



**TÜBİTAK**

The Scientific and Technological Research Council of Turkey

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## National Innovation System Targets For Economic Development and Wellbeing in 2023



**GERD / GDP**  
**3 %**

**BERD / GDP**  
**2 %**

**Researchers (FTE)**  
**300 K**

**Private Sector  
Researchers (FTE)**  
**180 K**

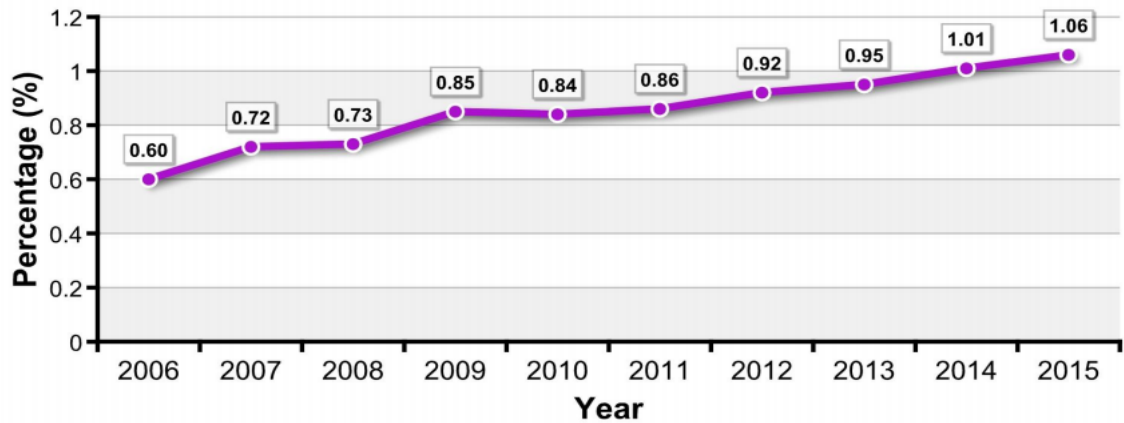
# Significant Increase in R&D Spending



In the last decade Turkey had the 4th highest growth rate in R&D spending globally; after China, Egypt and Malaysia.

GERD as % of GDP raised from 0,52 to 1,06 ➤ **2 Fold Increase**

GERD as a Percentage of GDP (Turkey)



Source: TurkStat

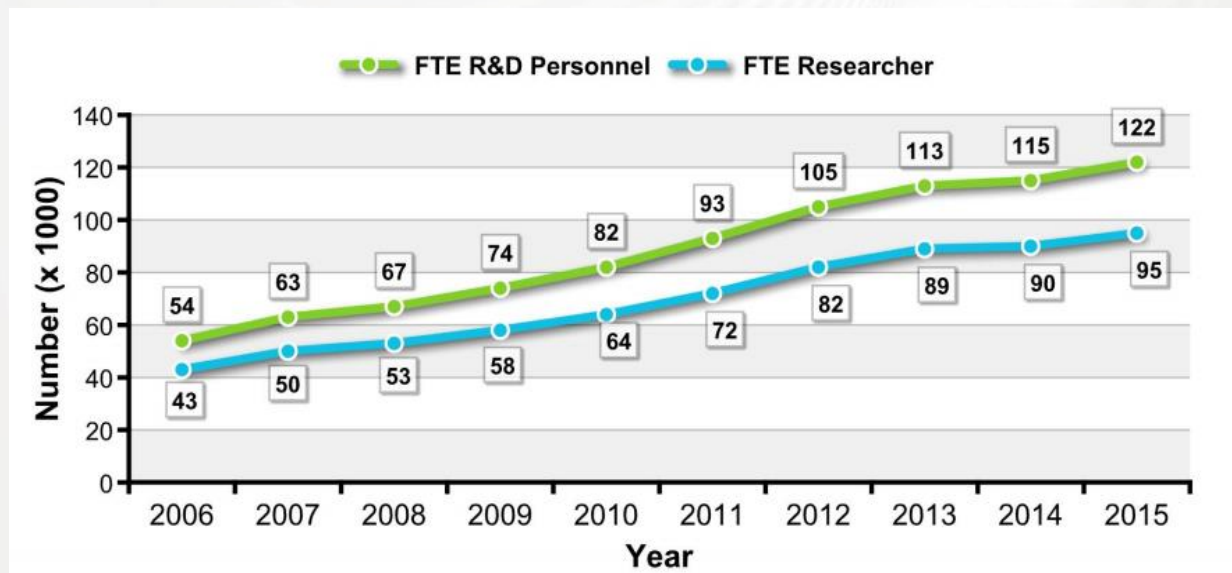
# Significant Increase in R&D Human Resources



54% of R&D personnel has been employed in business enterprise sector, 36% employed in higher education sector and 11% in government sector by 2015.

