



truebit®

Web3 beyond blockchains

GOTO Chicago | May 2023

Welcome to the trustless world.

#Trustless



AI is about to change everything.

#TheSingularity



Other people's **code**.
Other people's **data**.
Other people's **servers**.

#WhosInControl

Trusting third parties: Business risks



Elon Musk pulls access to
Twitter API (2023)



2-hour outage at Stripe costs
customers \$80mm (2019)



Facebook cancels Farmville
contract, putting 80% of Zynga's
revenue at risk (2012)

Trusting third parties: Security risks

THE CURRENT STATE
OF PRACTICE IN
SOFTWARE SUPPLY
CHAIN SECURITY
LACKS SYSTEMATIC
INTEGRITY.

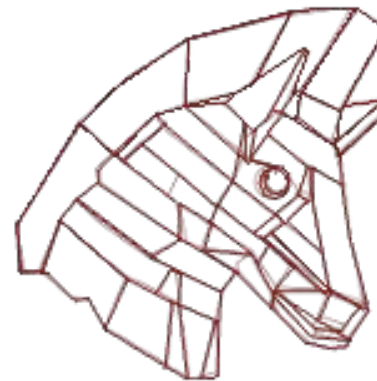
MITRE

solarwinds 

 Avast

ASUS[®]

npm



MACHINE LEARNING SEC

- > AI Poisoning
- > Leaking of PII in Large Language Models
- > Decentralized Machine Learning Security
- > Inference Attacks

IEEE SECURITY & PRIVACY
SYMPOSIUM 2023



Traditional security approach can't keep up.

