



# HYPERLEDGER MEETUP

## UN SDGs & Blockchain discussion

### Topics

- Overview of selected UN SDGs - Social Development Goals
- WEF perspectives priorities and strategies for some SDGs
- **Discussion**
- How blockchain solutions can help support SDGs?
- Key challenges delivering blockchain solutions today?
- Next Steps?



**Jim Mason**

Hyperledger Public Sector  
Leader

Thought leadership in  
Blockchain, AI, Data,  
Governance, Automation

Driving value chain  
economies with new  
technologies

Online | Friday, April 26th at 10 AM EDT / 14:00 UTC

<https://tinyurl.com/3f98s952>

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# Post in a group

Please join us for a short presentation and discussion on selected UN SDGs and value blockchain offers.

Presented by [Hyperledger Public Sector Group](#) and [Boston Hyperledger Meetup](#).

Leading the discussion: Jim Mason

## Agenda

- Overview of selected UN SDGs - Social Development Goals
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## Discussion

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# Selected UN SDGs

SDG-1 No Poverty

SDG-2 Zero Hunger

SDG-3 Good Health & Well Being

SDG-7 Affordable & Clean Energy

SDG-12 Responsible Consumption & Production

SDG-13 Climate Action

# WEF views on UN SDGs

## WEF

The World Economic Forum (WEF) is an independent international organization committed to **improving the state of the world.**

As stated in its mission, it, “engages business, political, academic and other leaders of society to shape global, regional and industry agendas.”

## Key Points

- Wars, Ukraine invasion, made poverty, hunger and healthcare all worse.
- efforts to coordinate a response require comprehensive global partnerships.
- Covid prevention, treatment improved healthcare
- Time running out to meet 2030 goals

# Blockchain capabilities list

**Availability - decentralization** improves system resilience, availability

**Traceability** - all transactions **recorded on ledger** provide transparency, traceability

**Immutability** - **linked, hashed data** records ensure data can't be changed

**Efficiency** - **shared ledger** for parties saves time, costs to process transactions

**Reduced fraud** - **Digital IDs, credentials** reduce fraud with **signed transactions**

**Private data** - **Permissioned ledgers** with encrypted data ensure privacy

**Private data** - **ZKP** - Zero Knowledge Proofs get personal data private

**Trusted transactions** - **Smart contracts** run automatically on trusted ledger data

**Accurate assets** - **Digital Asset Tokens** allow accurate ID & tracking of assets

**Safe assets** - **Digital custody services** can protect assets different ways

**Approval tracking** - **Consent management** makes tracking approvals easy

[WEF Blockchain Toolkit Model Summary](#) on blockchain features

# Blockchain Solutions ( Hyperledger)

Digital Identity, Credentials - HL Indy, Aries, Ursa, ID.me, VONX. GLEIF, Asset IDs

Food Supply Chain - Farm2Plate.io , IBM Food Trust

Payments - UDPN, Swift, RLN

Trade Finance - GSBN, Trust Your Supplier, bluenumber.org

Supply Chain & Manufacturing - Honeywell, Deloitte

Banking, Bond & Security, Futures trades - JP Morgan, RLN, DTCC, Citi .. others

Digital Asset Custody - Fidelity, Bitbank, JP Morgan .. more

Crypto exchanges - Binance, Coinbase, Coinmarketcap

Mobility - MOBI network, Smart cities

Healthcare - Covid vaccinations, BurstIQ, EHR ( Patient data privacy )

Public Sector - Estonia, British Columbia, State of RI

Risk - Insurance, Digital Rights, IP, Media, Real Estate,

Climate - Savimbo, Carbon Mgt, P2P energy, Environment Quality Eng



# SDG-1 No Poverty

## Targets

reduce poverty 50%  
give economic, tech resources  
provide social protections  
reduce disaster impacts

## DLT capability value

Self-sovereign IDs can give poor IDs  
Digital currencies = faster payments  
Digital assets = track asset ownership

## Examples

Indy identity network run by stewards  
Secure Dapps to trade goods from mobile  
Mobile payments with crypto, fiat exchange

# SDG-2 Zero Hunger

## Targets

End hunger,  
achieve food security  
improve nutrition  
promote sustainable agriculture

## DLT capability value

Reduced fraud with digital identity - KYC  
Provenance and traceability of products  
Wider access with mobile digital payments  
Digital Currencies ( see India eRupee )  
Digital Identity ( see India Aadhaar )

## Examples

Farm2Plate.io  
India Aadhaar ID  
India eRupee currency  
TYS - Trust Your Supplier

# SDG-3 Good Health & Well Being

## Targets

Ensure healthy lives  
promote well-being for all at all age

## DLT capability value

Identity protection, Credentials validations  
Privacy - EHR ( Patient Health records )  
Traceability - medications, clinical trials  
Consent Management for treatments

## Examples

[BurstIQ - Personal Health, Identity Security](#)

Avaneer Health: accurate claims processing

ProCredEx - Health credentials exchange

# SDG-7 Affordable & Clean Energy

## Targets

Ensure access to affordable, reliable, sustainable and modern energy for all

## DLT capability value

KYC - less identity fraud

Energy trading - faster, cheaper

Better compliance in energy chain

Digital Asset tracking of energy

## Examples

EBC P2P solar energy trading market

[EV battery recharge grid management](#)

# SDG-12 Responsible Consumption & Production

## Targets

Ensure sustainable consumption and production patterns.

## DLT capability value

IDs withh KYC - less identity fraud  
Efficient processing on shared ledger  
Traceability for shipments  
Secure payments  
Easier compliance

## Examples

GSBN - Global Shipping Business Network  
Farm2Plate.io - food chain safety  
GAPP - Genuine Alaska Pollock Producers  
( runs VCE stakeholder model )

# SDG-13 Climate Action

## Targets

Take urgent action to combat climate change and its impacts

## DLT capability value

KYC - less identity fraud  
Traceability for ESG with IoT  
Better compliance on regulations

## Examples

Savimbo - sustainable forests  
Carbon trading markets  
Data Gumbo waste water mgt  
Sybal.io proof of governance

# Blockchain Limitations

## Challenges on Blockchain Solutions

Evolving Technology - Not Mature

### Blockchain Failures

Scalability

Interoperability

Real Governance evolving

Authenticity risks from Quantum, GenAI

Trust engineering not well done

Solutions Not VCE - sustainable value

More ??

## Issues are

Technology maturity

Engineering not good enough

Solutions not VCE based

Standards not mature, well done

Commercial solutions have limited markets

Open source solutions need sustainable funds

Education for organizations, users, tech

# Resources

[khub sts](#)

[khub TOIP trust engineering](#)

[Digital ID advantages article](#)

[Blockchain-technology-in-trade-finance](#)

[blockchain in healthcare apps](#)









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