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2019

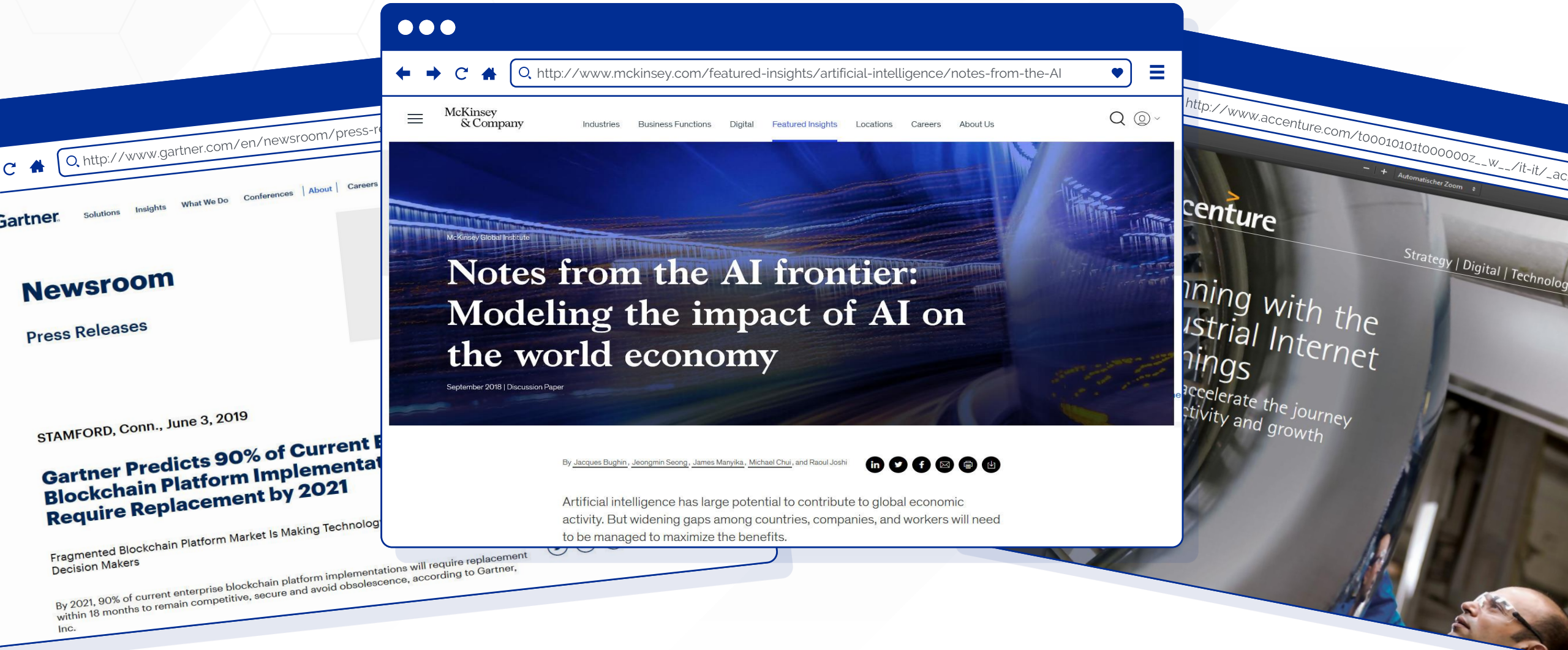


# AI – IoT – Blockchain

By Christian Lains

[www.bitspace.com](http://www.bitspace.com)

Estimated: 30 Trillion by 2030



## Notes from the AI frontier: Modeling the impact of AI on the world economy

September 2018 | Discussion Paper

By [Jacques Bughin](#), [Jeongmin Seong](#), [James Manyika](#), [Michael Chui](#), and [Raoul Joshi](#)



Artificial intelligence has large potential to contribute to global economic activity. But widening gaps among countries, companies, and workers will need to be managed to maximize the benefits.