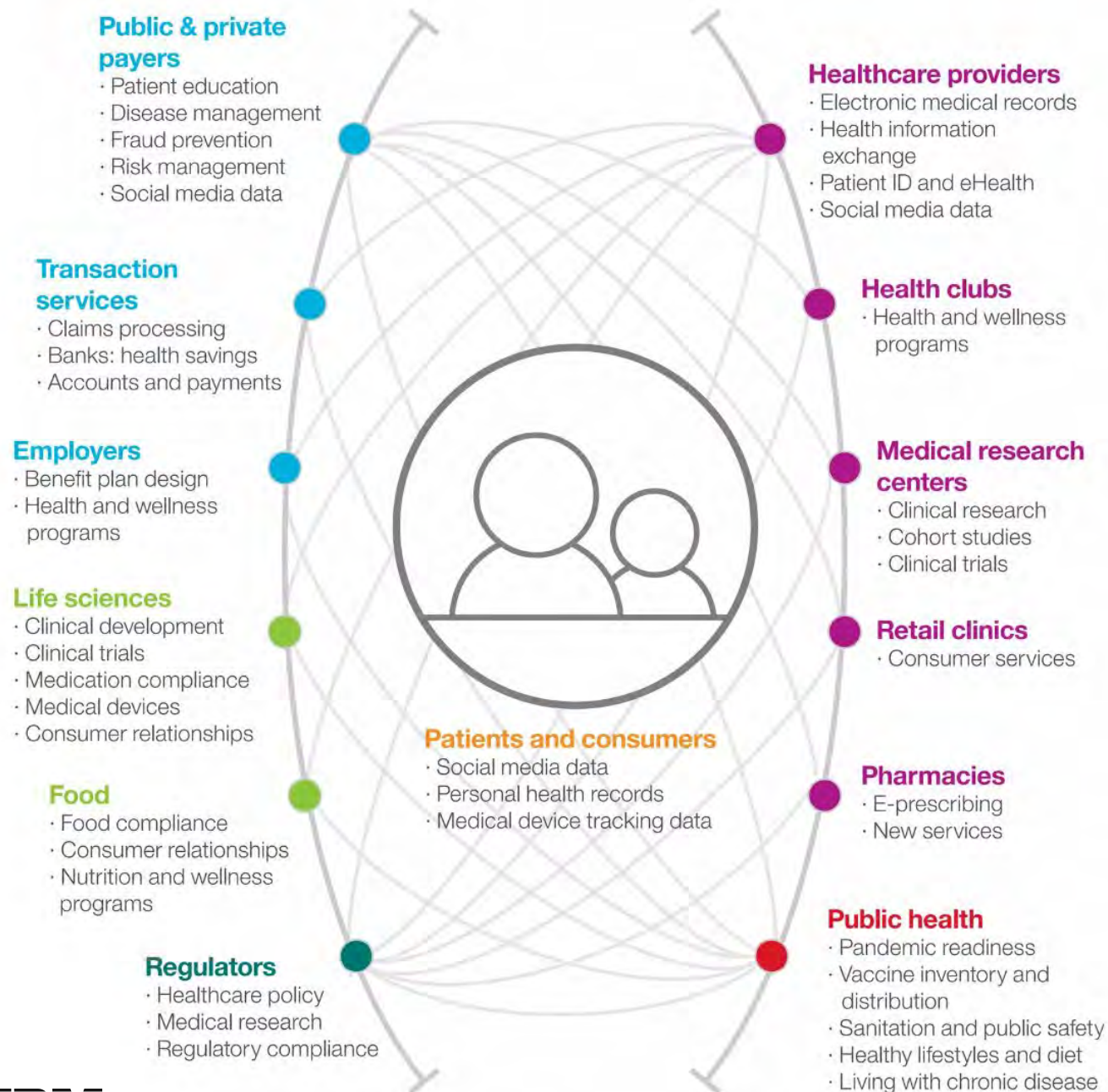
#NewPlaybook



Within the next 5 years,
80% of enterprises will leverage
industry ecosystems built on
decentralized code, data & compute

#NotMyAlgorithm

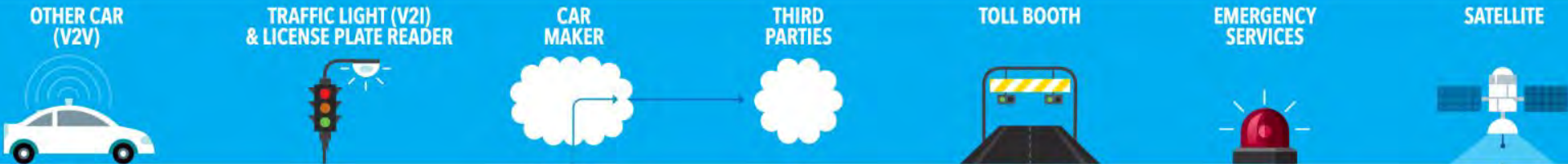
Smart Healthcare Ecosystem



Connected Car Ecosystem

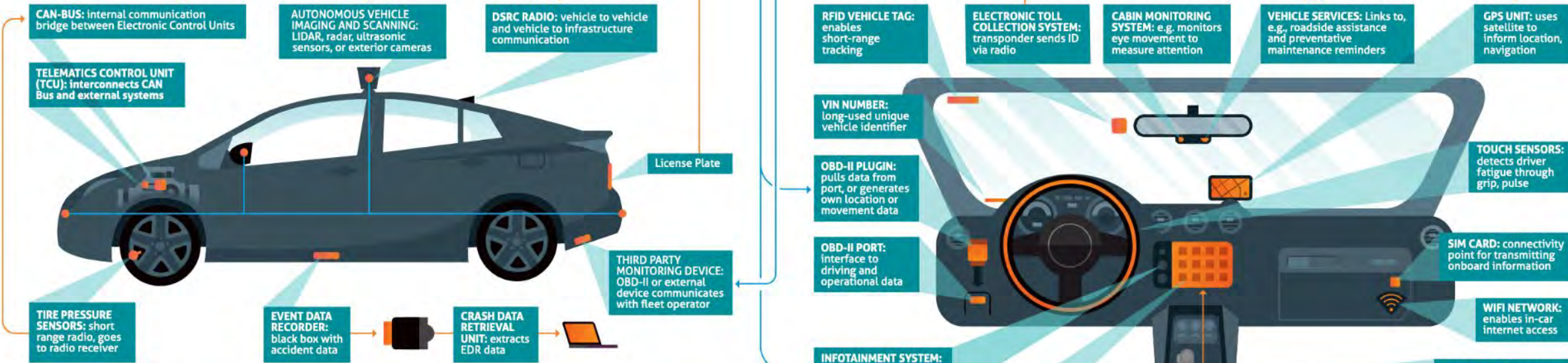
DATA RECEIVERS

A growing number of entities receive and transmit data through the connected vehicle ecosystem



