

# WEB 4.X



Your Data, Your Identity & Your Software  
Under Your Total Control

# What Web 4.x actually is.

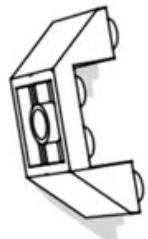
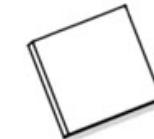
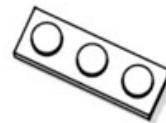
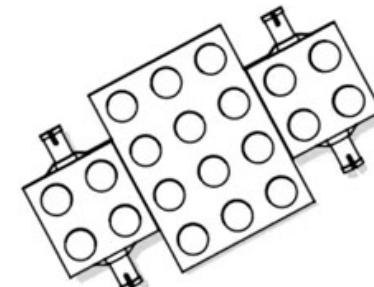
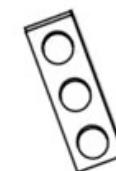
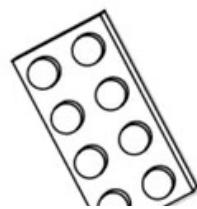
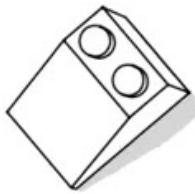
Programming in which:



**Web Information** (Data)

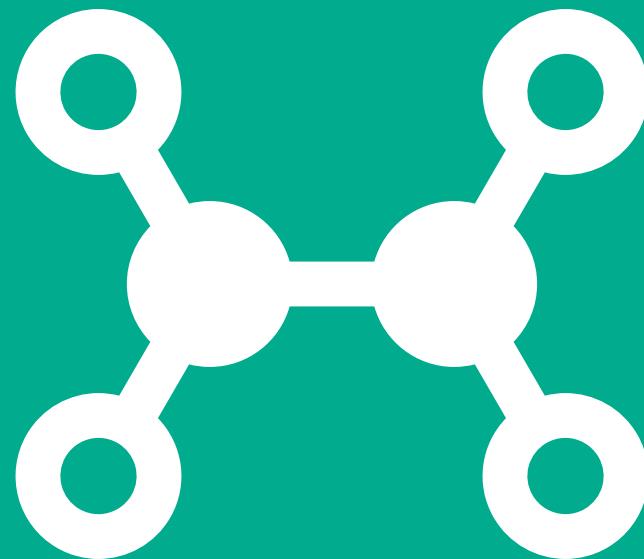


**Web Objects** (Carriers of Data)



# Web 4.x is a real thing.

A distributed network of



fully secure,  
