



YASAR UNIVERSITY
Department of Economics

2018-2019 Academic Year Poster Presentations



Economic Crises and their Early Warning Indicators: A Case of Turkey



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Yaşar University

INTRODUCTION

According to Er et al (2014), Turkey's economy has seen growth performance of the last twenty-five years reduced. The economy grew by an average of 3.1% in the 1990-2001 period before the 2001 financial crisis. Then, in the period of 2002-2006, the economy entered a rapid growth process and the average annual growth rate increased. It was 7.2% during that period, however it slumped again to 3.3% between 2007-2012.

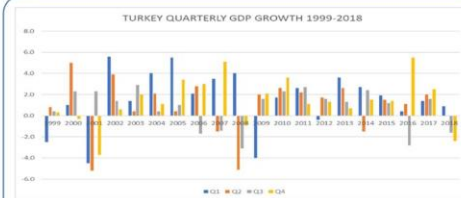
These fluctuations are what led us to choose Turkey as our focus of study since it is the country we currently reside in. This poster will look closely into the methodology and data of the research, and ultimately provide a conclusion onto Turkey's current economic status.

DATA

The data has been categorized into different time lags, with indicators that can predict crises as early as 6 years before being highlighted in the colour blue, for 3 years written in red and 1 year time lag in black.

	CONSUME R PRICE	ACCOUNT T BALANCE	ymment T labor	onal total	C CREDIT BY FINANCIA	M2 PROVIDE	WORLD GDP IN	VALUE ADDED	FDI net inflow	FDI net Outflows	
YEARS	INFLATION (annual % on USD)	T BALANCE (annual % on USD)	ymment T labor (% of labor)	total (million USD)	BY FINANCIA (million USD)	M2 PROVIDE (BILIONS TL)	WORLD GDP IN (BILION USD)	VALUE ADDED (BILION USD)	FDI net inflows (% of GDP)	FDI net Outflows (% of GDP)	
1990	60.304	150.676	-1.742	8.015	7.63	19.467	0.071	22.607	72.407	0.454	0.01
1991	65.979	150.026	0.167	8.21	6616	22.476	0.117	23.951	74.540	0.54	0.018
1992	70.076	158.459	-0.615	8.51	7507	24.866	0.19	25.439	79.41	0.533	0.041
1993	66.094	160.17	-3.571	8.96	7846	26.379	0.282	25.853	91.278	0.353	0.031
1994	105.215	130.69	2.013	8.58	8633	25.558	0.63	27.767	63.964	0.465	0.037
1995	89.113	149.488	-1.379	7.64	13890	27.764	1.256	30.971	82.421	0.522	0.061
1996	80.412	181.476	-1.343	6.63	17819	34.121	2.924	31.562	89.691	0.398	0.132
1997	85.669	189.835	-1.39	6.84	19746	34.565	5.658	31.454	97.553	0.424	0.133
1998	84.641	275.769	0.723	6.89	20567	26.818	11.423	31.374	133.771	0.341	0.252
1999	64.867	253.883	-0.861	7.69	24432	35.876	22.402	35.876	122.402	0.306	0.119
2000	54.915	272.98	-3.634	6.49	23514	37.017	31.912	33.598	143.463	0.36	0.248
2001	54.4	200.252	1.878	8.38	19911	51.799	47.241	33.4041	209.603	1.674	0.06
2002	44.964	238.428	-0.263	10.36	28348	46.301	61.879	34.686	127.293	0.454	0.154
2003	21.602	311.823	-2.433	10.54	35458	41.164	82.712	38.936	164.876	0.546	0.193
2004	8.598	404.788	-3.508	10.84	37304	40.007	108.539	43.845	213.881	0.688	0.212
2005	8.179	501.416	-4.184	10.64	52493	43.095	238.801	47.487	264.589	2.001	0.167
2006	9.597	557.487	-5.641	8.73	92336	43.977	297.734	51.446	293.861	1.653	0.312
2007	8.756	673.77	-5.468	8.87	110992	41.177	344.376	57.446	369.297	3.362	0.333
2008	10.444	764.336	-5.158	9.71	116916	52.197	436.38	63.575	422.738	2.597	0.241
2009	6.251	644.64	-1.762	12.55	112226	61.068	493.06	60.267	367.408	1.332	0.192
2010	8.566	771.902	-5.78	10.68	110.031	68.046	587.261	63.956	420.1	1.179	0.285
2011	6.472	831.524	-6.937	8.8	110504	66.651	674.409	73.317	489.540	1.644	0.47
2012	8.892	873.502	-5.488	8.15	137493	67.144	743.043	74.994	469.629	1.573	0.383
2013	7.493	950.579	-6.095	8.73	147880	72.904	908.01	77.099	505.513	1.427	0.755
2014	8.855	934.196	-4.672	9.86	141829	75.323	1015	79.198	501.268	1.404	0.593
2015	7.671	856.797	-3.734	10.24	128052	77.542	1189	74.916	458.344	2.094	0.364
2016	7.775	863.722	-3.837	10.84	129554	80.604	1406	75.997	454.363	1.545	0.317
2017	11.144	851.549	-5.561	11.26	136169	80.843	1516	80.738	453.78	1.278	0.3

