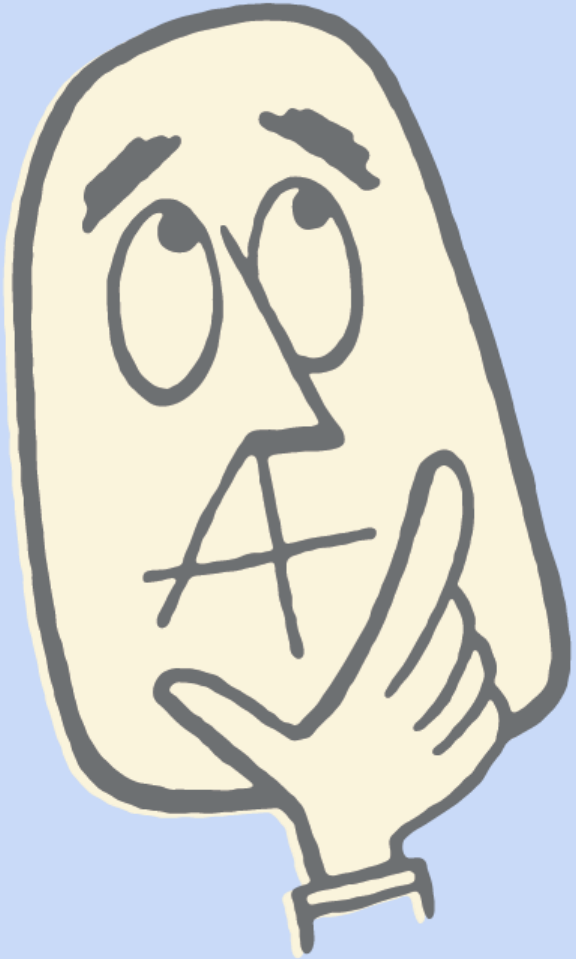


$$\mathcal{L} = \oint E_n t$$

$$\nabla \cdot E = 0 \qquad \nabla \cdot H = 0$$

$$\nabla \times E = -\frac{1}{c}\frac{\partial H}{\partial t} \qquad \nabla \times H = \frac{1}{c}\frac{\partial E}{\partial t}$$

$$f(\omega) = \int_{-\infty}^{\infty} f(x) e^{-2\pi i x \omega} dx \qquad \frac{dt}{d\theta}$$

$$i\hbar \frac{\partial}{\partial t}\Psi = H\Psi$$

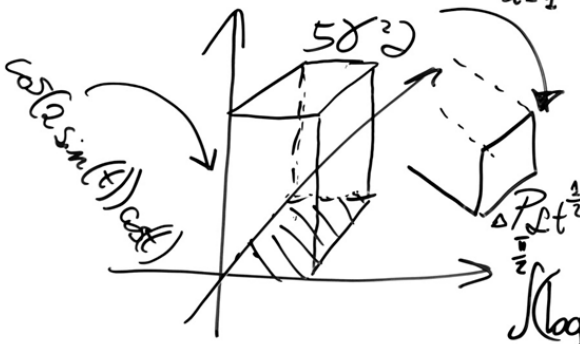
$$\rho\left(\frac{\partial v}{\partial t} + v \cdot \nabla v\right) = -\nabla p + \nabla \cdot T + f$$

$$H = -\sum p(x) \log p(x)$$

$$\frac{1}{2}\sigma^2 S^2 \frac{\partial^2 V}{\partial S^2} + rS\frac{\partial V}{\partial S} + \frac{\partial V}{\partial t} - rV = 0$$

$$+ \sum_{i=1}^{n} \frac{q_i}{2} M_i^M + c_s \frac{D}{Q} + c_0 D + \frac{Q(p-D)}{2p} M^M + F_0 N + F_0 N + \sum_{i=1}^{n} D_i w_i d_i \frac{(1+\alpha)}{F_x^{FTL}}$$

$$TC(Q, q_i, m_i) = \sum_{i=1}^{n} \left[\frac{D_i}{m_i q_i} S_i + c_i^v D_i + \frac{q_i M_i^v}{2}\left(m_i\left(1 - \frac{D_i}{P_i}\right) - 1 + 2\frac{D_i}{P_i}\right)\right] +$$



