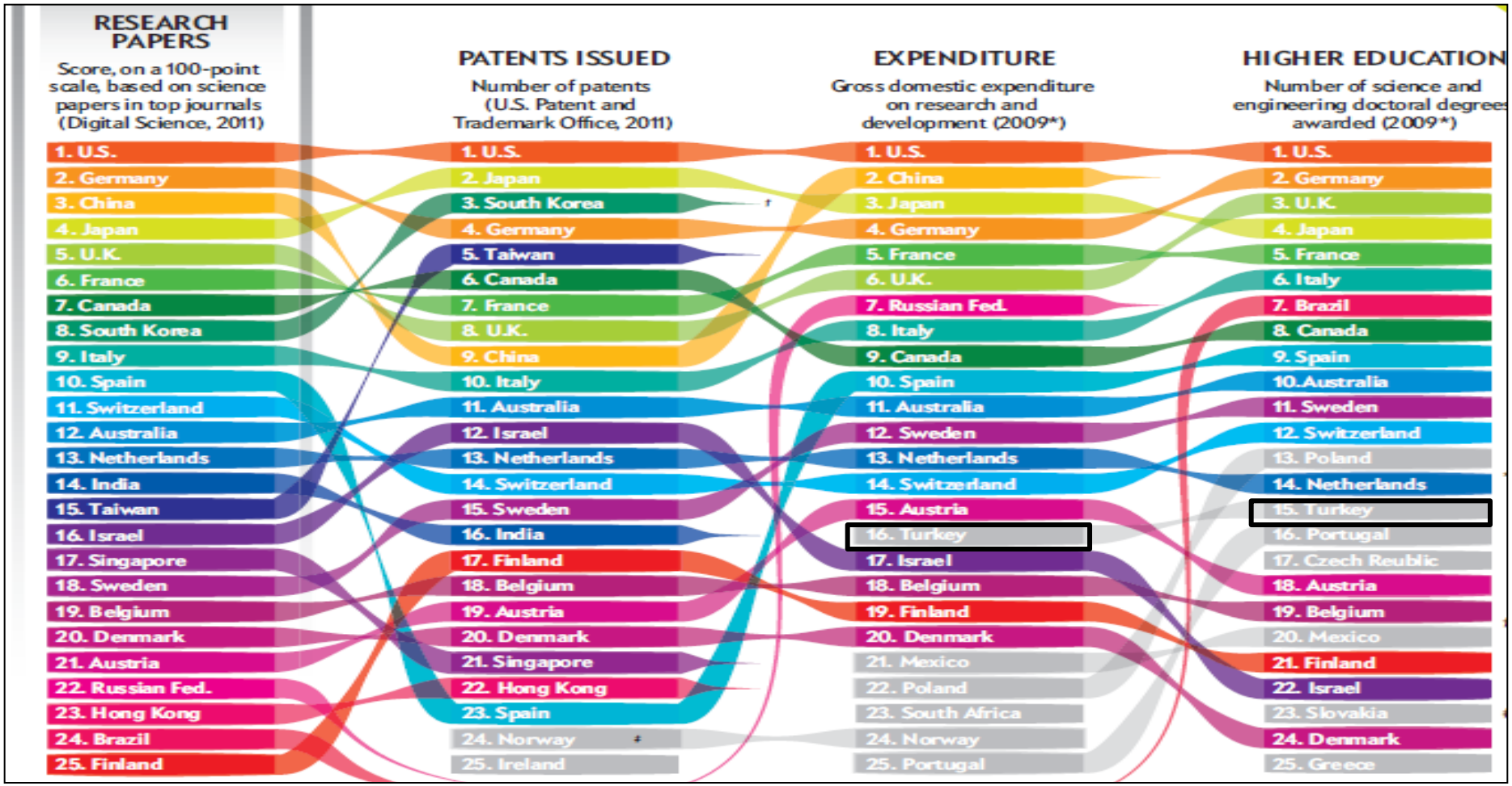
POSITION OF TURKEY IN GLOBAL SCIENCE – TECHNOLOGY - INNOVATION ECOSYSTEM

THE WORLD'S BEST COUNTRIES IN SCIENCE



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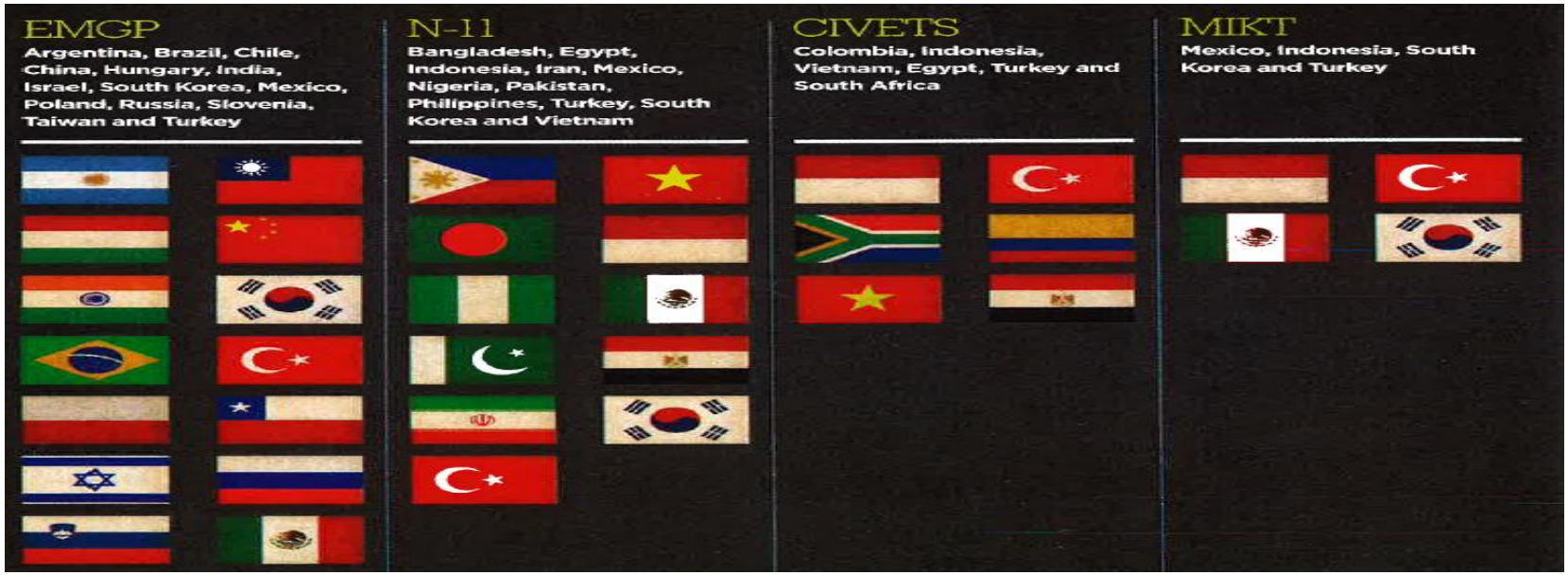
Source: October 2012, ScientificAmerican.com

ECONOMIST LOOK AHEAD TO THE NEXT HOT AND EMERGING MARKETS



Columbia University created a list of Emerging Market Global Players (EMGP) this year that its economists believe to be up-and-coming.

Goldman Sachs economist Jim O'Neill, who coined the term BRIC to identify the four countries (Brazil, Russia, India and China) whose emerging economies should be watched, then identified the Next 11 or N-11 in 2005.

In 2009, economist Robert Ward drew attention to these countries as the next group of emerging markets (the acronym coincidentally links to a nocturnal mammal, the civet, native to several of the CIVETS countries).

O'Neill narrowed his picks for promising markets for investors in 2007.

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Source: Executive Travel, October 2012