GROSS NATIONAL SAVINGS											
Bank Non-perform			Total (includes bank)			SAVINGS			GDP		
FOREIGN TRADE			CURRENT			TO BANK			ECONOMIC		
YEARS	Trade of (Bilions USD)	Bank Non-perform (% of loans)	Stock index	Current to bank (% of GDP)	Bank reserves (Bilions USD)	BURDEN (% of GDP)	GDP	Economic growth (%)	Exchange rate	trend	
1990	0.915173	31.1335	1235	23.56	7.626	22.5155	0.000309	20.459	0.936	95.49996	0.003
1991	0.914775	38.509	1902	43.861	6.619	22.7729	0.010465	16.379	0.17	99.877	0.004
1992	0.915303	35.6899	1359	40.04	7.508	27.1966	0.01786	17.542	0.506	110.457	0.007
1993	0.726034	38.0779	1228	206.80	7.846	30.3024	0.023861	18.013	0.765	129.3187	0.011
1994	1.070414	50.0917	1788	27.257	6.633	27.9488	0.09984	18.385	-1.468	121.7761	0.03
1995	0.891869	43.5321	1397	80.149	15.891	26.3057	0.137575	18.953	7.878	134.5265	0.046
1996	0.902621	44.6276	0.774	975.80	17.829	15.1661	0.247305	21.156	0.738	149.4425	0.081
1997	0.878175	44.2668	0.981	2879	18.746	20.3245	0.49996	19.704	0.7378	168.1556	0.152
1998	0.975752	35.1570	4.009	2997.91	28.558	18.2834	0.60262	24.719	1.208	185.5016	0.261
1999	0.893571	39.7755	4.98	8465.46	24.439	18.4672	1.56914	21.096	-5.389	102.784	0.419
2000	0.857763	42.7866	4.266	9437.21	23.513	20.8359	1.941791	20.697	0.64	116.799	0.625
2001	1.193154	56.4019	10.494	13782.76	18.911	23.1158	3.9686	21.893	-1.592	122.946	1.226
2002	1.052159	54.1401	6.632	10369.92	28.348	16.1547	5.02097	22.704	1.643	129.301	1.107
2003	0.912791	46.2044	1.412	19625.69	35.549	14.5329	1.40704	21.568	5.808	144.076	1.901
2004	0.839653	39.4388	0.735	24971.36	37.304	14.038	4.450599	22.587	0.644	158.622	1.426
2005	0.820537	34.62235	0.499	39377.7	52.494	15.9218	2.60581	23.632	0.501	173.002	1.344
2006	0.802848	38.1547	0.346	9117.48	63.205	15.296	4.919187	24.715	0.711	211.004	1.428
2007	0.76717	38.4787	0.480	15555.39	76.495	13.1348	4.52380	23.845	0.503	260.828	1.901
2008	0.840568	38.0167	0.671	20804.07	71.675	14.2924	4.90825	24.682	1.045	608.123	1.302
2009	0.944368	43.13772	0.841	53825.02	74.933	12.8445	5.149978	22.233	-1.704	603.4021	1.55
2010	0.803479	38.37762	0.572	46004.48	85.979	18.8641	5.45938	21.971	0.847	666.9976	1.503
2011	0.792084	36.86240	0.529	12386.46	87.937	12.9398	4.89748	21.151	0	1113.607742	1.475
2012	0.909065	38.76189	0.705	79038.15	119.183	14.0354	6.179559	23.394	0.79	682.3883	1.796
2013	0.847905	41.03131	0.609	67031.79	131.054	15.4093	6.662383	23.967	0.8491	702.9466	1.904
2014	0.914911	41.4897	0.607	80169.86	127.422	14.9778	7.540857	25.148	0.5167	703.9475	2.18
2015	0.938212	45.61865	0.708	71716.76	110.446	14.4054	9.48019	25.754	0.6061	651.0460	2.715
2016	0.887352	47.35505	0.692	73995.3	105.946	14.4826	10.62845	25.341	0.3184	684.2015	3.02
2017	0.900483	53.39975	0.59	115539	107.637	14.3	12.6931	26.457	0.7441	454.725	3.64



