



**TÜBİTAK**

# **Reflections from Turkish Research Area**

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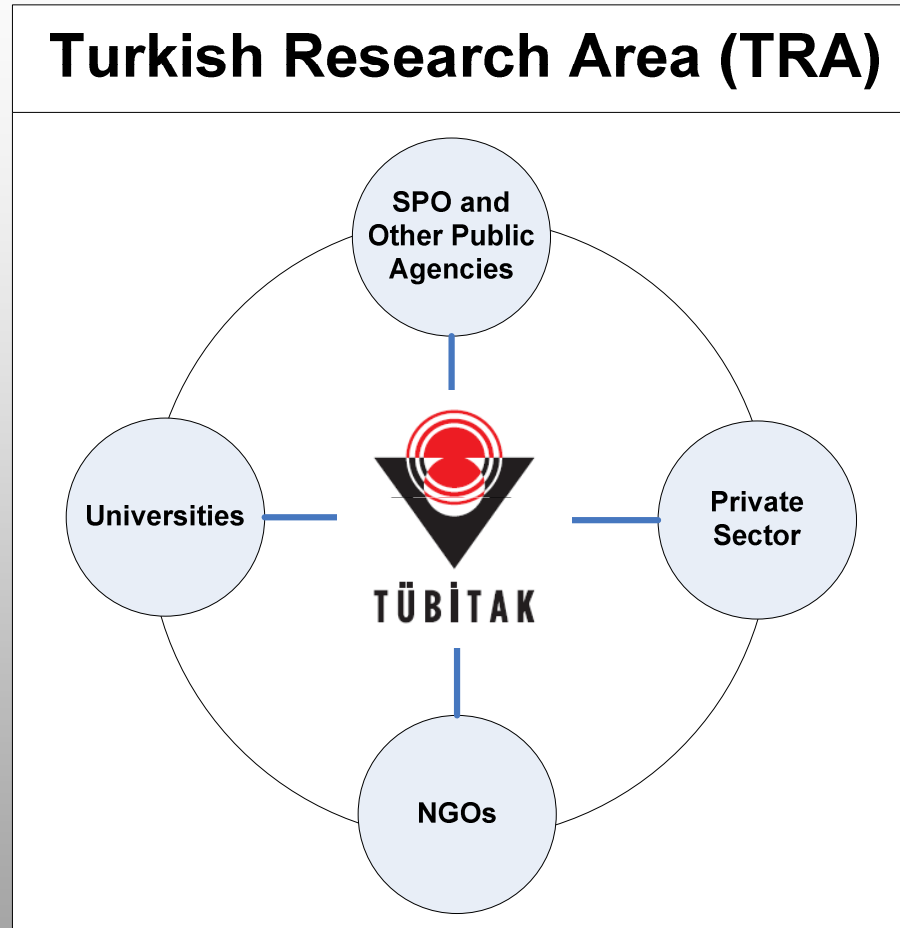
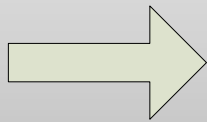
**EU FP7 National Coordinator**

**06 June 2008**

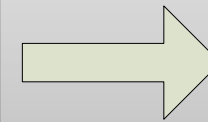
# National STI Initiative

## Turkish Research Area (TRA)

- Aims
- Objectives
- Principles
- Priorities



- Solving problems
- Increasing quality of life
- Enhancing welfare
- Improving competitiveness



# Science and Research Strategy of Turkey

## Basic Documents

- Vision 2023-Technology Foresight
- 2005-2010 National STI Strategy
- Decrees of Supreme Council for Science and Technology
- Prime Ministry Circulars

