

Shithole Crypto

An overview of Bitcoins and the impending BlockChain disruption

Cal Poly

Winning team HackMit

Worked with Dr. Kerbs

Won award from WA

Economic Commission

Startups

Collaborate with everyone

JPL

Worked with Chief Engineer

Flown to other NASA center

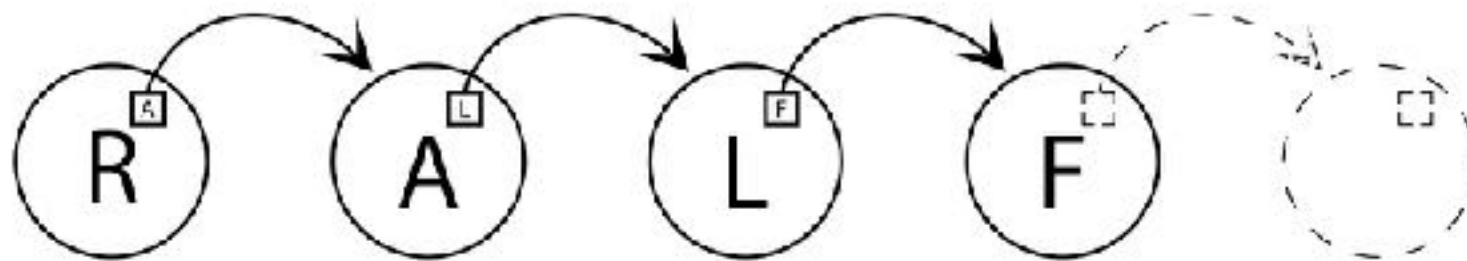
Class B software

Space Agencies Worldwide

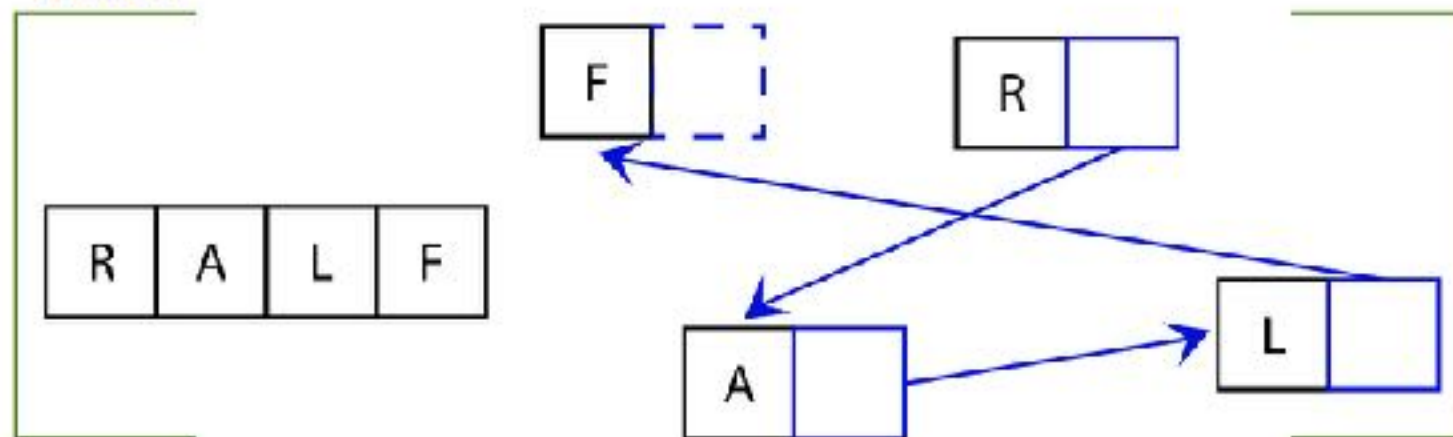