The dependent variable is economic crisis and it has been defined by the quarterly GDP growth of the country. The crisis variable has been given the values of "1" for the years in which the quarterly GDP growth was negative and "0" for the years in which the quarterly growth was positive.

RESULTS

The set of variables that turned out to be the most effective in determining an economic crisis in Turkey were Current Account Balance, Exchange Rate, Foreign Debt to GDP Ratio and Bank Non-performing Loans.

EconomicCrisis	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]
CURRENTACCOUNTBALANCE(GDP)	9.373598	4.16222	3.42	0.001	2.5961 33.84467
ExchangeRate	1.96e+07	7.94e+07	-3.82	0.000	7.08e+11 .0005448
timed	15.38561	5.162564	4.09	0.000	3.385610 33.84467
BankNonperformingloans(GDP)	9.689140	3.029778	3.25	0.001	1.988846 16.13604
_cons	7.61e+08	3.27e+07	-3.81	0.000	1.68e+11 .0002517

Note: _cons estimator baseline odds.
Note: 1 failure and 8 successes completely determined.

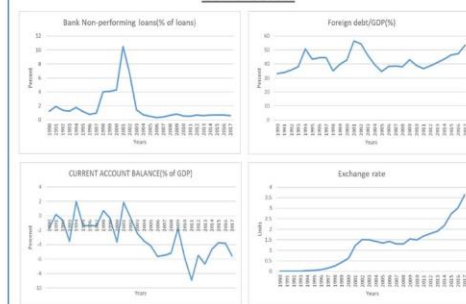
Logistic EconomicCrisis CURRENTACCOUNTBALANCE(GDP) ExchangeRate ForeignDebt(GDP) timed BankNonperformingloans(GDP).
> weibustest

Logistic regression

Number of obs	=	28
Wald chi2(3)	=	11.86
Prob > chi2	=	0.008
Pseudo R2	=	0.7720

EconomicCrisis	Odds Ratio	Std. Err.	z	P> z	[95% Conf. Interval]
CURRENTACCOUNTBALANCE(GDP)	94.43156	144.3951	2.58	0.010	2.967033 2985.346
ExchangeRate	4.97e+18	4.15e+19	-2.52	0.012	2.05e+17 .0008087
ForeignDebt(GDP)	1.671411	1.879042	-1.85	0.064	2.270027 1.042817
timed	23.22929	45.33228	2.57	0.010	2.292384 481.4746
BankNonperformingloans(GDP)	25.47764	75.20931	2.48	0.013	1.994612 225.4002
_cons	1599.17	13488.36	0.06	0.389	.0000828 3.07e+10

CONCLUSION



The above graphs seem to be showing that Turkey is in a crisis or at the very least is heading for one. When this bubble will erupt is uncertain since the bank non-performing loan indicator hasn't completely spiked yet like it did in the previous years which had crises, and thus it can be deduced that the bubble hasn't burst as of yet.

REFERENCES





DETERMINANTS OF FEMALE LABOR FORCE PARTICIPATION IN TURKEY

Advisor : Assoc. Prof. Meltem İNCE YENİLMEZ

Arda IŞIK, Merve KESER, Özlem KORKMAZ, Dilek SALGAR, A. Yavuz Selim TIĞ



Our aim is finding that how female labour force participation rate change over time and which indicators have more effect on female labour force participation rate in Turkey.