autonomous &  
interoperable  
web objects



# Web 4.x has a deep history.



**ARPANET/SmallTalk**  
(1969)



**HyperText Transfer Protocol**  
(1989)

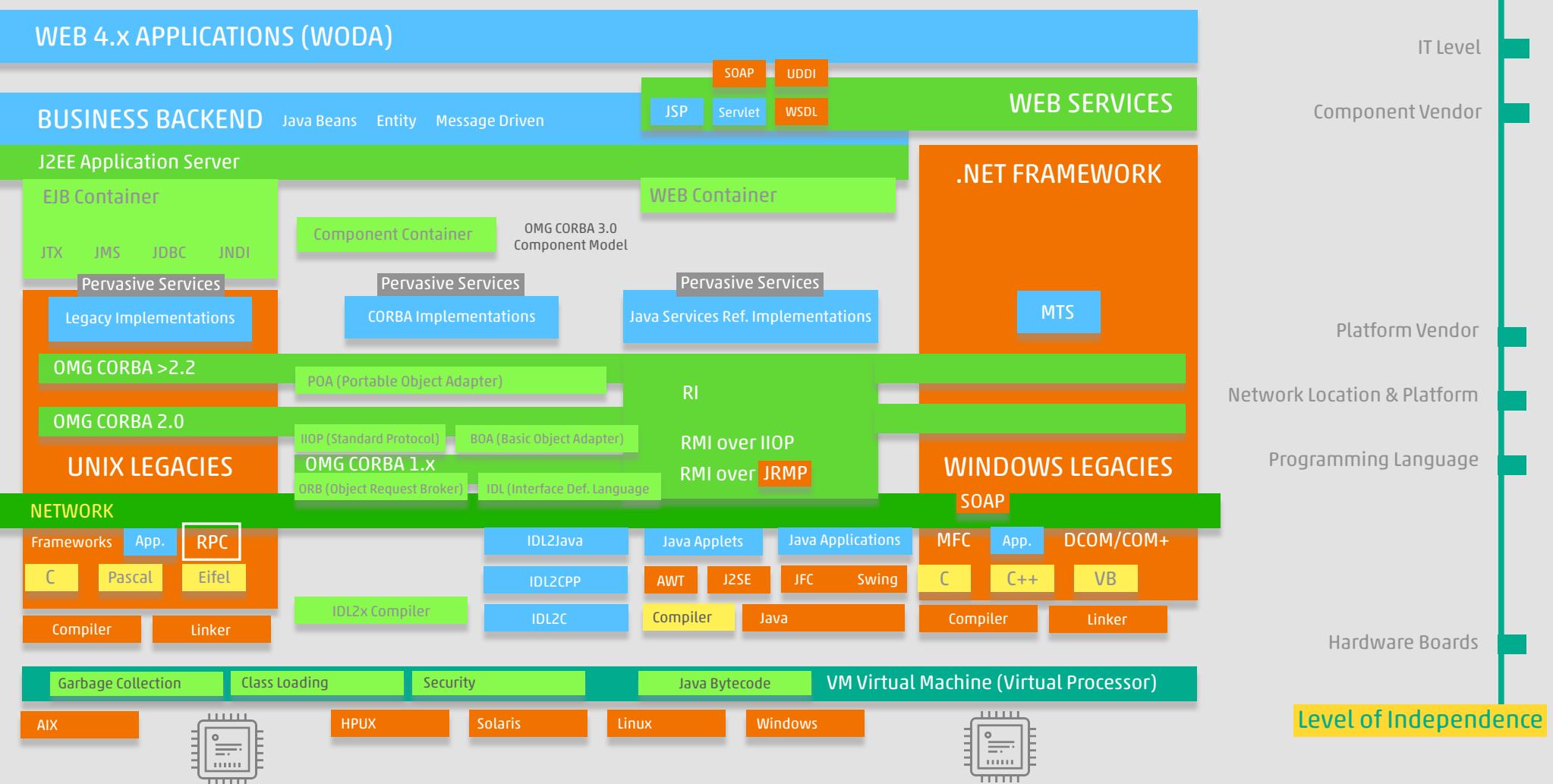


**Internet of Services**  
(early 2000s)



**Web 4.x Infrastructure**  
(2019-today)

# How technology infrastructure actually stacks up on the InterWebs.



# Web 4.x is about self-ownership.



**WEB 1.0 & 2.0**

**“My Data, My Identity & My Software Don’t Really Exist”**



**WEB 3.0**

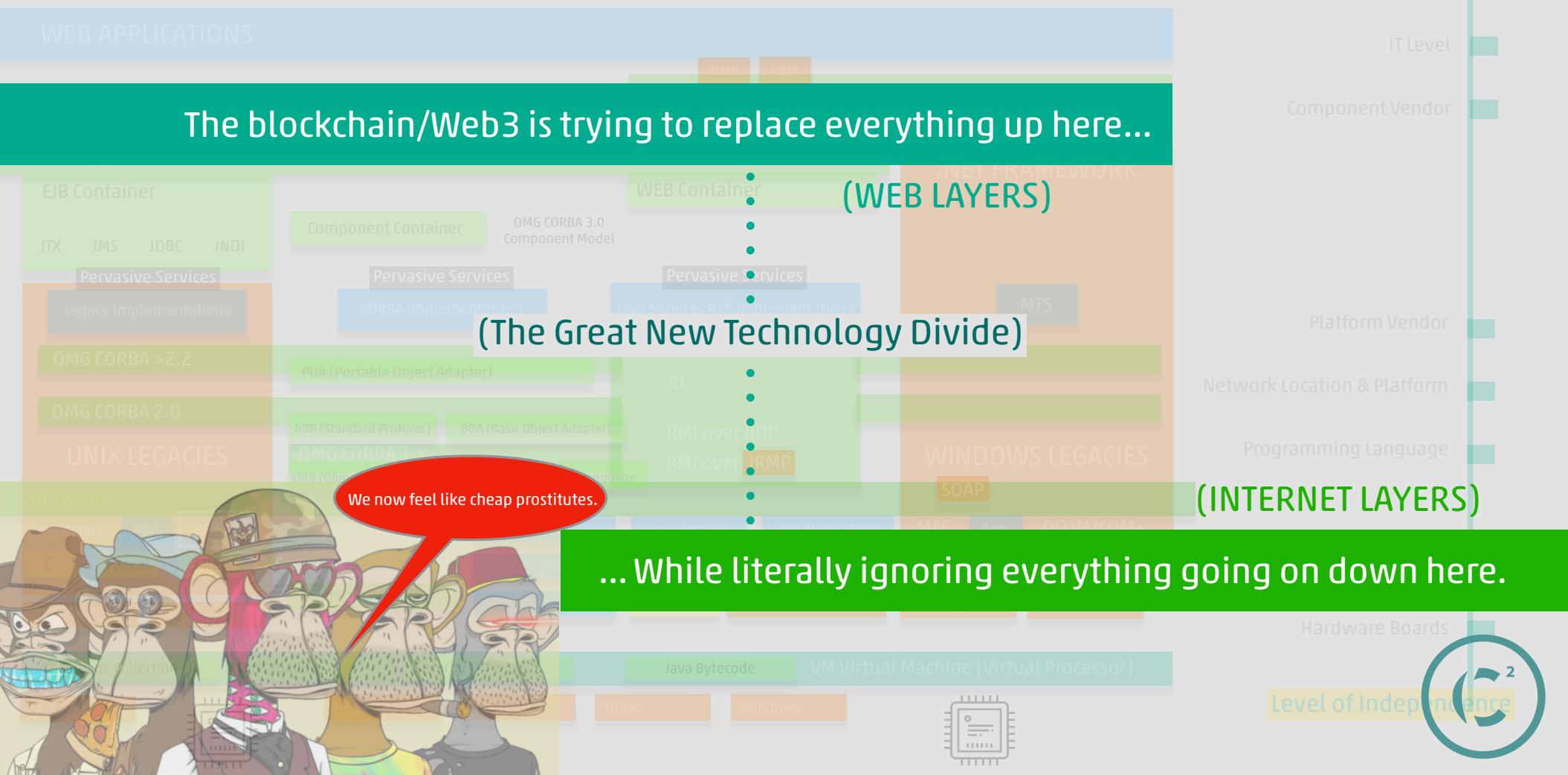
**“My Data, My Identity & My Software under Someone Else’s Control”**



