

# Threats beyond the Digital Divide in the Post-Digital Ecosystem

Dr. Mustafa Emre Civelek



İSTANBUL TİCARET  
ÜNİVERSİTESİ

# NEW ECOSOCIAL SYSTEM

- How the **digital economy** will change the world in the future?
- Digital economy can be described as a new economic system that is formed by the **increase in productivity** and the **decrease in costs** as a result of automation technologies.
- Digital economy has been influential on the habits, lifestyles, views, and perceptions of individuals. Therefore the new system called as **new ecosocial system**.
- The new ecosocial system can be defined as new trade, business, communication and lifestyles and **increases uncertainty** in the technological environment.

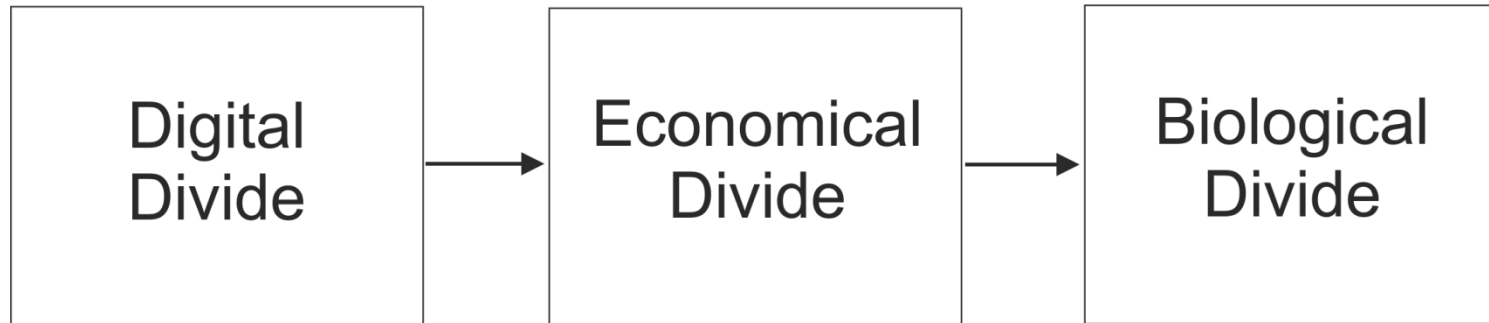
# NEW ECOSOCIAL SYSTEM

- Due to the borderless nature of the Internet, the **borders of the countries** have lost their significance in the new ecosocial system.
- The increasing productivity allows the firms to do more works with **fewer employees**.
- While it is expected that the manufacture of products at a lower cost to bring abundance, and cheapness. But it will cause **the crisis**.
- Because the people who will consume the products are **losing their jobs**.
- While today's companies are much more productive than the old ones, but **competition** in the environment higher than before.
- This is a **vicious cycle**. Because existing systems cannot respond to this problem.

# INTERNET AGE DYNAMICS

- The internet, as a new technology, **eliminates many business lines** but does 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.
- The most important **production factor** in internet economy is information.
- Today, regarding access to information, there are essential **differences** among individuals who has and has not accessed to the internet.
- This differences trigger three **consecutive dynamics** which are called as Internet Age Dynamics.

# INTERNET AGE DYNAMICS



# INTERNET AGE DYNAMICS

- The **digital divide** can be identified as the unequal distribution of technological infrastructure usage within society and the inequality of the rate of technological literacy throughout the 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** such as telephone and television.
- Such continuously widening **information gap** among these two classes are called to be the digital divide.

# INTERNET AGE DYNAMICS

- **Economical divide** means that using technology effectively make an individual as economically advantageous.
- There is a relationship between **income level** and **internet access**.
- Today, all the **routine works** are taken over by machines.
- Only a very small number of individuals who have **mastered information technology** in companies will have the opportunity to work, and all core jobs will be left to the machines.
- Today, it can be seen that all the stages of production in certain industries are made by **machines**. The plant workers are usually responsible for maintenance of the machine.

# INTERNET AGE DYNAMICS

- Owing to the progress of medical developments like stem cell technology, in the future, individuals who are **economically strong** can have a healthier and more quality life.
- This phenomenon can be called as the **biological divide**.
- Humanity is moving towards immortality through **biotechnical** applications and medical progress.
- With **cybernetic** applications mechanizing people, cyborgs will be real. While **computers are being humanized**, on the one hand, **humans are being computerized**, on the other.



# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

## According to World Economic Forum

---

Top 10 risks in terms of

### Impact

---

- 1 Water crises
- 2 Spread of infectious diseases
- 3 Weapons of mass destruction
- 4 Interstate conflict
- 5 Failure of climate-change adaptation
- 6 Energy price shock
- 7 Critical information infrastructure breakdown
- 8 Fiscal crises
- 9 Unemployment or underemployment
- 10 Biodiversity loss and ecosystem collapse

# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

- The risk of destruction of the food chain by the **genetically modified plants**.

