Role of Industrial Policy in Employment Generation for Women

By

Nadereh Chamlou

Former Senior Advisor, The World Bank

High-Level Symposium on Industrial and Trade Policies
Promoting Exports and Developing Employment

Tehran, October 10-11, 2015

A plethora of international and regional analytical reports, linking women's economic opportunities to growth, competitiveness, prosperity.

Among them:

Women, Work, and the **Economy:**

Macroeconomic Gains from **Gender Equity**

Katrin Elborgh-Woytek, Monique Newiak, Kalpana Kochhar, Stefania Fabrizio, Kangni Kpodar, Philippe Wingender, Benedict Clements, and Gerd Schwartz



IMF STAFF DISCUSSION NOTE

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Fair Play: More Equal Laws Boost **Female Labor Force Participation**

Christian Gonzales, Sonali Jain-Chandra, Kalpana Kochhar and Monique Newiak February 2015

SDN/15/02

NOT long ago women faced tremendous opportunities that qual footing with e quarter century, nen and men was versity classrooms, in n in homes. Since n and girls around ed dramatically in

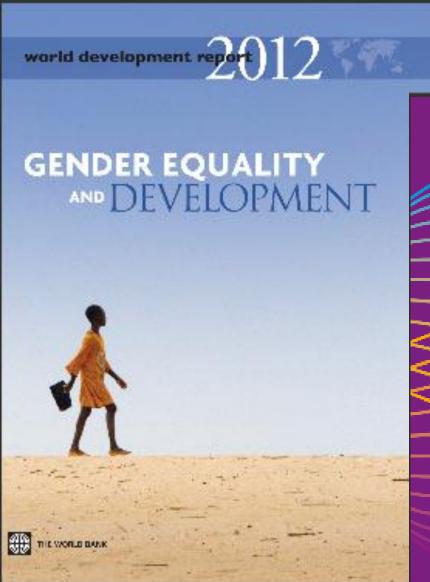


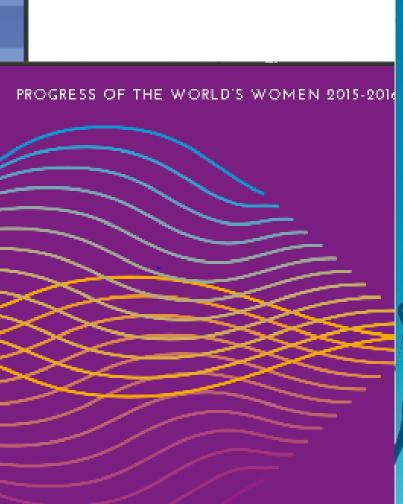
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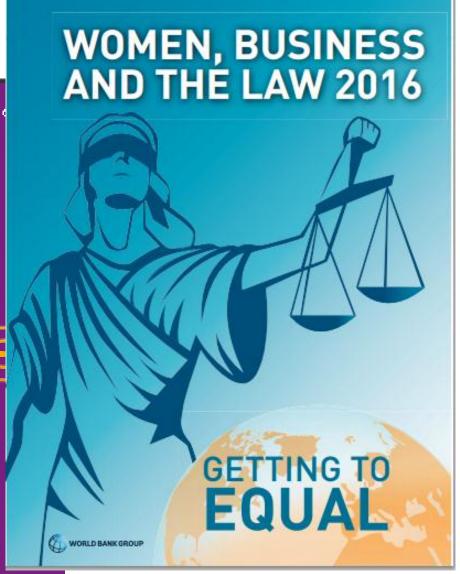
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countries-rich and developing-they are going to school ting better jobs, and acquiring legal rights and protections.

remain. Women and girls are more likely to die, relative to low- and middle-income countries than their counterparts n earn less and are less economically productive than men oss the world. And women have less opportunity to shape





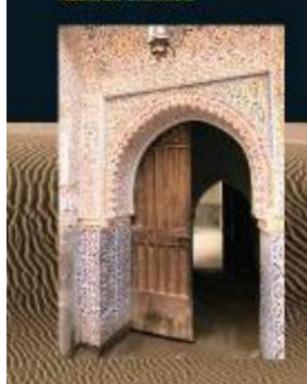


TRANSFORMING ECONOMIES, REALIZING RIGHTS



The Environment for Women's Entrepreneurship in the Middle East and North Africa

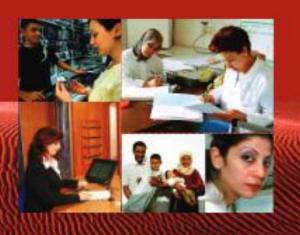
Nadereh Chamiou



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MENA DEVELOPMENT REPORT

Gender and Development in the Middle East and North Africa Women in the Public Sphere



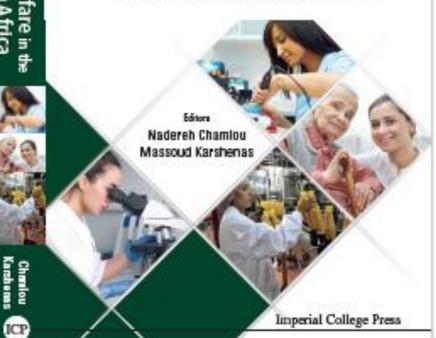


Imperial College Press



Women, Work and Welfare in the Middle East and North Africa

The Role of Socio-demographics, Entrepreneurship and Public Policies



The literature highlight women's contribution to the engines of economic growth as:

workers
producers
consumers
entrepreneurs
investors
innovators
decision-makers

and as a leaver in the competitiveness of nations.