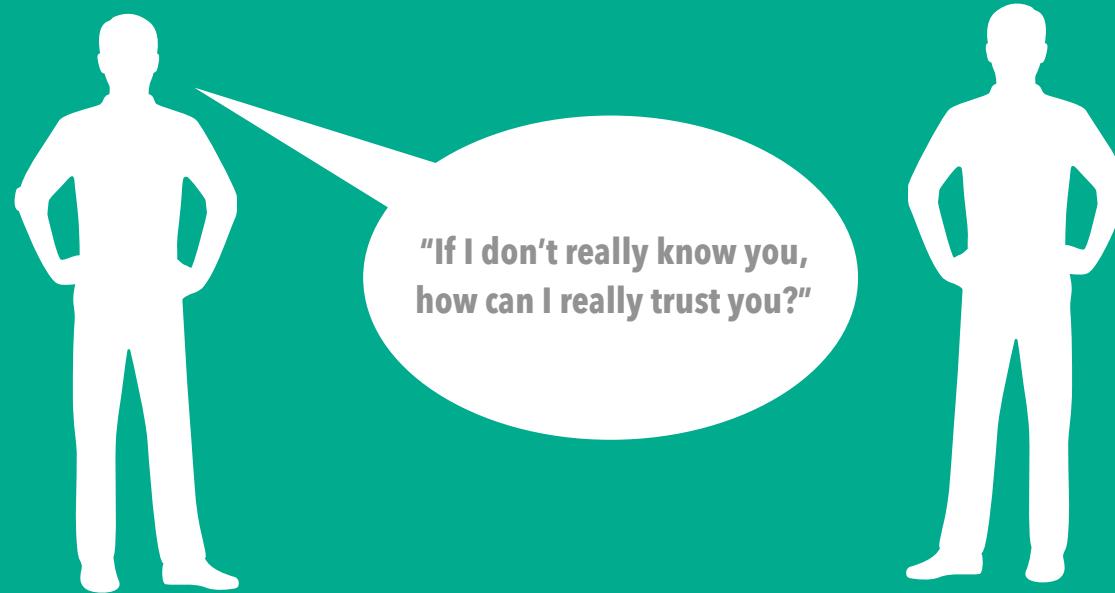
**WEB 4.x**

**“My Data, My Identity & My Software under My Control”**

# How technology infrastructure actually