

# MITIGATIVE MEASURES AGAINST THE ECONOMIC AND SOCIAL PROBLEMS IN POST-DIGITAL ECOSYSTEM

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ÜNİVERSİTESİ

# DIGITAL ECONOMY

The digital economy can be defined as the new economic system and **production method** which is the result of changing **production factors** and **business processes**.

# SOCIETIES ACCORDING TO PRODUCTION METHODS

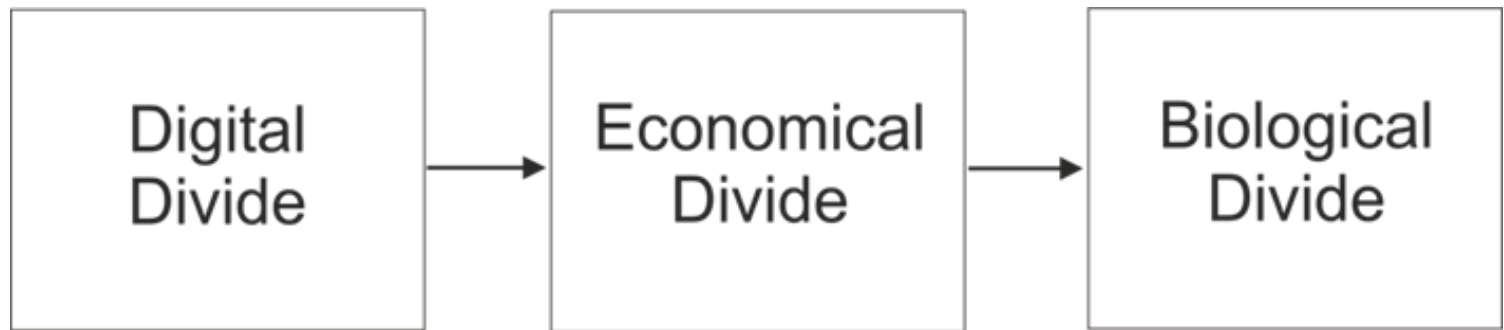
1. Agrarian Society
2. Industrial Society
3. Information Society

- The basic driver in the information society is not **money**, but information
- The most important production factor in the digital economy is **information**

# NEW ECOSOCIAL SYSTEM (NES)

- “**New Ecosocial System**” characterize the digital economy beyond economy
- However, beyond the new ecosocial system, humanity is awaiting a new system that can be called as the **Post-Digital Ecosystem**

# DYNAMICS OF POST-DIGITAL ECOSYSTEM



# THE DYNAMICS OF THE POST-DIGITAL ECOSYSTEM

- The **digital divide** refers to the unequal distribution of technological infrastructure usage within society.
- On the one hand, a **computer user** who takes advantage of communication possibilities.
- On the other hand, there is a **class devoid of basic communication facilities.**

# THE DYNAMICS OF THE POST-DIGITAL ECOSYSTEM

- There is a relationship between **income level** and **internet access**.
- Today, all the **routine works** are taken over by machines.
- Therefore this causes **economic inequality**.
- Humanity is moving towards immortality through biotechnical applications, but this is only for the rich. This causes **biological division**.



# DISRUPTIVE TECHNOLOGIES

- Internet brings about fertile ecosystem for the **disruptive technologies**.
- These technologies **eliminate many business lines** but do not create the same amount of jobs since it requires less labor.
- The **product life cycle** is getting shorter and technological developments are getting faster.

# DISRUPTIVE TECHNOLOGIES

- Blockchain
- Internet of Things
- 3D Printers
- Artificial Intelligence
- Machine Learning
- Quantum Computing