Using the OLS method, the effects of the variables on female labor force participation were analyzed between the years 2006-2013 with the annual time series data.



Policy makers should take into account the reforms and policies that will facilitate the inclusion of women in the labor market and ensure their sustainability.

General Equation

Variable	Coefficient	t-stat
Constant	-0,2130	-0,58
PRE	0,0240	0,225
SEC	0,0333	0,754
HIE	0,0206	0,388
UNI	0,0003	0,1102
FER	-0,0003	-0,566
ILF	0,0500	0,675
UN	-1,2990	-0,644
FUN	0,2310	0,391
MUN	1,0310	0,72
MAR	0,5100	3,618*
UNMAR	0,2840	5,254*
DIV	0,0087	0,217
WID	0,0890	0,692
D1	0,1790	0,509
D2	0,0467	0,343
D3	0,3250	-0,587
R2	0,997	

Equation II

Variable	Coefficient	t-stat
Constant	0,042	1,082
MAR	0,722	18,79*
UNMAR	0,288	7,964*
R2	0,993	

Equation III

Variable	Coefficient	t-stat
Constant	-1,907	-1,257
UN	-1,425	-0,211
FUN	-0,960	-0,454
MUN	2,296	0,496
D1	0,305	0,174
D2	0,725	0,834
D3	2,087	2,153*
R2	0,520	

Equation IV

Variable	Coefficient	t-stat
Constant	0,035	0,285
PRE	0,818	13,233*
SEC	0,078	0,938
HIE	-0,007	-0,116
UNI	0,055	0,812
R2	0,943	

Equation V

Variable	Coefficient	t-stat
Constant	-0,0506	-0,5679
FER	0,0002	0,2340
MAR	0,9850	26,03*
DIV	0,0120	0,4140
R2	0,973	



As a result, the lack of the data did not yield sufficient results statistically. As a result of the estimates, the effect of marital status and primary education of women on female labor force and the effect of 2008 Global Crisis on female labor force participation is statistically significant.

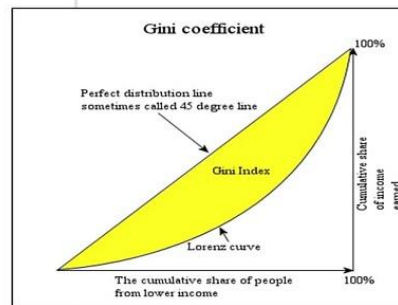
ŞEYMA GÜRGEN&MUSTAFA TEMUR&SEÇKİN YÜCEL

Income distribution is an important indicator for development of a country, because it affects the harmony of society. The impact of growth on poverty reducing and even the health of people

WHAT IS INCOME DISTRIBUTION

Income distribution refers to the distribution of the total income derived from the goods and services produced by the individuals living in a country to the individuals in those countries by means of the means of distribution.

The Lorenz curve helps to understand whether income distribution is fair. The Gini coefficient, which is derived from the Lorenz curve, can be used as an indicator of economic development in a country. If the Gini coefficient is 0, income distribute equally. However, as this number reaches 1, income distribution inequality increases



WEALTH DISTRIBUTION AROUND THE WORLD

Values are based on the Gini Coefficient, a measure of dispersion. For each country it is a calculation that represents the relative mean difference of personal income between citizens. Values are multiplied by 100 to generate whole numbers, where a value of 100 is absolute equality and 0 is absolute inequality.