Worked on over 5 Missions

Got an Award and an Intern





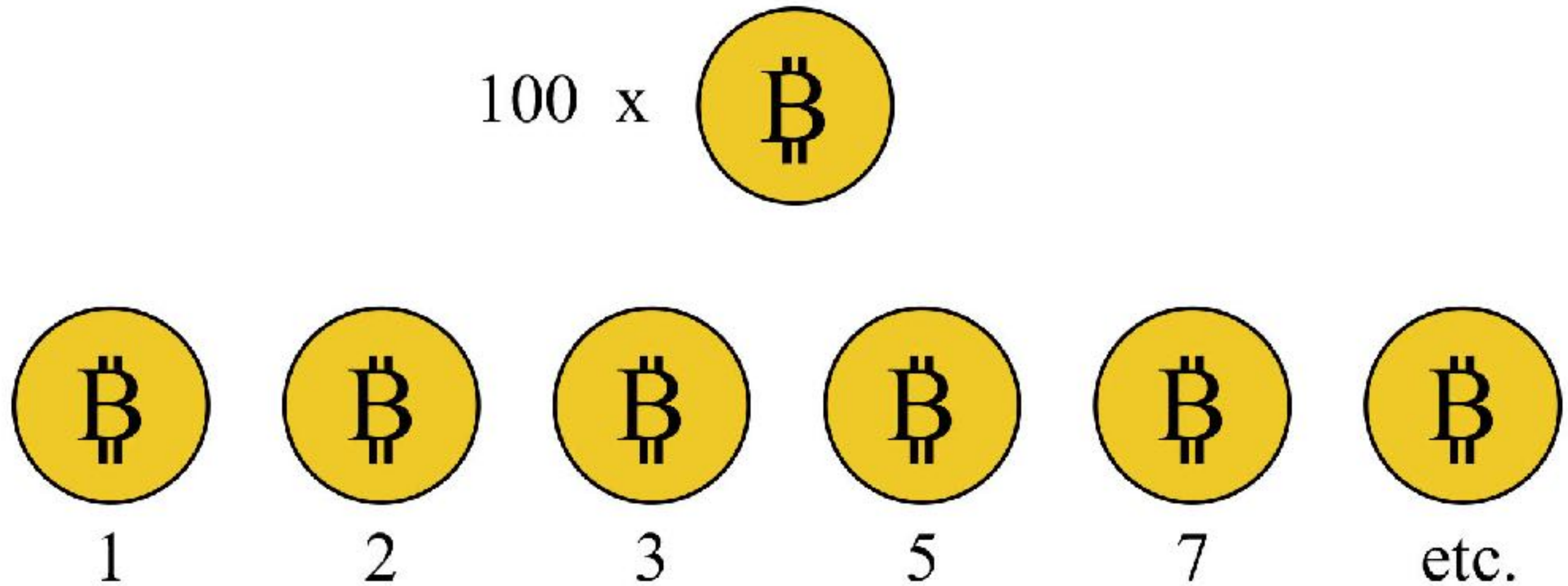
RAM



How Data is Stored

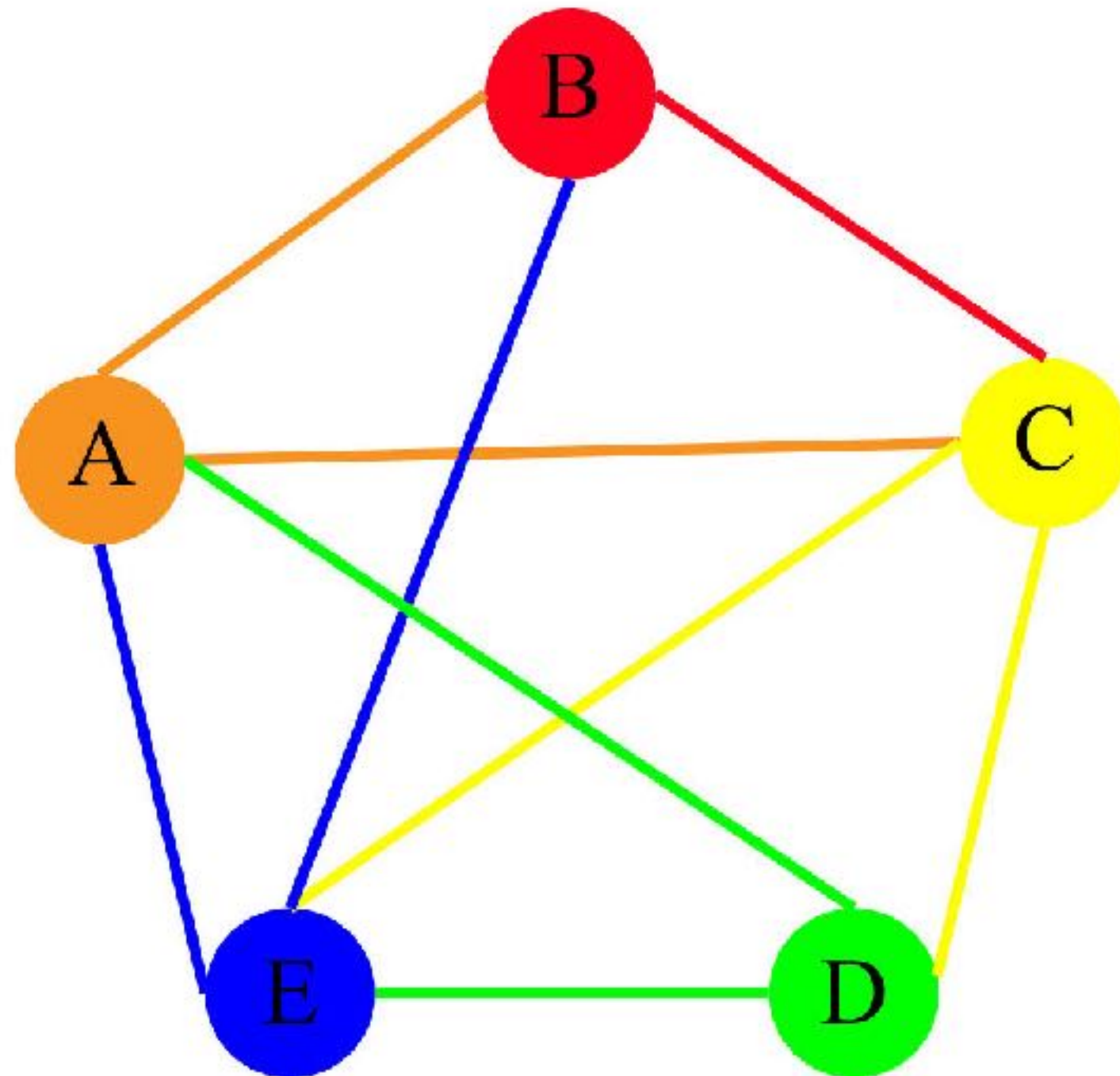
R	A	L	F	+0
S	B	M	G	+1
T	?	?	?	+ $(2 \times 3 - 4)$