THE MOST DYNAMIC CITIES OF 2025

			Population (millions)		GDP (billions of U.S. dollars)			
Rank	City	Country	2010	2025	2010	2025	Total Growth	
1	Shanghai	China	22.3	30.9	$250.7	$1,112.2	$861.5	344%
2	Beijing	China	18.8	29.6	206.2	1,027.9	821.7	398%
3	Tianjin	China	11.1	15.2	128.8	624.4	495.7	385%
4	São Paulo	Brazil	19.7	23.2	437.3	912.9	475.7	109%
5	Guangzhou	China	11.1	14.9	146.1	573.0	426.9	292%
6	Shenzhen	China	10.4	13.7	141.5	523.6	382.1	270%
7	New York	United States	18.9	19.7	1,180.3	1,553.1	372.7	32%
8	Chongqing	China	15.7	19.4	88.6	458.6	370.0	418%
9	Moscow	Russia	11.6	12.7	325.8	688.5	362.7	111%
10	Tokyo	Japan	36.4	36.7	1,874.7	2,218.6	343.9	18%
11	Wuhan	China	9.8	13.1	82.2	414.4	332.2	404%
12	Los Angeles	United States	12.9	15.0	731.8	1,051.5	319.7	44%
13	Foshan	China	7.2	10.8	83.5	383.6	300.1	360%
14	Istanbul	Turkey	11.0	14.9	188.2	479.7	291.5	155%
15	Nanjing	China	7.2	9.9	68.5	343.9	275.4	402%
16	Chengdu	China	7.7	11.2	57.8	309.6	251.7	435%
17	Hangzhou	China	6.2	8.8	70.5	307.0	236.5	335%

Ranked by projected absolute GDP growth 2012-2025 at predicted real exchange rates.

