



Climate change mitigation and adaptation: Getting into action

Juerg Fuessler, INFRAS and Climate Ledger Initiative UNFCCC SB50 Side Event in Bonn, 25 June 2019



The Climate Ledger Initiative (CLI)

Mission: to accelerate the momentum for climate action under the Paris Agreement by fostering the use of the emerging blockchain technology. CLI's activities:

- Analysis and research
- Innovation use cases
- Platform for exchange and joint learning

Supported by the LIFE Climate Foundation, Government of Liechtenstein, Government of Switzerland, and EU's Climate-KiC. <u>climateledger.org</u>



Schweizerische Eidgenossenschaft Confédération suisse Confederazione Svizzera Confederaziun svizra

Swiss Agency for Development and Cooperation SDC





Collaboration with Network of partners including UNFCCC Sec., World Bank The CLI is jointly operated by: INFRAS and the Gold Standard Foundation Release COP Katowice 2018: *Navigating Blockchain and Climate Action Report*



The Paris Agreement: a historic milestone





Katowice: «technical COP», IPCC SR 1.5, [rulebook]



Source: Juerg Fuessler



Accelerating Paris Agreement implementation with Blockchain and other innovative information technologies

GHG Inventories (national.) (WP1) Sources and sinks GHG Inventories (corporate, ETS, footprinting) (WP1)		Nationally Determined contributions (NDCs) (WP3)			
		Company targets, ESG (WP1)			WPs)
Markets (WP2) PA Art. 6 Voluntary	Emission Trading Schemes National/Intl. Clubs National market instruments		Carbon taxes and levies Carbon pricing Carbon asset reserve BTA	Further regulation and mitigation instruments (Feed-in tariffs, RECs, PATs, subsidies, results based finance, benchmarking,)	Global Stocktake (all WPs)
ICAO-CORSIA WMO					Gloi
Carbon accounting, tra	insparenc	y and repo	orting (all WPs)	1	,
Climate finance for clir	nate chan	ge mitigat	ion and adaptation	(WP4)	

Source: Climate Ledger Initiative

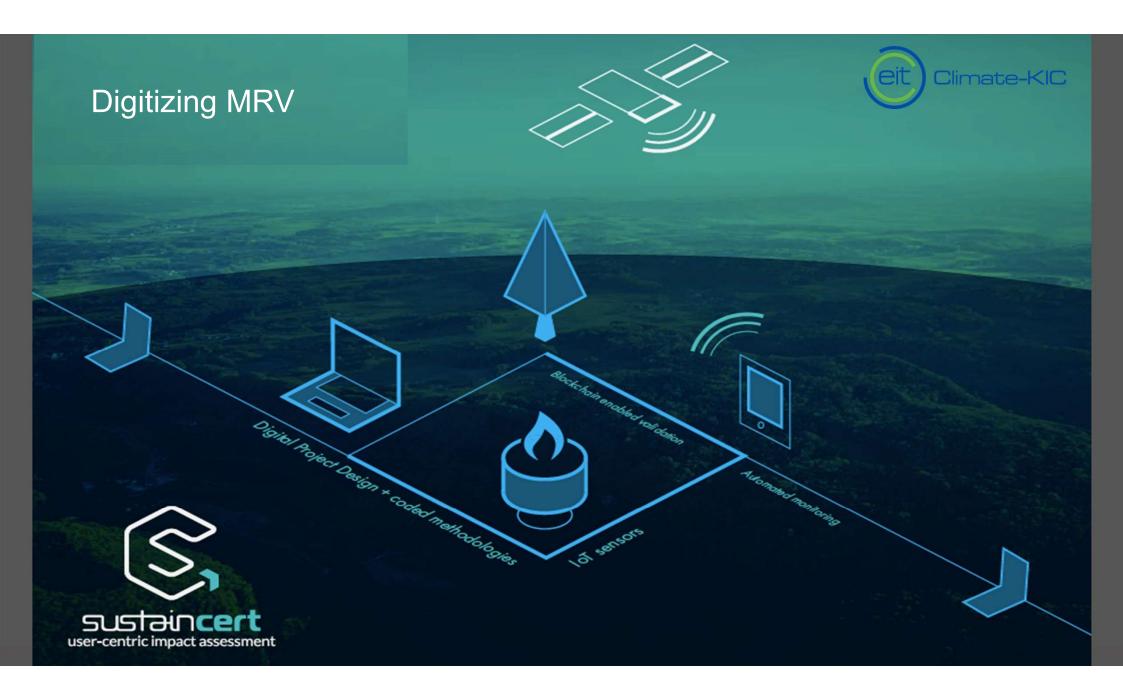




CLI 2018 Navigating Report launched at COP Download on <u>www.climateledger.org</u>



