

2019-2020 (Fall) Poster Presentations

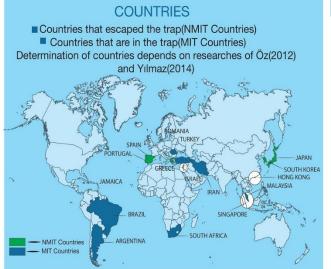


MIDDLE INCOME TRAP

Yaşar Univesity, Faculty of Business, Department of Economics Ayberk Sevinç Atakan Önkan Derin Giz Badur Gizem Evirgen Seçkin Aydın

INTRODUCTION

Middle-income trap(MIT) is a situation where countries get stuck at a certain GDP per capita level for a long time and unable to increase their income level due to lack of high-tech production and skilled labour force.

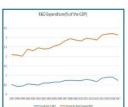


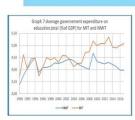
Parameters that effect middle income trap

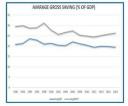
- 1. GDP per capita
- 2. High technology export
- 3. Research and development expenditure(% of GDP)
 - 4. Gross saving(% of GDP)5. Average years of schooling
 - 6. Skilled labour force(% of labour force)
- 7. Government expenditure on education(% of GDP)
- 8. Domestic credit to private sector(% of GDP)
 - 9. Quality of Education

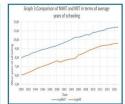
Parameter Comparison of MIT and NMIT countries in terms of their Average

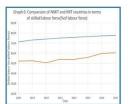


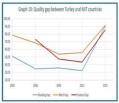


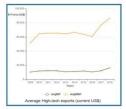


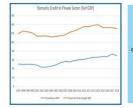












CONCLUSION

In conclusion, the abilty of a country to reach high income level mainly depends on the quality of labour, rate of R&D expenditure and high-tech export. Those factors help countries to reach more advanced technology level and give them the ability to compete in international markets with their value added and knowledge intensive products. Escaping from middle-income trap relies on improving all parameters that has shown in this poster.

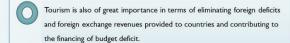


Adviser: Prof. Dr. Durmuş Özdemir

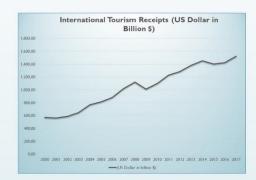
RELATIONSHIP BETWEEN TOURISM REVENUES AND ECONOMIC GROWTH FOR

INTRODUCTION

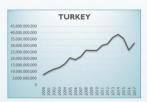
The tourism sector in the world is gaining great potential. Since the 20th century, tourism has been the fastest growing sector in the world economy.

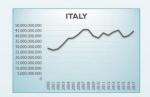


The scope of this study is selected five Mediterranean countries (Turkey, Spain, Greece, Italy, Malta) within the period of 2000-2017 and the relationship between tourism revenues and economic growth are examined and discussed.











GROWTH & TOURISM

Tourism, one of the most critical service sectors, has become a pivotal position to increase the welfare level of the country by accelerating its economic growth, especially in developing countries with tourism potential.

Tourism revenues are particularly influential on the main factors affecting economic growth, such as the balance of international payments, tax revenues, foreign exchange inflows, employment, and income levels.

According to the World Tourism Organization, income from international tourism has increased to the US \$ 1,526 trillion in 2017 (UNWTO, 2017). In 2000, tourism revenue was the US \$ 570.988 billion worldwide, and in 2017, tourism activities rose to the US \$ 1,526 trillion, an indicator of





Mediterranean countries have been one of the leading countries in terms of tourism revenues in recent years. Italy and Spain are the two leading countries in this sense. In addition, the fact that tourism in selected countries is a tool for economic growth should not be overlooked. The table below shows the ranking of selected countries in the world and the

GREECE

		Mediterranean	
Countries	World Ranking	Ranking	
Spain	3	2	
Italy	7	3	
Turkey	13	4	
Greece	23	6	
Malta	89	17	

SUPERVISED BY DOC.DR. UMUT HALAC



IMPACT OF UNEMPLOYMENT AND INFLATION ON ECONOMIC **GROWTH IN TURKEY**

by Selen YÜKSEL-Kutluay ÇELİK-Hatice Nur UYSAL Oğuzcan ÇAKAR-Aslıhan ÖZDEMİR

ADVISOR Meltem Ince YENILMEZ



Inflation and unemployment are the two main variables affecting economic growth for the countries. The crisis is undoubtedly one of the most important factors that have deteriorated economic growth. Structural deterioration between unemployment and inflation in the economy has negatively affected economic growth in Turkey.







• METHODOLOGY



fx EQUATION





CONCLUSION



9.486 7.578

1987 1997

2001 2009

2.827

-4.704

-5.962

















Advisor: Ayşe Özden BİRKAN

DEINDUSTRIALIZATION

Melisa ARAS Mehmet Azad DENLİ Sercan AYDEMİR Akif KAYACAN Arda ÖZDEMİR

RESEARCH OUESTION

* This research's main question is how does deindustrialization impact on economy according to underdeveloped, developing and developed countries with the reasons of deindustrialization?

