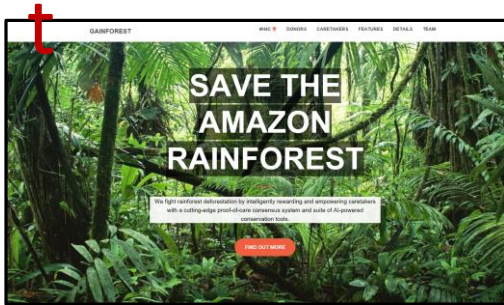


Approach

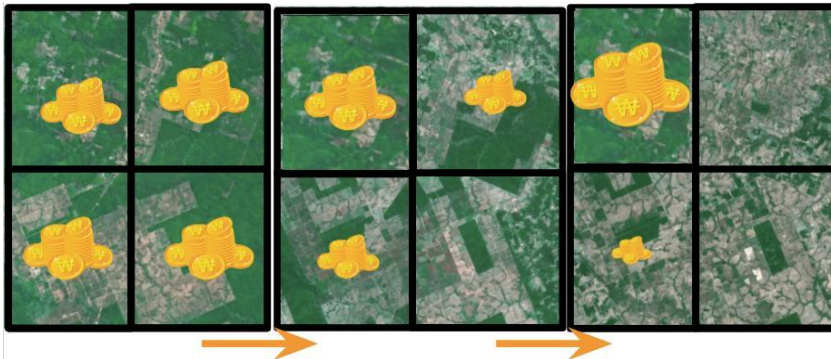
- Enabling tracability of wood from the amazon region
- Use of normal smart phones for data generation (via WTP APP)
- Generated data will be stored on a blockchain network
- Integration of payment processes into the wood processing chain
- Creation of dependencies between stakeholders by making them validating each others information



GainFores



Staking System:



Approach

- The winning team of #Hack4climate
- P2P Caretaker model to ensure conservation of patches in the Amazon
- GainForest uses existing data to feed computers in order to predict what areas of the Amazon are at risk of deforestation
- P2P Caretaker model will release payments (to protect forest) dedicated to areas which have been identified as being at risk (use of staking system)



Muchas Gracias

Sven Braden

www.climateledger.org

sven.braden@climateledger.org

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