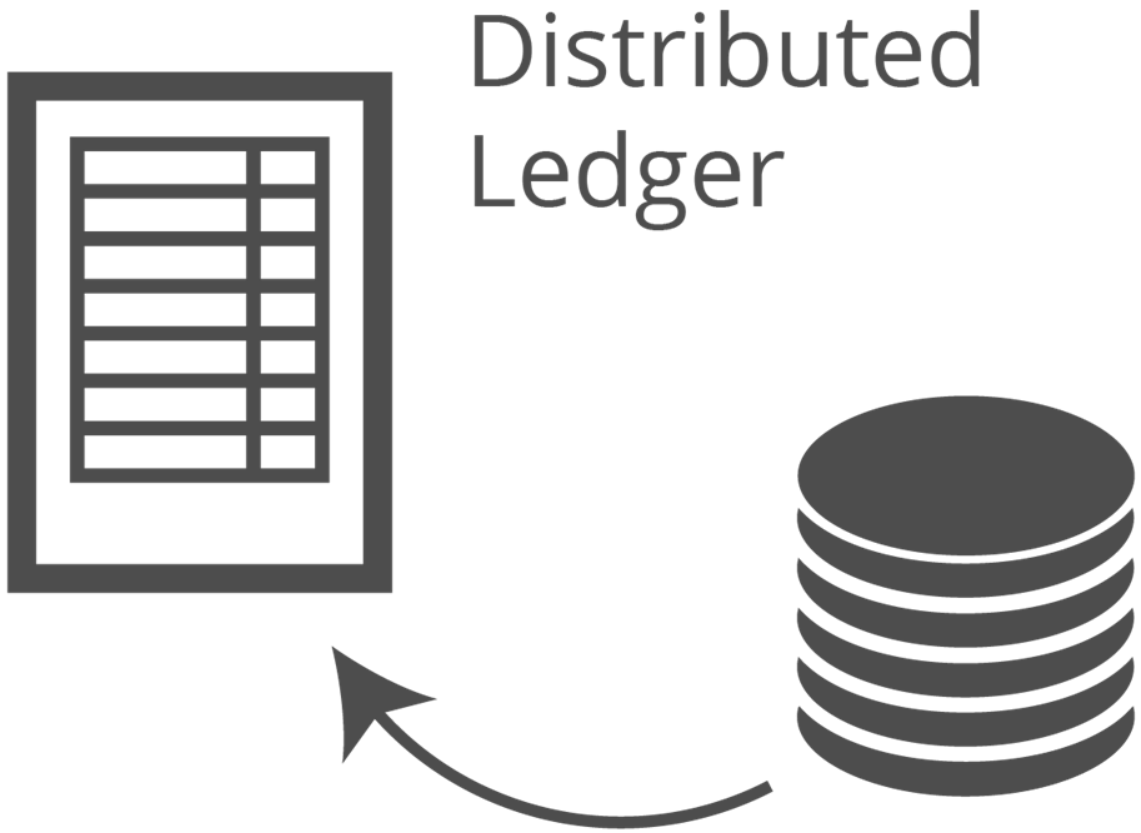

$$\begin{bmatrix} \frac{d\,\Delta p(s,\phi)}{d\phi} \\ \frac{d\,\Delta M(s,\phi)}{d\phi} \end{bmatrix} = \begin{bmatrix} \gamma & -\mathcal{L} \\ -\beta & 0 \end{bmatrix} \begin{bmatrix} \Delta p(s,\phi) \\ \Delta M(s,\phi) \end{bmatrix}$$

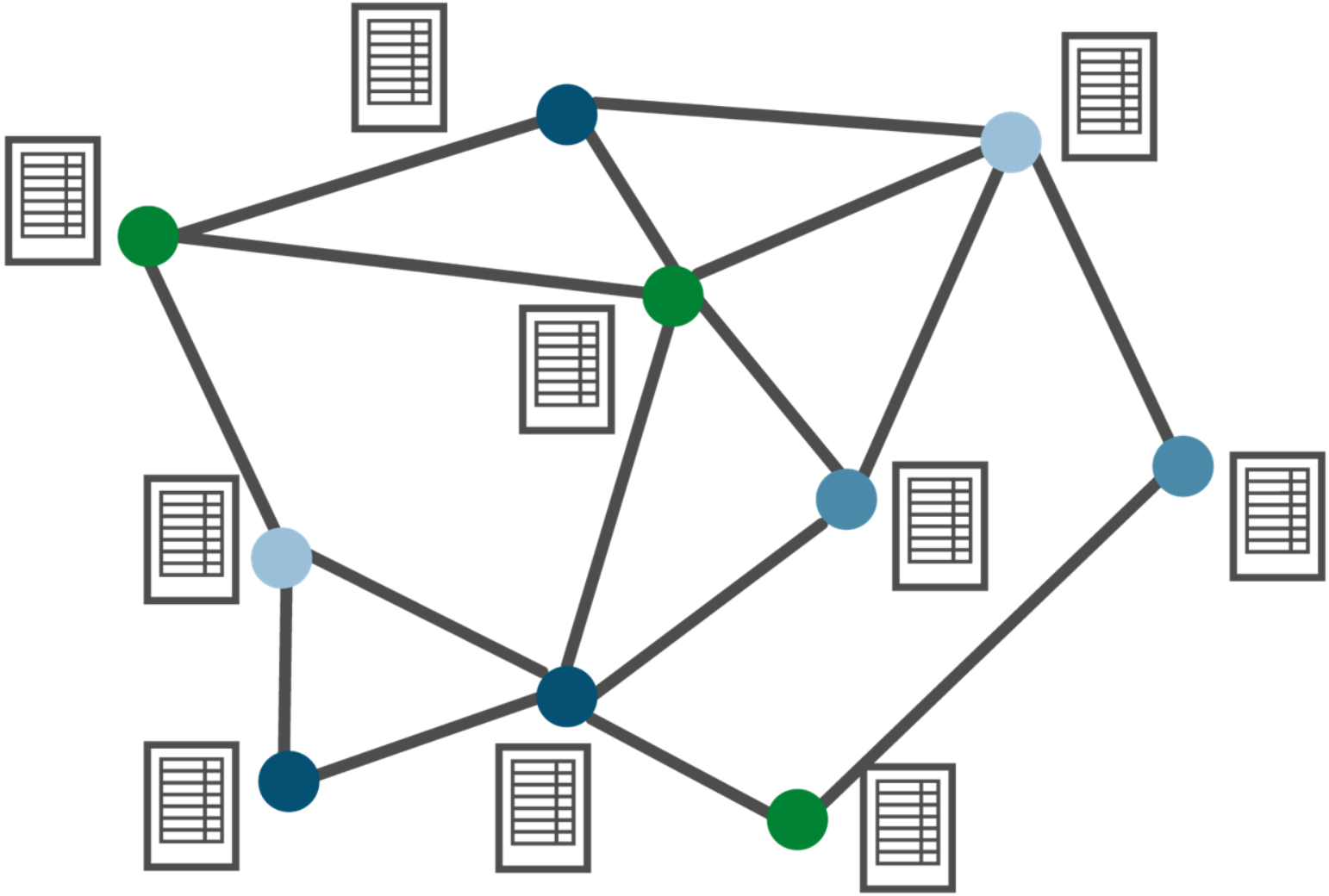
$$\int_0^{\frac{\pi}{2}} (\log \sin x)^2 dx = \int_0^{\frac{\pi}{2}} (\log \cos x)^2 dx = \frac{\pi}{2}\left\{\frac{\pi^2}{12} + (\log 2)^2\right\}$$

