

How has technology influenced globalization?

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1. Globalization – Introduction

“

Globalization is the free movement of goods, services and people across the world in a seamless and integrated manner

”

(Def.: Oxford
Dictionary)

Globalization also means to increase their base of operations, expand their workforce with minimal investments, and provide new services to a broad range of consumers

2. Changes due to Globalization...

Globalization ↔ Technology development

For Globalization:

- Rapid transport
- Instant communication
- International network of markets
- Stock management
- Law of diminishing returns

From Globalization:

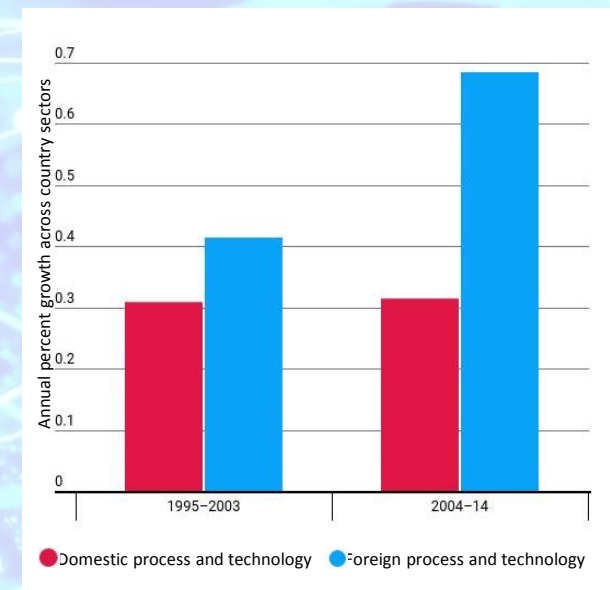
- Transnational companies (TNC)
- Niche markets
- The international exploitation of nationally produced technology
- The global generation of innovation
- Global technological collaborations
- Worldwide and internal inequalities

2. ...and Trends

Inequalities and global technological collaboration

Data Countries or areas	N° of shares in <i>hi-tech</i> exports	scientific papers co-authored (% world)	strategic technology partnering (% world)
Eastern Europe	/	8.9	2.5
East Asia	90.1	2.1	3.8
Latin America	5.8	2.9	0.2

Economics of knowledge



▲ International Monetary Fund (IMF)

Source: *Technological Forecasting & Social Change* 70 (2003) 861 – 883, Daniele Archibugi, Carlo Pietrobelli .

3. Causes and Effects of the Changes...

Energy
Supply



Pollution



Industry Dislocation
and Labour



Addiction



3. ...and Trends

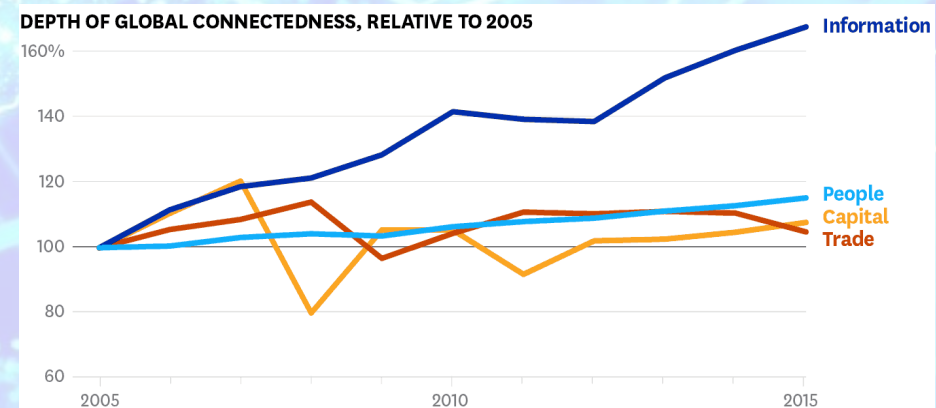


- Increasing world imbalances: the poor remain poor and the rich become richer (domestic and international scale)

Because
of

Need bases of education, human capital and domestic research and development

- Privacy of Big Data
- Degree of protection and respect of intellectual property rights



▲ DHL Global Connectedness Index

4. Risks of Globalization regarding Technology

4 main risks:

- Expansion of asymmetric warfare
- Increased competition for scarce resources
- Corrosion of state power
- Strengthened fundamentalism



4. Risks of Globalization regarding Technology

John Gray stressed the dangerousness of the possible risks, defining them as “disadvantages that people have to try to avoid not to damage the Internet world which includes technology development”.



▲ John Gray

Another serious cause is the lack of natural resources increasing competition.

5. Opportunities from Globalization for

Technology

In large scale:

- Enhances development and economic growth
- Increases access to technology and wealth
- Reduced costs of production and services
- Encourages emerging markets
- Waste reduction



5. Opportunities from Globalization for Technology

In small scale:

- Improves access to information (World Wide Web)
- Saves time
- Innovation in many fields
- Improved banking
- Better learning techniques



5. Opportunities from Globalization for Technology

Globalization gives society the opportunity to research, generate and develop solution for Earth's problems in world scale

Problems → Solutions



Air Pollution

Policies, Taxes



Fossil Fuel about to Disappear

Discovery of new energy sources



Lack of Resources

New side Materials

Need of Rapid Transport

Super Fast Trains and more Air Traffic

6. In Conclusion...

Technology is the vital force in the modern form of business globalization and they are interlinked: none of them can develop without the other. Their relationship has taken all the concept to the next level involving new pleasures but also new threats. The reciprocal effects define new possibilities of control and power that in turn determine competition, effort and psychologic wars sometimes, with people prevailing one over another, countries over countries and companies over companies. With these new risks and side effects we must place the planet as our first priority and let fall apart the economic-politic divergences to rescue our society.