INCOME LEVEL DISTRIBUTION

25-35	36-45	46-55	56-65	66+
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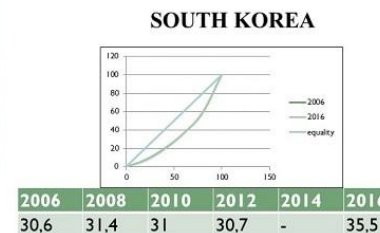
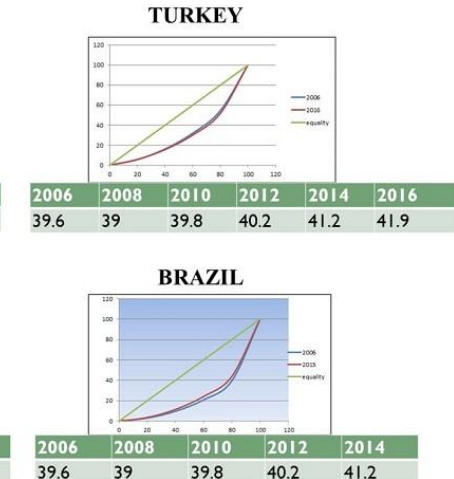
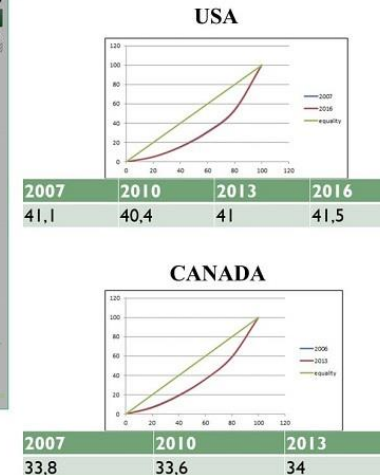
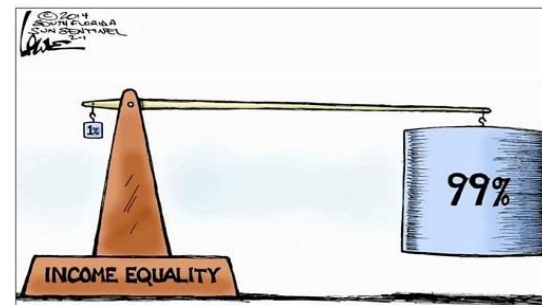
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COUNTRIES WITH 75% OF POPULATION LIVING ON LESS THAN \$2 A DAY

CHAD
NIGER
MALI
BURKINA FASO
GUINEA-BISSAU
GUINEA
SIERRA LEONE
LIBERIA
NIGERIA
CAR
D.R. CONGO
ETHIOPIA
JUGANDA
RWANDA
BURUNDI
TANZANIA
MALAWI
MADAGASCAR
MOZAMBIQUE
ZAMBIA
SWAZILAND
UZBEKISTAN
NEPAL
BANGLADESH
LAOS
TIMOR-LESTE

CIA WORLD FACTBOOK
HUMAN DEVELOPMENT SOURCES

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The Position of Turkey's Foreign Trade After 2001 to Present



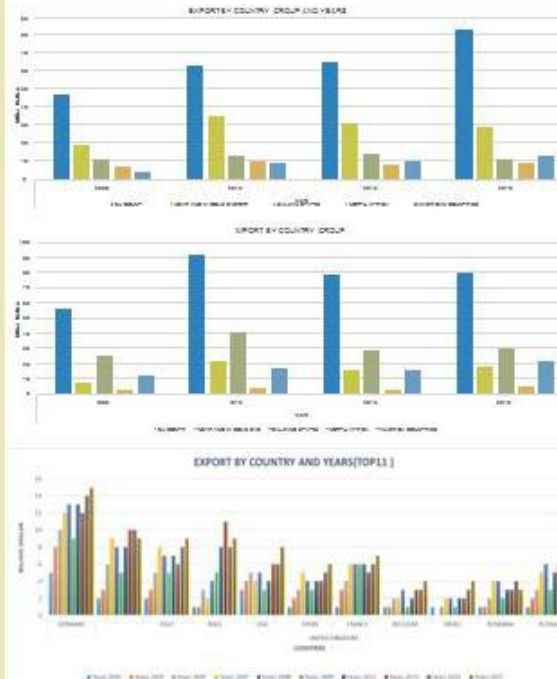
EDA ERGÜN, BATUHAN DURUKAN, TUĞÇE SELET, CEYLİN SANER

ADVISOR: DR. OZDEN BIRKAN

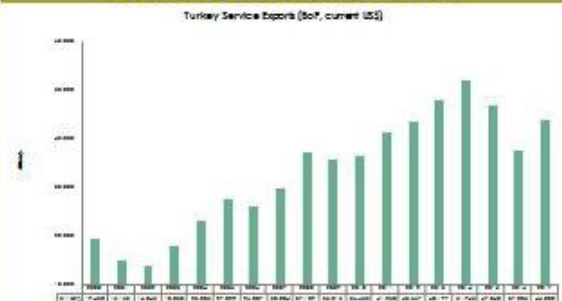
Export Commodity Composition of Turkey's Trade