# Distributed Ledgers

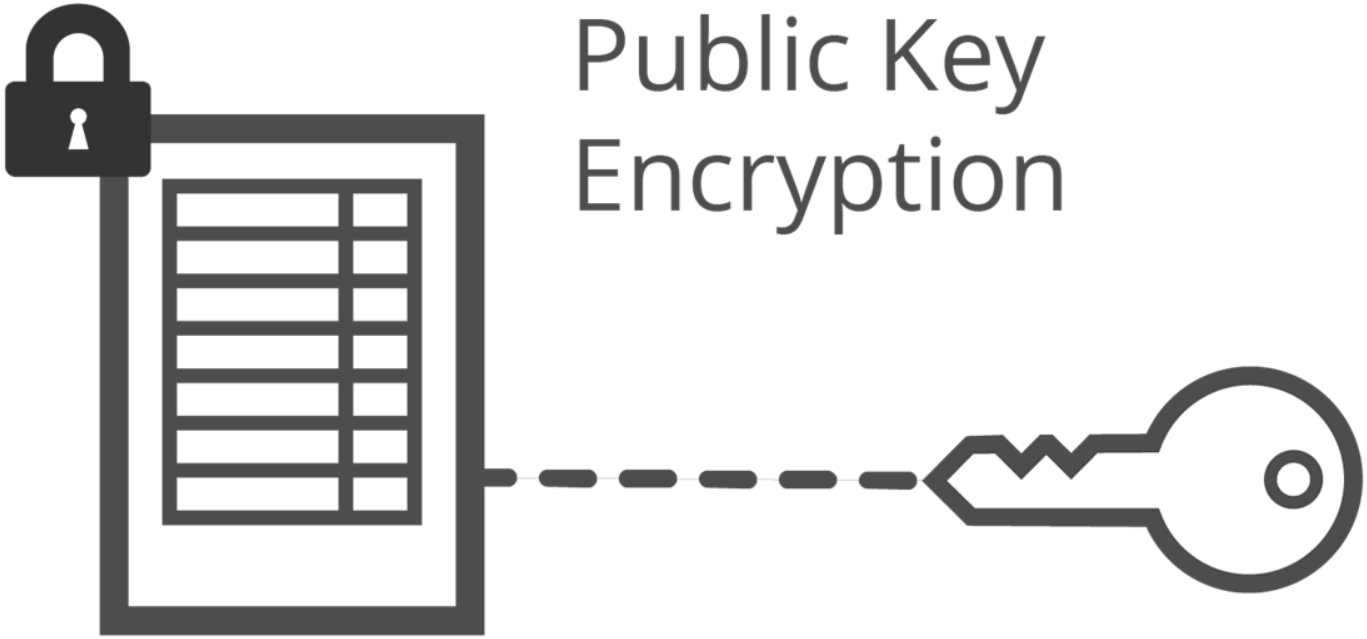
“Distributed ledgers are essential to the next generation of the Internet technology stack.”

- Brian Behlendorf, primary developer of the Apache Web Server

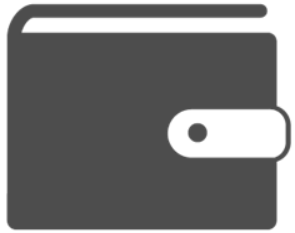

Distributed
Ledger



# Public Key Encryption



# The Data



“This is the distributed trust network that the Internet always needed and never had.”