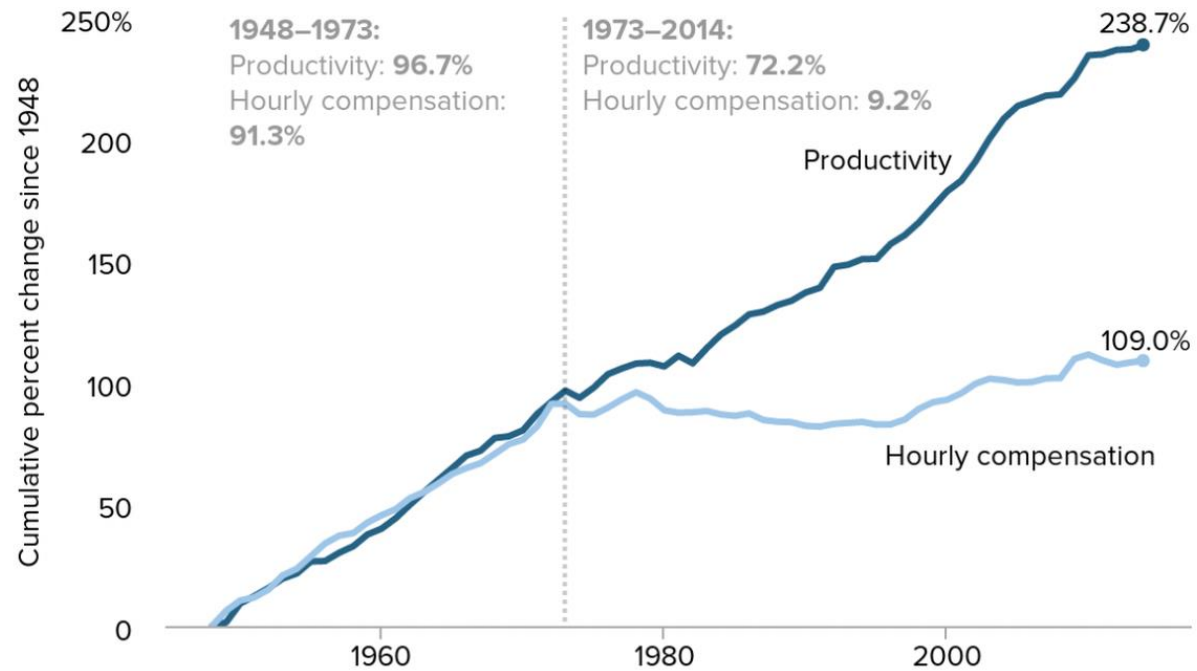
# SECURITY COMMISSION REPORT

- China and Russia plan to use AI autonomous systems which have capabilities to undermine U.S. **Military superiority**.
- Global stability and **nuclear deterrence** could be undermined by AI systems.
- AI will accelerate the already serious threat of cyber-enabled disinformation (**deepfakes**).

# DECREASING NEED FOR HUMAN



# PRODUVTIVITY vs HOURLY COMPENSATION



**Note:** Data are for average hourly compensation of production/nonsupervisory workers in the private sector and net productivity of the total economy. "Net productivity" is the growth of output of goods and services minus depreciation per hour worked.

# CREATIVE OR DISRUPTIVE?





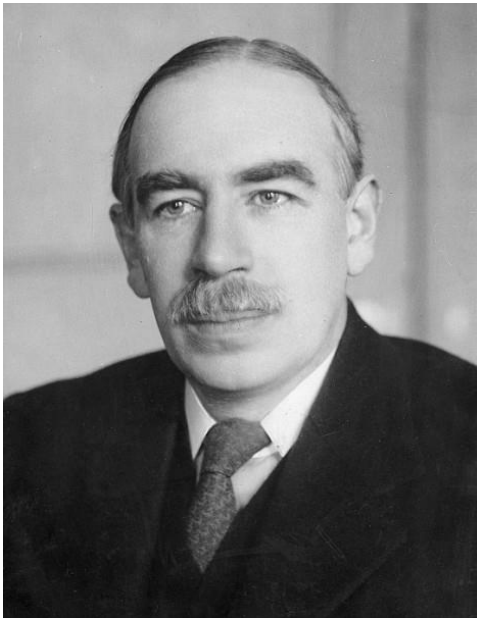
Joseph Alois Schumpeter

- Creative Destruction
- Luddite Fallacy

# ABUNDANCE ECONOMY

## Economic Possibilities for our Grandchildren (Keynes, 1931)

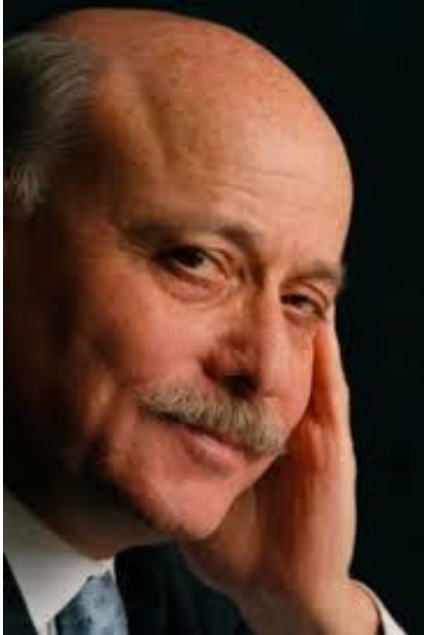
- Referring to **technology-borne unemployment**
- He calls the future as **age leisure**
- But he defines technological unemployment as a **disease** infecting humanity



John Maynard Keynes



# ABUNDANCE ECONOMY



Jeremy Rifkin

- The **Zero Marginal Cost Society**: The Internet of Things, the Collaborative Commons, and the Eclipse of Capitalism
- **Sharing Economy**
- Sustainable abundance in **the age of collaboration**

# VICIOUS CYCLE



Martin Ford

- Rise of **artificial intelligence**
- Unemployment
- Insufficient Demand
- perishing **human skills**

# COLLAPSING CAPITALIST SYSTEM

- Increasing efficiency
- Unemployment
- Demand Uncertainty
- Unlimited **Fiat Money**

# FINANCIAL CATAclysm

- Colossal **tectonic shift**
- Information economy **replace money** economy
- End of money driven production



Erkan Öz

# SINGULARITY



Ray Kurzweil

- Artificial intelligence will surmount human intelligence
- Singularity
- The world belongs to computers

# SYNTHETIC BIOLOGY - XNA



Andrea Ucini

# MITIGATIVE MEASURES

1- Governments should encourage investments with regard to **artificial intelligence**. Need for the human intervention to the business processes should completely be eliminated.