Substitution Cipher Example

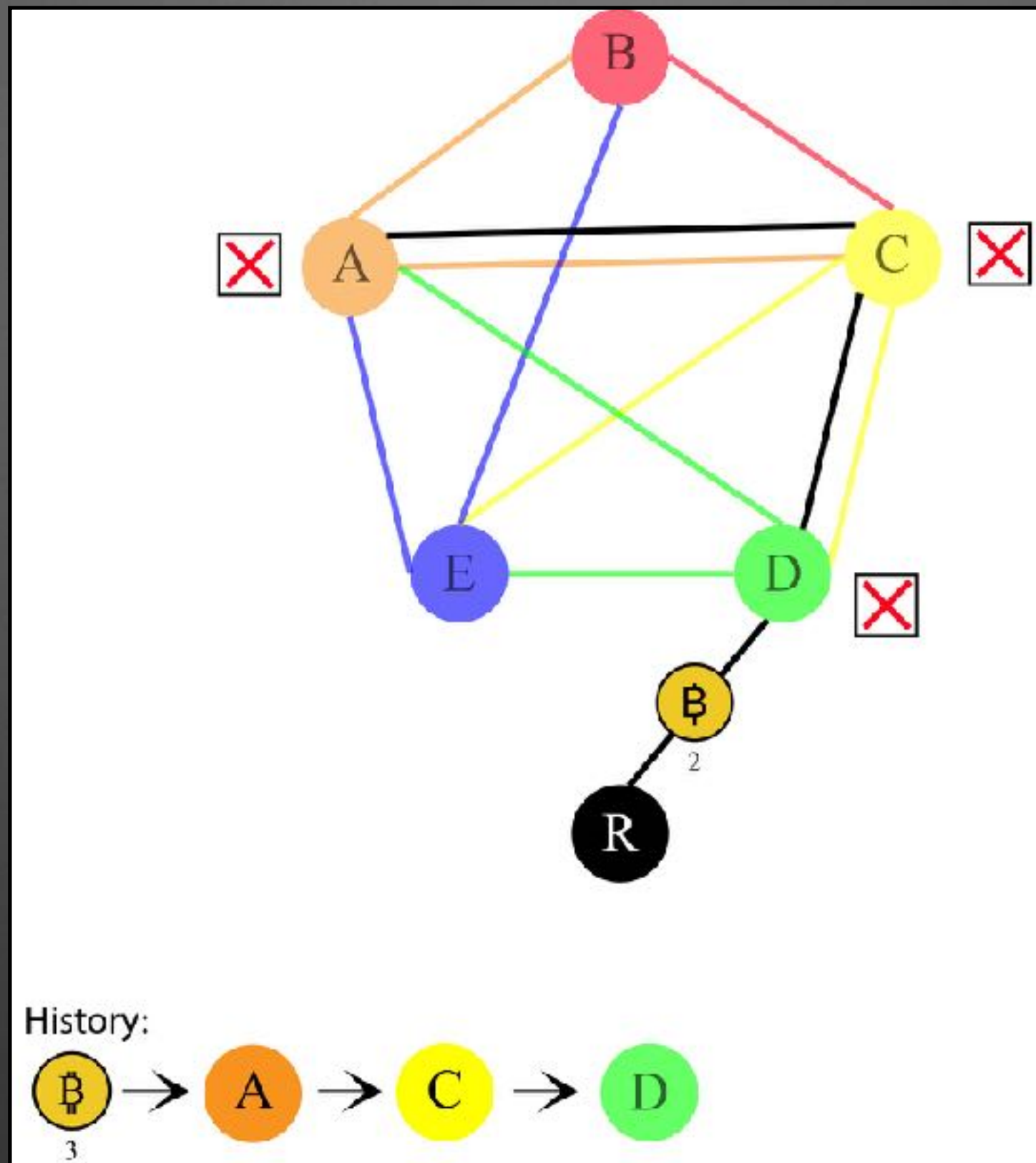


Bitcoins - Finite amount of coins

Each Coin has a unique serial - for our example we are going by prime numbers



BlockChain, A Network of peer to peers who EACH have the same public ledger
Transactions are performed by the group and verified by the group



Node: R trying to trick the BlockChain

1.) by creating next coin, by duplicating existing coin, by saying coin is his

Blockchain

- Finite Set of currency
- Minted at constant rate (inflation protection)
- Built in transfer system (only thing banks really do)
- No main authority, control group (No middle man)
- Redistribution of wealth system (verification system)