stacks up on the InterWebs.



# Web 4.x is about real trust.



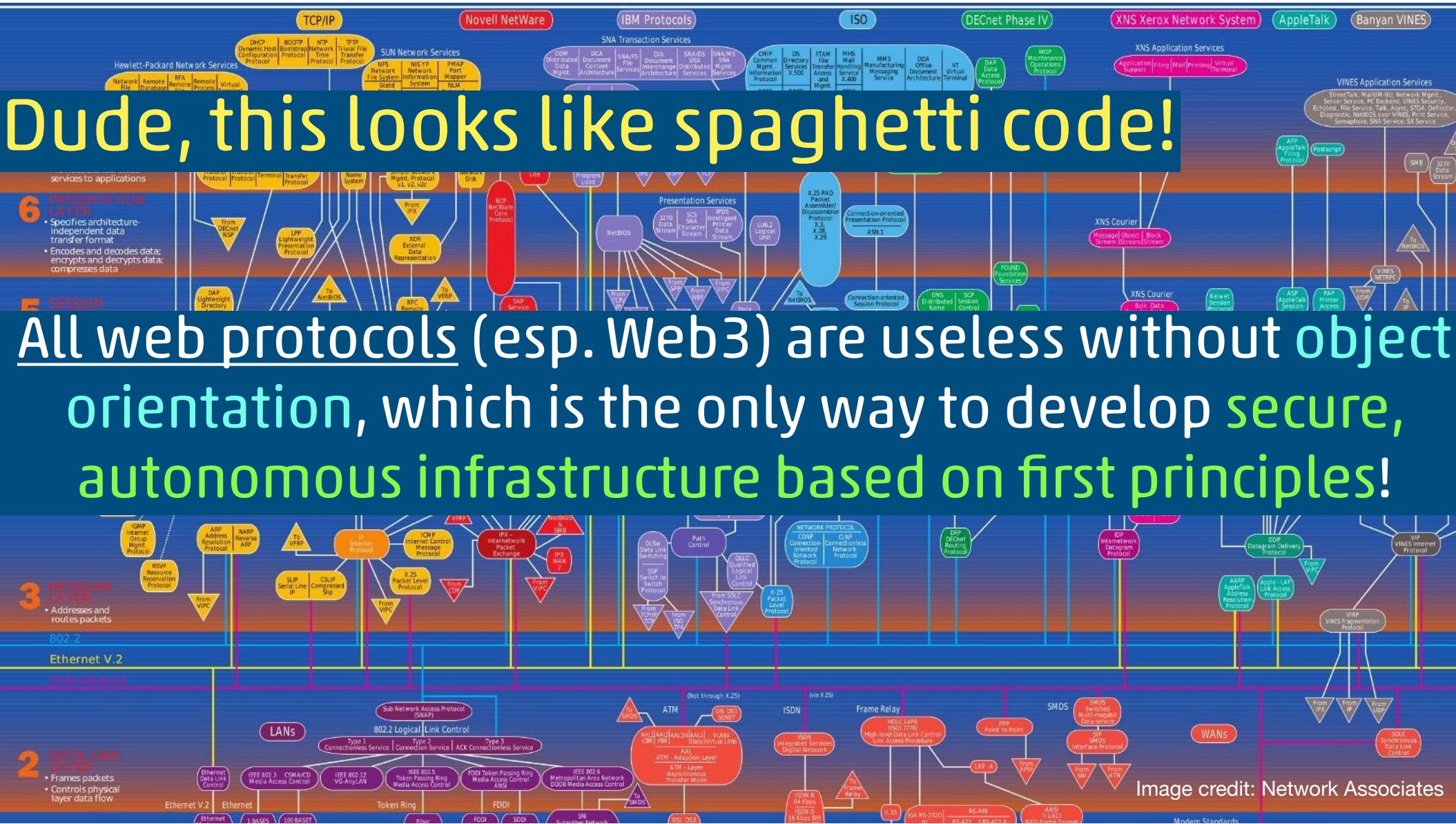
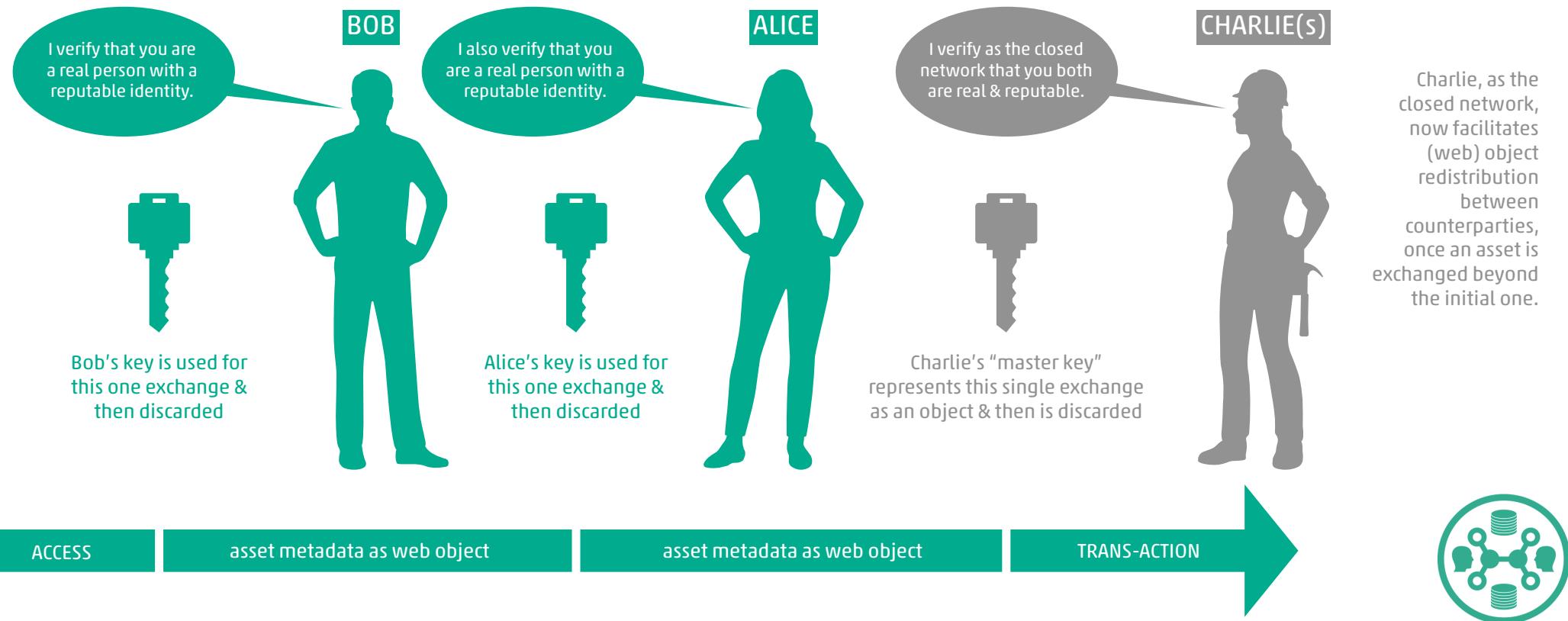