2- Governments should invest in **renewable energy** facilities and allow the firms to produce their own energy. Energy should be supplied to the production centers free of charge.

# MITIGATIVE MEASURES

3- Governments should encourage investments in the Internet of Things, 3D printers, autonomous driving technologies and robotic warehouses, etc. Bringing **transportation** charges to a minimum level. Besides, waste of time due to transportation should be eliminated from the supply chain.



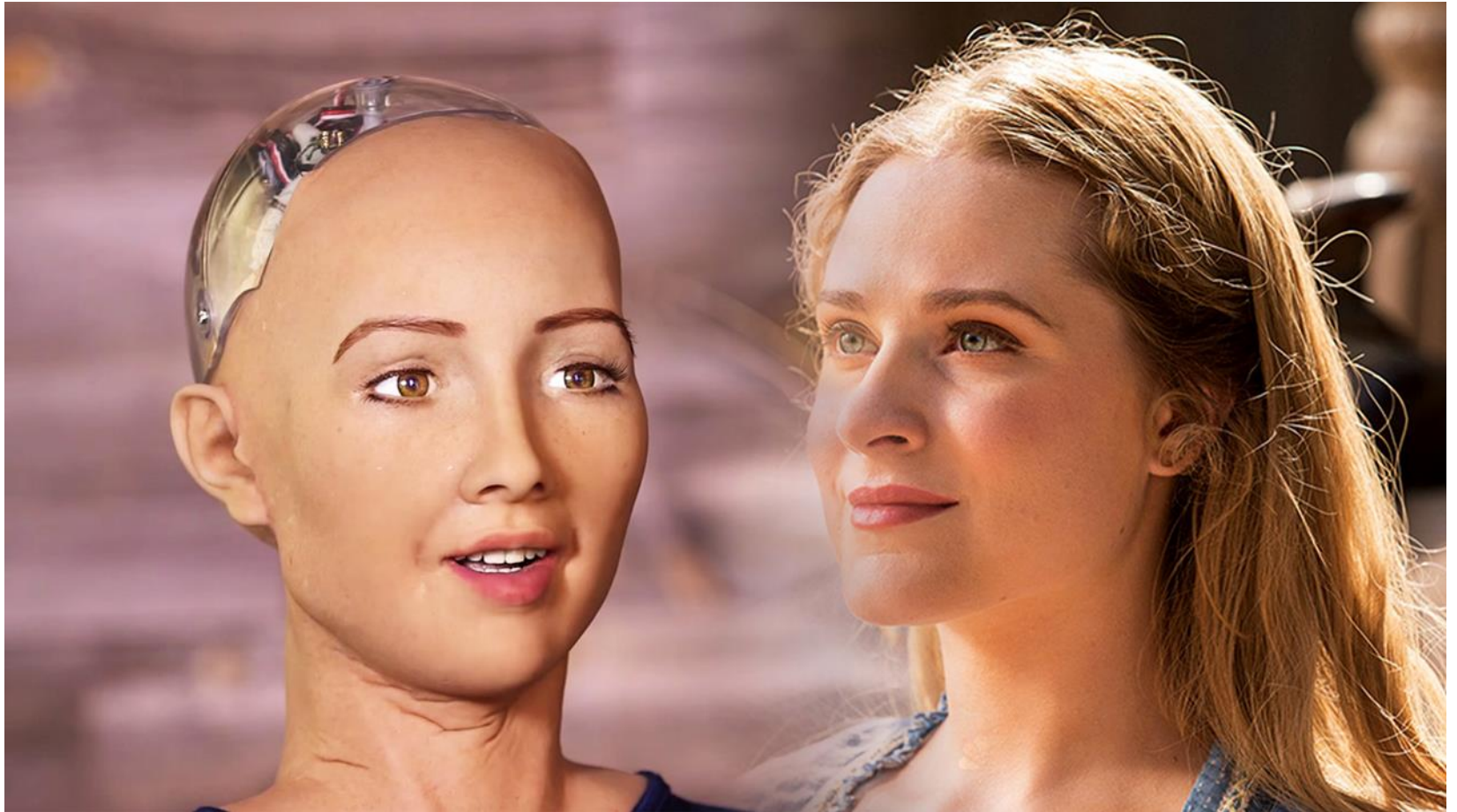
# MITIGATIVE MEASURES

4- Governments should intervene in the production processes in order to reduce the importance of **the capital** among other production factors. Then, profit pressure will be removed on the price of the products.

# MITIGATIVE MEASURES

5- Governments should reduce economical divide. All citizens would be paid a **universal basic income**. The government can use universal basic income as a social control mechanism. Citizenship score can be calculated according to the contribution to the society and ethical behaviors. And basic income payments can be adjusted according to this score (**social credit system**).

- Aimlessness will be the end of human superiority in the world.
- Human basic needs will be met by machines and human skills would perish



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The background features a series of overlapping, 3D-style rectangular blocks in teal, dark blue, and yellow, arranged in a stepped pattern that recedes into the distance. The blocks are set against a white background with vertical grey lines that suggest depth and perspective.

THANK YOU