R&D Human Resources in last 10 years ~ 3 Fold Increase

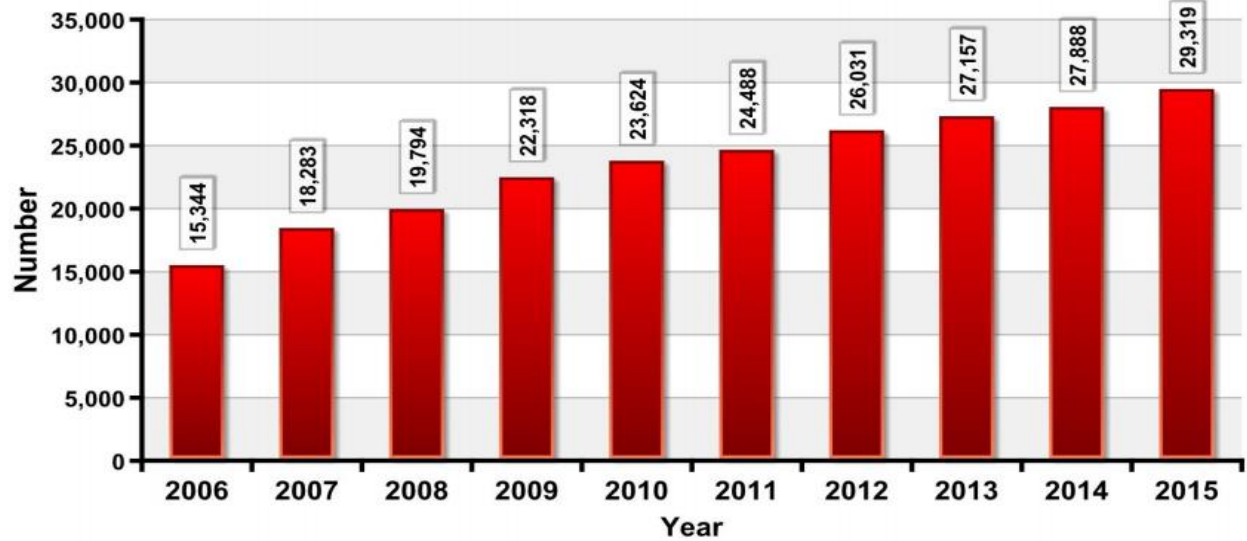
### R&D Human Resources – FTE\* (Turkey)



Source: TurkStat 2015, \*FTE: Full Time Equivalent

Number of Scientific Publications (2006-2015) ➤ 2 Fold Increase

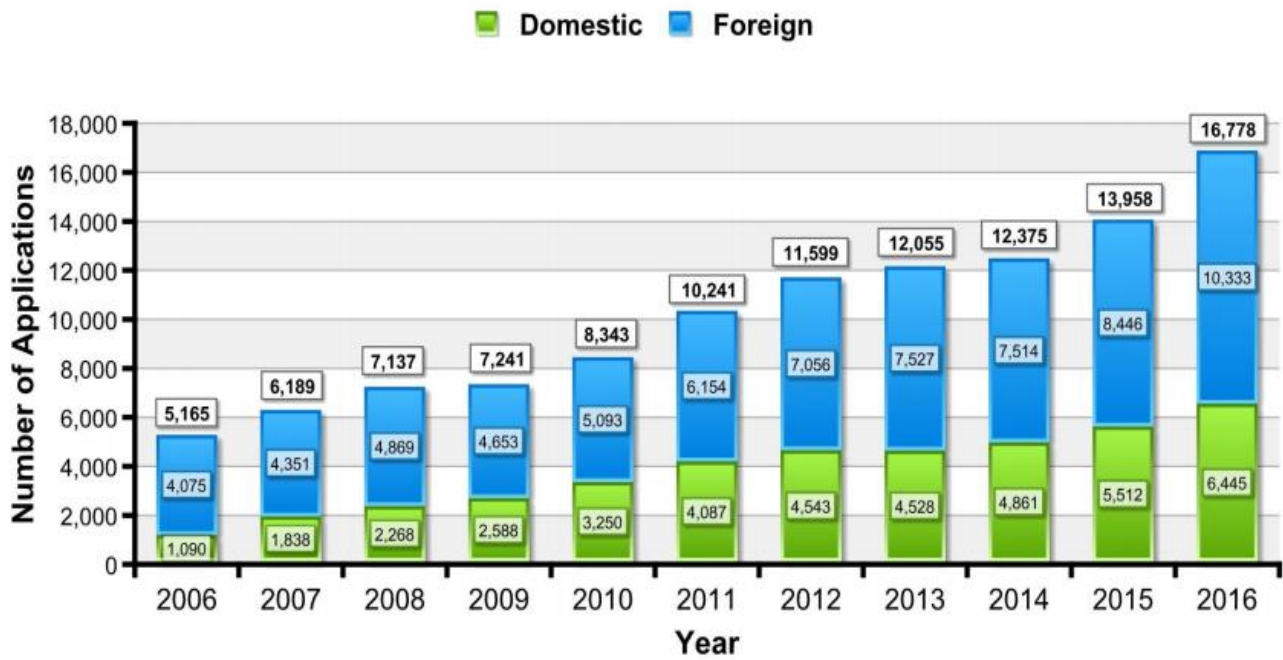
## Number of Scientific Publications (Turkey)



