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

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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.
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” 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

- Digital Divide
- Economical Divide
- Biological Divide
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**.
• 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.
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 undermine by AI systems.

• AI will accelerate the already serious threat of cyber-enabled disinformation (deepfakes).
DECREASING NEED FOR HUMAN
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?
Creative Destruction

Luddite Fallacy

Joseph Alois Schumpeter
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
• 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

- 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 drove production

Erkan Öz
• Artificial intelligence will surmount human intelligence

• Singularity

• The world belongs to computers

Ray Kurzweil
SYNTHETIC BIOLOGY - XNA

Andrea Ucini
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.
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.
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.
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
THANK YOU