STAMFORD, Conn., June 3, 2019

**Gartner Predicts 90% of Current Enterprise Blockchain Platform Implementations Will Require Replacement by 2021**

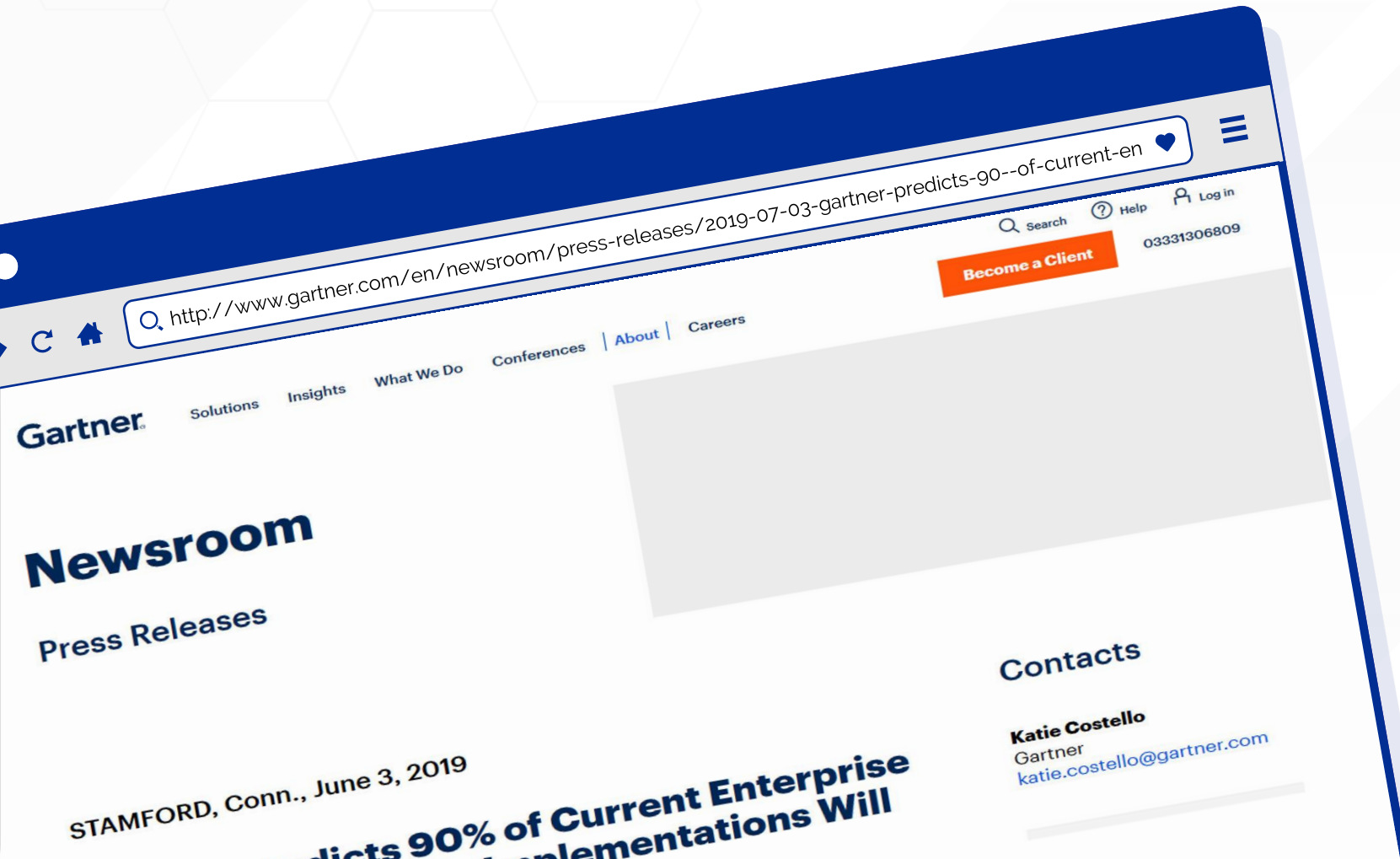
Fragmented Blockchain Platform Market Is Making Technology Decision Makers

By 2021, 90% of current enterprise blockchain platform implementations will require replacement within 18 months to remain competitive, secure and avoid obsolescence, according to Gartner, Inc.

[http://www.accenture.com/t00010101t000000Z\\_\\_w\\_\\_/it-it/\\_ac](http://www.accenture.com/t00010101t000000Z__w__/it-it/_ac)

centure  
Strategy | Digital | Technology  
Working with the  
Industrial Internet  
Things  
accelerate the journey  
activity and growth

# Blockchain: \$3.1 trillion by 2030 according to a recent forecast by Gartner



**2025:**  
Business value added by blockchain **will grow** to >\$176 billion



**2030:**  
Value added by blockchain **will exceed** \$3.1 trillion

AI: McKinsey sees it delivering global economic activity of around \$13 trillion by 2030



**Adoption:**  
70 percent of companies might have adopted at least **one type of AI technology**



**2030:**  
Global economic activity of around **\$13 trillion**

IoT: Accenture suggests that the global IoT market will be worth \$14.2 trillion in 2030