DEFINITION AND SUMMARY OF DEINDUSTRIALIZATION

The share of the industrial sector in employment and output has a decreasing trend and points to the economic and social consequences of this loss the loss of industrial capacity.

- . The main reason for non-industrialization is that production grows faster than
- Deindustrialization is not a negative phenomenon, but natural consequence of further growth in developed economy.
- . The key cause of deindustrialization is that productivity in manufacturing grows faster than services.
- · Future growth in the developed world is likely to be due to increased productivity growth in services.

DEINDUSTRIALIZATION IN UNDERDEVELOPED COUNTRY

Niger: Share of economic sectors in the gross domestic product (GDP) from 2007 to 2017



- . Employment in manufacturing as a part of total employment has been falling dramatically.
- . De-industrialization has created a significant concern in the affected economies.

DEINDUSTRIALIZATION IN DEVELOPING COUNTRIES

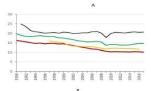


Brazil: Share of economic sectors in the gross domestic product (GDP) from 2008 to 2018



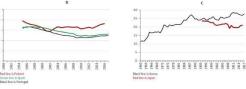
The deindustrialization of developing countries and the abandonment of the industry without making sufficient contribution to the growth of the manufacturing industry has the potential to create an obstacle for the growth of these countries

DEINDUSTRIALIZATION IN DEVELOPED COUNTRIES



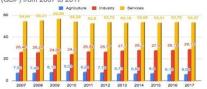
Two types of indicators were used to understand the structure of change in manufacturing sectors while examining selected countries. The first of these is the share of manufacturing industry in

Gross Domestic Product (GDP).



HOW ABOUT TURKEY?

Turkey: Share of economic sectors in gross domestic product (GDP) from 2007 to 2017



ECONOMIC IMPACT OF DEINDUSTRIALIZATION

- . Declining share of the manufacturing industry in GDP,
- Decrease in the ratio of those employed in the manufacturing industry.

ADVANTAGE OF DEINDUSTRIALIZATION

- . Declining share of the manufacturing industry in GDP
- . Decrease in the ratio of those employed in the manufacturing industry,

DISADVANTAGE OF DEINDUSTRIALIZATION

- · Those who migrate from rural areas to urban areas work in small jobs or in the service sector instead of in the manufacturing industry
- · When the effects of de-industrialization on employment are examined, it is seen that the low-skilled labour force receives the heaviest blow
- · In underdeveloped countries, both employment and real value added have declined strongly.
- · Decreasing industrialization emerges as employment losses, increasing inequalities and declining innovative capacity for developed countries. For underdeveloped countries, however, it has serious economic and political consequences.

REFERENCES

Transformation. INIT Working Paper, WP/12/223
Rowthorn, R. and Coutts, K. (2004, May). De-Industrialization and the balance of payments in advanced economies Rowthorn, R. and Ramaswamp, R. (1997). Definitional factors and implications. Economic issues, (10). International Monetary Fund. Rodrik, D. (2016). Fermature deindustrialization. National Bureau of Economic Research Working Paper 20935: 1-10.



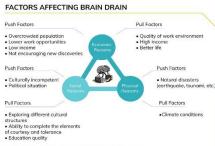
DEPARTMENT OF ECONOMICS - SENIOR PROJECT IN ECONOMICS - I THE IMPACT OF BRAIN DRAIN ON ECONOMIC GROWTH: CASE OF TURKEY

Advisor: ASST. PROF. FATMA NUR KARAMAN KABADURMUŞ

Büşra KILIÇ, Egemen Berk DEMİRKAPI, Hasret Gizem GÜMÜŞ, Oğuzhan AKSOY, Seİim Kartal SAFYÜREK

MOTIVATION

Brain Drain: The international transfer of human capital resources It applies mainly to the migration of highly educated individuals from developing to developed countries. Many studies shows that human capital is a key factor for economic growth and sustainability. Therefore, the aim of the project is to study the effects of brain drain on economic growth.



TURKEY'S PROJECTS TO REVERSE BRAIN





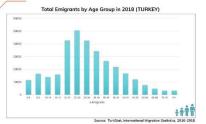


DATA & METHODOLOGY FINDINGS

LITERATURE REVIEW

Beine, M.A., Docquier, F. and Ropoport, H.(2003)	Brain Drain and LDCs' Growth: Winners and Losers	*US data on migration rates by education levels *Panel-data regression analysis	 Brain drain appears to have negative growth effects in countries where the migration rate of the highly educated is above 20%
Tunali, I. (2003)	Background Study on Labour Market and Employment in Turkey	Wage Structure Rural Employment	 Turkey's population is characterized by low levels of human capital (as measured by formal schooling)
Ozden, Ç. & Schiff, M. (2007)	International migration, economic development and policy	The book includes several chapters on micro, mocro and case studies	 Increase in remittances leads to reduction in migrant-household poverty Migration has a positive impact on all measures of educational attainment
Altug, S., Filiztekin, A. and Pamuk, Ş (2008)	Sources of long-term economic growth for Turkey, 1880–2005	 Growth-accounting approach 	 Human capital considerations appear critical at key junctures of Turkey's growth experience.
Filiztekin, A. (2009)	Regional Unemployment in Turkey	Data: General cencuses (1980-2000) Spotial and nonparametric techniques	Wide general unemployment disparities Human capital and demand deficiency are the sources of observed disparity across provines.
Di Maria, C. and Lazarova, E.A., (2012)	Migration, Human Capital Formation, and Growth: An Empirical Investigation	=130 developing countries for 1990 and 2000	 70% of the population in the sample suffers lower growth as a consequence of skilled migration
		2 7 77 7	