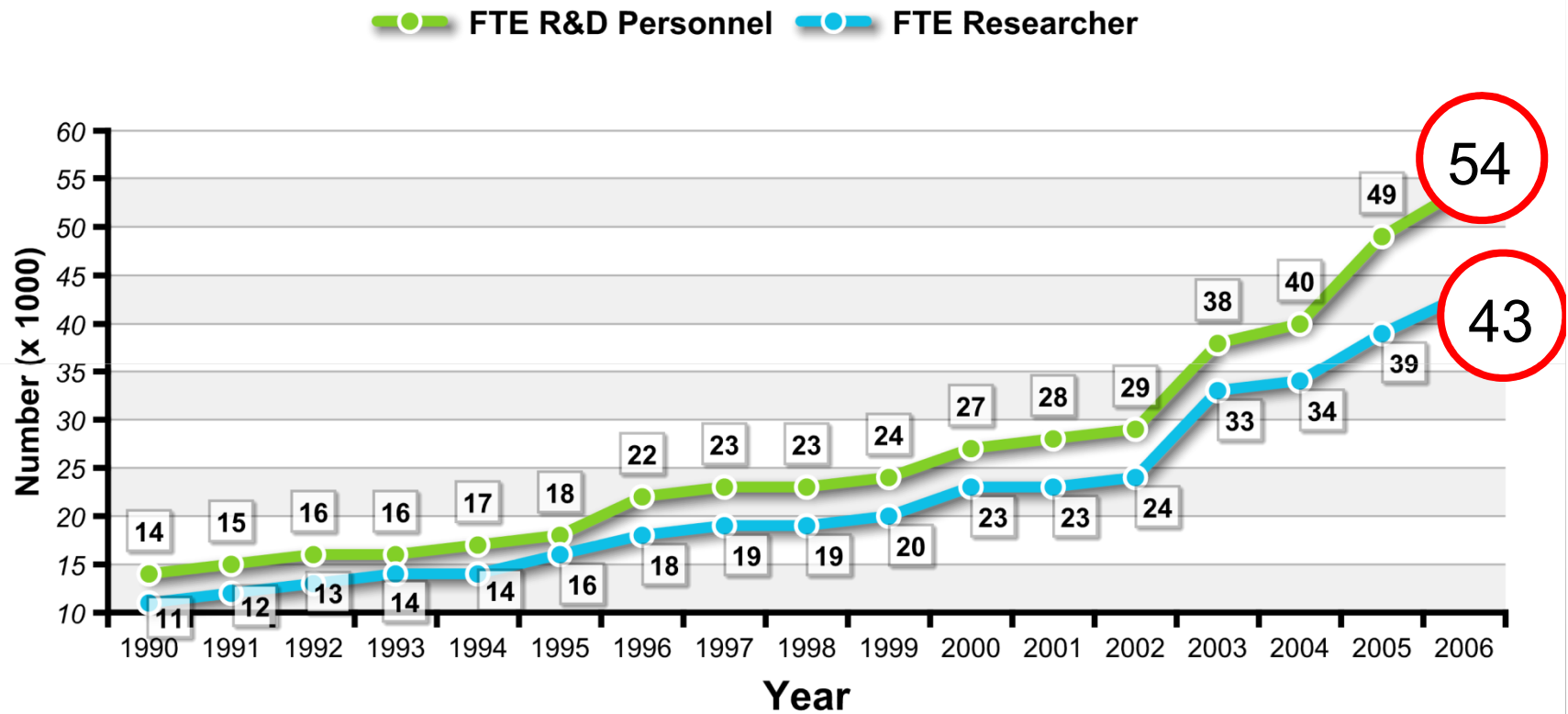
## Main Objectives of Turkish Research Area

- To increase the quality of life in Turkey
- To find solutions to social problems
- To enhance the competitiveness of Turkey
- To create awareness and interest in STI in the society

## Targets

- To increase the number and the quality of R&D personnel
- To increase the share of R&D expenditures in GDP
- To increase the demand for R&D