Iran's challenge

- Low Labor Force Participation
- High levels of female education, esp. tertiary education
- High female unemployment, esp. for highly educated

- Iran's challenges are similar to rest of Middle East and North Africa, where:
 - Women outnumber men in 13 out of 18 countries
 - Labor force participation is low,
 - Female unemployment high and a multiple of male unemployment.

But, Iran's case is more acute. Elsewhere, it is said that women do not study marketable disciplines.

"As of 2006, women accounted for over half of university students in Iran^[1] and 70% of Iran's science and engineering students.^[2]

In 2012, according to the <u>UNESCO</u> data, 2,191,409 out of 4,404,614 students in tertiary education were females, thus making fifth largest female enrollment after China, India, USA and Brazil.

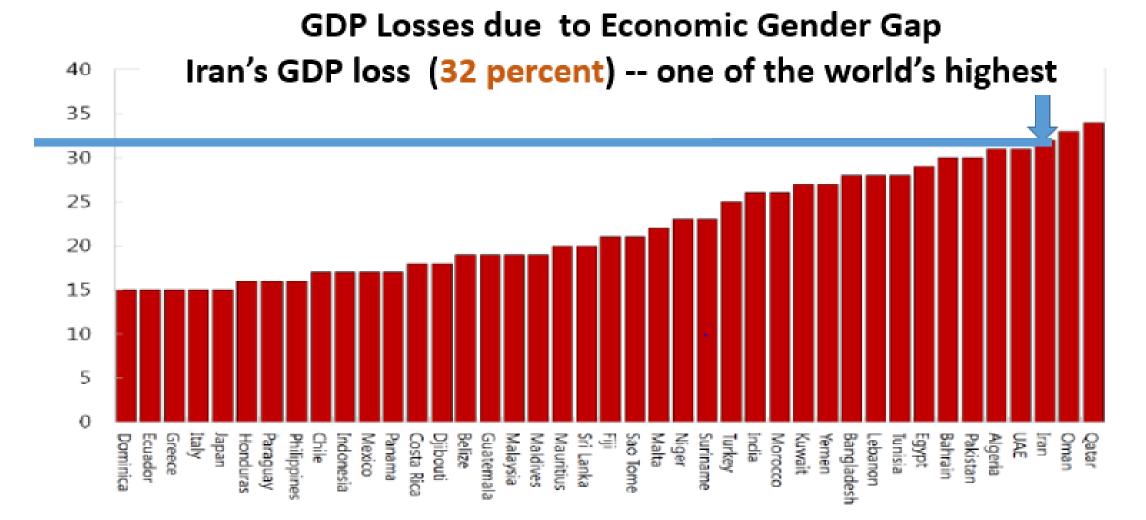
In engineering fields Iranian female enrollment ranked as first in the World, in science fields second (after USA). [3]"

Source: UNESCO: Table 15

GDP Losses due to Economic Gender Gap Iran's GDP loss (32 percent) -- one of the world's highest

4

And IMF Discussion Paper SDN 15/02, Figure 1.



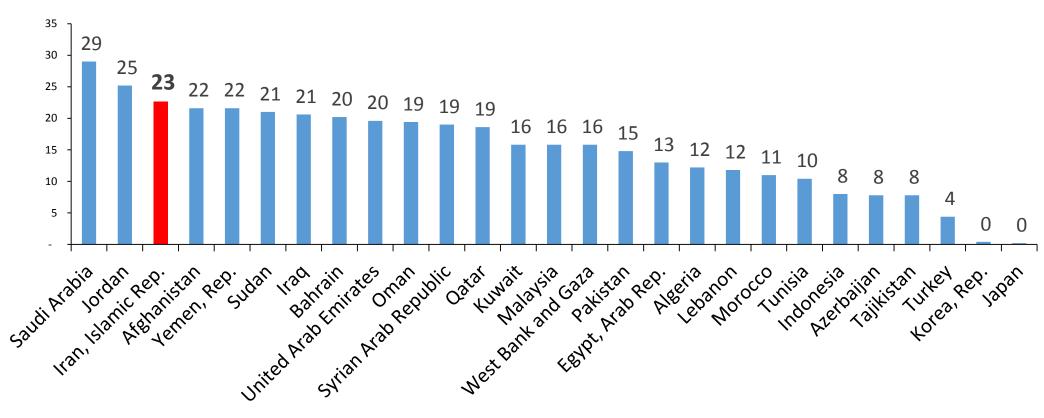
Source: Estimates by Cuberes and Teignier (2014). And IMF Discussion Paper SDN 15/02, Figure 1.

Losses are estimated for a particular year for each country and can thus be interpreted as a one-off increase in GDP if gender gaps were to be removed.

An important cause: Legal Differences

Male/Female Legal differences in Iran is among highest in the World

– even in comparison to other Muslim Countries



Source: Figure 1.2 (Number of Legal Gender Differences by Economy) – Women, Business, and the Law 2016 International Finance Corporation – The World Bank Group

Legal Differences & Secondary Education



Legal differences do not seem to affect M/F secondary education in Iran.