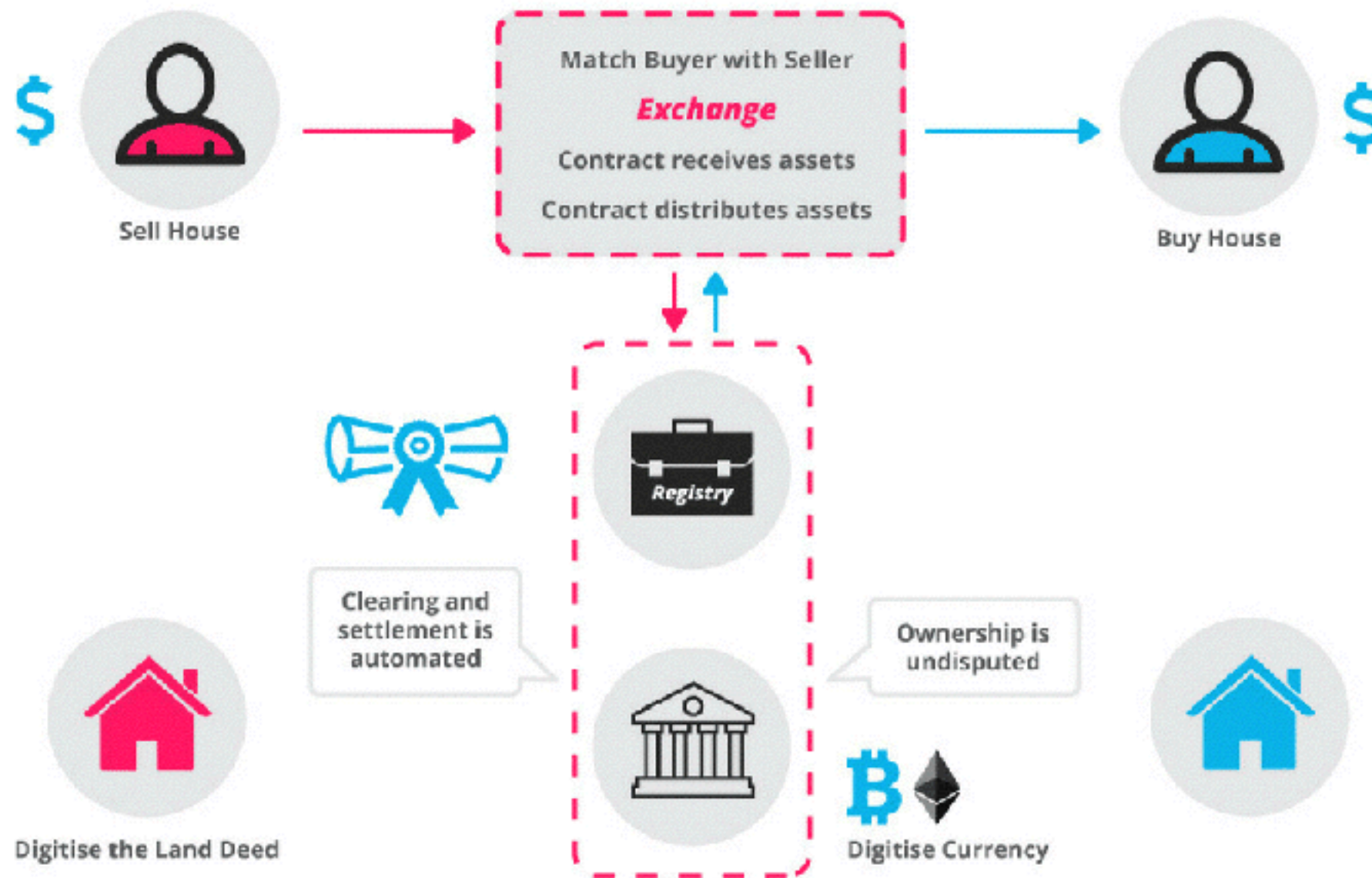
But Why Bitcoins?