WIRELESS CONNECTIVITY

- CELLULAR
- NON-CELLULAR
 - BLUETOOTH
 - WIFI
 - DSRC RADIO
 - SATELLITE/GPS
 - SHORT RANGE RADIO
 - SHORT RANGE RADAR

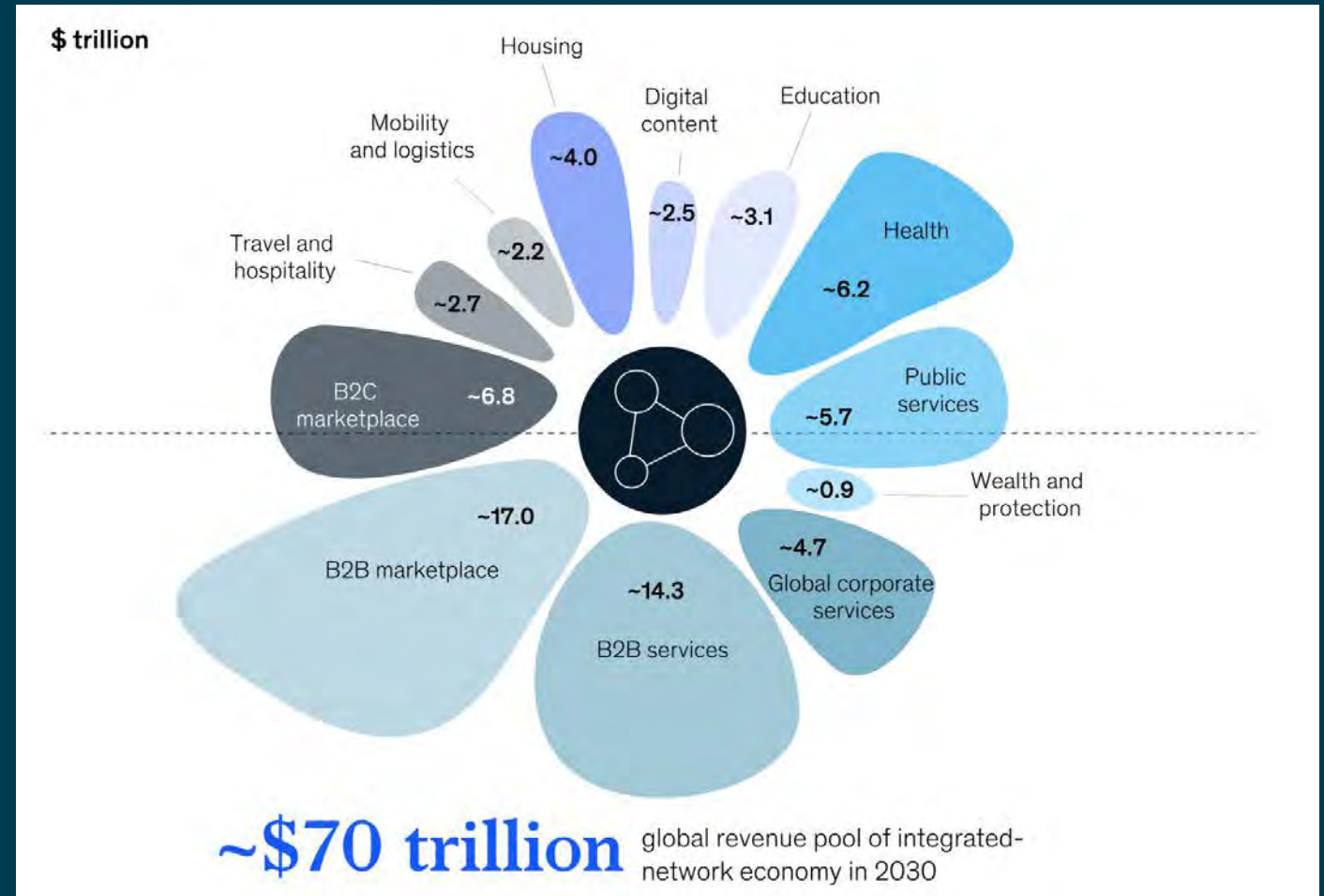


TYPES OF DATA



McKinsey
& Company

Industry ecosystems are about delivering integrated customer experiences



A person is captured mid-jump, leaping from a dark rock formation on the left towards the right. The background is a clear, light blue sky. The person's arms are outstretched, and their legs are in a jumping position. The overall scene conveys a sense of risk, freedom, and overcoming challenges.

Web3 provides the framework to build trust in code you don't control.