DATA



00		Countries	Between
00			2006-2018
00		Germany	18,124,000
00		Netherlands	2,531,493
00		Austria	2,053,380
		United States	1,382,473
0		Belgium	1,231,308
0		United Kingdom	1,015,223
10		Switzerland	624,089
)	TOTAL 2007 2009 2009 2009 2011 1021 2021 2021 2024 2025 2026 2027 2028	Sweden	556,189
	-Germany - Notherlands - Austria - United States	Australia	515,710
	—Belgium —United Kingdom—Switzerland —Sweden	Denmark	417,423
	—Australia — Dearmark		
	Country of birth/nationality: Turkey		

METHODOLOGY

$$\ln\left(\frac{y_{i,t+T}}{y_{i,t}}\right) = \alpha + \beta_0 \ln y_{i,t} + \beta_1 M_{it} + \beta_2 X_{i,t} + \beta_3 D_{i,t} + \varepsilon_{i,t}$$

D., Dummy if migration to foreign countries is higher than national average (43.5%)

 ${\cal X}$: set of control variables (public investment to GDP ratio, population growth, education).

NET MIGRATION VS. INTERNATIONAL MIGRATION





Source: TURKSTAT

REFERENCES

Barro, R.J. and Sala-i-Martin, X., 1995. Economic Growth", McGraw Hill, Boston MA.

Gezici, F. and Hewings, G.J., 2004. Regional convergence and the economic performance of peripheral areas in Turkey. Review of Urban & Regional Development Studies, 16(2), pp.113-132.



Migration Data Portal https://migrationdotoportal.org/data?i-stock.perc.&c=2019&cm49=840

OECD (Migration) Mtps://www.oecd.org/migration/





THE IMPACT OF INDUSTRY 4.0 ON EMPLOYMENT IN TURKEY

Adnan Kabakçı Mustafa Yusupov Oğulcan Yıldırım Önur Karabağ Simge Vurmaz



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Will unemployment increase or decrease?

Does Industry 4.0 affect production and technology?





Industry 4.0 primarily aimed at the digitalization of operations and the integration of production with technology. This study aims to reveal the prospective effects of the industry 4.0 on the current structural unemployment rates in such a conjuncture, the reasons and the solution proposals for policymakers. Moreover, the possible contributions of the new business dynamics of industry 4.0 to employment will be discussed in the light of economic theories such as creative destruction theory.

- To provide the brief literature review about the effect of Industry 4.0 on
- To indicate the reflections of industry 4.0 on production process and technology.
- >To review possible changes in unemployment types.



Introduction

Industry 4.0 will provide a more skilled labor force that supports economic growth of Turkey in the increasing global competition chain. Although technological innovations that have emerged since the first industrial revolution have increased unemployment level in the short-run, these effects may accelerate employment level in the long-run. In more detailed, the demand for white-collar and blue-collar workforce will be replaced by a skilled labor force.



Data and Methodology

- > The dependent variable of this model is the unemployment rate.
- > The independent variables of this model are R&D as a percentage of GDP, Employment of Higher Education as a (thousand people), Medium and High technology export as a percentage of manufactured export.
- > Which will be estimated by OLS method and time series analysis between 2003-2016 years for Turkey.

Will some professions disappear?

How does Industry 4.0 affect employment?



What is industry 4.0?

Industry 4.0 opens up a world's door where the physical equipment, parts, tools and machines that complete the production process will communicate with each other over the information technology. Industry outputs of complex physical machines and devices, which are integrated with software and network sensor devices, offer a new economic value.











Study of	Data & Methodology	Result
Yükxel and Sener (2017)	The contrat analysis method is employed to analyze the answers from the participants. Study was conducted with a working group of 13 people determined by criteria sammiling and 10 nevenues.	
Amaghouss and Ibourk (2013)	Examine entrepreneurship, innovation and economic growth of OECD countries for the years between 2001 and 2009 by using panel data analysis.	Impact of innovation has become more important and higher in the presence of a positive institutional framework
Gőçer (2013)	Performs panel data analysis for horizontal cross-sectional dependence, using data from 11 Asian countries in the period 1996- 2012.	Developing countries need to produce and export high value- added technology products for high and sustainable economic growth.
Aydin (2018)	Examines the relationship between technological progress in Turkey's employment structure by the ARDL method for the years 1981-2015.	Technological progress has changed the employment structure in line with high demand for employment.
Uzay (2012)	With exports that have made Turkey's manufacturing industry between 1995-2005 R & D spending, generalized least squares method.	The currency exchange rate changes can impact on the performance of the manufacturing industry in Turkey.