# R&D Human Resources - FTE



Source: Turkstat - R&D Statistics

## 2002-2006 FTE R&D Personnels of Countries\*

<u>Acc. to Increase rate</u>	<u>Country</u>	<u>2002</u>	<u>2006</u>	<u>Increase Rate</u>	<u>Acc. to Rank</u>
	<b>USA</b>				<b>1</b>
<b>5</b>	<b>China</b>	<b>1035</b>	<b>1502</b>	<b>45%</b>	<b>2</b>
<b>22</b>	<b><u>Japan</u></b>	<b>857</b>	<b>947</b>	<b>10%</b>	<b>3</b>
<b>36</b>	<b><u>Russia</u></b>	<b>987</b>	<b>928</b>	<b>- 6%</b>	<b>4</b>
<b>33</b>	<b><u>Germany</u></b>	<b>480</b>	<b>485</b>	<b>1%</b>	<b>5</b>
<b>30</b>	<b><u>France</u></b>	<b>344</b>	<b>362</b>	<b>5%</b>	<b>6</b>
<b>31</b>	<b><u>United Kingdom</u></b>	<b>322</b>	<b>331</b>	<b>2%</b>	<b>7</b>
<b>7</b>	<b>South Korea</b>	<b>172</b>	<b>239</b>	<b>39%</b>	<b>8</b>
<b>17</b>	<b><u>Canada</u></b>	<b>183</b>	<b>220</b>	<b>20%</b>	<b>9</b>
<b>6</b>	<b>Spain</b>	<b>134</b>	<b>189</b>	<b>41%</b>	<b>10</b>
<b>20</b>	<b><u>Italy</u></b>	<b>164</b>	<b>187</b>	<b>14%</b>	<b>11</b>
<b>2</b>	<b><u>Turkey</u></b>	<b>29</b>	<b>54</b>	<b>88%</b>	<b>20</b>



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\* 1000 people. Source: OECD, TURSTAT

# Number of FTE R&D Personnel of Turkey\*

- In 2002, **26th** in world ranking with **28 964** people.
- In 2006, **20th** in world ranking with **54 444** people.
- **6** countries that are lower than Turkey in 2006 compared to 2002; Switzerland, Austria, Argentina, Denmark, Greece, Romania.
- Countries having the maximum increase between 2002-2006:

<u>Rank Acc. to Increase Rate</u>	<u>Country</u>	<u>Increase Rate</u>	<u>Rank Acc. to Number</u>
1	Mexico	92%	14
<b>2</b>	<b>Turkey</b>	<b>88%</b>	<b>20</b>
3	Czech Rp.	83%	24

## Number of FTE Researchers 2002-2006\*

<u>Rank Acc. to Increase Rate</u>	<u>Country</u>	<u>2002</u>	<u>2006</u>	<u>Increase Rate</u>	<u>Rank Acc. to Number</u>
35	<u>USA</u>	1340	1395	4%	1
4	<u>China</u>	811	1223	51%	2
25	<u>Japan</u>	647	734	14%	3
38	<u>Russia</u>	492	466	- 5%	4
32	<u>Germany</u>	266	280	5%	5
27	<u>France</u>	186	209	12%	6
7	<u>South Korea</u>	142	207	46%	7
30	<u>UK</u>	178	185	6%	8
20	<u>Canada</u>	116	139	20%	9
8	<u>Spain</u>	83	119	43%	10
9	<u>Taiwan</u>	70	97	39%	11
12	<u>Italy</u>	71	94	33%	12
1	<u>Turkey</u>	24	43	78%	17

# Number of FTE Researchers in Turkey\*

- In 2002 **24<sup>th</sup>** with in the world ranking **23 995** people.
- In 2006 **17<sup>th</sup>** with in the world ranking **42 263** people.
- **7** Countries that are lower than Turkey in 2006 compared to 2002; Holland, Finland, Argentina, Belgium, Avusturia, Denmark, Sweden
- Countries having the most increase between 2002-2006

Rank Acc. to Increase Rate	Country	Increase Rate	Rank Acc. to Number
<b>1</b>	<b>Turkey</b>	<b>78%</b>	<b>17</b>
2	Czech Rep.	75%	25
3	Mexico	71%	16