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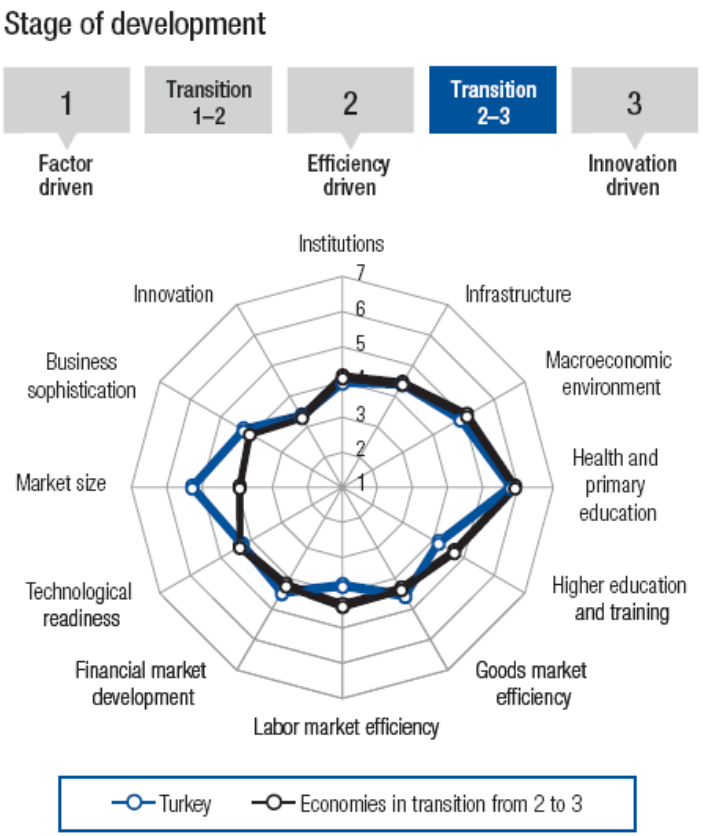
Source: McKinsey Global Institute Cityscope database 2.0.

THE WORLD ECONOMIC FORUM
GLOBAL COMPETITIVENESS REPORT 2012–2013

The Global Competitiveness Index

	Rank (out of 144)	Score (1–7)
GCI 2012–2013	**43**	**4.5**
GCI 2011–2012 (out of 142)	59	4.3
GCI 2010–2011 (out of 139)	61	4.2
Basic requirements (36.2%)	**57**	**4.8**
Institutions	64	4.0
Infrastructure	51	4.4
Macroeconomic environment	55	4.9
Health and primary education	63	5.8
Efficiency enhancers (50.0%)	**42**	**4.4**
Higher education and training	74	4.1
Goods market efficiency	38	4.6
Labor market efficiency	124	3.8
Financial market development	44	4.5
Technological readiness	53	4.3
Market size	15	5.3
Innovation and sophistication factors (13.8%)	**50**	**3.8**
Business sophistication	47	4.3
Innovation	55	3.3



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Source: The World Economic Forum Global Competitiveness Report 2012–2013

The 23nd Meeting of Supreme Council for Science and Technology (SCST)

The main theme of the 23rd meeting of SCST was "National Innovation and Entrepreneurship System and steps to be taken to foster this system".

National Innovation System 2023 Targets

- **Achieving an R&D intensity of 3% by 2023 (from 0.86% in 2011)**
- **Business enterprise expenditure on R&D (BERD) as %2 of GDP (from 0.37 in 2011)**
- **R&D Personnel (FTE); 300.000 (from 92.801 in 2011)**
- **R&D Personnel (FTE) by business enterprise sector ; 180.000 (from 45.380 in 2011)**

THE MAIN TARGET FOR TURKEY TO BE ONE OF THE WORLD'S TOP TEN ECONOMIES IN 2023!!!