- Marc Andreessen, co-creator of the Netscape browser

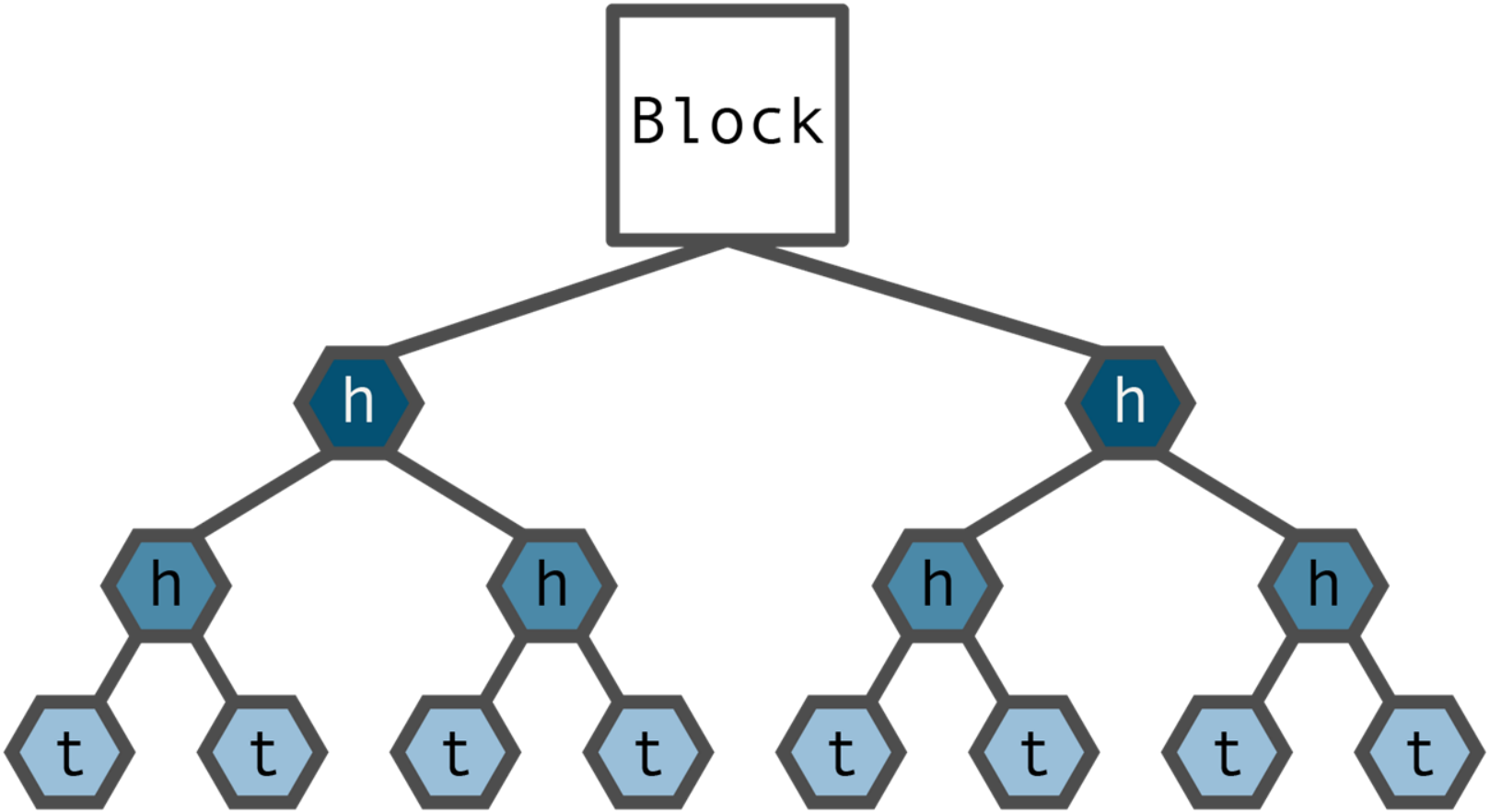
# Other Government Applications

“...They are essentially leapfrogging all the technology and providing a new system for processing these huge amounts of transactions for very small costs.”

- Bill & Melinda Gates Foundation

ING
BARCLAYS
BNY MELLON
SEB
HSBC
MACQUARIE
nab
STATE STREET
CREDIT SUISSE
citi
Bank of America
Deutsche Bank
BBVA
Goldman Sachs
Santander
COMMERZBANK
UBS
WELLS FARGO
RBS
RBC
RBC Royal Bank
CommonwealthBank