Image credit: Network Associates

# Traditional PGP security.

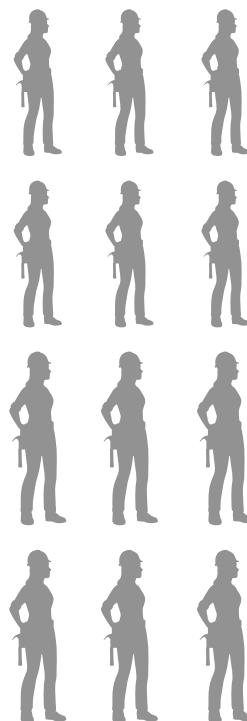
"Charlies" that are cast out which don't support actual, real trust between peers or counterparties.



# Trustless trust.

Keyless object pairings (without trust seals) that support actual, real trust between peers or counterparties.

A bunch of untrusted Charlies, in an open network which all have the potential of acting on behalf of Bob and Alice, but are still required to generate a key to access an asset for a trans-action.



Charlies search for a "master key" representing this single exchange as an object & then find it!



**Two Charlies become a trusted Bob and a trusted Alice with a "master key"!**

ACCESS

asset metadata as web object

asset metadata as web object

TRANS-ACTION



# Web 4.x makes real things based on real needs.



SHARED  
BUSINESS  
OPPORTUNITY



“I have resources to make X.”

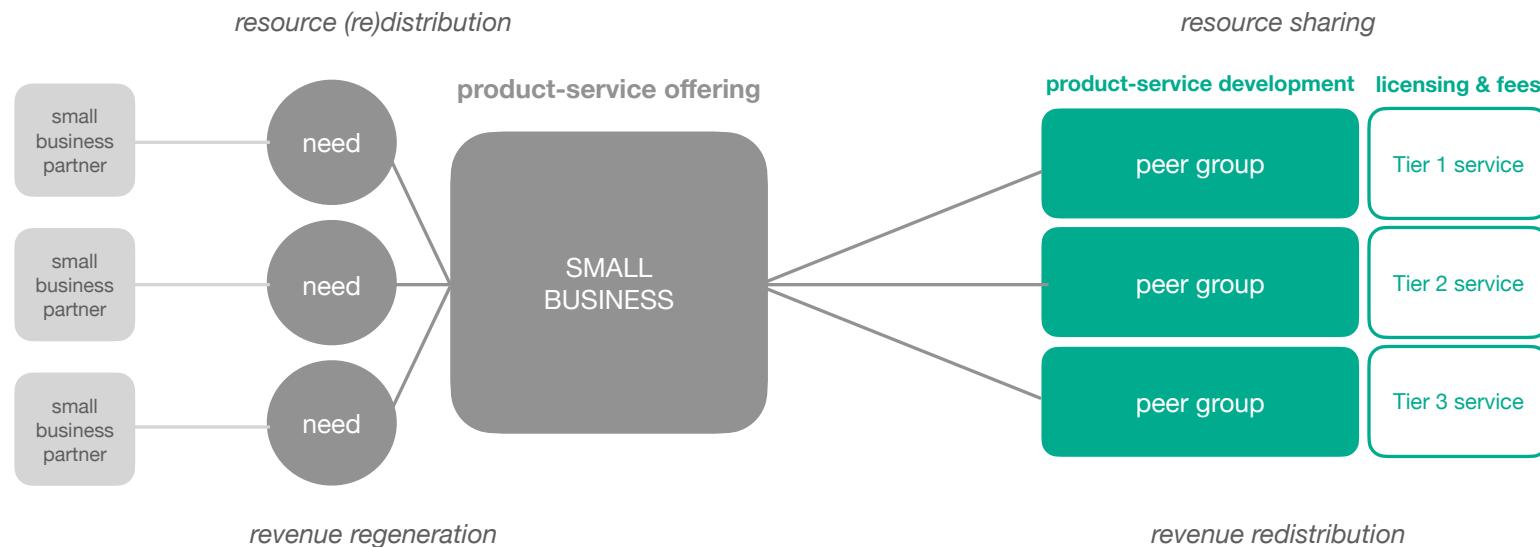


“I have resources to distribute X.”