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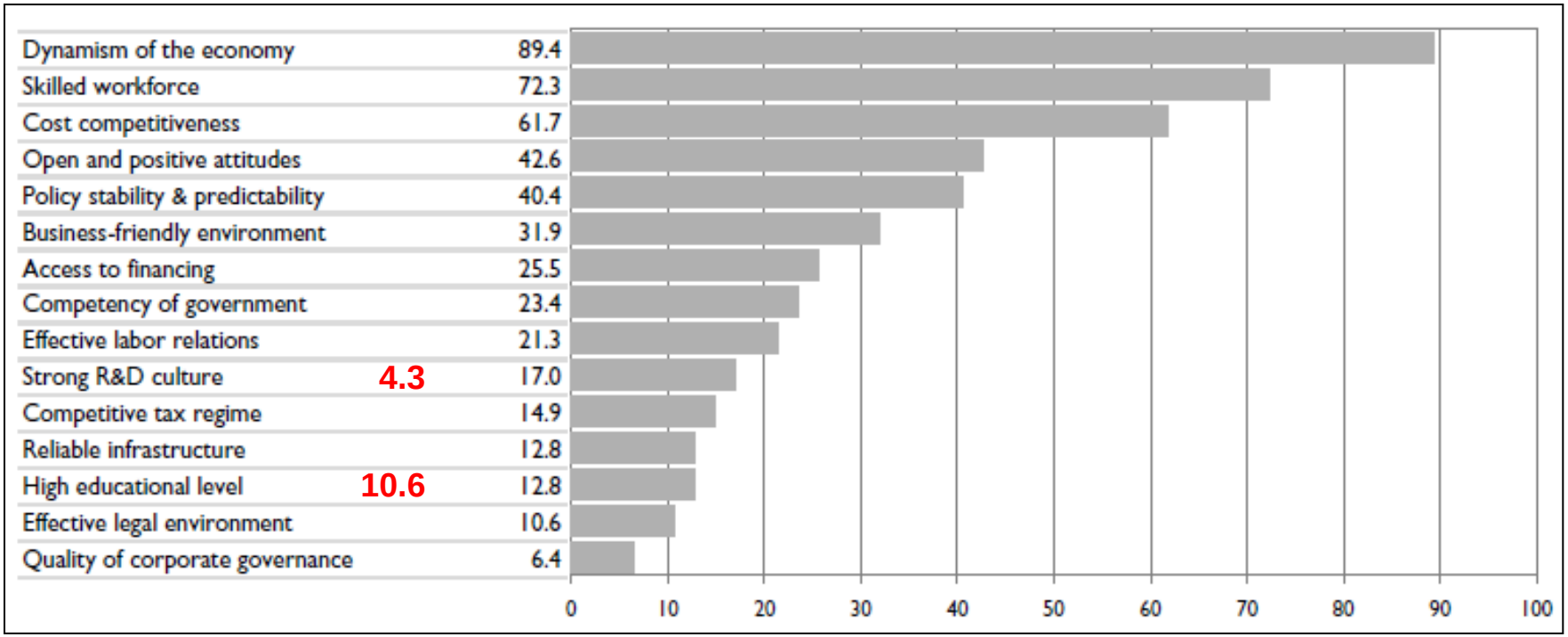
Sources: The 23nd meeting of Supreme Council for Science and Technology

COMPETITIVENESS TRENDS
KEY ATTRACTIVENESS INDICATORS FOR TURKEY



From a list of 15 indicators, respondents of the Executive Opinion Survey were asked to select 5 that they perceived as the key attractiveness factors of their economy. The chart shows the percentage of responses per indicator from the highest number of responses to the lowest.

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Source: IMD World Competitiveness Yearbook 2012