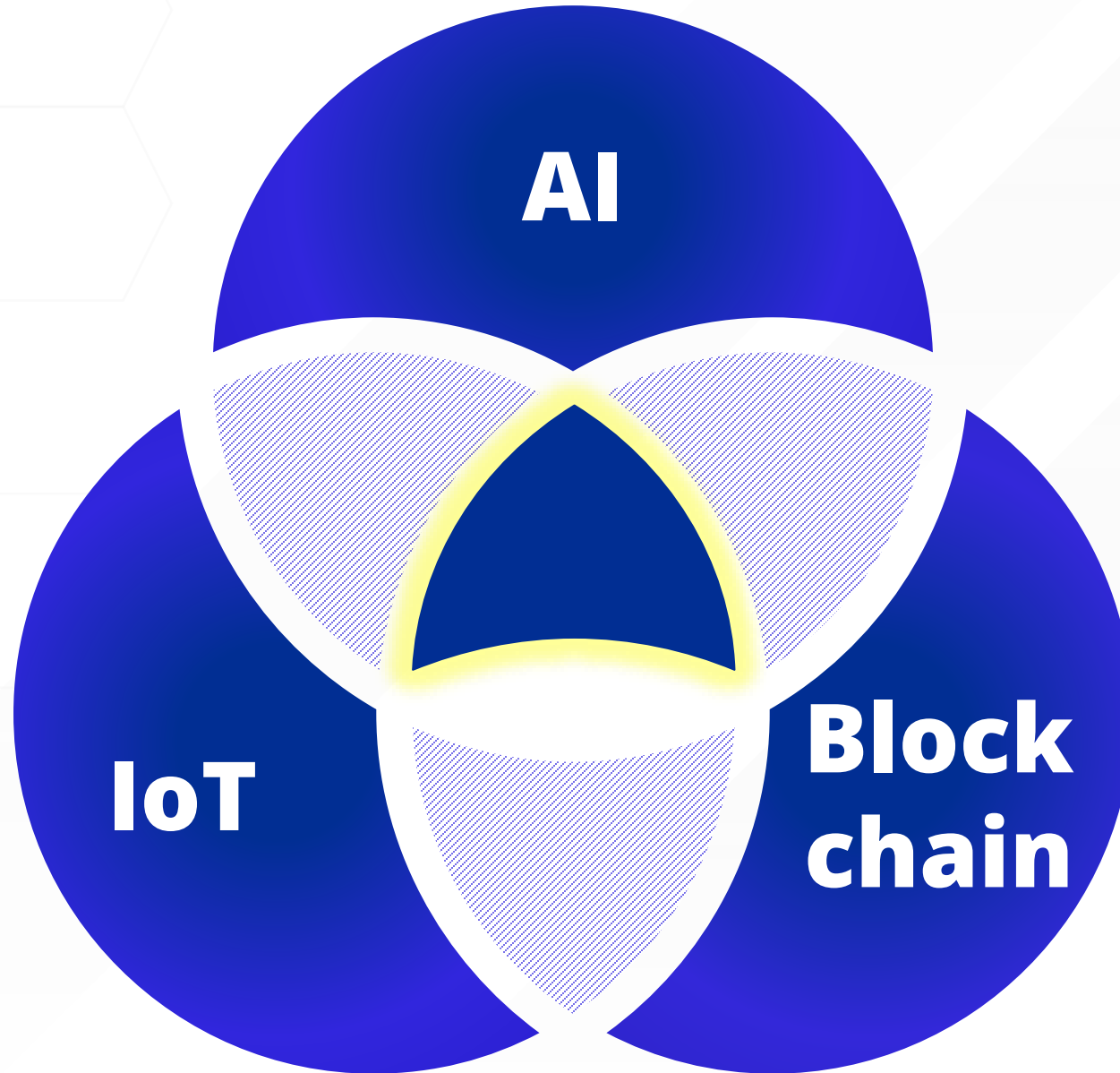


**Commitment:**  
73 percent of  
businesses have  
not implemented  
**any IoT measures**



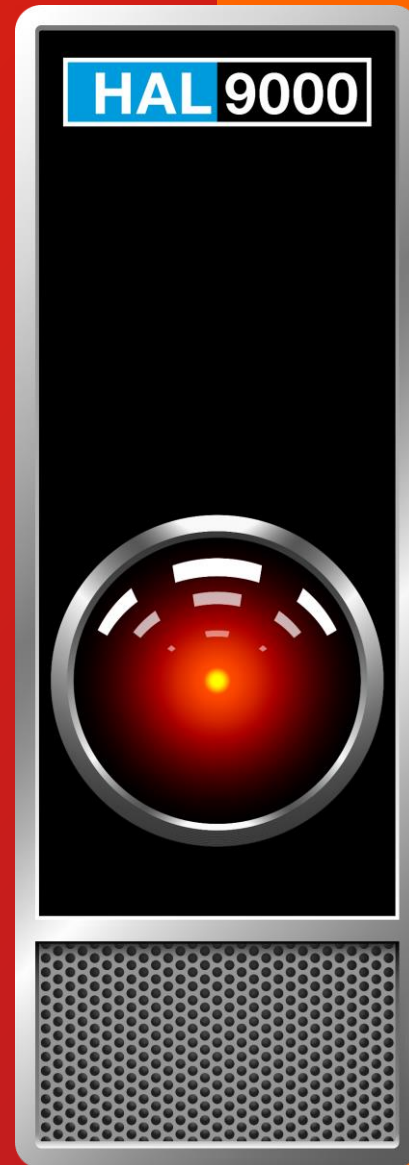
**2030:**  
Value added by IoT  
is estimated to  
reach \$14.2 trillion

# Case Study: 30 Trillion by 2030



# AI: Demon or Toy?

*"With AI we are summoning the Demon..."*  
*"Potentially more dangerous than nukes..."*  
*"Fundamental risk to the existence of  
human civilization..."*



*"Man can never make another man..."*  
*"A computer is just a toy...  
maybe clever, but human  
beings are much smarter"*