Using 96 countries, regression (2012) is statistically significant at the 1% level after controlling for 2014 GNI per capita.

Source: IFC – Women, Business, and Law 2016, Fig. 1.3

Legal Differences and Economic Participation



Negative relationship between the number of legal gender differences and the percentage of women employed to the population (age 15+) (2013).

Regression analysis based on 132 economies for which data are available.

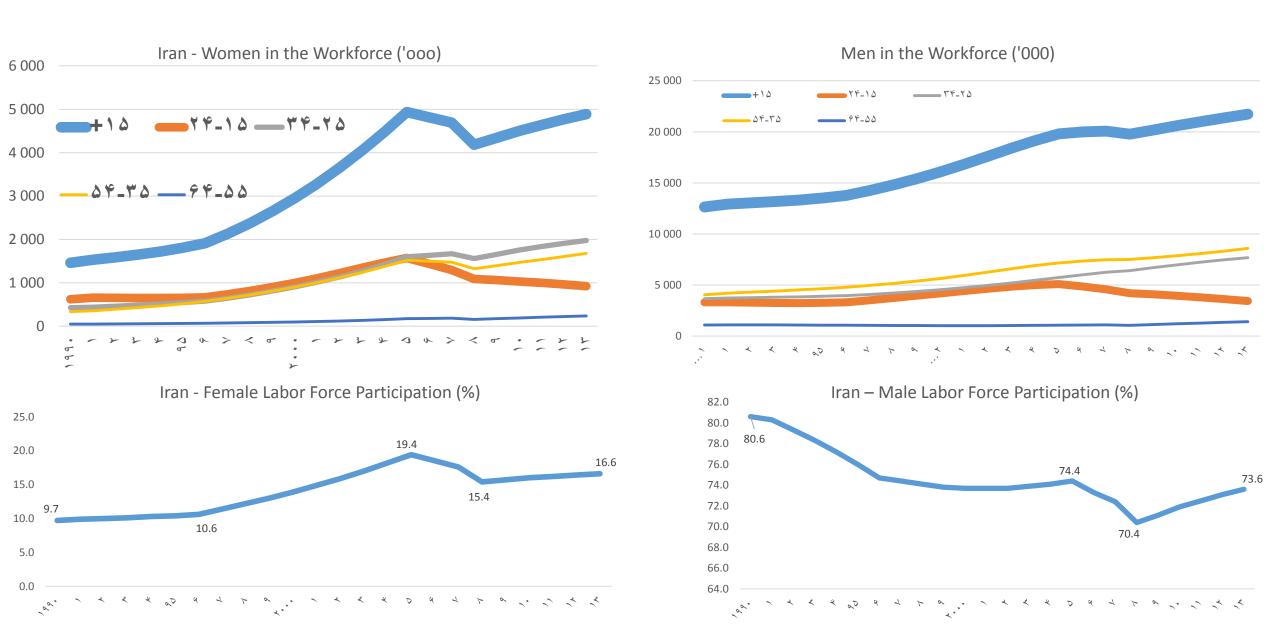
Results statistically significant at the 1% level even after controlling for GNI per capita, and ratio of female/male enrollment in secondary education (2012).

Relationship not to be interpreted as causal.

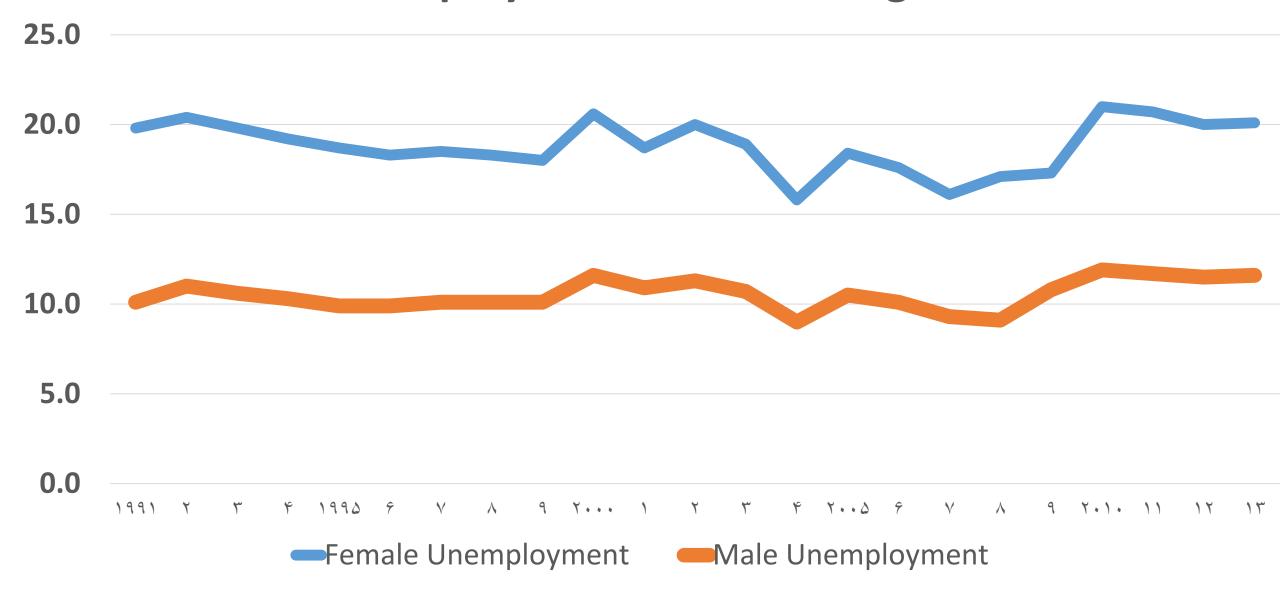
Source: IFC – Women, Business, and Law 2016, Fig. 1.3