# Blockchains
# Make it all Work


Block
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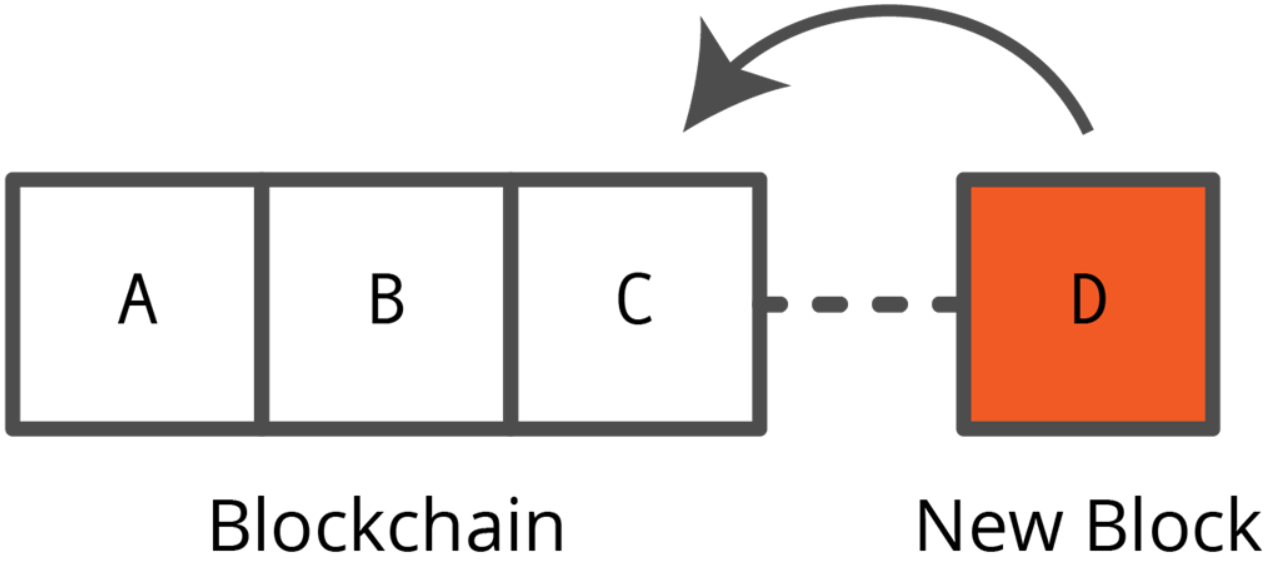