Trade Partners of Turkey's Trade



Service Export of Turkey's Trade



An econometric model of Turkey's GDP Growth

- $LNGDP = f(GFC + LFC + RD + EDU + OPENNESS)$
- GDP: gross domestic product growth
- GFC: gross capital formation as percentage of GDP
- LFC: labor force participation as percentage of population
- RD: research and development expenditure as a percentage of GDP
- EDU: schooling ratio at secondary level
- OPENNESS: trade balance as percentage of GDP

		Level		1st Difference	
Variables	ADF	P Value	ADF	P Value	
<i>lnGDP</i>	0.42	0.97	-4.32	0.00	
<i>OPEN</i>	-2.16	0.22	-5.52	0.00	
<i>GCF</i>	-1.66	0.43	-5.46	0.00	
<i>LFP</i>	-0.68	0.83	-1.16	0.66	
<i>RD</i>	0.11	0.95	-5.61	0.00	
<i>EDU</i>	-0.43	0.88	-4.51	0.00	

Variable	Coefficient	Std. Error	t-Statistic	Prob.
C	25.09885	0.206316	121.6527	0.0000
OPEN	0.019004	0.006240	3.045588	0.0102
GCF	0.038948	0.005851	6.656669	0.0000
LFP	0.006636	0.003731	1.751965	0.1053
RD	0.339245	0.106917	3.172977	0.0080
EDU	0.011233	0.001830	6.136905	0.0001

R-squared	0.995043	Mean dependent var	27.35594
Adjusted R-squared	0.992978	S.D. dependent var	0.282307
S.E. of regression	0.023657	Akaike info criterion	-4.389145
Sum squared resid	0.006716	Schwarz criterion	-4.092354
Log likelihood	45.50230	Hannan-Quinn criter.	-4.348221
F-statistic	481.7903	Durbin-Watson stat	2.074423
Prob(F-statistic)	0.000000		

Conclusion

- Major trends you observed
 - In services
 - Commodities
 - Partners
- Openness is an econometrically significant factor in growth according to our data set.

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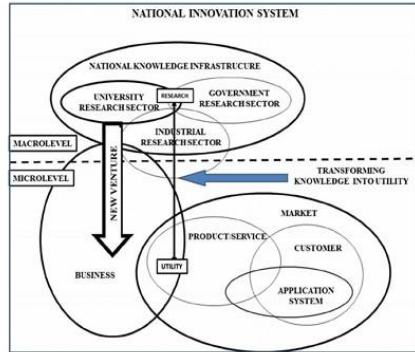
NATIONAL INNOVATION SYSTEMS : COMPARISON of SOUTH KOREA and TURKEY

Cansu KARBUZ 14020001004

Ceyda ŞENSES 14020001002

Advisor: Asst. Prof. Fatma Nur KARAMAN KABADURMUŞ

INTRODUCTION



METHODOLOGY

4-step method of Lundvall

1st step

Analyze organizational structure and human resources of firms in consideration of sector specialization.

2nd step

Analyze national and international linkages between firms in the base of knowledge.

3rd step

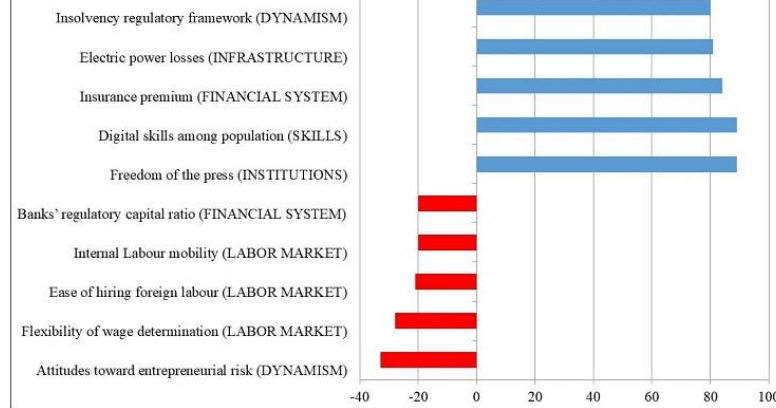
Determine the characteristics of education system, labor market, goods market, financial market, welfare government, intellectual property system which are peculiar to the nation.

