

Using RESO Standards to Achieve Network Interoperability



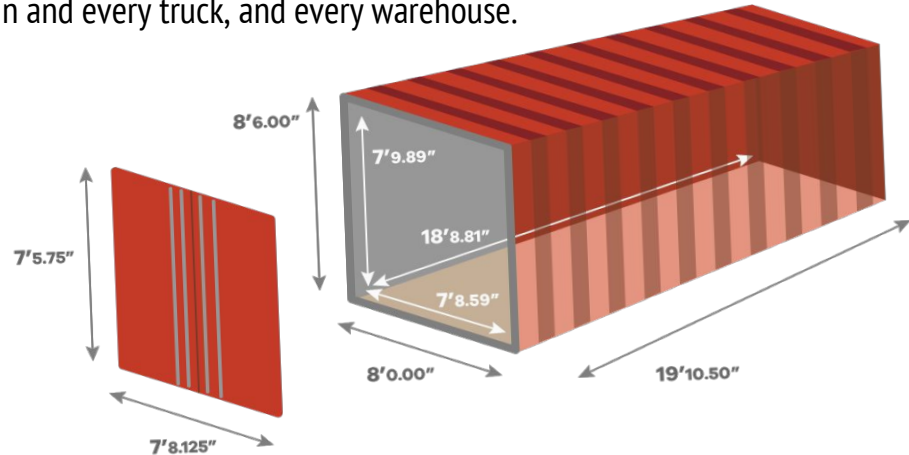
Benefits of Physical Distribution Standards

Pre-Shipping Containers

- Incredibly inefficient, incredibly labor intensive, huge bottleneck for the world.

Post-Shipping Containers

- Here comes a super simple technology, a metal box. Suddenly every port in the world in every city is interoperable with every other city; every ship interoperates with every train and every truck, and every warehouse.



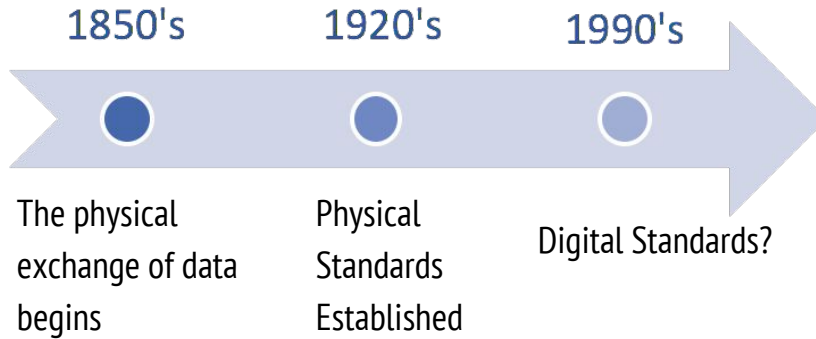
Benefits of Digital Distribution Standards

Before IP, we had a world of different networks.



After, +3 billion plus people communicating for free with anybody with a single address.

History of Real Estate Standards



How Do We Achieve Digital Standardization & Network Interoperability?



Standardization

The data going in must match data coming out. RESO!

Network Interoperability

Trust must be established between systems. Decentralized Technologies!