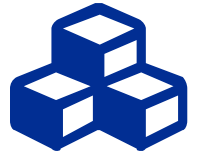


# The Big Questions

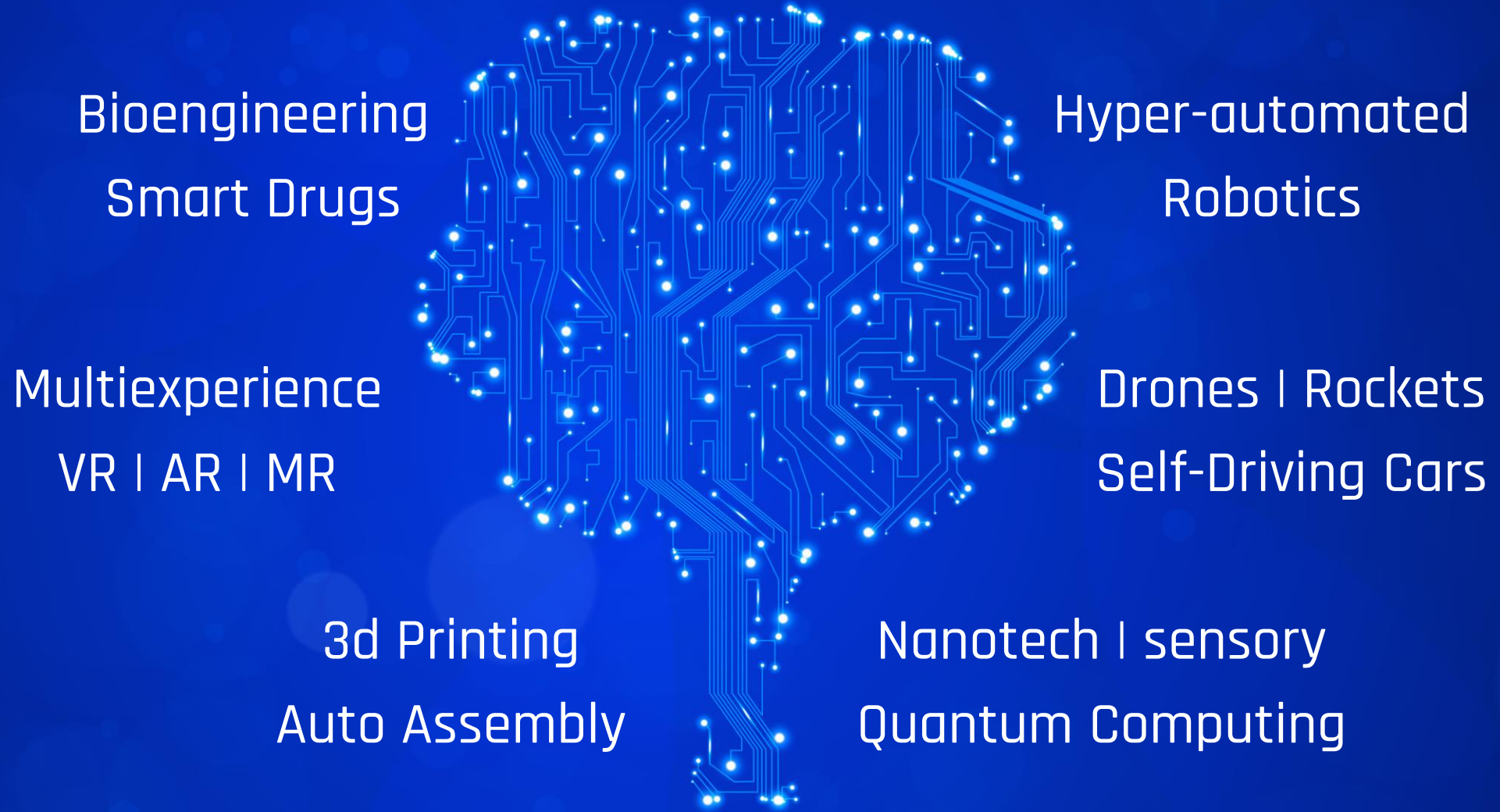
What will happen?

Who is in control?

How do we agree?