4th step

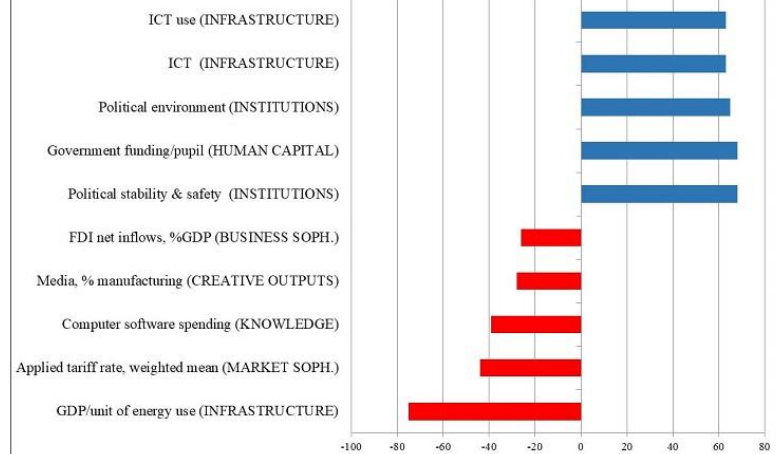
Explain the performance of the NIS

RESULTS

GCI COMPARISON OF TURKEY & S.KOREA: TOP 5 STRENGTHS & WEAKNESSES



GII COMPARISON OF TURKEY & S.KOREA: TOP 5 STRENGTHS & WEAKNESSES



CONCLUSION: TURKEY SWOT

GII TOP STRENGTHS

Industrial designs by origin (CREATIVE OUTPUTS)
Tertiary enrolment, % gross (HUMAN CAPITAL)
Intensity of local competition (MARKET SOPHIST.)
Trade, competition, & market scale (MARKET SOPHIST.)



GII TOP WEAKNESSES

Political stability & safety (INSTITUTIONS)
ICT services (KNOWLEDGE & TECH. OUTPUTS)
ICT services imports (BUSINESS SOPHIST.)
Ease of resolving insolvency (INSTITUTIONS)
Cost of redundancy dismissal, salary weeks (INSTITUTIONS)



GCI TOP STRENGTHS

Electrification rate (INFRASTRUCTURE)
Budget transparency (INSTITUTIONS)
Shareholder governance (INSTITUTIONS)
Gross domestic product (MARKET SIZE)
Airport connectivity (INFRASTRUCTURE)

GCI TOP WEAKNESSES

Terrorism incidence (INSTITUTIONS)
Critical thinking in teaching (SKILLS)
Quality of vocational training (SKILLS)
Freedom of the press (INSTITUTIONS)
Diversity of workforce (INNOVATION CAPABILITY)

OPPORTUNITIES

Young population
Geographical location
Consumer behavior of community
Climate
Low labor cost
Globalization



THREATS

Lack of innovation, R&D and high tech industries
Terrorism and War
Inequal income distribution
Macroeconomic instability
Infrastructural problems
Ineffective education and legal system



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Theoretical Models of Currency Crises in Developing Countries

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ABSTRACT

➤ Financial crises have been a topic of interest in the financial economics ever since financial liberalization period in the developing countries. The main aim of this research is set on investigating the theoretical currency crises models related to the developing countries , such as Latin America, Mexico and Southeast Asia. The currency crisis phenomenon in these countries was followed by the rapid decline in the value of domestic currencies, high reserve losses and high level of interest rates.