Now, let us look at some trends

Labor Force Trends (1990-2013)

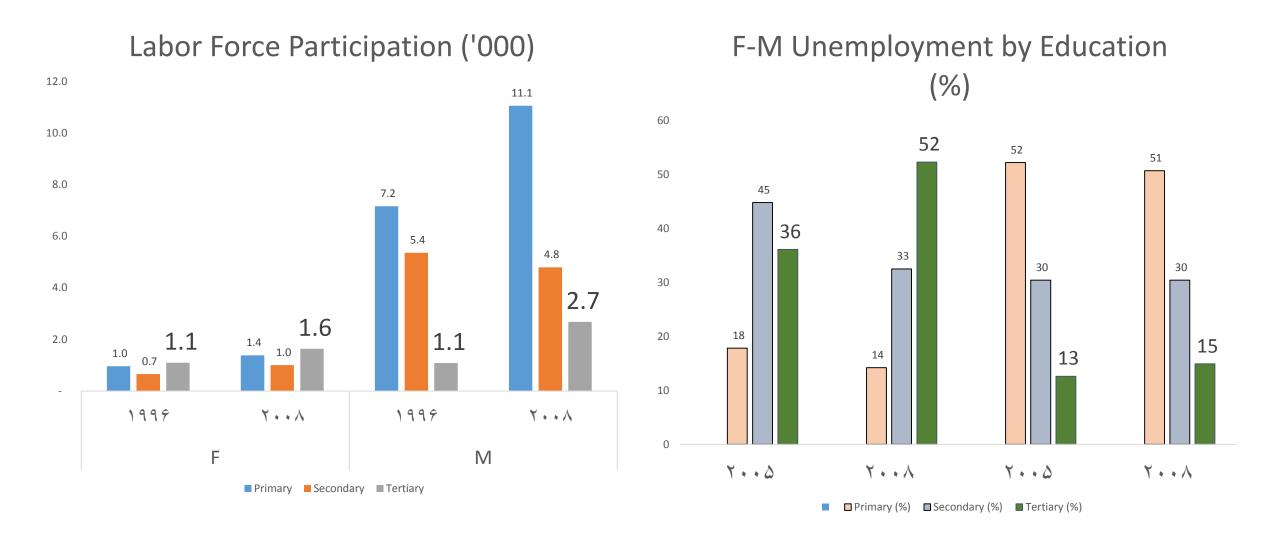


Female Unemployment – twice as high as men's

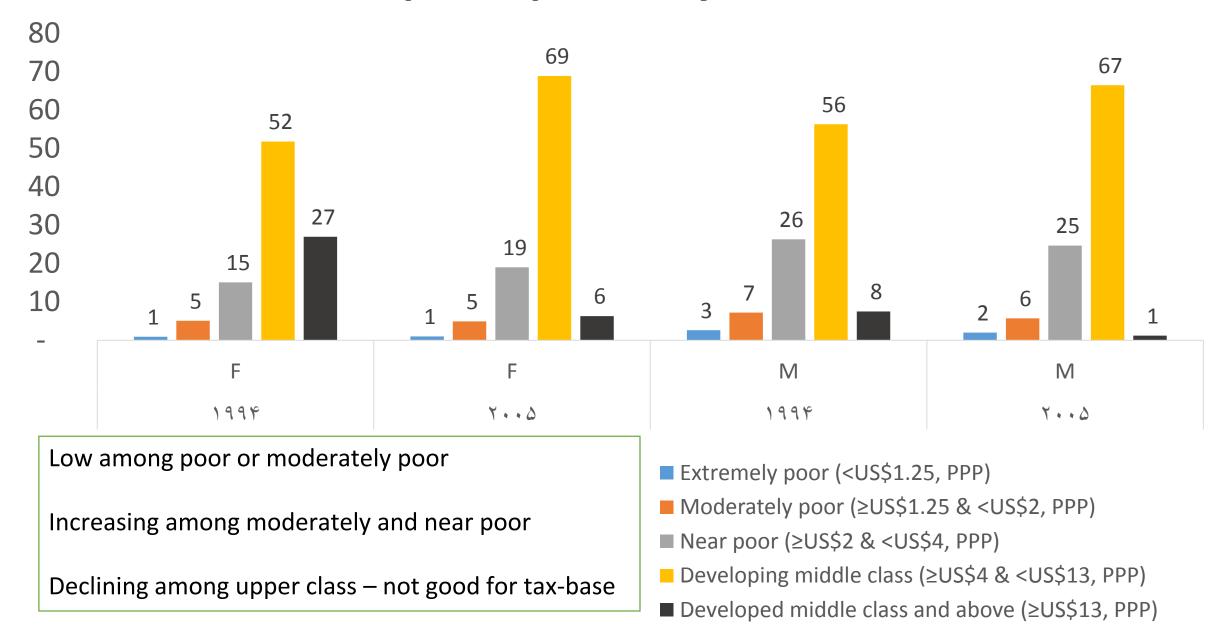


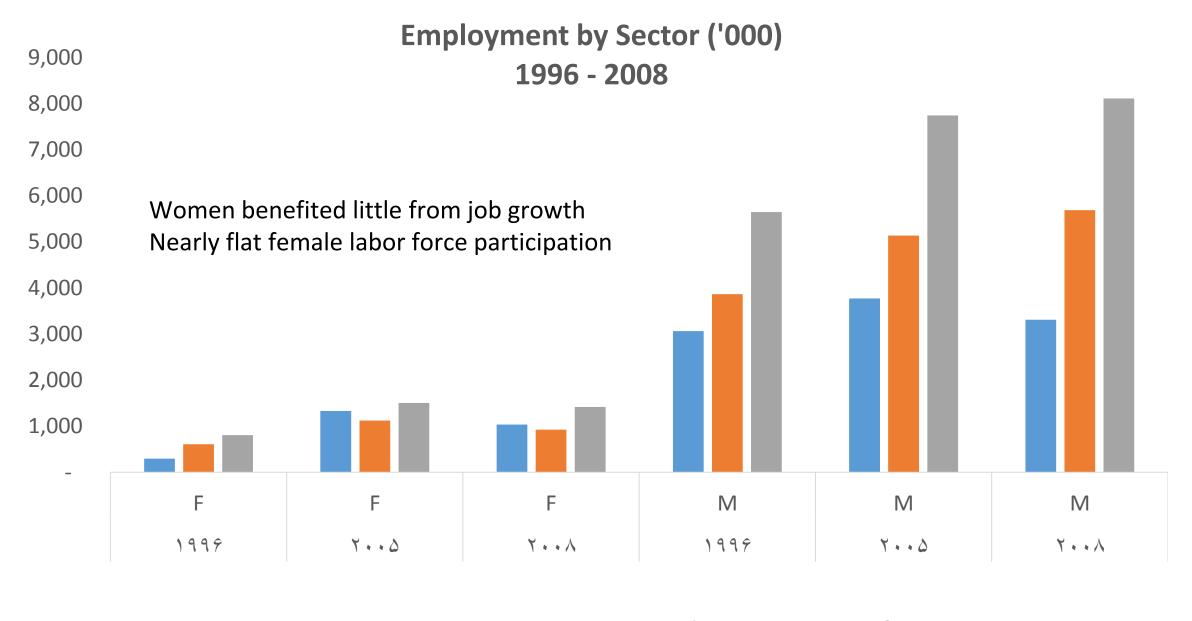
Source: KILM, 2015

Labor Force Participation and Unemployment