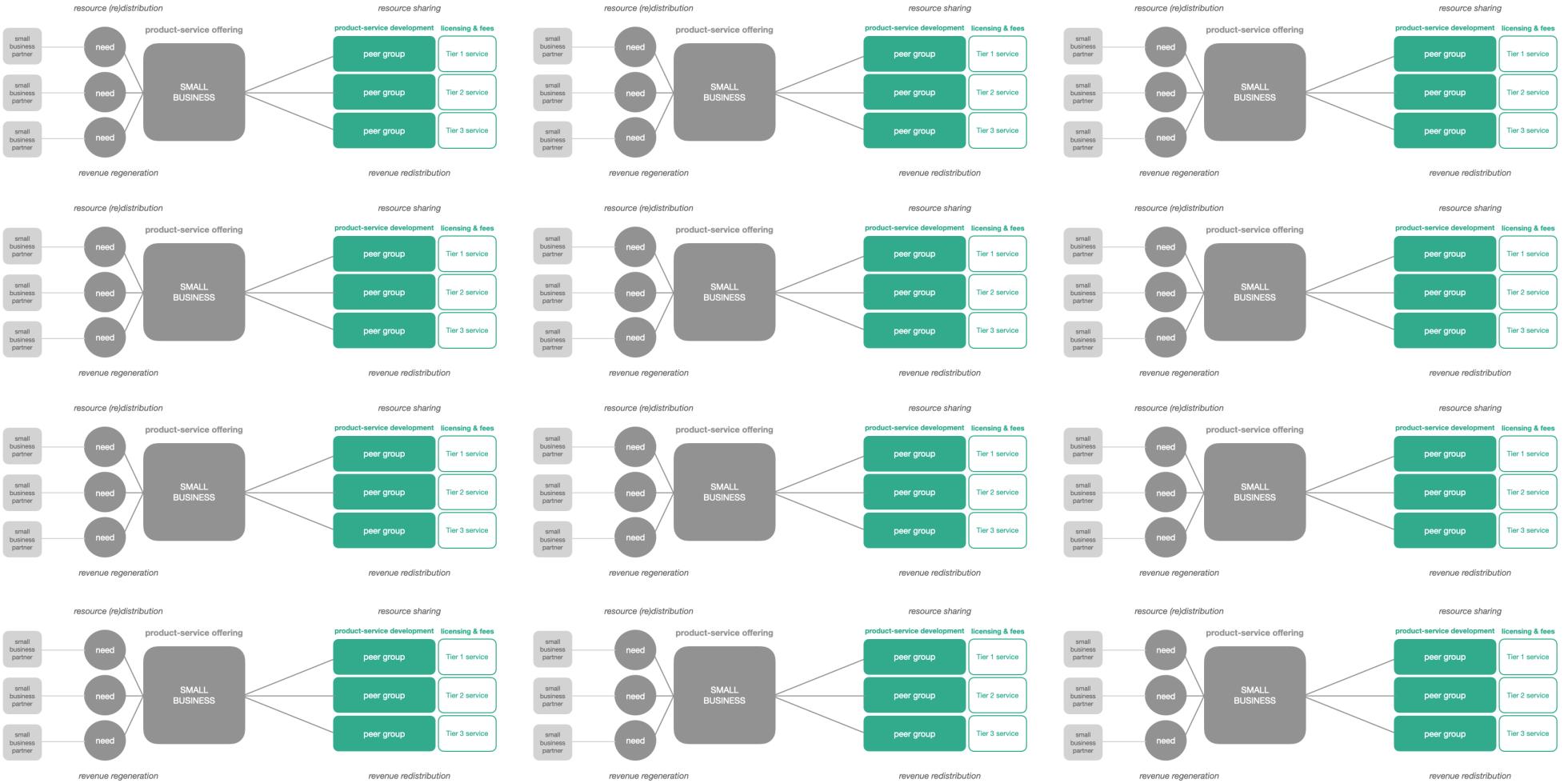
“I need X to survive & to thrive.”