Table.1.Early Warning Indicators and Their Expected Signs

Indicators	Expected Signs	Reference
GDP growth (annual %)	(-)	Obstfeld (1986), (1996)
Current account balance / Reserves	(-)	IMF (1998), Frankel and Rose (1996), Berg and Pattillo (1998), Esquivel and Larin (1998), Cartapanis, Dopy and Mametz (2002)
Domestic credit provided by banking sector (Net GDP)	(+)	Corsetti, Pesenti and Roubini (1998), Kaminsky and Reinhart (1996), Kaminsky (1998), Sachs, Tornell and Velasco (1996)
Bank liquid reserves to bank assets ratio (%)	(+)	IMF (1998), Rodric and Velasco (1999)
M2 growth (annual %)	(-)	Krugman (1979)
Export (%growth) / Import (%growth)	(-)	Eichengreen, Rose and Wyplosz (1996), Berg and Pattillo (1998), Vaar (2000)
Portfolio investment / Foreign direct investment	(+)	IMF (1998)

Source: Kahraman, S. et al. (2009).

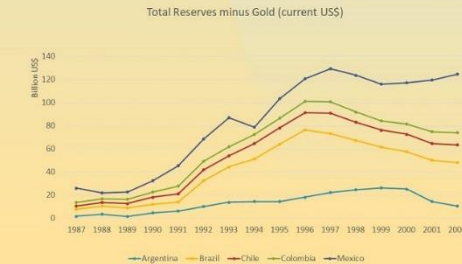
FIRST GENERATION MODELS

- Made by Paul Krugman (1979) in order to explain the crises surrounding the Latin American countries such as Argentina.
- Financial crises is a result of the increase in budget deficits that causes high loss of international reserves.
- The first-generation currency crisis was criticized for suggestion related to finance of budget deficits in an uncontrolled way.

LATIN AMERICAN CRISIS

- In 1970's Latin America became a center of speculative attacks on domestic currencies and experienced foreign external debt in 1982.
- Sharp declines in equity markets, banking sector problems.
- Lack of transparency and regulation over fiscal policy in Latin American countries.

Graph.1.Latin American Crisis



Source: IMF & WB.

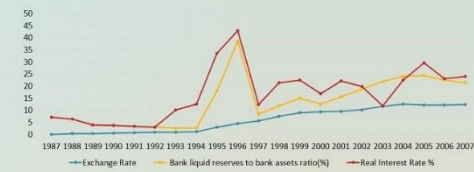
SECOND GENERATION MODELS

- Evaluates the pessimist expectations in weak macroeconomic conditions. (Obstfeld 1994)
- In case of having uncertainty, the legitimacy of the fixed exchange rate regime is undermined.
- These models are the multiple-equilibria models that Obstfeld put forward in 1986, 1994, 1996 articles.
- Decrease in the rate of return of loans that is followed by the crisis results in the shrink of the real sector size.(Durmus, 2010).

MEXICO CRISIS

- The tequila effect occurred due to a sudden devaluation of Peso against US\$ (between 13 to 15%) which caused other currencies to decline in the region.
 - Decline in international reserves,
 - Foreign capital fled which spread in emerging markets,
 - High level of USD-denominated debt (Sachs, Tornell, Valesco, 1996).
- In response to the crisis, Mexican government required to implement financial ana monetary policies and let the Mexican peso float.

Graph.2. Mexico Crisis



Source: IMF & WB.

THIRD GENERATION MODELS

- Developed by Krugman (1997-1998) in order to investigate the theoretical framework related to spread effects of the Asian Crisis.
- Identifies why a currency crisis in one country might trigger a crisis in another and why it can be contagious.
- The increase in the interest rate directly effects the line of credit and hinders the capital investment plan for the firms.

ASIAN CRISES

- Originated from Thailand and spreaded to other Asian countries during 1997. Caused high level of depreciation, collapse of stock markets, capital outflow that spread to the other countries in the area.
- According to Krugman, when the second-generation currency crisis cannot interpret the Asian crisis it can be said that; the crisis countries were stable in terms of macroeconomic fundamentals (Lane, 1999).
- Consequently, these countries were not able to maintain the fixed exchange rate regime. (Krugman, 1999).

TABLE



Source: IMF & WB.

CONCLUSIONS

- Most emerging market economies have faced currency crises after the 1980s financial liberalization period. Theoretical currency crises models have developed to explain the reasons of these crises. While first generation models indicate the importance of international reserves, the second generation models emphasize the role of speculative attacks and the third generation models consider the role of contagious effect.
- These experiences show that international reserves, Exchange reates and interest rates remain key variables and they may well reflect financial stability with policy implications.