Law and Borders: Self-Administered IDentifiers and NExTPats: NETizen eXpatriates

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There are more people living inside this circle than outside of it.
The Right to Work Online

Data Model:

Legal Identifiers with Legal Standing

1) Natural Persons (Privacy Constrained)
2) Legal Persons

other types (AI, IoT (50 billion), Smart Contracts)

Data Model:

Non-Lawful Identifiers (does not require the law for legitimacy)

Netizen Expatriates (NETizen Expatriates)

Displaced People

(Now 70 million: More than post WWII
Future: 700 million -> billion in a generation)

Internally Displaced Persons

Externally Displaced - Forced Migrants

Migrant Workers
Scaling The Next Billion+:
Sovereign Identifier Systems - India

- Aadhaar, 10 year old, 12 Digit Identifier
  - [https://uidai.gov.in/](https://uidai.gov.in/)
  - [http://indiastack.org/](http://indiastack.org/)
- Supreme Court Constitutional Ruling:

  “It is better to be unique than the best. Because, being the best makes you the number one, but being unique makes you the only one.” --

  [26 Sept Supreme Court of India Judgement - Constitutionality](https://www.constitutionalcourt.gov.za/)
Scaling The Next Billion++
Sovereign Identifier Systems - China

- 社會信用體系 - Social Credit System (Public Private Partnership)
- Real Name Electronic ID (http://eid.cn/) and CTID (CyberTrusted ID)
- Deployment Pathways: TechFin
  - Alibaba (AntFinancial - Technology Provider (Alipay)):
  - Tencent (WeChat Pay - WeiXin 800 million active users)
- Deployment Pathways: FinTech (Traditional Banks - Union Pay)
- Common CLOUD and Carrier Services (Mobile)->
  - De-risking and Externalizing Costs associated with Identity Responsibility and Risk for Digital Generation (DiDs)
- Identities issued by the government to citizens for identifying identity online and offline
  - Bank Smart Card (Distributors)
  - SIMeID (Mobile)
- Hong Kong new e-ID Card: Deployment Starting this month (8 million)
Soft Infrastructure for China’s Belt and Road Initiative (BRI)

**Belt and Road Blockchain**


EG. 90% By Sea

*TradeLens by Modern Terminal + Maersk + IBM*
Change in
1) Market Structure,
2) Business Models and
3) Competitive Landscape
WHAT ARE FUNDAMENTAL TENSIONS?

‘Tension’ Domiriel CC-BY-NC 2012
Liberté, égalité, fraternité

Ice

WestPhalia
1648

Bordered and Sovereign:
Territoriality Principle
No One Above The Law

Fire

EastPhalia
2047

Borderless and
Self-Administered:
‘Functionality Principle’
No Nation Below Mathematics
The Belt and Road Blockchain: Public Governance Private Business

- Public Governance - BRBC Immutable Change of State for Liability
- Private Business - Detailed Transaction Data (Halal Blockchain A)
- Private Business - Detailed Transaction Data (Blockchain B)
- Private Business - Detailed Transaction Data (Blockchain C) etc.
- Private Business: Your Transaction Blockchain/Settlement Network

SA-IDs
Hong Kong: Emerging Separation of Concerns

1) Public and Border Security: \textbf{Public Governance} (‘Golden Source’)
   Legal Identifier, Accountability and Confidence (tangible physical border)

2) Commercial and Day-to-Day: \textbf{Private Business} (‘Golden Copies’)
   Functional Identifier (may or may not necessary have PII),
   Self-Administered Identifier (Cloud+Mobile)
   Cryptographic Consistency and ‘Confidistance’ - (Intangible data border)
Sovereign States: ‘Fire’
Dynamic ‘Violence’

Borderless Communities: ‘Ice’
Cryptographically Strong
Static ‘Violence’
Legal Certainty

“Rule of Law”

Cryptographic Consistency

“Rule of Code”

Eastphalia 2047: The Internet’s New Legal Layer
Law and Borders: Lawful Legal Standing

Legal Person

Natural Person

Algorithmic Liability (Estonia ‘Kratt’ Law)

A different ordering principle?

Decentralized ≠ Disorganised

Coordinate without Communicating
The Post-Internet, Post-Bitcoin Era
The Fundamental Assumptions ...

Distance ≠ Cost
Centralized ≠ Trusted
Time ≠ Money
Changing Architecture: PULL → PUSH

‘PUSH’ Daremoshiranai CC-BY-NC 2014  Analog Supply Chains -> Digital Demand Chains
Digitizing Global Trade

**ICE: 23/11**
Black Friday ->
Cyber Monday
USD 7.8 Billion?

**FIRE: 11/11**
Singles Day
USD 30 Billion?
Kaizen: Japanese (Change for Better)

Predictable Incremental Improvements over Time -> Incremental Efficiency
Low Risk
Unpredictable Breakthrough Improvement Proposals → Massive Efficiency and Massive Risk
Fire and Ice
Poem by Robert Frost (1874-1963)

Some say the world will end in fire,
Some say in ice.
From what I’ve tasted of desire
I hold with those who favor fire.
But if it had to perish twice,
I think I know enough of hate
To know that for destruction ice
Is also great
And would suffice
Emerging Principles?

ConfiDistance

Selective Transparency

Don’t Trust Verify
End References

a) Making Trade Wars Obsolete  

b) CES 2018 - HK Belt and Road Blockchain Consortium  
https://www.youtube.com/watch?time_continue=9&v=L7CuuLYi0Ik

c) Berlin T20/G20 Process 2017  
https://youtu.be/e7Pq6WQuVTQ?t=27637