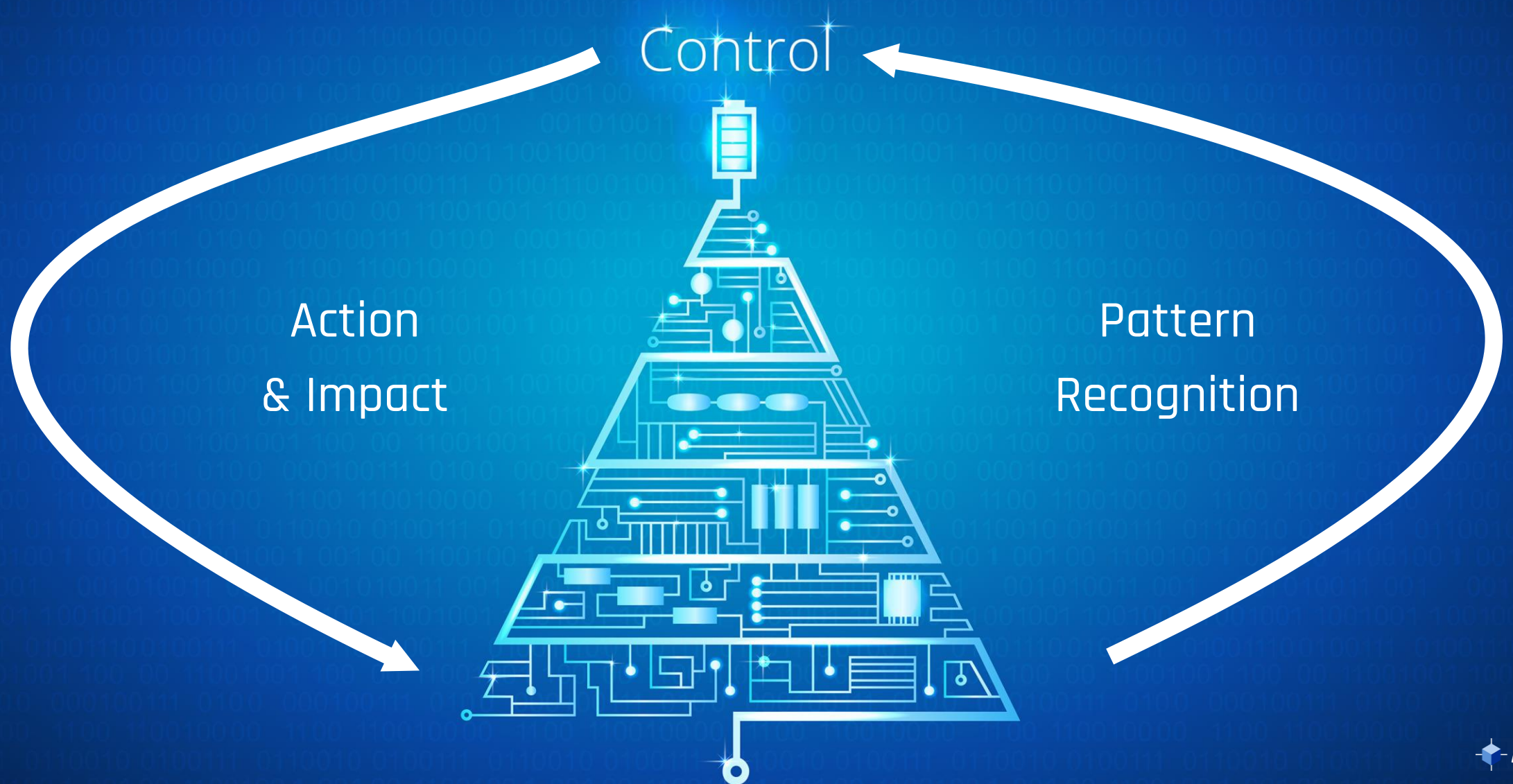


# IoT: What will happen?



**Internet of Everything**

# Perspective: **Who is in control?**



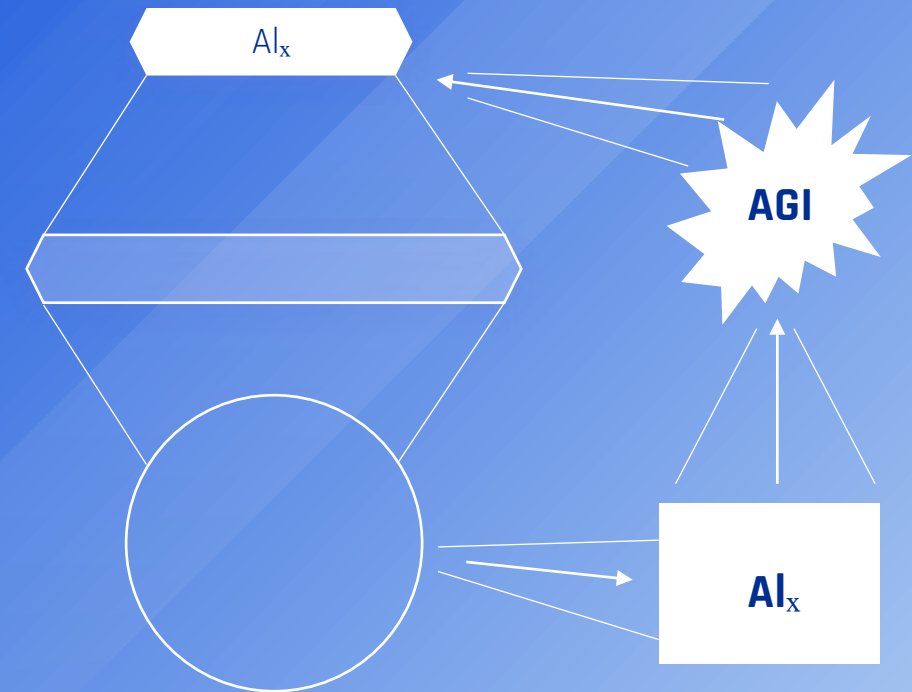
# AI & Ethics: Hyperconverging Tech

## Deep Surveillance

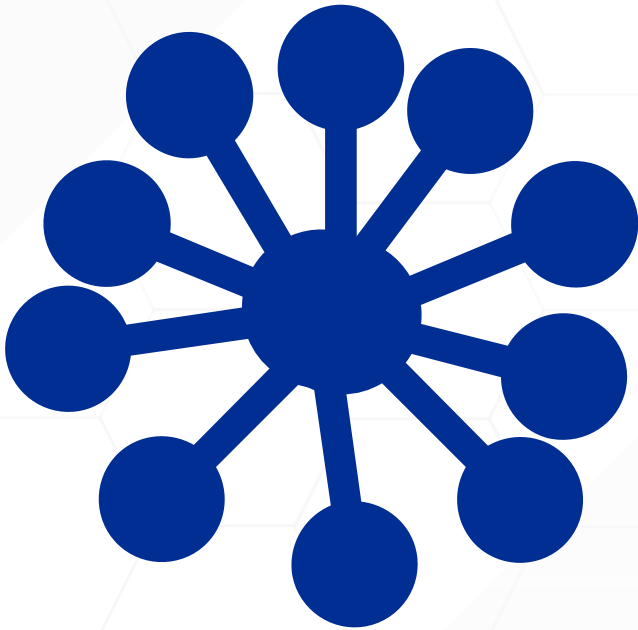