# Scientific Publications\*

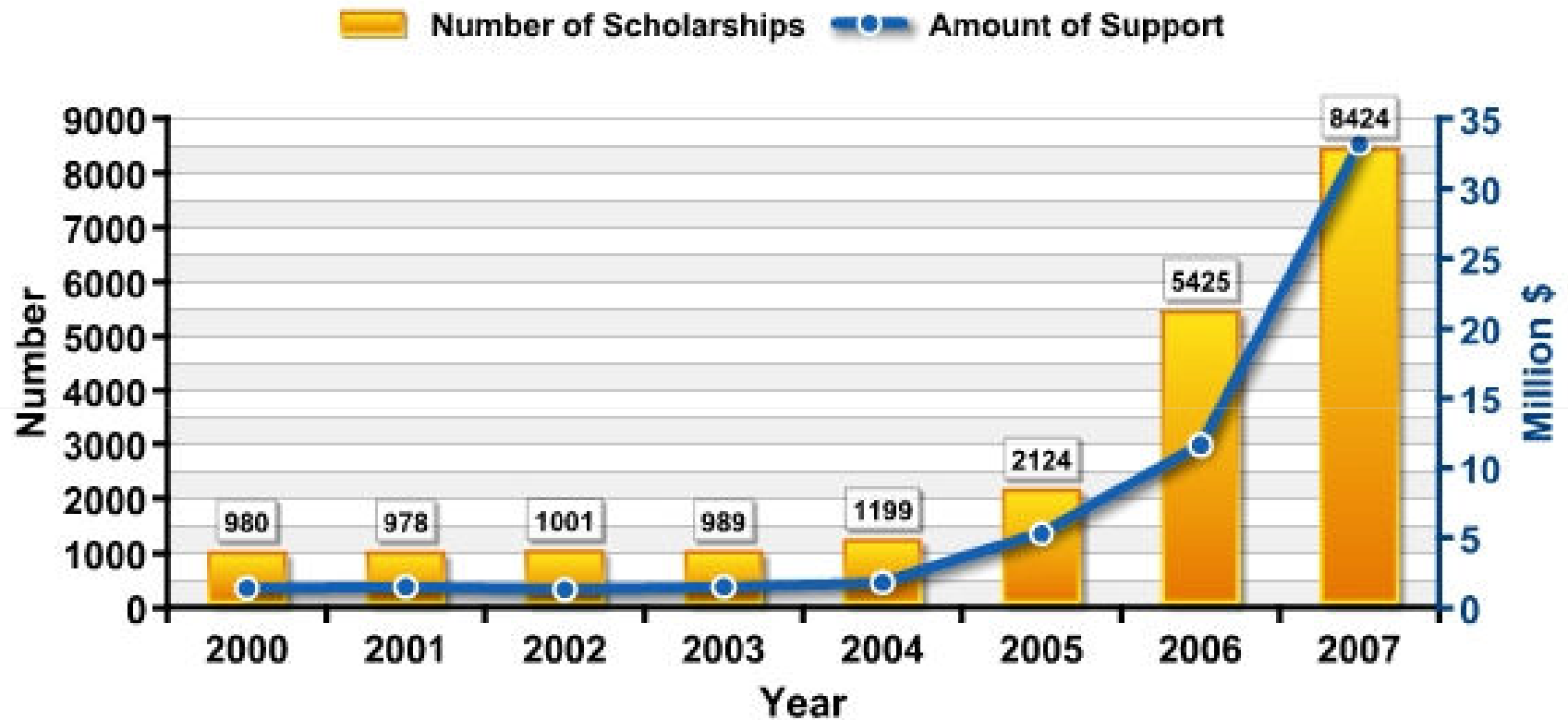
	Country	2003	2004	2005	2005-2003 (%)
1	USA	307,449	293,028	310,520	1
2	UK	113,500	108,000	127,000	12
3	Germany	90,666	91,064	94,508	4
4	Japan	89,626	90,893	89,557	0
5	China	51,344	63,261	74,374	45
14	S. Korea	23,020	27,086	29,565	28
<b>19</b>	<b>Turkey</b>	<b>12,340</b>	<b>15,345</b>	<b>16,564</b>	<b>34</b>

\*Source: ISI

Biggest increase in scientific publications:

China ve Turkey

# TÜBİTAK's Support for Scientists



# TÜBİTAK allocates funds:

- To enhance research and innovation capacity
- To encourage R&D and innovation activities of the private sector
- To support national and international RDI collaboration networks
- To enhance scientific literacy in society
- To develop R&D-based public procurement system

# Opportunities for International Collaborations-1

- To have a position in Turkey
  - Universities
  - Industry
  - Public Research Institutes
- National Young Investigator Program
- Post-doctoral Programs (National and International)
- Visiting Scientist Program
- Research Fellowship Abroad

## Opportunities for International Collaborations-2

- Academic Research Program
  - As project team member
- Public R&D Program
  - As project team member
- Technoprenuer Development Program
  - For young enterprenuers to establish a firm in Turkey
- Innovation Program for the SMEs
  - For those who own an SME in Turkey
- Universal Researcher Program (EVRENA)
- International Agreements
  - EU 7th Framework Program
  - EMBO Installation Grants

# The Universal Researcher Program

- Attractive instrument for expatriate researchers to visit home and establish research links
- Proposals must offer a critical knowledge transfer and/or a research training in an area in which the outside expertise is critically needed

# Host Institutions Catalogue, www.fp7.org.tr

Ana Sayfa > Marie-Curie > Son Dakika

RSS Nedir? | RSS | İletişim / Bilgi Edinme | Yardım | Site Haritası | English



Türkiye Bilimsel ve Teknolojik Araştırma Kurumu  
Avrupa Birliği 7. Çerçeve Programı



FP7 içerisinde ara

Ara

[Ayrıntılı Arama](#)

Adım Adım 7. ÇP

İşbirliği Özel Programı

Fikirler Özel Programı

Marie - Curie

Ortak Eğitim

Kariyer Gelişimi

Sanayi-Akademi Ortaklığı

Uluslararası Boyut

Özel Etkinlikler

Çağrılar

Ortak Arama

Projeler

Dokümanlar

► Son Dakika

ERA - MORE

Kapasiteler Özel Programı

JRC (Ortak Arş. Merkezi)

Çağrılar

Ortak Arama Duyuruları

Eğitimler

Hakkımızda



## Türkiye'deki Ev Sahibi Kuruluşlar Kataloğu

TÜBİTAK AB Çerçeve Programları Ulusal Koordinasyon Ofisi, Türkiye'de bulunan ileri düzeydeki üniversitelerin, araştırma merkezlerinin ve sanayi kuruluşlarının, kapılarını daha fazla sayıda nitelikli-doktora sonrası araştırmacıya açmasına katkıda bulunmayı hedeflemektedir.

Bu doğrultuda, 11-13 Nisan 2008 tarihlerinde, Amerika'da düzenlenen TASSA 2008 Yıllık Konferansı'nda Amerika'daki Türk araştırmacılarla yapacağımız görüşmelerde dağıtılmak üzere "Türkiye'deki Ev Sahibi Kuruluşlar Kataloğu" hazırlanmaktadır.

Türkiye'deki Ev Sahibi Kuruluşlar Kataloğu taslağına ulaşmak için [tıklayınız](#).

11.04.2008

Yazdır

Bunları da Oku



Yabancı Araştırmacılar için Sık Sorulan Sorular Kitapçığı  
TÜBİTAK UKO-Mobility ekibi tarafından, TR-MONET projesi kapsamında Türkiye'de yaşayan yabancı araştırmacılara yönelik "Sık Sorulan Sorular" kitapçığı hazırlandı.



Türkiye'deki Ev Sahibi Kuruluşlar Kataloğu

11-13 Nisan 2008 tarihlerinde, Amerika'da düzenlenecek olan TASSA 2008 Yıllık Konferansı'nda Amerika'daki Türk araştırmacılarla yapacağımız görüşmelerde dağıtılmak üzere "Türkiye'deki Ev



International collaboration and brain circulation are the most important aspects for the fulfillment of **Lisbon Objectives**, as well as for the development of Turkish Research Area.

Thank You...