# small business cluster of fulfilled needs

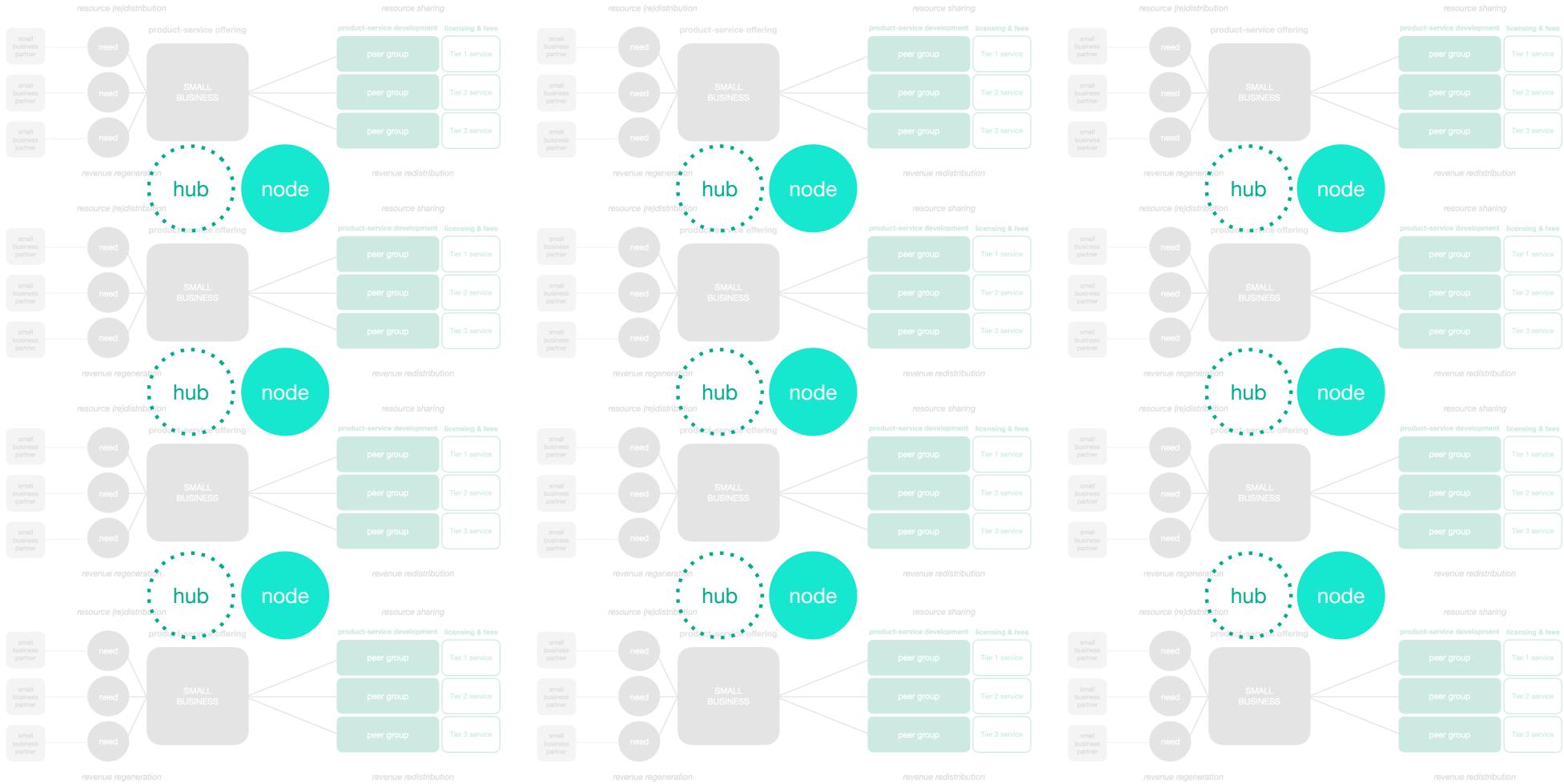
## Co-labored Ownership "CLO"s



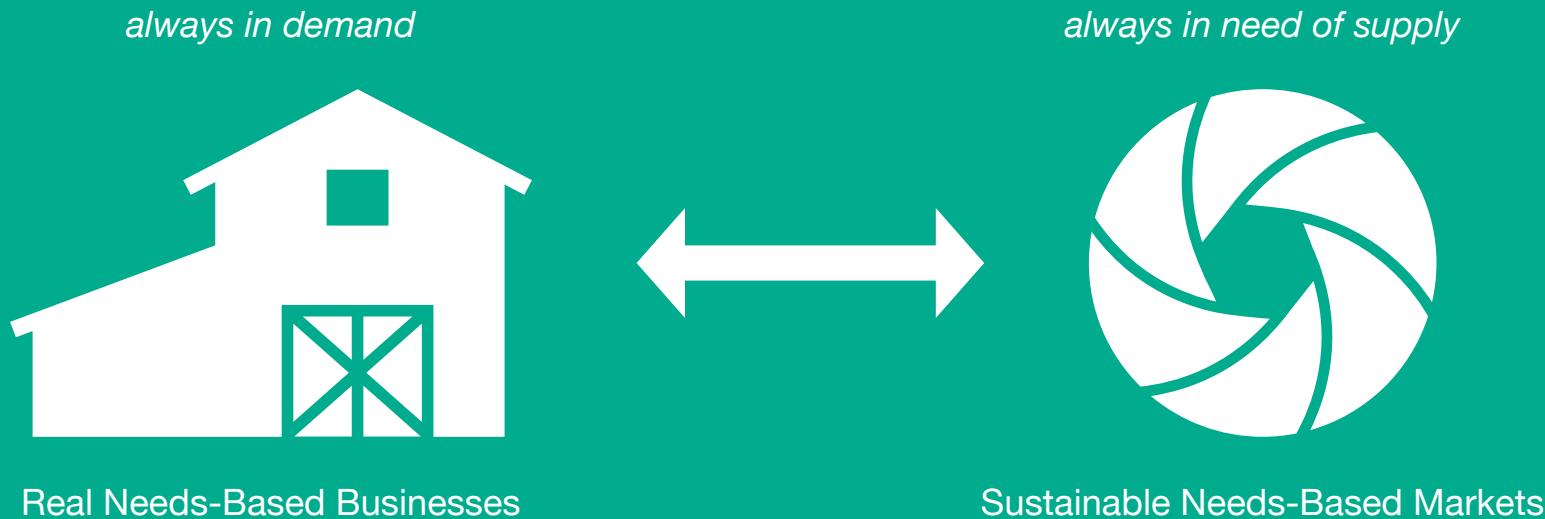
# distributed network economy of fulfilled needs