## Top 10 genetically modified foods



**Corn**



**Soy**



**Cottonseed**



**Papaya**



**Rice**



**Rapeseed  
(Canola)**



**Potatoes**



**Tomatoes**



**Dairy products**



**Peas**

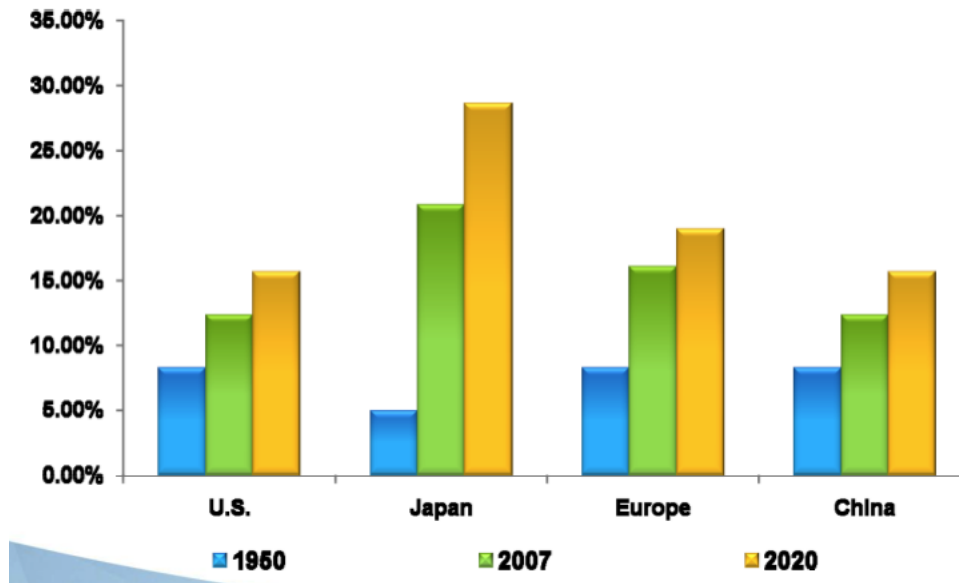
[www.HealingPowerHour.com](http://www.HealingPowerHour.com)

# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

- With the development of long living possibilities, the proportion of the **elderly** to the whole population reaches a level that never reached in world history.

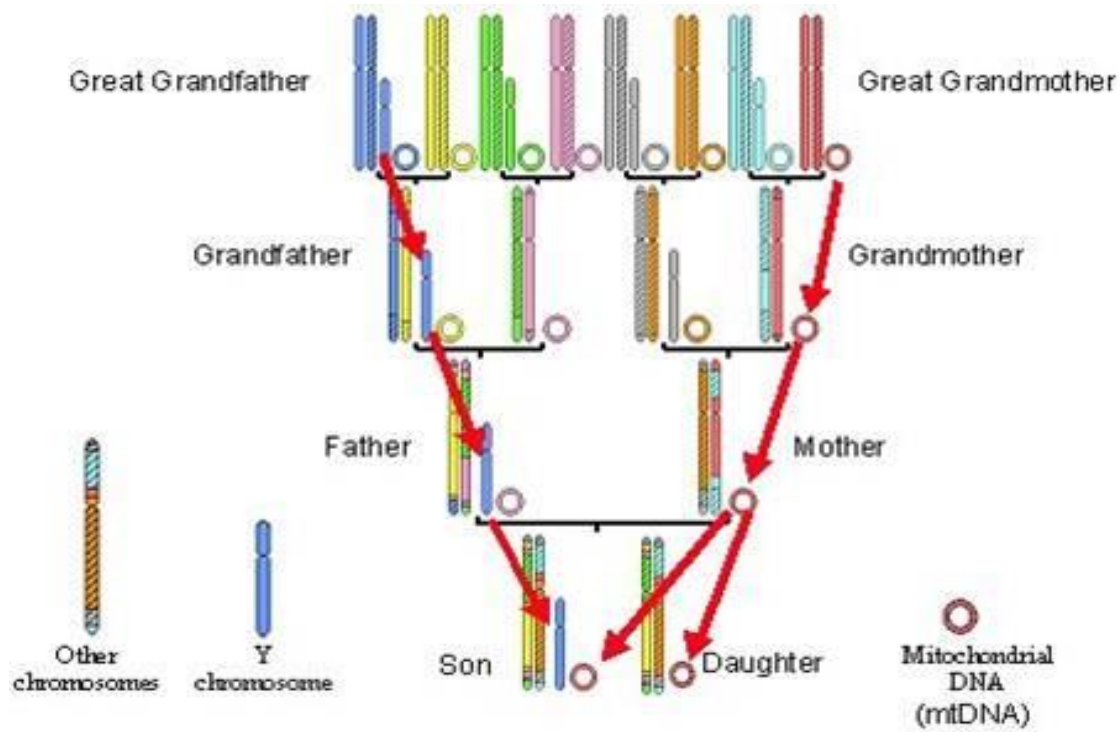
## Aging Population

% of Population Over Age 65



# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

- Parents can choose **the nature of their children**. This causes imbalance in population.



# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

- Parents may have the opportunity to raise the intelligence of the child to be born, causing the formation of a separate class or even new **human species** over time.



# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

- The people who are economically strong can reach a **longer life**.



# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

- Use of **robots capable of killing**. Nowadays, some countries are carrying out some projects on robot soldiers in armies.



# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

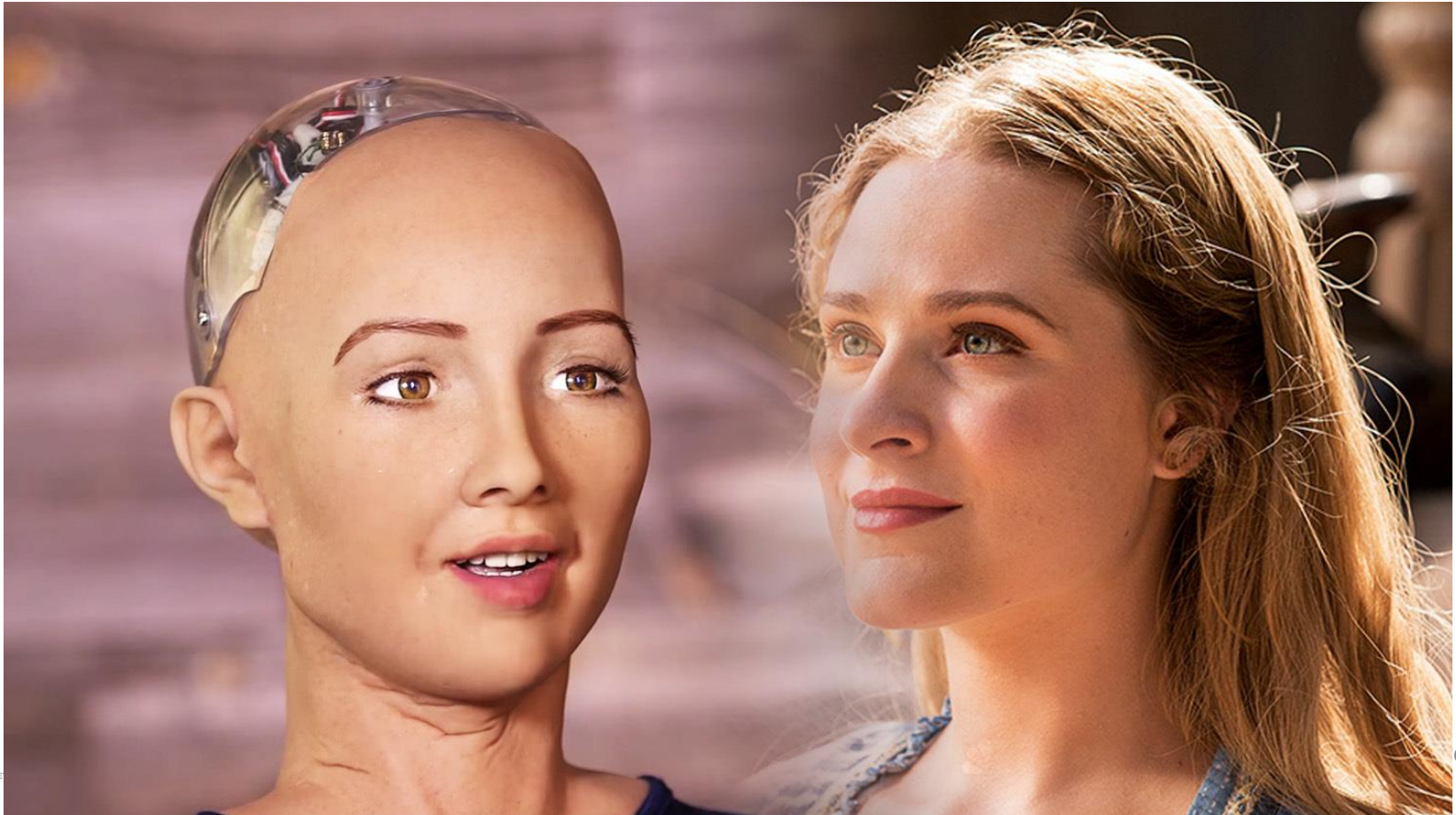
- **Robots take over jobs. Unemployment can be a business in the future.**





# EMERGING THREATS IN NEW ECOSOCIAL SYSTEM

- The development of cybernetics.
- **From Artificial Intelligence to the half-human half-machine creatures.**



The background features a series of overlapping, 3D-style rectangular blocks in teal, dark blue, and yellow, set against a white background. The blocks are arranged in a grid-like pattern, with some blocks appearing to be in front of others, creating a sense of depth. The colors are vibrant and the overall style is modern and minimalist.

THANK YOU