相似度  
SIMILARITY 67.2%

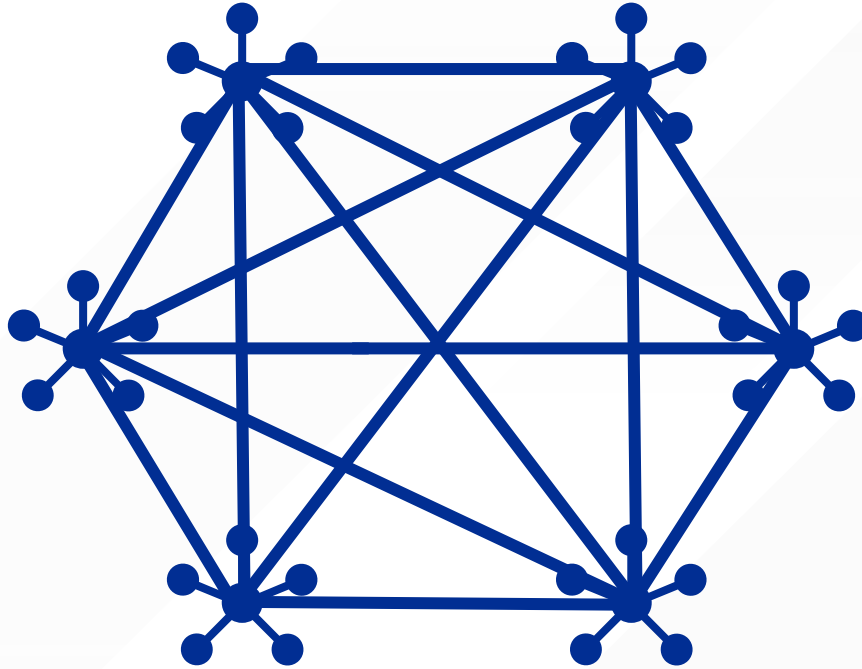
## Deep Manipulation



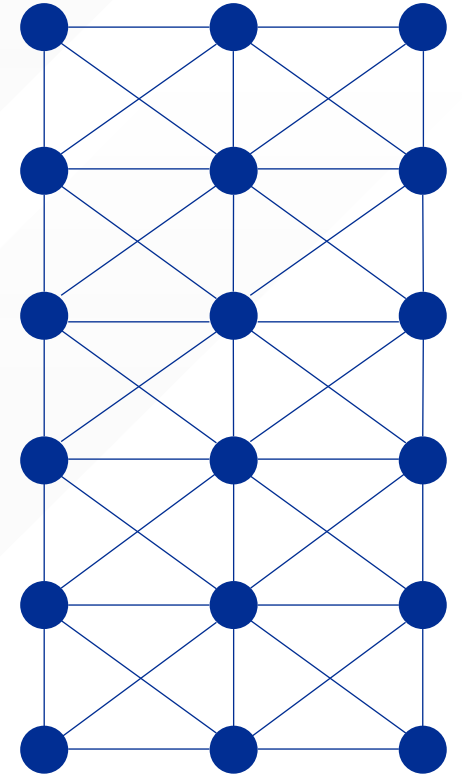
# The Fragility of Centralization



Centralized



Decentralized



Distributed

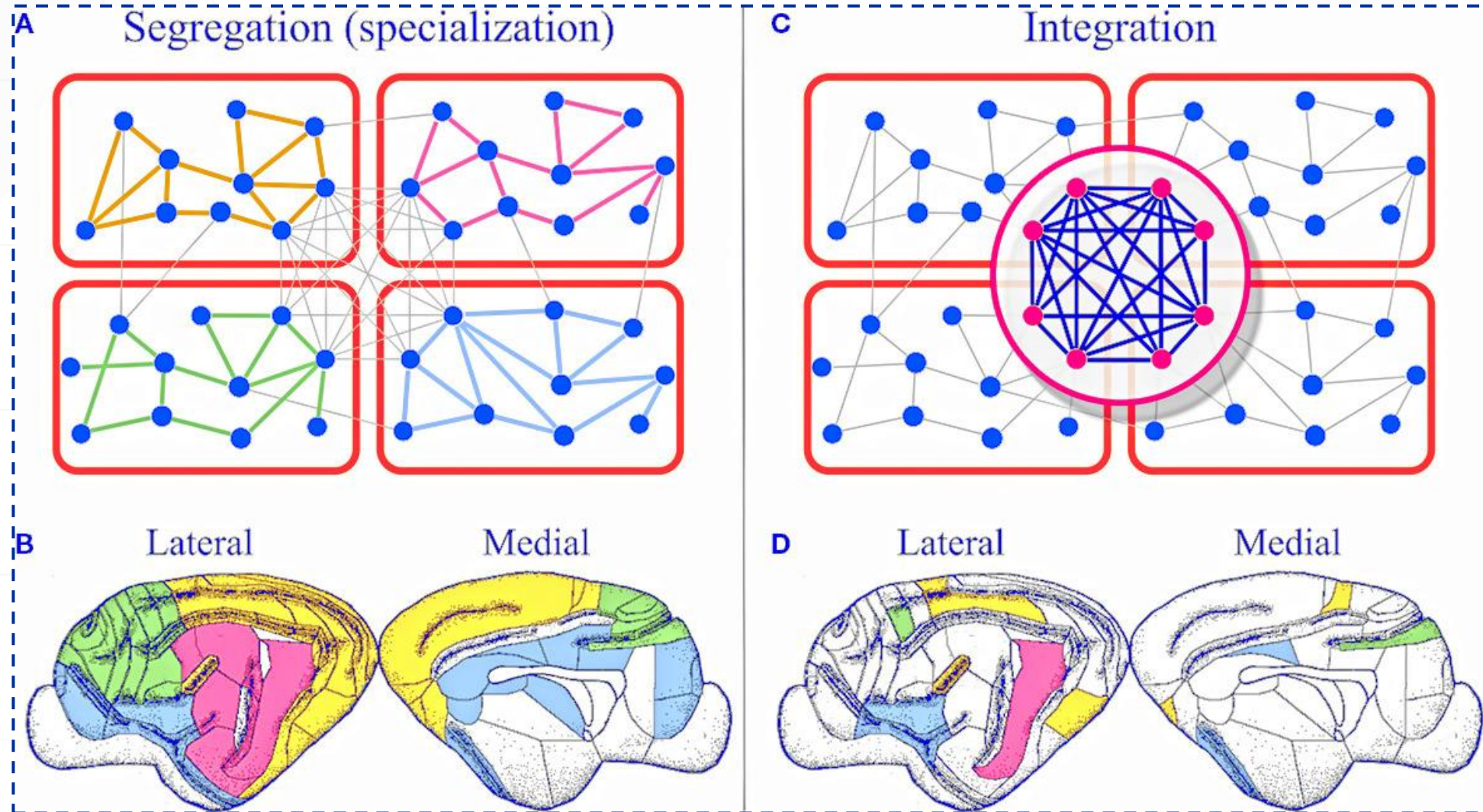
## Guideline: How do we agree?