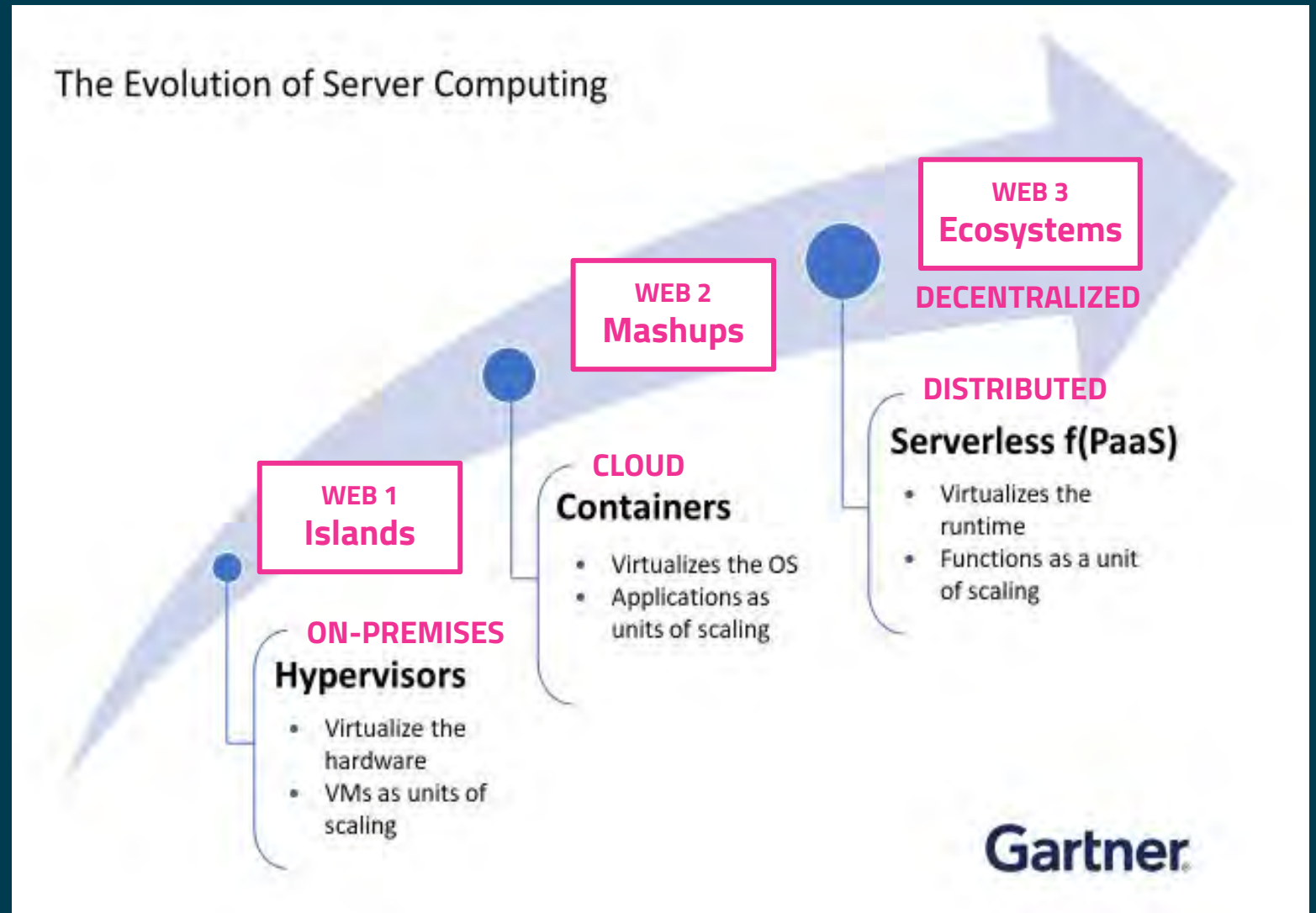
#MineYoursOurs

A gold coin is centered in the image, resting on a surface of blue, translucent, crystalline material. The coin features a stylized cat face in the center, with the word 'WOW' printed below it. The coin's edge is inscribed with the text 'currenty now much coin how money so cryp' at the top and 'to pliz mine v rich' at the bottom. A semi-transparent dark blue horizontal band spans the middle of the image, serving as a background for the text.

Wait, what? I thought Web3 meant ...

#MoreThanBlockchains

Web3 through the lens of compute



Source: Gartner, 2017 (G00325432)

Web3: Building Blocks for Decentralization



Shared
Governance



Trustless
Consensus



Verified
Compute



Distributed
Events



Independent
Economics



Cryptographic
Identity



Immutable
Records

Truebit: Trust through verification.

Verified
code

Verified
data

Verified
compute



Data Traceability
Compute for Shared Applications
Blockchain Integration & Interoperability