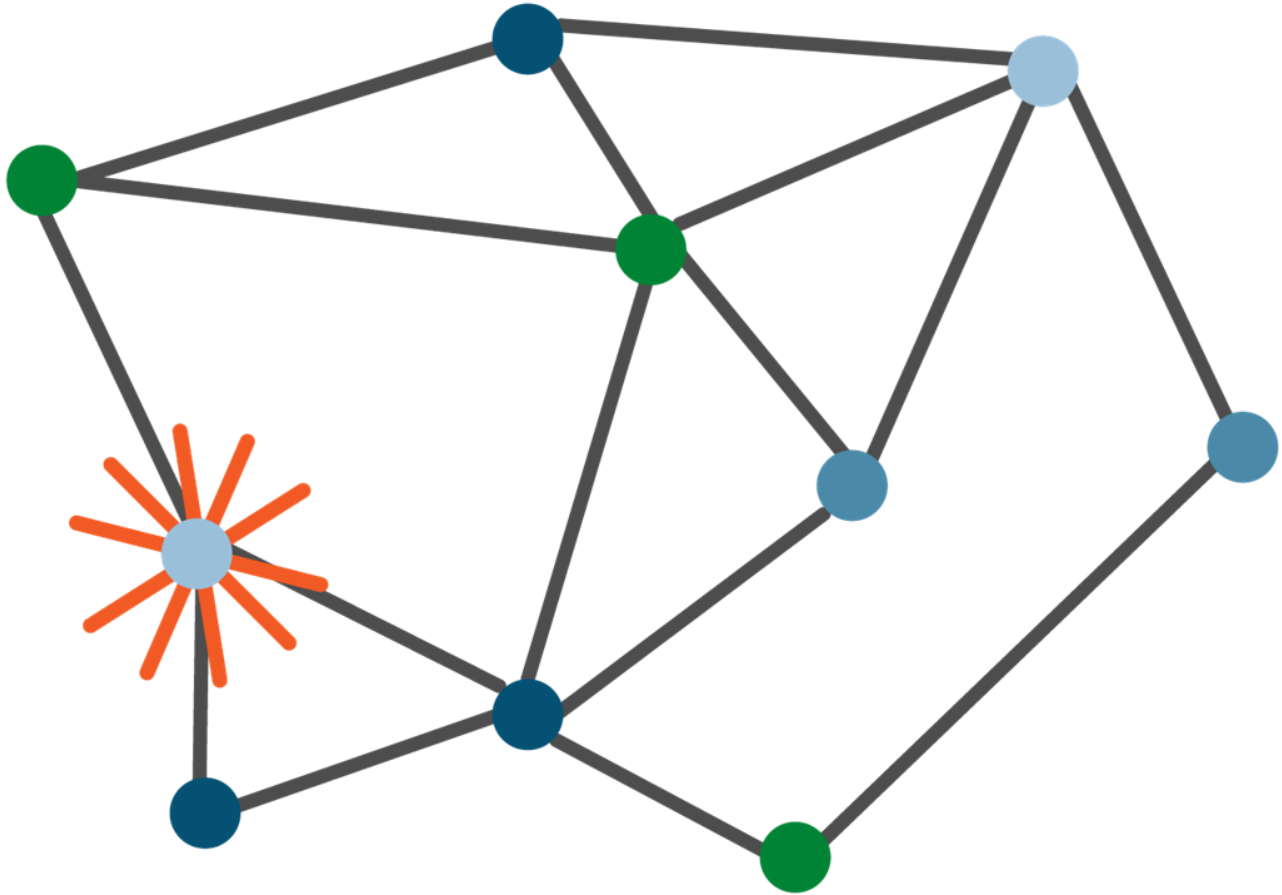
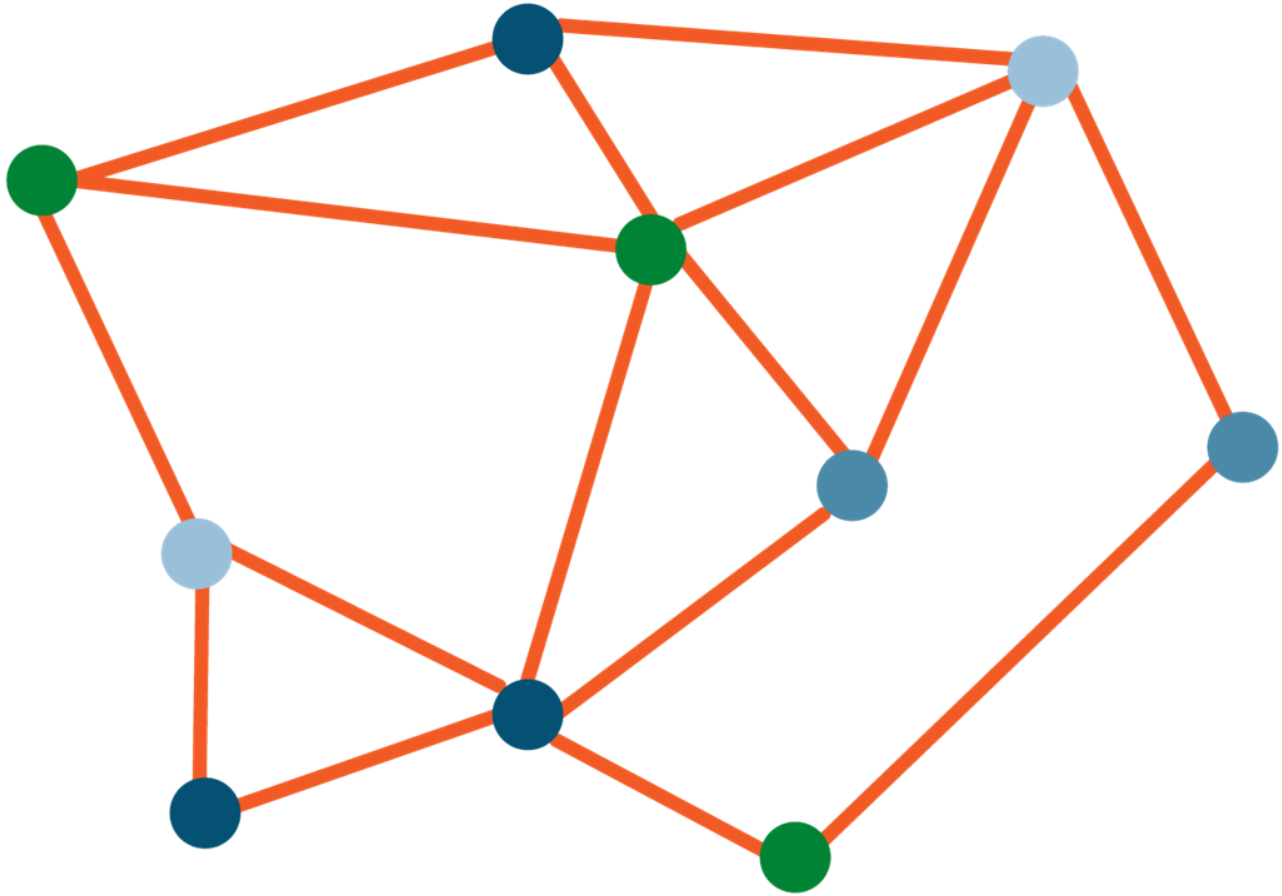
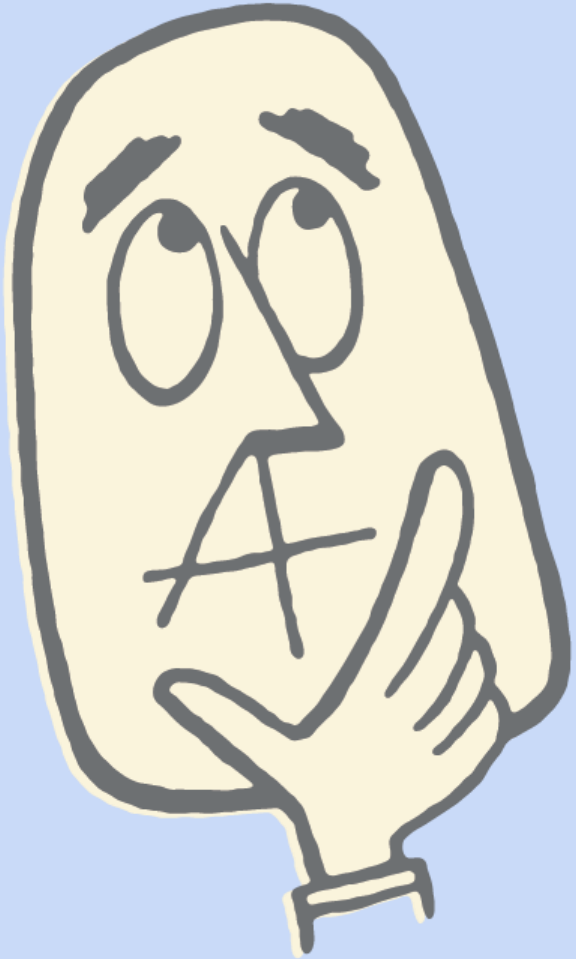