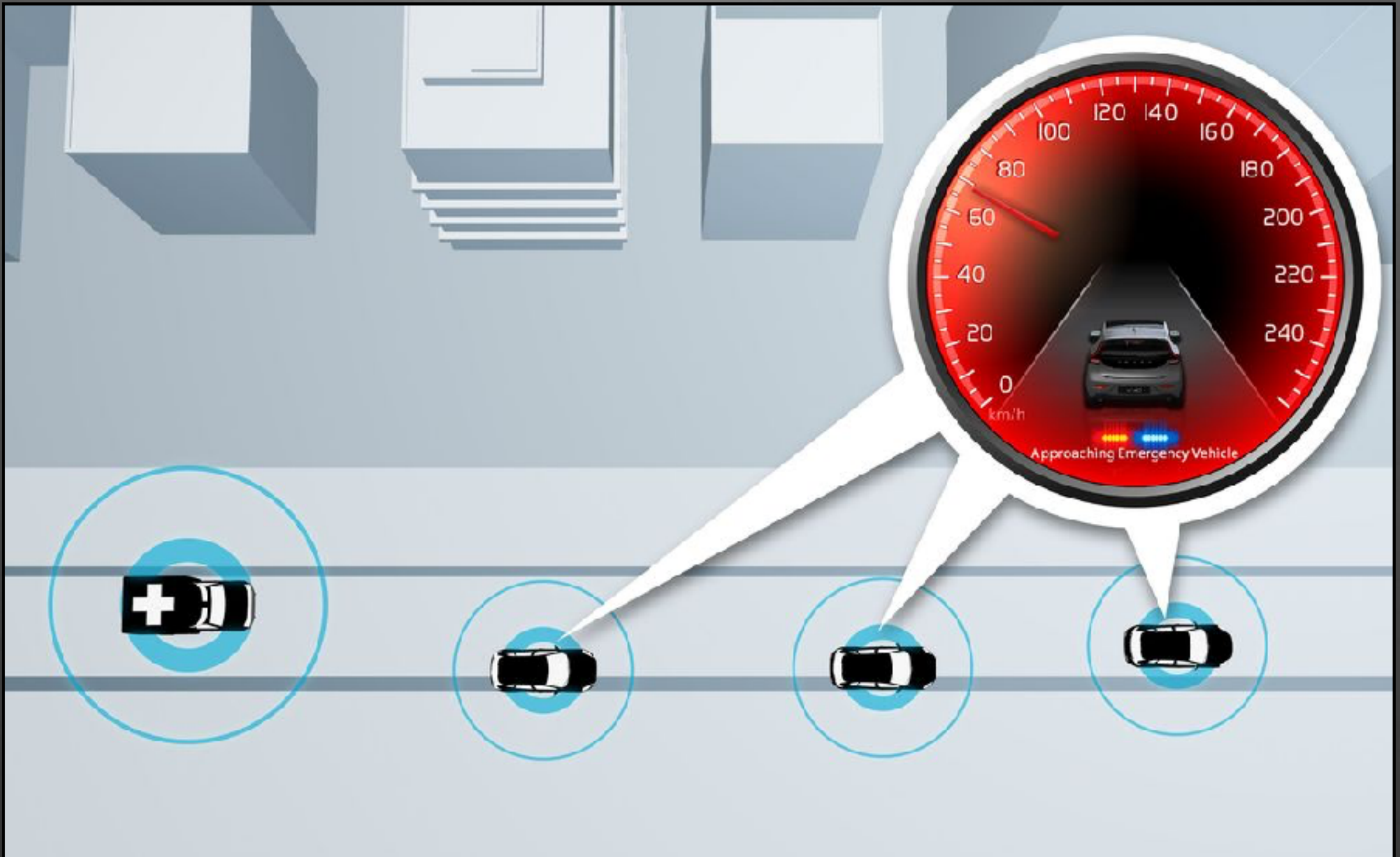
Disruptions

- The Internet -> E-mail, Websites
- Iphone -> App Store, Portable Internet (4G)
- BlockChain -> Automated World, Decentralized Internet, ???