How do we get consensus within and between networks, companies, organizations, and global communities?

How do we agree on common facts when everything is made fluid and digital?

How do we dynamically and flexibly identify, authorize, transact and sign agreements globally in a digital way?

# Inspiration from the Brain



# Decentralized AI-as-a-Service

● AI-Services

# Layers of Networks of Networks

Spatial Application Layers

ENTERTAINMENT

COMMUNICATIONS

HEALTH & WELLNESS

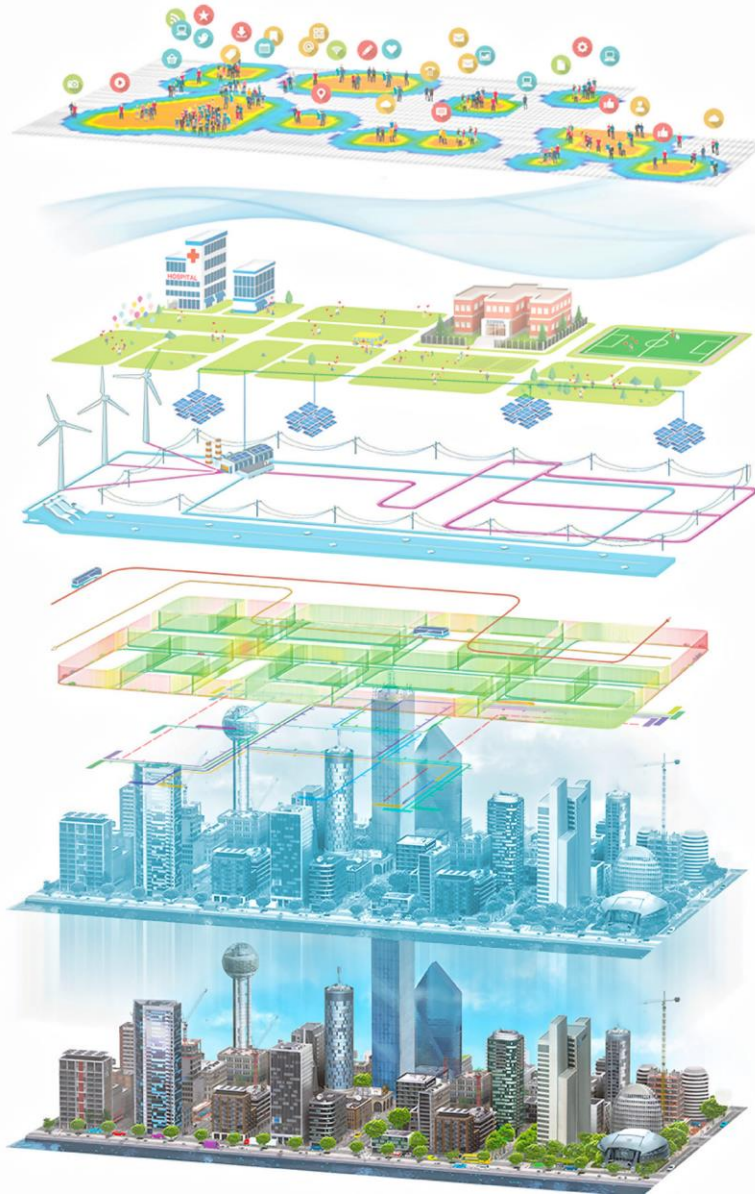
ENERGY & WATER

MOBILITY

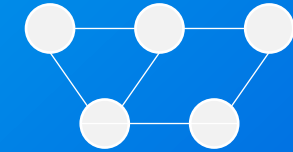
Base Layers

DIGITAL WORLD

<sup>16</sup> PHYSICAL WORLD

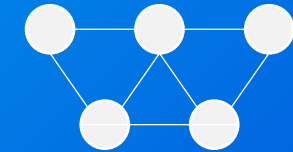


Applications



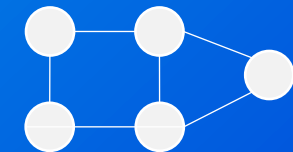
Interface

API Economy



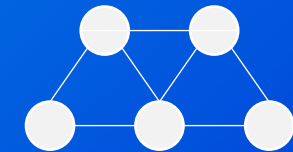
Services

Compute / AI



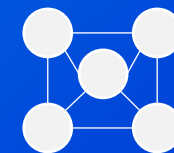
Compute

DCT / Blockchain



Consensus

IoE / IoT



Connectivity

# Ordering Food 2030: Interface



- Mobile App
- Laptop
- AR, VR, MR
- Hologram 😊

# Ordering Food 2030: API



- Checks Status/Availability
- Payment/ID info
- Connects to Services
- Etc...