A
B
C
D
Blockchain
New Block





Many
Possibilities



E-ZPass

Good To Go!

PEACH PASS
Keep Moving.

SUN PASS
PREPAID TOLL PROGRAM

EZ TAG

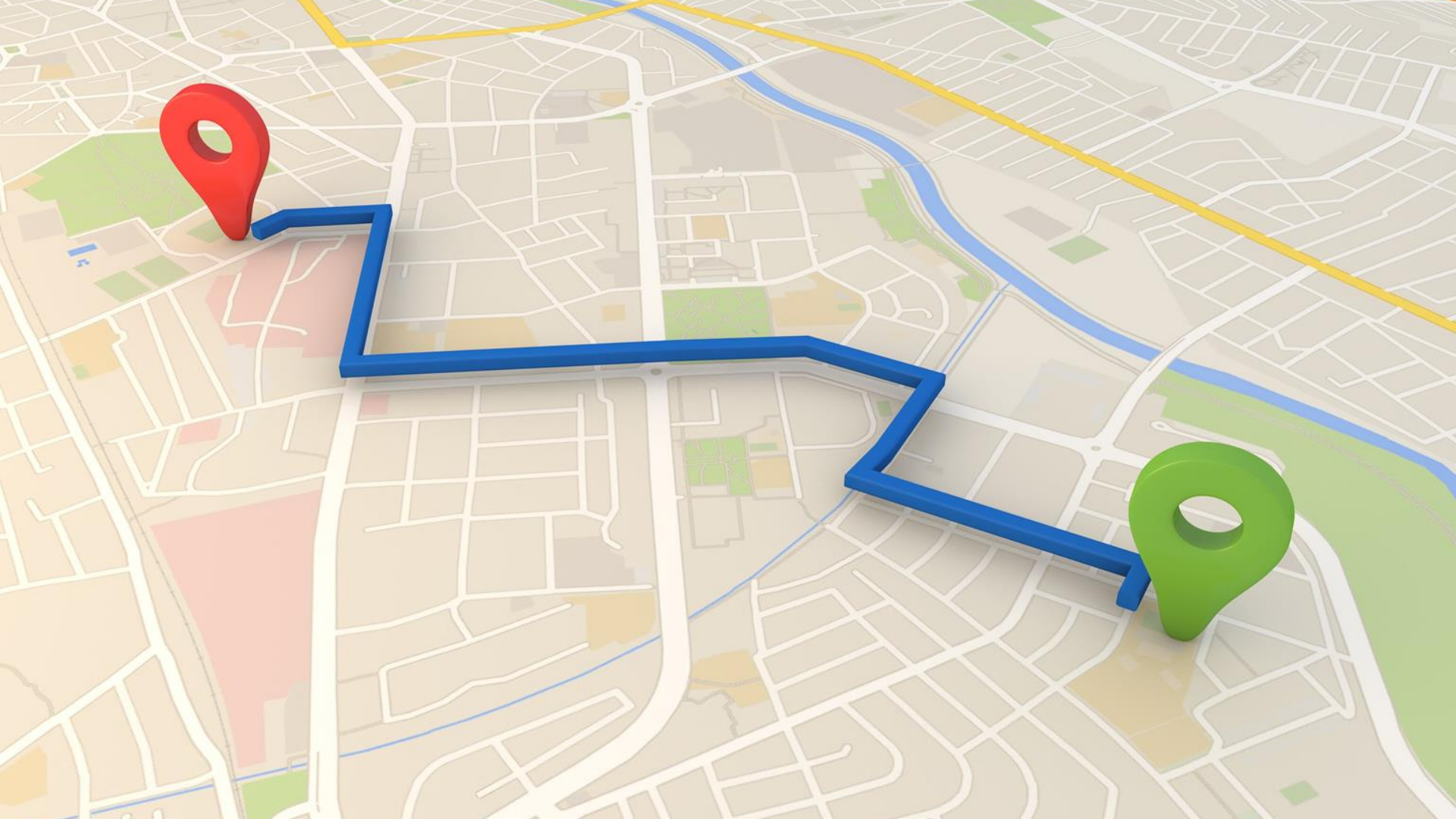
TollTag

TxTag

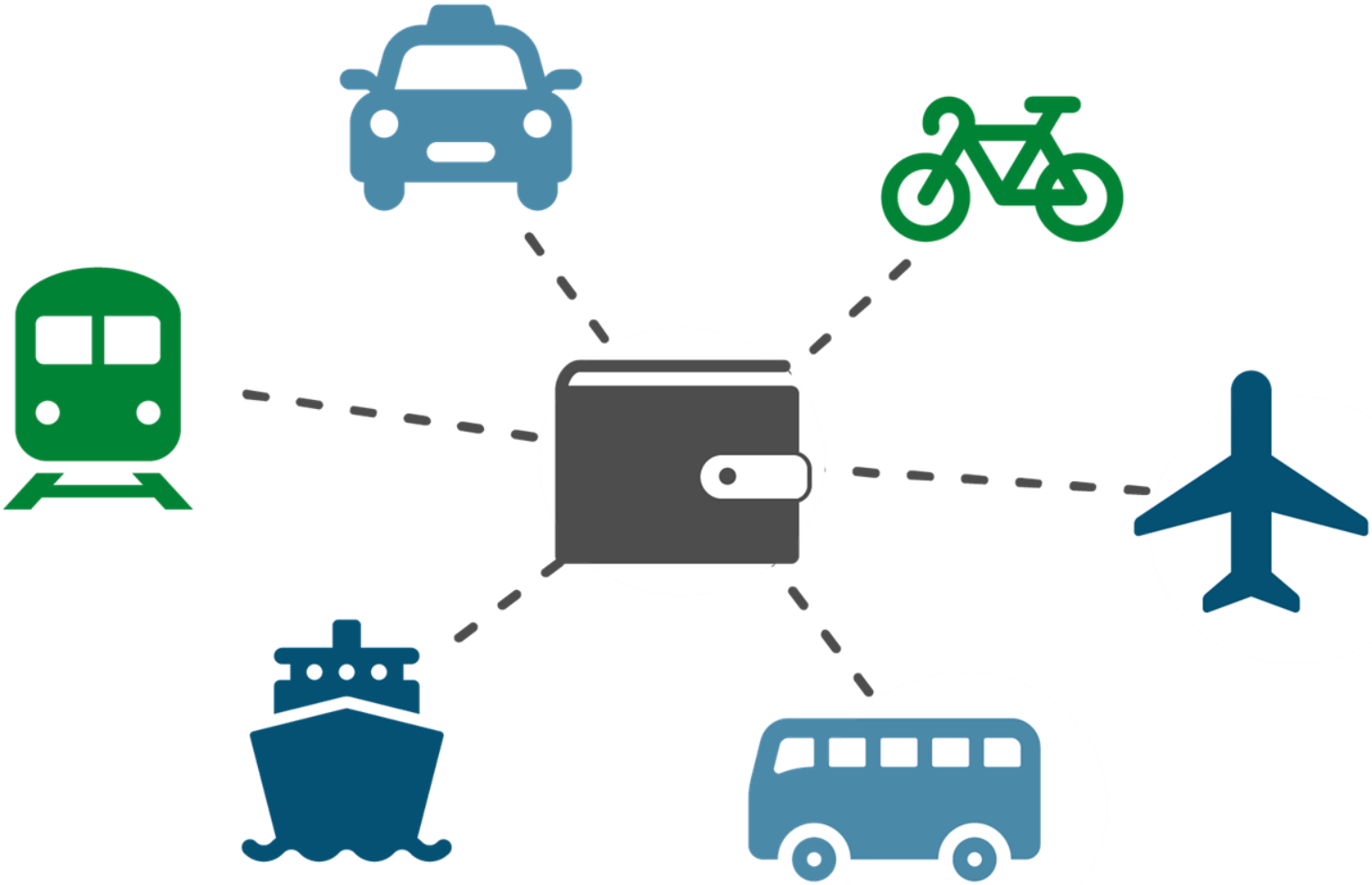
I·PASS

FASTRAK™

5BLS050
238 EAM
PIKE
CHJ483
NEW MEXICO USA
233 LKB
THE LONE STAR STATE
442-KCA
9
COLORADO
05
Louisiana
BPT 556
A
SPORTSMAN'S PARADISE
MAR
First in Flight
RYZ-7064
NORTH CAROLINA
Ski Utah!
293 GMT
GREATEST SNOW ON EARTH
FLORIDA
18D-7152
68 SUNSHINE STATE 69
Maryland
LVE 127
Discover the Spirit
04-07
HHP 880
NORTH DAKOTA
PEACE GARDEN STATE
OCT
VIRGINIA
99
YXC-5611
GEORGIA
...on my mind
303 ENC
FEB
LAURENS
2001
MISSISSIPPI
HYW 080
JAN
JACKSON
98
NOV
OKLAHOMA
98
WBI 983
NATIVE AMERICA
WASHINGTON
5
2001
554-KDR
EVERGREEN STATE
HAWAII
DEC
HDR 726
MISSOURI
490 WRY
05
JUN
Smiling Faces. Beautiful Places.
143 AMH
West Virginia
5J 2984



11:59
PAY ONLINE



# Thank You

# Milligan Partners