

## Cyber Ethics 4.0: Serving Humanity with Values



Photo by [Erik Eastman](#) on [Unsplash](#)

# Module 6

## Cyber Economy and Ethics

Cyber  
Economy  
Resources

(Natural) Resources

Capital

Labor

(Virtual) Data



# Power of Big Data

## 2017 This Is What Happens In An Internet Minute



## 2018 This Is What Happens In An Internet Minute





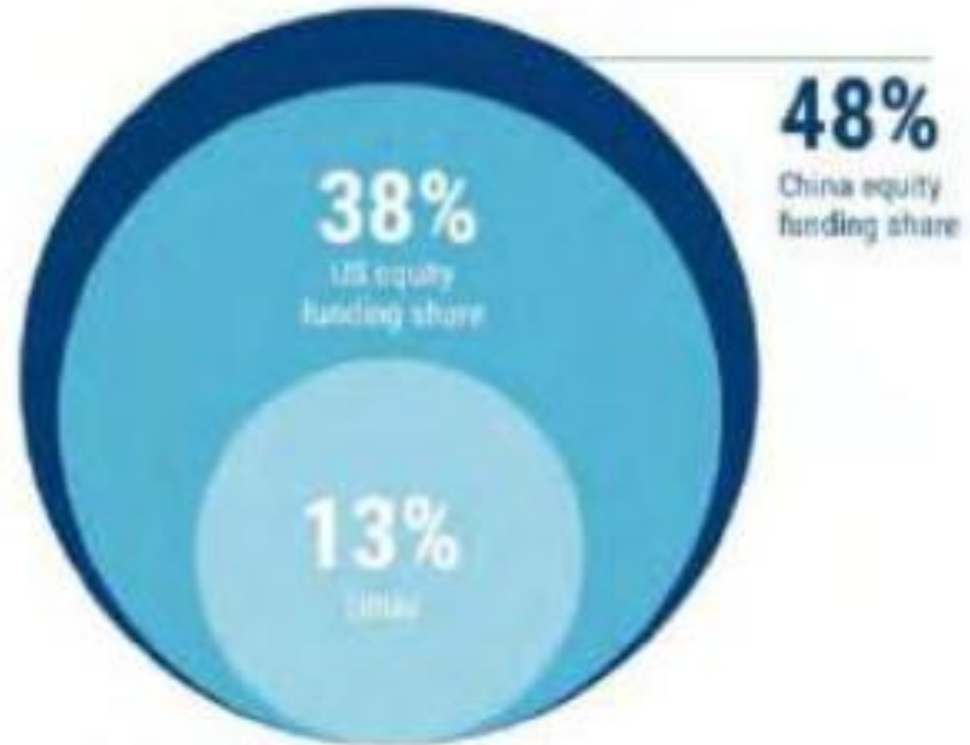
Data  
Ownership

Service	USA	China
Search Machine	Google	Baidu
Social Net	Facebook	Tencent
E-commerce	Amazon	Alibaba
E-payment	Paypal	Alipay
Messenger	WhatsApp	Wechat
Videos	YouTube	Youku Tudou
Data Ownership	Companies	Companies