Economic participation by Economic Class





Source: KILM, 2015, Table 4a ■ Agriculture ■ Manufacturing ■ Services

Job Safety

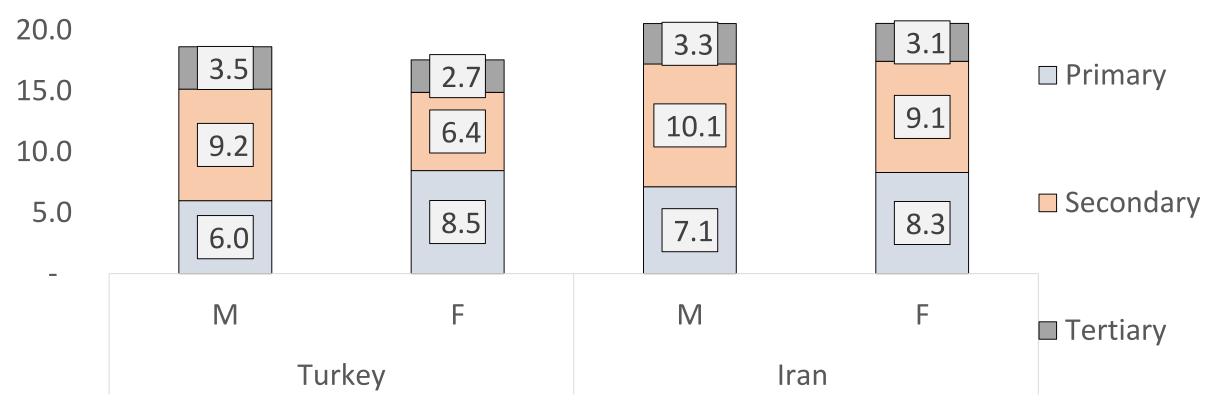


Opportunities

Deep and multi-faceted workforce

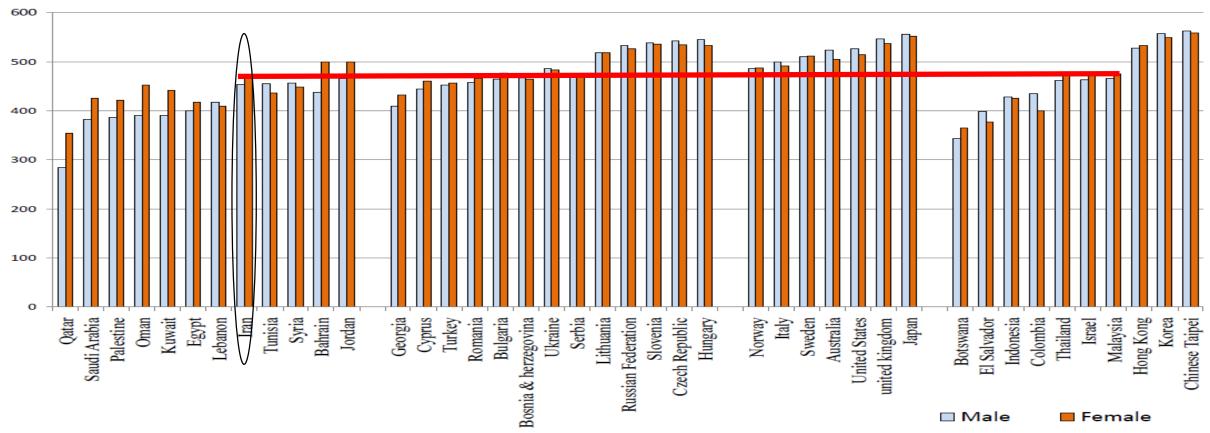
Quality Parity between male and female workers