# distributed network economy of public utility R&D



# Web 4.x supports economic needs fulfillment.



## THE BASICS OF RESETTING FINANCE via WEB 4.x

### WITH DEBT INTEREST (positive or negative interest rates)

counterparty baseline  
Here 2 is a Base  
  
Here 3 is a Power/Exponent

#### present worth revenue

$$PWR = \sum_{j=1}^n \frac{CF_j}{(1+r)^j} \text{ where } CF_j > 0$$

#### expanded net present value

$$NPV = \sum_{T=0}^T \frac{CF_T}{(1+r)^T} = CF_0 + \frac{CF_1}{(1+r)^1} + \frac{CF_2}{(1+r)^2} + \dots + \frac{CF_T}{(1+r)^T}$$

The common denominator is 0, because time (T) is either the equivalent of zero, or greater than zero.

### WITH ABSOLUTE INTEREST (no debt or owed interest)

#### counterparty baseline (1:1)

$$1 + 2 = 3 \mid 3 - 2 = 1$$

#### present worth value

$$1 + 0 = 0+$$

#### expanding network value

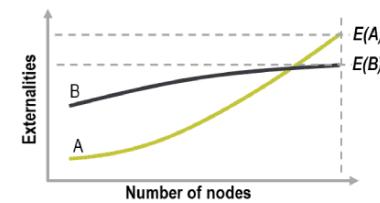
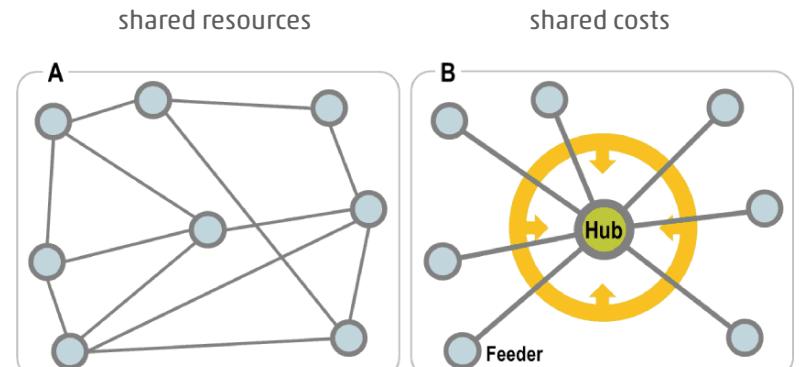
$$\sum_{n=1}^8$$

$n = 1 \text{ or } 1+1$

#### holonomic peer value

$$C^n$$

# Universal Logistics (shared distribution via absolute interest revenue)



shared revenue based on: **METADATA**



natural capital quotient

$$\sum_{n=1}^2 n^2$$



# Web 4.x Case Studies.



Intralogistics  
Internet of Services  
(pre-Web 4.x)



Urban Planning  
Metaverse PoC w/  
Internet of Services



Global Reference  
Implementation for  
150K developers



Enterprise interoperability  
architecture for emerging  
microservices



Mobile local  
microservices hub  
platform w/ apps



Global open source  
reference library for  
numerous platform partners

# Current Web 4.x Projects.

IDENTITY



<https://www.dal-identity.com/>

SOFTWARE



<https://ceruleancircle.com/>

CURRENCY



<https://soundcurrency.tech/>

# THANK YOU.



**Marcel Donges**  
Inventor & Builder of Web 4.x



**Gunther Sonnenfeld**  
Systems Architect of Web 4.x

VISIT OUR GITHUB -> <https://github.com/web4x/codingWeb4/wiki/Web-4.x-Home>