Road Map for Achieving National Innovation System 2023 Targets

National Innovation and Entrepreneurship System

- Creating Economic Value Added Technologies
- Competent Human Capacity

Policies/Strategies

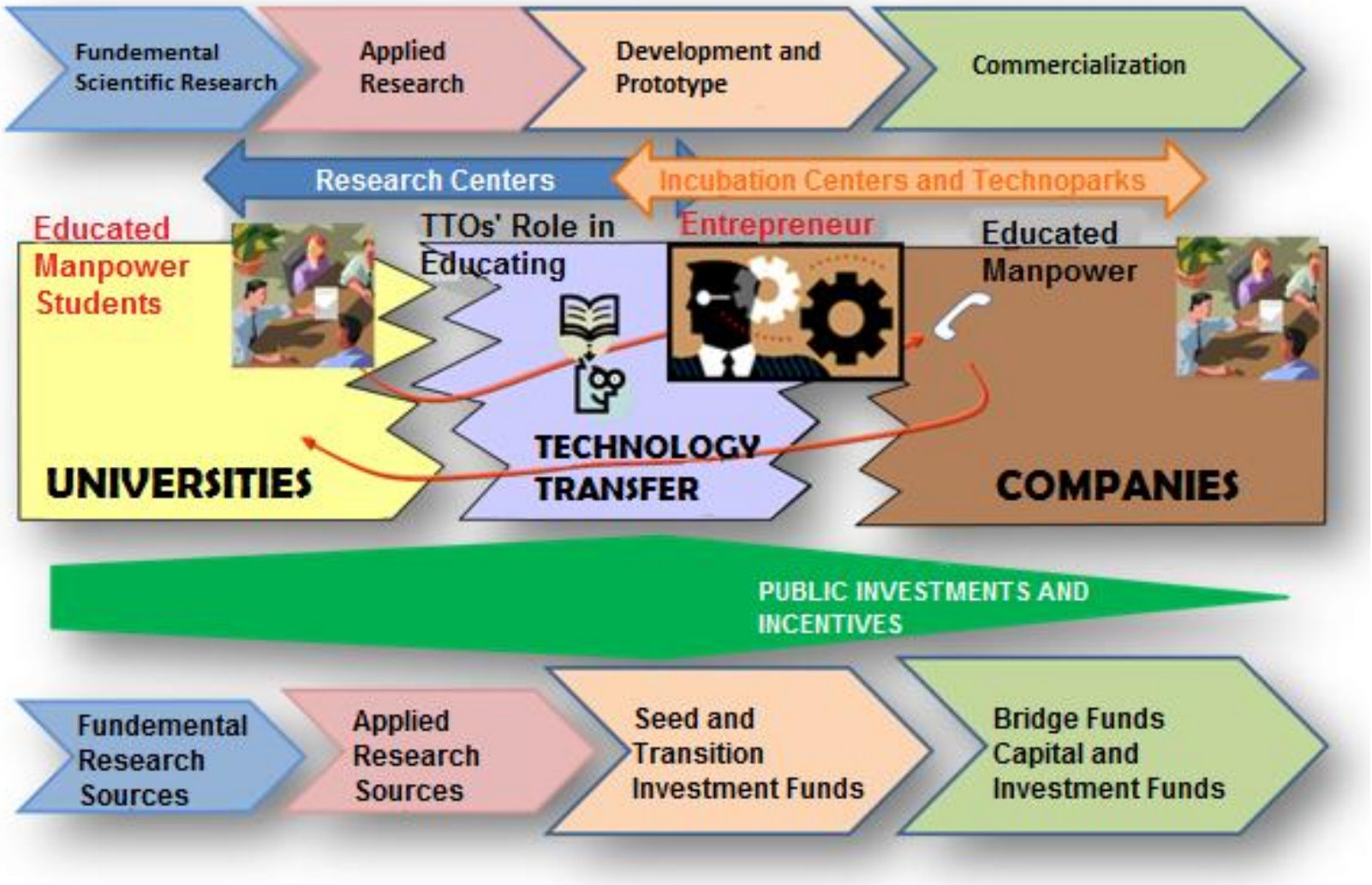
- Creating a Venture Capital Fund
- Creating Support Mechanisms for Technology Transfer Offices
- Creating Support Mechanism for Incubation Centers
- Entrepreneurial and Innovative University Indices
- Reconsidering the Academic Promotion Criteria
- Dissemination of Entrepreneurial Culture
- Designing Public Procurement Policies for the Promotion of R&D
- Establishing Mission and Need Oriented Support Programs

R&D and Innovation "Ecosystem"

- Private Sector
- Higher Education Sector
- Public Sector

Sources: The 23nd meeting of Supreme Council for Science and Technology

CHALLENGES


Fundemental Scientific Research
Applied Research
Development and Prototype
Commercialization
Research Centers
Incubation Centers and Technoparks
Educated Manpower Students
TTOs' Role in Educating
Entrepreneur
Educated Manpower
UNIVERSITIES
TECHNOLOGY TRANSFER
COMPANIES
PUBLIC INVESTMENTS AND INCENTIVES
Fundemental Research Sources
Applied Research Sources
Seed and Transition Investment Funds
Bridge Funds Capital and Investment Funds