Educational Attainment of Population above 25 - Millions -- laterst year



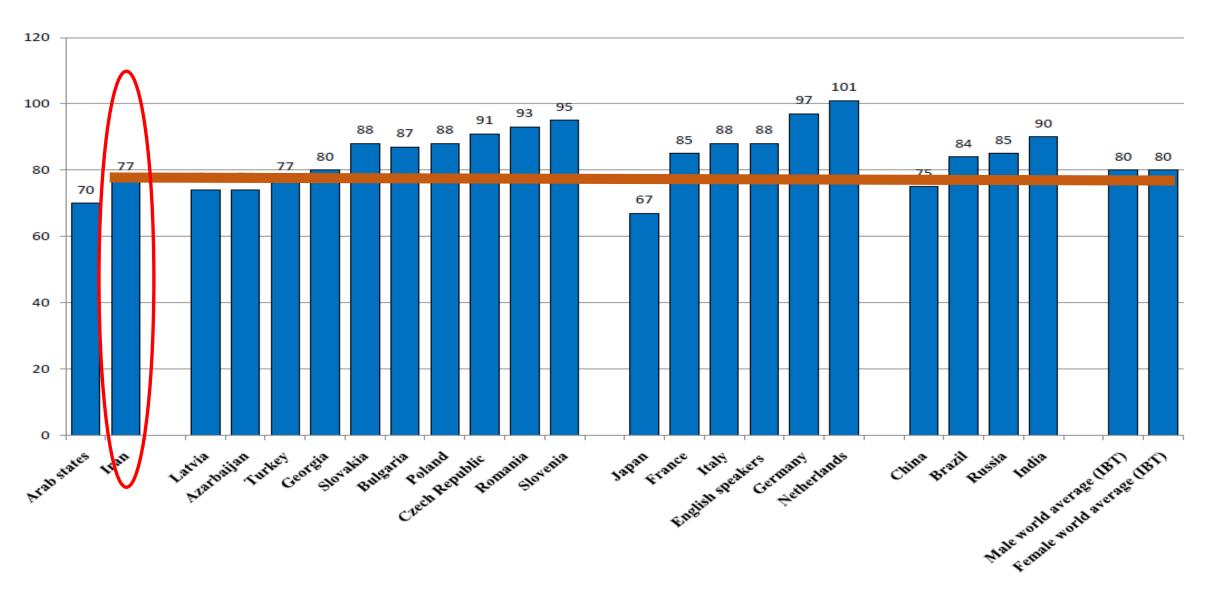
Source: UNESCO, 2015

Average science score of eight grade by gender



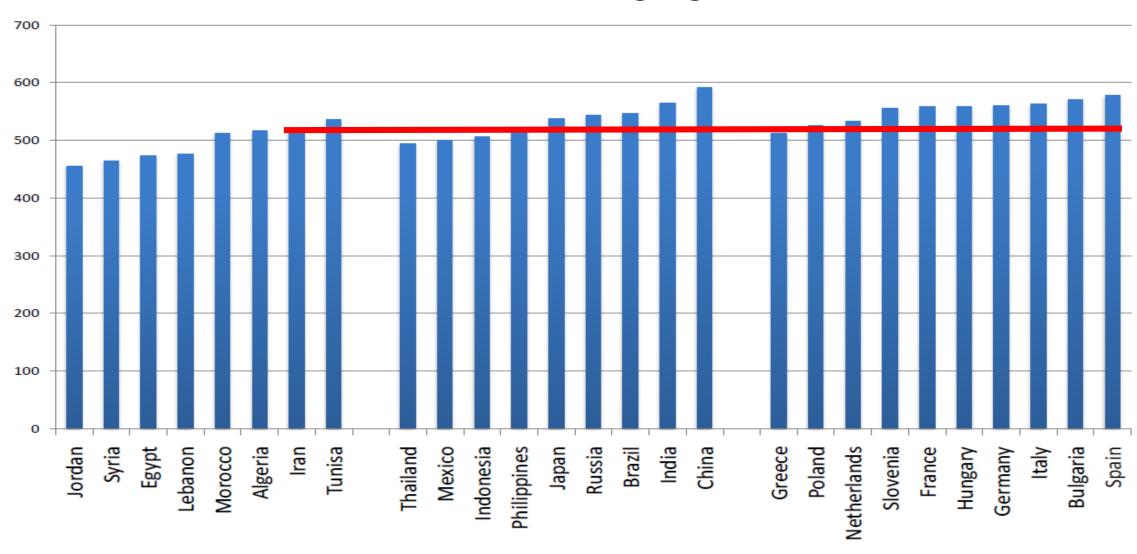
Source: Highlights from TIMSS 2007, Appendix E, Table E-30