# Ordering Food 2030: AI



- Customizes preference
- Calculates logistics
- Checks for fraud
- etc...

# Ordering Food 2030: Blockchain



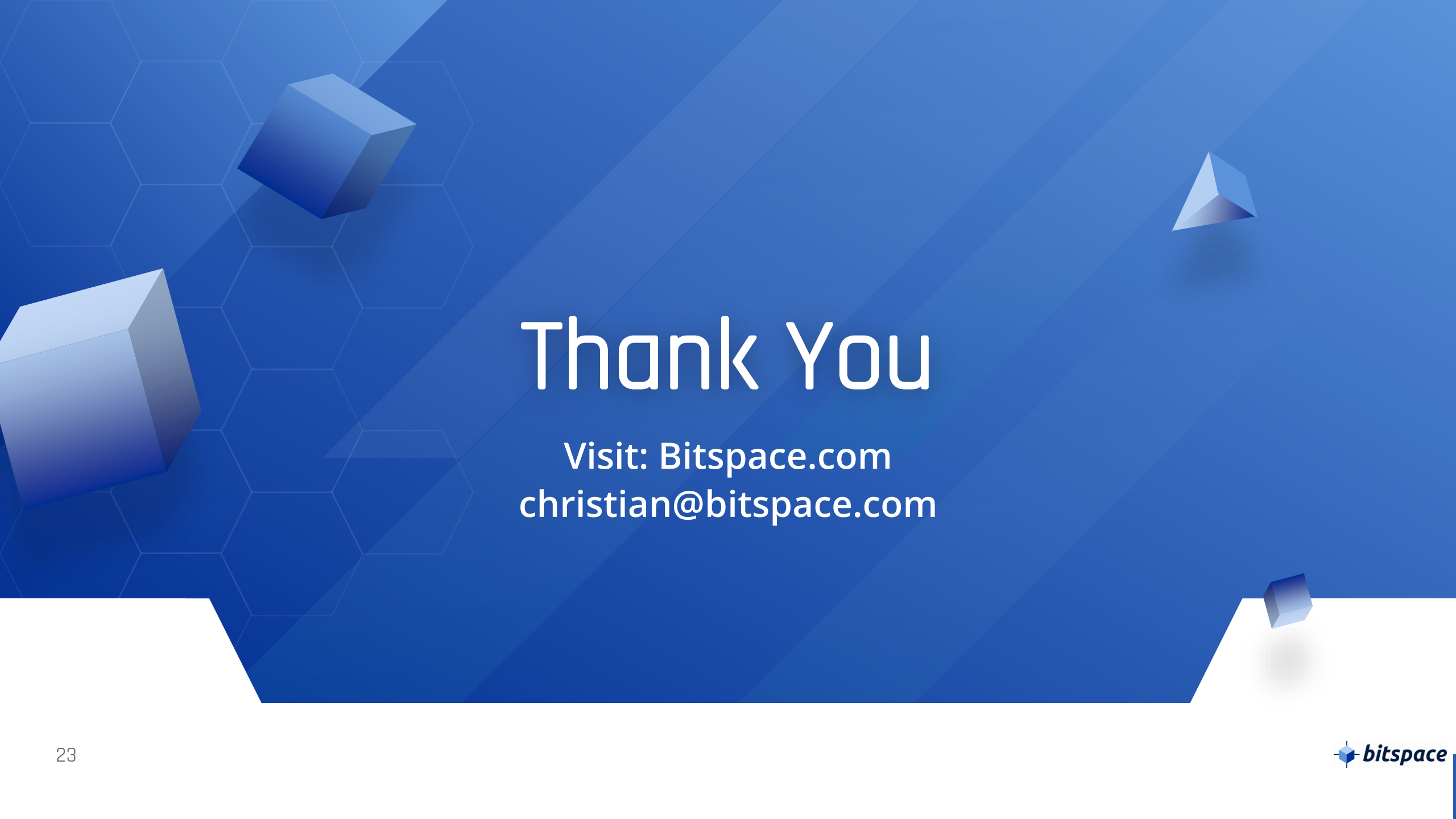
- Authorizes user
- Verifies payment
- Sends money
- Signs contract
- etc...

# Ordering Food 2030: IoT



- Activation of order
- Begins automated production
- Calls drone delivery
- Tracks logistics and drone sensors
- etc...

# Perspective

The background is a solid blue color with a subtle pattern of light blue hexagons. Several 3D geometric shapes are scattered across the scene: a large cube on the left, a smaller cube in the upper left, a pyramid in the upper right, and a small cube in the lower right. The text is centered in the middle of the image.

# Thank You

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