Let's First Understand Decentralized Technologies



2009: Blockchain

2014: Smart Contracts

2015: The InterPlanetary File System



BLOCKCHAIN



Block



Ledger



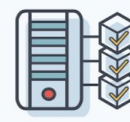
Distribution



Transaction



Confirmation

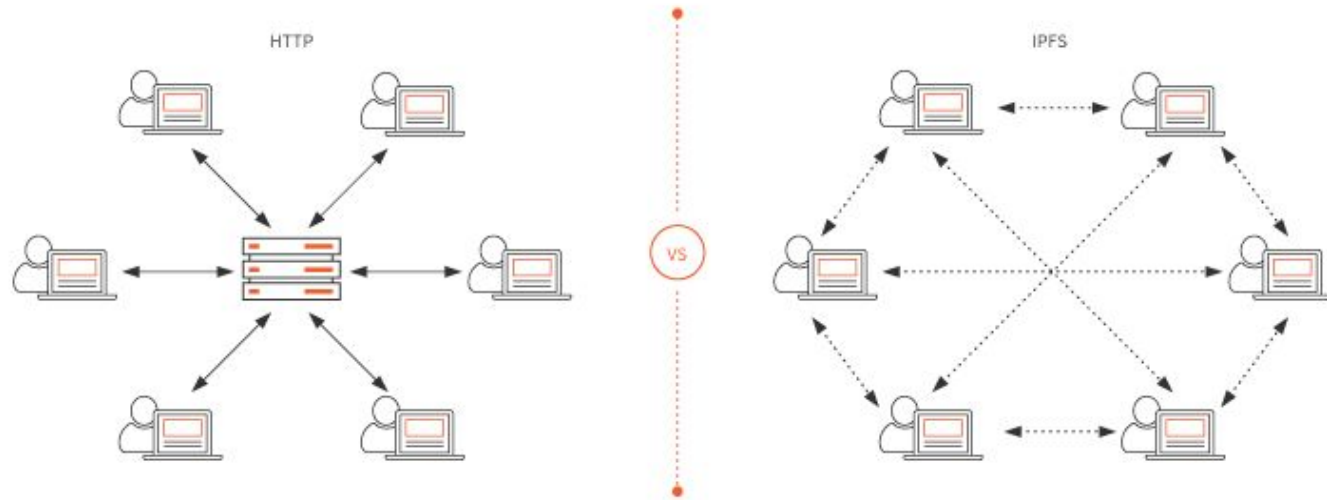


Proof of work

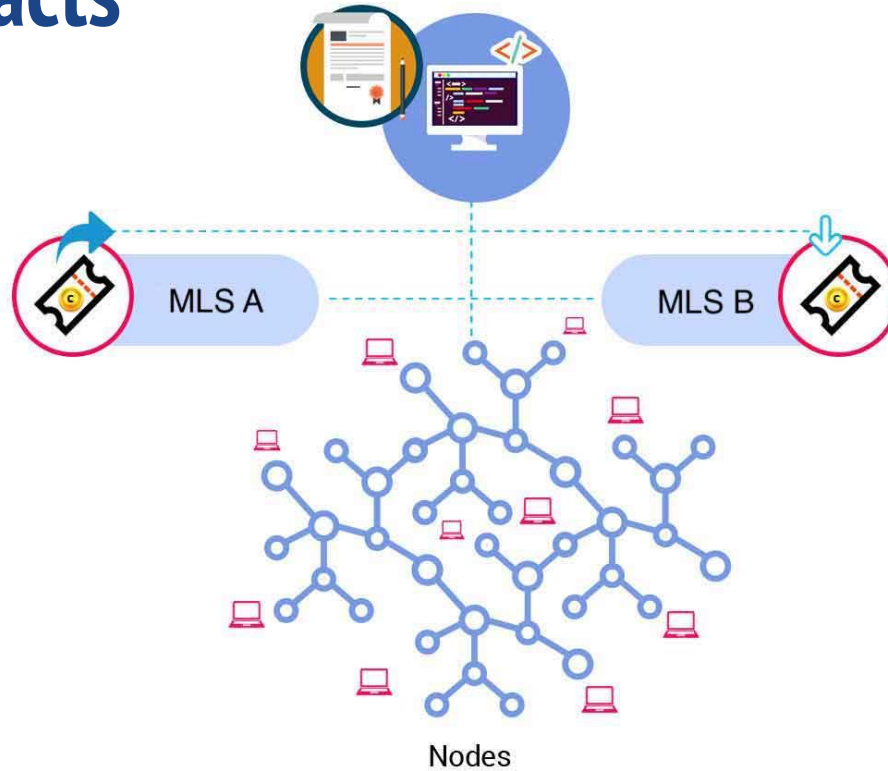


Block Reward

InterPlanetary File System



Smart Contracts



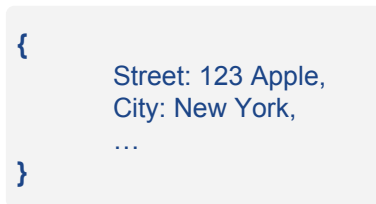
What if

You could develop a protocol for securely storing listings on the blockchain?

Agent, MLS, broker, lister



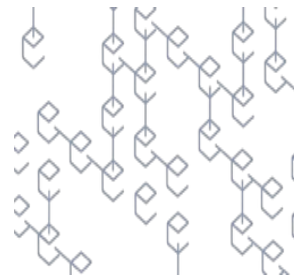
RESO-Compliant listing



Encrypted & Stored on IPFS



Indexed with Ethereum Blockchain



Sounds Complicated!

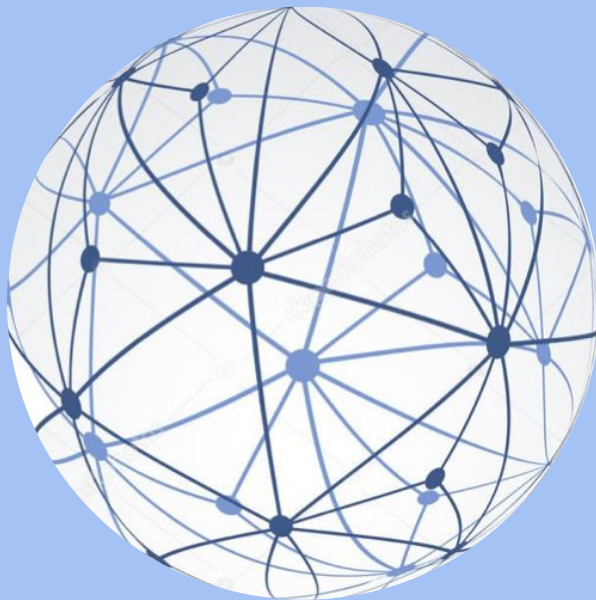
How does this protocol solve anything?

If you combine the protocol with “smart contracts” (discussed earlier), you get some pretty amazing results.

1. Trust => anyone with a listing's decryption key can easily access the listing from any networked device, [without 3rd party dependencies](#).
2. Interoperability => all listings are stored in a [RESO-compliant](#) format, so all parties know what to expect.
3. Incentive to Share => via [lower costs](#), [new monetization tools](#), and [cross-border transactions](#).

It's actually pretty simple

**Any firm, agent, or MLS can now easily share & control access to listings
without giving up control.**



Conclusion

We can combine RESO's Data Dictionary Standard with Decentralized Technologies to achieve industry-wide [Network Interoperability](#).

Two competing entities can freely exchange data [without giving up control](#).

This will provide [more accessible data at a lower cost](#) to consumers, agents, firms, MLSs and third party applications.

This sets up the required technical infrastructure for [global smart real estate transactions](#).