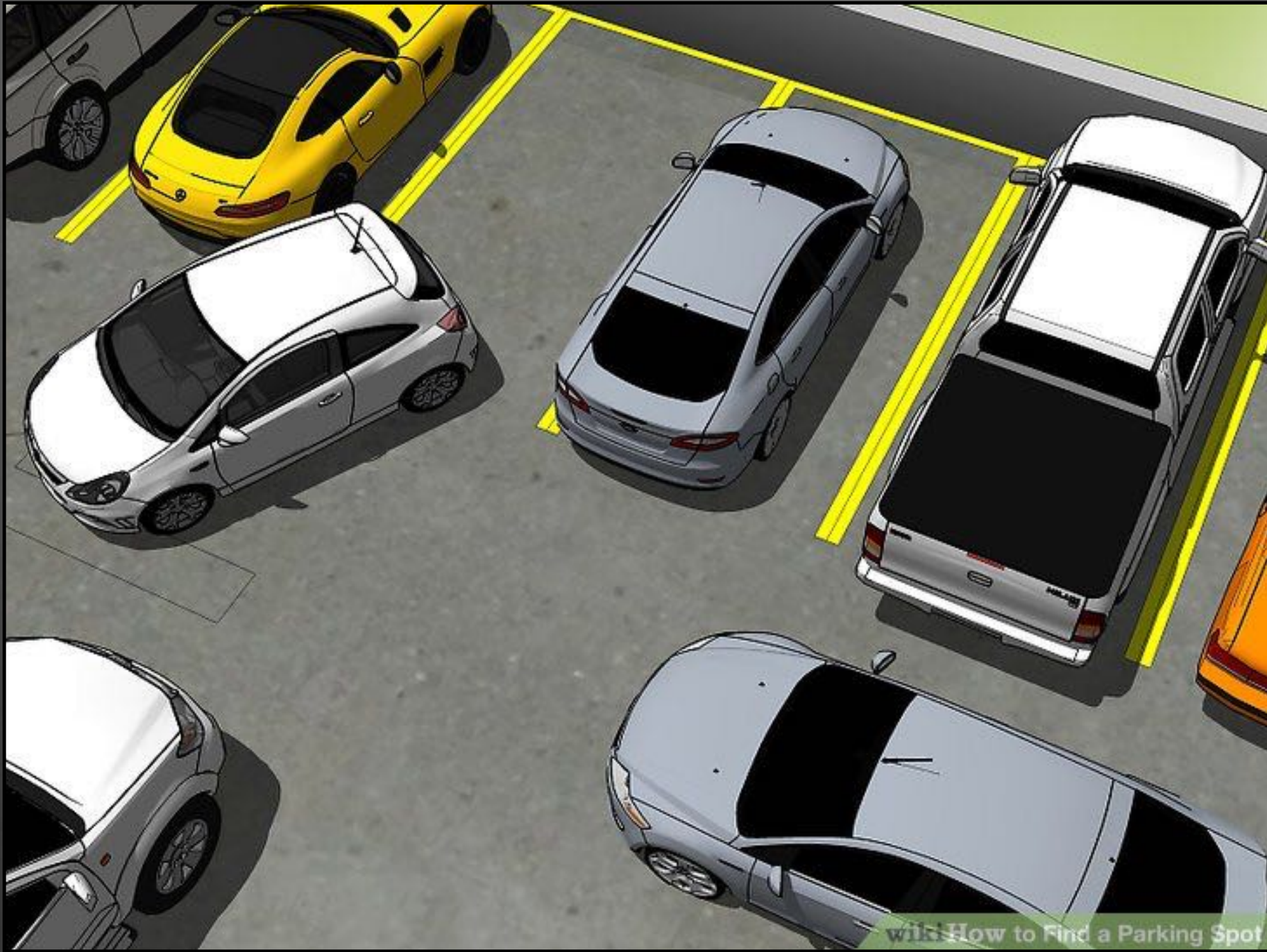
How Smart Contracts Works



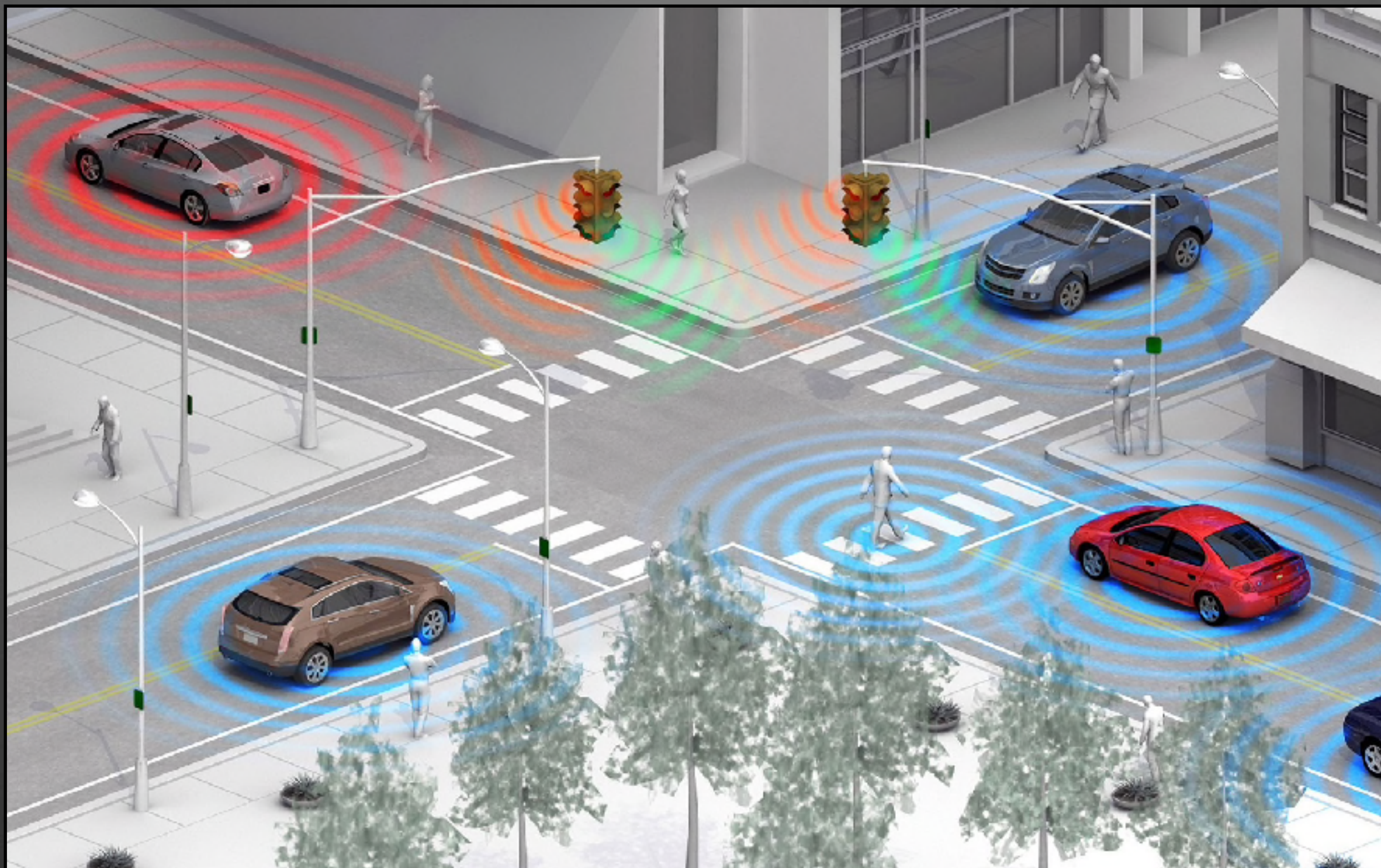
!Smart Contracts!
Don't forget Internet of Things!



Smart Cars
Assist Each Other for Safty



Smart Cars
Tell You About Open Parking Spots



Smart Cars
Smart intersections



Local Networks
Emergency in area without a Network?

How 1,600 People Went Missing from Our Public Lands Without a Trace



Jon Billman

Mar 13, 2017

When 18-year-old Joe Keller vanished from a dude ranch in Colorado's Rio Grande National Forest, he joined the ranks of those missing on public land. No official tally exists, but their numbers are growing. And when an initial search turns up nothing, who'll keep looking?

Local Networks
Solving More Difficult Problems

ERC COLLMOT



Local Networks
Drones Filling the Void!



Military Drones
Future Applications?

QA