Source: Climate Ledger Initiative/ Gold Standard

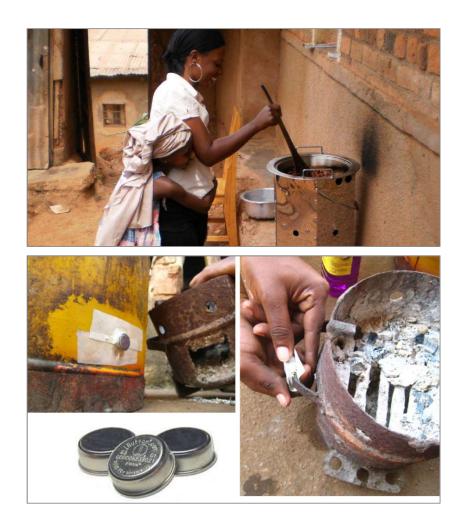


USE CASE – CLEAN COOKING

Automation of aspects of the MRV process by:

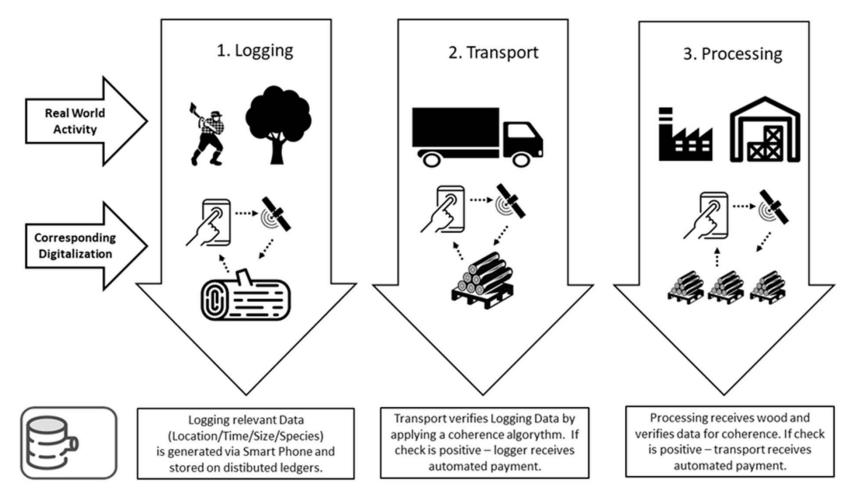
- Implementing use of IoT Stove Usage Monitors
- Capturing data, categorising and time/stove stamping using DLT
- Automating the calculation process through an online application
- Pre-conditioning certain parameters for automatic verification using Al
- Targeting higher risks using AI driven verification
- Automating the review and issuance process
- Updating the standard/methodology to empower this approach







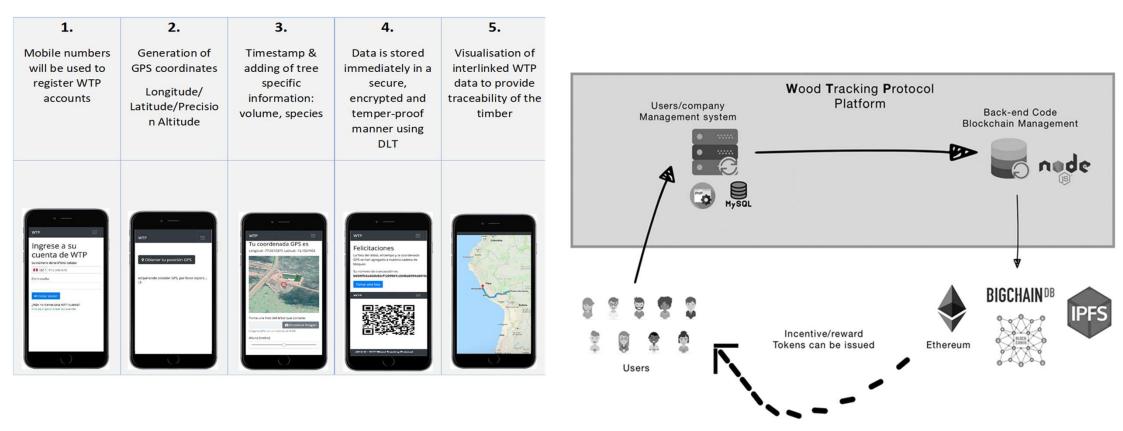
USE CASE – WOOD TRACKING PROTOCOL, WTP



A project supported by the SDC Office Peru: www.wtp-project.com



USE CASE – WOOD TRACKING PROTOCOL, WTP



A project supported by the SDC Office Peru: <u>www.wtp-project.com</u>

USE CASE CC ADAPTATION – WATER MANAGEMENT

IoT systems to reduce water losses at utilities and improve their efficiency and capability to cope during increasing droughts

- Smart meters connected to IoT network + blockchain-aided online platform to manage water consumption data, automatic curtailment and reconnection, and mobile money payment facilitation for water utilities
- Smart-phone app allows consumers to track data and be billed accurately, increasing trust
- DLT ensures payments made are not tampered with, reducing fraud



Source: EED Kenya

New CLI program 2019 – 2021: we are looking for promising use cases and partners Register on <u>www.climateledger.org</u> to get involved





Source: Juerg Fuessler

Juerg Fuessler Managing Partner INFRAS, Zurich juerg.fuessler@infras.ch