

Usage of Blockchain in the UN System A DESK REVIEW, August 2017

TechNovation Day: Blockchain
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Objective and Scope

- Provide a rapid high-level overview of the interest and usage of blockchain in the UN system.
- The following slides summarize the findings of an internetbased desk review conducted during the month of August 2017.
- Based on keyword searches for blockchain-related projects on the websites of large UN system entities.
- It is not an exhaustive catalog of blockchain projects, but a high level picture.

The United Nations gradually embracing Blockchain

UN entities carrying out Blockchain initiatives.

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Summary (Ongoing research)

Dunof	UN Entity	Description
Proof	UNDP	Remittances, Car Fleet Mgmt., considering fund transfers and
Of	ONDI	tracking
Concept &	WFP	Blockchain backbone for a variety of use cases, current application to cash based transfer programmes
Scale Up	UNCTAD	Teamed up with Alibaba Group co-founder for planned "e-Trade for All" application
	UN Women	Blockchain Hackathon event
Events	UNICRI	Emerging Technology & Security
&	ITU	Security Aspects of Blockchain
Workshops	DESA	RemTech Awards
	UNODC	Cryptocurrency Investigation Train-the-Trainers
	UNEP	Fintech and Sustainable Development Assessing the Implications
	UNECE	Blockchain White Paper
Publications	UNOPS	Unite all UN Agencies, Funds and Programmes working on their own Blockchain projects
& &	ECLAC	Prospects for Blockchain-based Settlement Frameworks as a
α.	LOLAG	Resolution to the Threat of De-risking to Caribbean Financial Systems
Investments	estments	How Can Cryptocurrency and Blockchain Technology Play a Role in
		Building Social and Solidarity Finance?
	OCHA	Blockchain for Humanitarian Sector: Future Opportunities
OFFICE OF INFORMATION AND C	UNICEF MMUNICATIONS TECHNOLO	Innovation Venture Fund; Identity App Prototype; Trainings

UN Development Program

Proof of concept:

Blockchain technology for alternate financing.

See the Alternative Finance Lab in Istanbul.





Img: UN Photo/JC McIlwaine

Looking into Blockchain technology as means to manage UN car fleets.

World Food Programme

Proof of Concept:

Scale-up Phase (After Successful Pilot):



Designed and implemented blockchain system for 10,000 Syrian refugees in Jordan to purchase food with a scan of the eye! Already distributed more then USD 1 million...

Improve Cash Based Transfers and UN interoperability. Additional applications could include digital ID and supply chain. Open for collaboration.



Img: http://innovation.wfp.org/

UN Conference on Trade and **Development**

Proof of Concept:



Plans to develops "e-Trade for All", an application to help people from all over the world start their own online business

Based off of Estonia's "e-Residency" app which uses Blockchain technology to manage health care data

















Img: http://unctad.org/en/Pages/DTL/STI_and_ICTs/eTrade-for-All.aspx

UN Women

Events & Workshops:



Partnered with Innovation Norway to hold Blockchain Hackathon which produced several decentralized applications

One application produced, called "VIPI Cash", would allow secure financial transactions between women entrepreneurs



Img: http://womenwatch.unwomen.org/science-technology

UN Interregional Crime and Justice Research Institute

Events & Workshops:



Recently held Emerging Technology & Security course on topics included Blockchain as well as biotech, Al/robotics, VR, nanotech, and 3D printing

Though development in technology opens up new opportunities, it also opens up new threats



Img: http://www.unicri.it/in_focus/on/training_threats_peace_security

International Telecommunication Union

Events & Workshops:



Considered whether Blockchain technology should be new security standard & provided platform for policy discussions

Organized "Workshop on Security Aspects of Blockchain"



Img: http://www.itu.int/en/ITU-D/Regional-Presence/AsiaPacific/Pages/Events/2015/March-Cybersecurity/home.aspx

Department of Economic and Social Affairs

Events & Workshops:



Part of joint competition project known as RemTech Awards in which contestants from all over the world could participate



Img: https://remtech.org/#!/team

Theme is the use of Blockchain as means to democratize industry of remittance

UN Centre for Trade Facilitation & Electronic Business

Publication:



Published Blockchain White Paper and held mini conferences to clarify and explain potential applications of Blockchain



Img:https://www.unece.org/tradewelcome/trade-programme.html

Explored use of
Blockchain in regards
to facilitation of trade &
other business
processes

UN Office on Drugs and Crime

Events & Workshops:



Worked with Blockchain analytics startup Chainalysis to develop/launch training on "BitCoin tracing as part of wider financial investigation"



Img: https://commons.wikimedia.org/wiki/File:Bitcoin.png

Law enforcement experts from 22 countries participated

UN Environment Programme

Publication:



Combining technologies such as Blockchain, artificial intelligence, and the Internet of Things could enable the sustainable development agenda at scale.

Implementation of new technologies could reduce overall costs



Img: http://unepinquiry.org/

UN Office for Project Services

Request for Information:



Special Advisor for UN Engagement and Blockchain Technology at UNOPS, releases RFI regarding Blockchain

Came together with several UN entities working on their own Blockchain initiatives

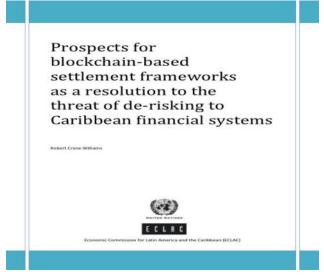
Economic Commission for Latin America and the Caribbean



Publication:



Views Blockchain technology as possible solution to multiple issues such as combating bank de-risking and transaction costs and surveillance



Though potential is seen, claims technology not developed enough to be used as solution currently

Img: http://caribbean.cepal.org/content/what-you-need-know-about-de-risking



UN Research Institute for Social Development



Publication:

Sees Blockchain & Bitcoin as possible currency for remittances



Working Paper 2016-1

How Can Cryptocurrency and Blockchain Technology Play a Role in Building Social and Solidarity Finance?

Brett Scott

prepared for the UNRISD Workshop Social and Solidarity Finance: Tensions, Opportunities and Transformative Potential" in collaboration with the Friedrich-Ebert Stiffung and the International Labour Office

February 2016

Img: http://www.unrisd.org/unrisd/website/document.nsf

Creates potential for local merchants in poorer countries to participate in international commerce

Office for the Coordination of Humanitarian Affairs

Publication:



Delves into the main features of Blockchain technology and it's potential use in transferring financial value but data as well

Can be used in a variety of humanitarian related issues including donor financing, securing/monitoring supply chains, and data protection



Img: http://blog.veritythink.com/post

UN Children's Fund

Investment:



\$11.2 million Innovation Venture Fund Invested in Blockchain startup projects & developed application prototypes of their own



Img: https://www.unicef.org/media/media_89993.html

Next to investments, initiatives include training, knowledge sharing and much more!

Thank You.

Let us know about your Blockchain projects.

Contact OICT Global Services Division.

unite.un.org









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