English skills as measured by TOEFL IBT scores



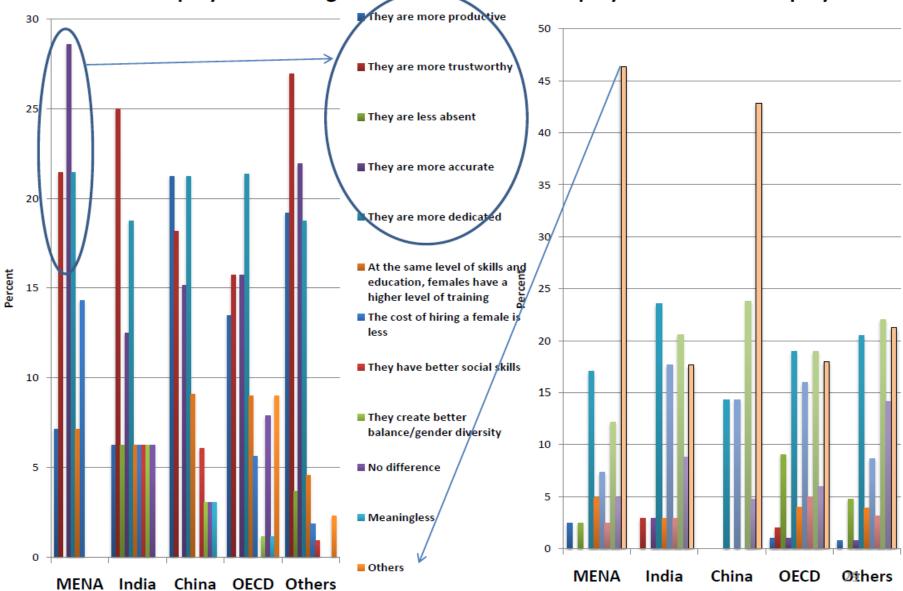
Source: TOEFL Test and Score Data Summary, January 2009 Test Data

GMAT Total Score Means by Citizenship 2008-09 as a measure of connecting to global business



Advantages of hiring female employees over male employees at foreign location They are more trustweet.

Disadvantages of hiring female employees over male employees



Country Rankings

- 22nd largest GDP in 2012
- 10th largest country taking its geographic and population size into account
- 12th largest talent pool, measured by the size of the working age population and the average years of male and female education.
- 8th largest size of university graduates per year,

Sources: Author's estimation based on UN, World Bank, and other reports.

Dank	Nominal GDP (2012)	Size	Talent pool (working age population,	Size of Tertiary Graduates per Year		
Rank	UN methodology	(population and area)	avg years of schooling)			
1	United States	China	China	31.0	China	
2	China	India	India	20.4	United States	
3	Japan	United States	United States	18.6	India	
4	Germany	Russia	Brazil	9.3	Russia	
5	France	Brazil	Indonesia	6.1	Brazil	
6	United Kingdom	Indonesia	Japan	5.1	Indonesia	
7	Brazil	Canada	Russia	3.8	Japan	
8	Russia	Mexico	Mexico	3.8	Iran	
9	Italy	Australia	Germany	2.9	Turkey	
10	India	Iran	France	2.7	Mexico	
11	Canada	Argentina	South Korea	2.4	South Korea	
12	Australia	South Africa	Iran	2.4	United Kingdom	
13	Spain	Saudi Arabia	United Kingdom	2.4	Argentina	
14	Mexico	Turkey	Italy	2.1	France	
15	South Korea	Colombia	Turkey		Germany	
16	Indonesia	Japan	Spain	2.1	Italy	
17	Turkey	France	Canada	2.1	Poland	
18	Netherlands	Germany	Poland	2.1	Venezuela	
19	Switzerland	Venezuela	South Africa	1.8	Spain	
20	Saudi Arabia	Spain	Argentina	1.7	Colombia	
21	Sweden	Italy	Colombia	1.2	Australia	
22	Iran	United Kingdom	Australia	0.8	Netherlands	
23	Norway	Poland	Netherlands	0.4	Belgium	
24	Poland	South Korea	Venezuela		Canada	
25	Belgium	Sweden	Belgium		South Africa	
	Source: UN, UNESCO, WDI					

Excerpts about Iran by from "Start-up Rising" by Christopher Schroeder

- Tremendous potential -- outstanding young engineering talent, more women then I would see in many startup communities in the States.
- While slow in broadband speeds, the country has one of the highest internet penetrations in the region, and mobile usage approaches 100%.
- Per capita income is large and this is a nation that likes to consume, e-Commerce a potential.
- It has some of the greatest cultural, historic and tourist destinations on earth, but virtually none booked online.
- Its geographic location makes it outstanding for the movement of goods, ideas and services east/west/north/south.
- Startup gatherings, attracting thousands of young people, are growing. The key is that while so much is happening in the globe bottom up -- despite the top down regimes that try to control it.