## Artificial Intelligence Funding

### China dominates global AI funding

US vs. China total equity funding to startups in 2017





# Finthech

Technologies applied in finance, banking, and  
currency  
transactions

# Fintech

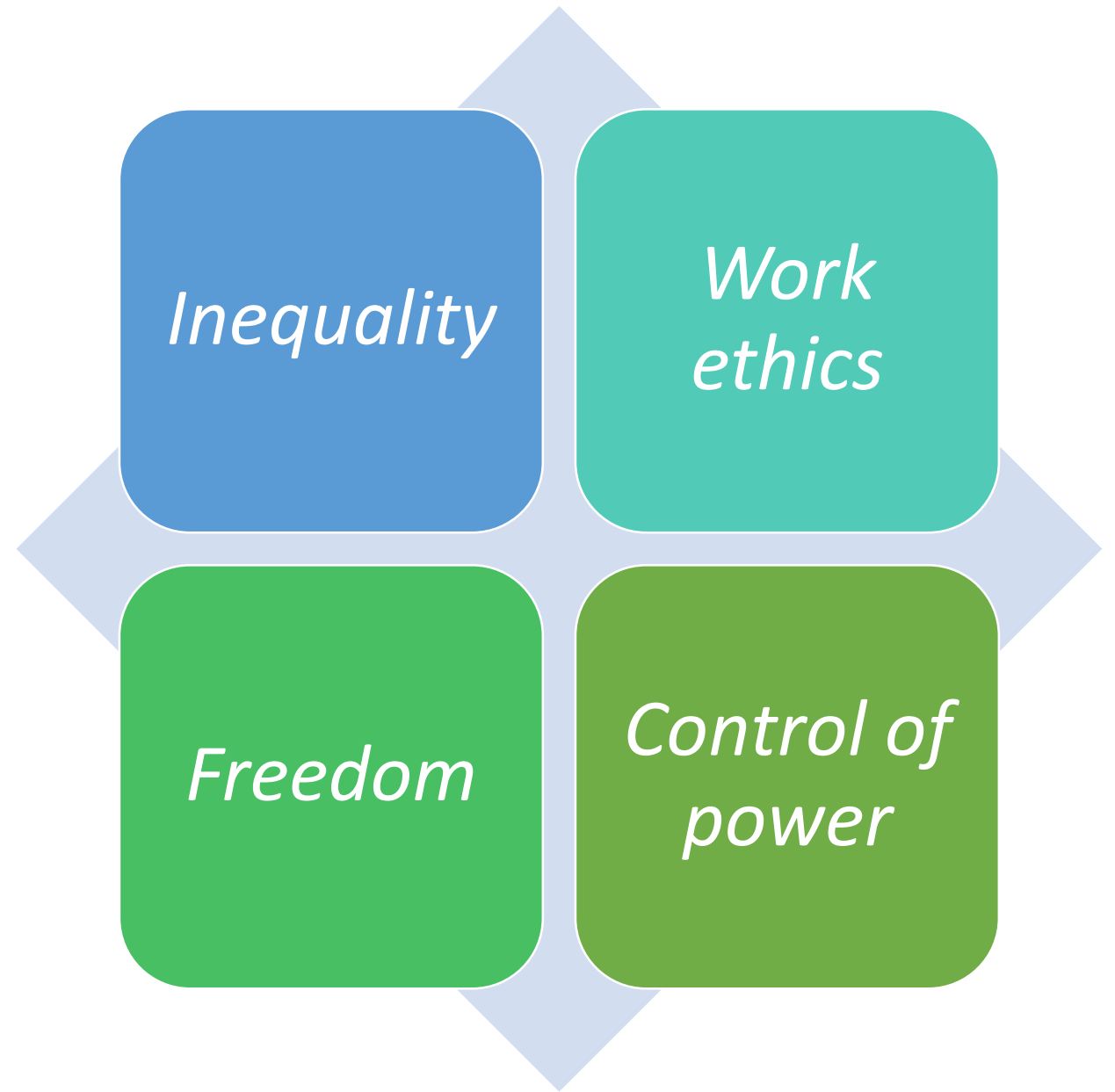
## Trade finance blockchain consortia

The infographic displays five trade finance blockchain consortia, each with its leader and a list of member banks:


- Voltron**  
Led By: R3 + ConsenSys  
Select Consortium Members: HSBC, NatWest, BNP PARIBAS, bancorp, Scotiabank, CTBC BANK, BBVA, Bangkok Bank, ING, MIZUHO, SEB, INTESA SANPAOLO
- Marco Polo**  
Led By: R3 + TRADEIX  
Select Consortium Members: NATIXIS, Standard Chartered, NatWest, Bangkok Bank, BNP PARIBAS, ING, SMBC, OP Bank, COMMERZBANK, DNB
- Batavia**  
Led By: IBM  
Select Consortium Members: BMO, UBS, ERSTE Group, Citibank, COMMERZBANK
- we.Trade**  
Led By: IBM  
Select Consortium Members: HSBC, SOCIETE GENERALE, Santander, UniCredit, NATIXIS, KBC, Deutsche Bank, Nordea, Rabobank
- HKTFP**  
Led By: HSBC + Citibank  
Select Consortium Members: HSBC, Citibank, DBS, ANZ, 渣打銀行 (HSBC Bank), 中國銀行 (Bank of China), BEA 華僑銀行

Source: CBINSIGHTS

# Ethical Challenges in AI








# Ethical Challenges in AI: Inequality

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*Worsening inequality*, and a corresponding negative impact on social stability, is one of the greatest potential risks associated with the Fourth Industrial Revolution.



# Ethical Challenges in AI: Work Ethics

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The way that we treat the human data processors who prepare material for the training of artificial neural networks and other machine learning techniques.



## Ethical Challenges in AI: Freedom

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Dataism is the first movement since 1789 that created a genuinely novel value: freedom of information.

# Ethical Challenges in AI: Control of Paper

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Internet Revolution in a Class conflict in the age of cyber-capitalism



Recommendation

Education

Regulation

Politics

Economy

# Education

Set

Set the ethical frame of values and virtues.

Enlarge

Enlarge media education.

Strengthen

Strengthen responsibility of individual consumers of cyber devices.

# Regulation

Agree

Agree internationally on governance structures for global cyber-related technologies

Formalize

Formalize Ethics Committees as national and international cyberspace regulatory bodies.

Equip

Equip Police and Courts with enough trained specialists.

# Politics

Guarantee

Guarantee Human Rights.

Police and  
Courts

Clean Police and Courts.

Resist

Resist the abuse of cybersecurity and anticorruption policies.

Control

Control Intelligence Agencies.



Economy

Pricing

*Financing Research*

*Regulation*

The End