nk	Economy	DTF score	Rank	Economy	DTF score	Rank	Economy	DTF score
1	Singapore	88.27	64	Cyprus	66.55	127	Mogambique	56.92
2	New Zealand	86.91 👚	65	Croatia	66.53	128	Lesotho	56.64
3	Hong Kong SAR, China	84.97	66	Oman	66.39 👚	128	Pakistan	56.64
4	Denmark	84.20 👚	67	Samoa	66.17	130	Iran, Islamic Rep.	56.51 👚
5	Korea, Rep.	83.40 👚	68	Albania	66.06 👚	131	Tangania	56.38
6	Norway	82.40 👚	69	Tonga	65.72	132	Ethiopia	56.31
7	United States	81.98	70	Ghana	65.24 👚	133	Papua New Guinea	55.78
8	United Kingdom	80.96	71	Morocco	65.06	134	Kiribati	55.48
9	Finland	80.83	72	Mongolia	65.02	135	Cambodia	55.33
10	Australia	80.66	73	Guatemala	64.88	136	Kenya	54.98
11	Sweden	80.60 👚	74	Botswana	64.87	137	Yemen, Rep.	54.84
12	Iceland	80.27	75	Kosovo	64.76	138	Gambia, The	54.81 👚
13	Ireland	80.07 👚	76	Vanuatu	64.60 🛧	139	Marshall Islands	54.72
14	Germany	79.73	77	Kazakhstan	64.59	140	Sierra Leone	54.58
15	Georgia	79.46	78	Vietnam	64.42 🛧	141	Uzbekistan	54.26
16	Canada	79.09	79	Trinidad and Tobago	64.24	142	India	53.97
17	Estonia	78.84	80	Azerbaijan	64.08	143	West Bank and Gaza	53.62
18	Molausia	78.83	81	Fiji	63.90	144	Gabon	53.43
19	Taiwan, China	78.73	82	Uruguay	63.89	145	Micronesia, Fed. Sts.	53.07
20	Switzerland	77.78	83	Costa Rica	63.67	146	Moli	52.59
21	Austria	77.42	84	Dominican Republic	63.43	147	Côte d'Ivoire	52.26
22	United Arab Emirates	76.81	85	Seuchelles	63.16	148	Loo PDR	5145
23	Latvia	76.73	86	Kuwait	63.11	149	Togo	5129
24	Lithuania	76.31	87	Solomon Islands	63.08	150	Uganda	51.11
25	Portugal	76.03	88	Namibia	62.81	151	Benin	51.10
26	Tholland	75.27	89	Antique and Barbuda	62.64	152	Burundi	51.07
27	Netherlands	75.01	90	China	62.58	153	São Tomé and Príncipe	50.75
28	Mouritius	74.81	91	Serbia	62.57	154	Algeria	50.69
29	Japan	74.80	92	Paraguay	62.50	155	Djibouti	50.48
30	Macedonia, FYR	74.11	93	San Marino	62.44	156	Iraq	50.36
31	France	73.88	94	Malta	6211	157	Bolivia	49.95
32	Poland	73.56	95	Philippines	62.08	158	Cornercon	49.85
33	Spain	73.17	96	Ukraine	61.52	159	Comoros	49.56
34	Colombia	72.29	97	Bahamas, The	61.37	160	Sudan	49.55
35	Peru	72.11	97	Dominica Dominica	61.37	161	Senegal	49.37
36	Montenegro	72.02	99	Sri Lanka	6136	162	Suriname	49.29
37	Slovak Republic	71.83	100	St. Lucia	6135	163	Madagascar	49.25
38	Bulgaria	71.80	101	Brunei Darussalam	6126	164	Molayi	49.20
39	Mexico	71.53	102	Kurgus Republic	60.74	165	Equatorial Guinea	49.01
40	Israel	7125	103	St. Vincent and the Grenadines	60.66	166	Taikistan	48.57
41	Chile	7124	104	Hondures	60.61	167	Burkina Faso	48.36
42	Belgium	71.11	104	Lebanon	60.61	168	Niger	47.63
43	South Africa	71.08	106	Barbados	60.57	169	Guinea	47.63
44	Czech Republic	70.95	107	Bosnia and Hergegovina	60.55	170	Nigeria	47.33
45	Armenia	70.60	108	Nepal	60.33	171	Zimbabwe	46.95
46	Rwanda	70.47	109	El Salvador	59.93	172	Timor-Leste	46.89
46	Puerto Rico (U.S.)	70.47	110	Swaziland	59.93	173	Banaladesh	46.89
48	Romania	70.22	110	Zambia	59.65	173	Liberia	46.61
48 49	Saudi Arabia	69.99	1112	Egypt, Arab Rep.	59.54	175	Surian Arab Republic	46.51
50		69.96	112	221 - 1	59.54	176		46.51
30	Qatar	09.90	113	Palau	39.30	1/6	Mauritania	44.21

Why does Industrial Policy Need the Gender Perspective?

• Many reforms need to be enacted – critical that barriers of ALL kind be removed to unleash Iran's human capital potential.

 Piecemeal promotion will not lead to the revival that is desired.

Thank you

A Framework for female intensive sectors – by type of skills availability and market orientation