# Significant Growth Rate for R&D Outputs



Number of Patent Applications (2006-2016) ➤ 3,2 Fold Increase





1. Formulating ST&I Policies

2. Funding R&D and Innovation

3. STI Human Resources Development

4. Performing R&D

5. Science and Society Activities

6. International ST&I Cooperation

## Framework Programmes National Coordination Office



## Bilateral and Multilateral Relations



Internationalization of STI





**FP 6**

2002-2006  
(5 years)

17,5 Billion €

**FP 7**

2007-2013  
(7 years)

53,2 Billion €

**Horizon 2020**

2014-2020  
(7 years)

80 Billion €

## Effective International Cooperation both at national and European levels



Address Grand Societal Challenges



Ease access to new emerging markets



Increase the attractiveness of the ERA for talented minds and investors worldwide.



Building on the diverse bilateral and multilateral relations with third countries

Take maximum advantage of the best research and innovation opportunities on a global basis

Increasing and Widening participation of Turkey to Horizon 2020 and maximising the benefits to be utilized from the Programme

# HORIZON 2020



Target Oriented  
Actions



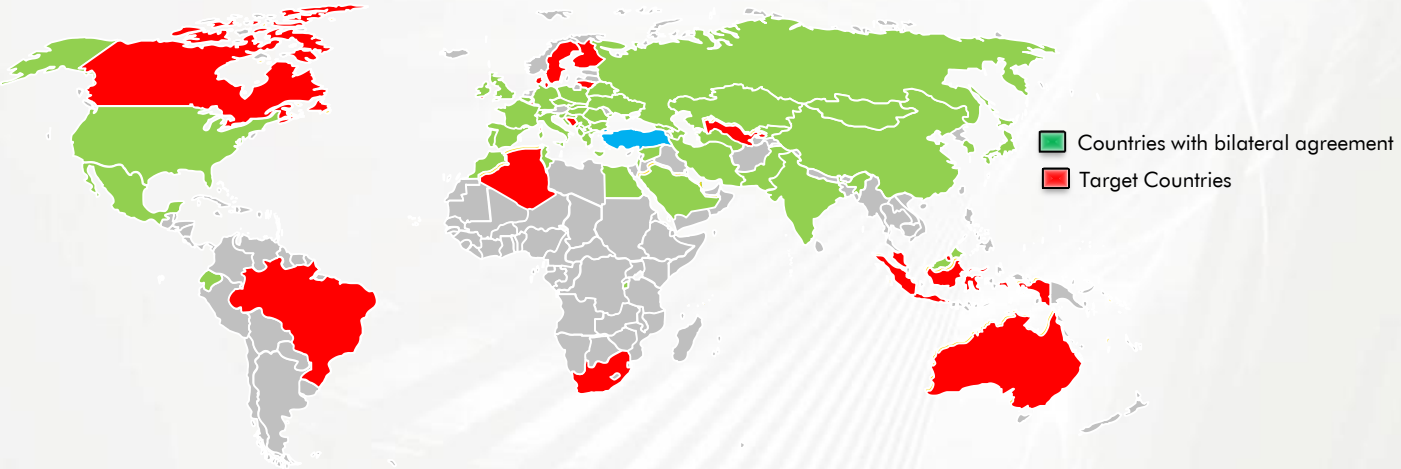
Support and Award  
Programmes



Strategic  
Contribution



Means to develop  
cooperation



- 56 agreements with 45 countries
- 13 target countries
- 35 bilateral calls for proposals within 2015-2017
- Support for joint RD&I projects, scientific activities, researcher exchange
- Total 510 ongoing international projects

Science Bridging Nations

[www.deutsch-tuerkisches-wissenschaftsjahr.de](http://www.deutsch-tuerkisches-wissenschaftsjahr.de)  
[www.turk-alman-bilimyili.com.tr](http://www.turk-alman-bilimyili.com.tr)



Türk-Alman Arayışma,  
Eğitim ve İnovasyon Yılı 2014  
Deutsch-Türkisches Jahr der  
Forschung, Bildung und Innovation 2014



TÜBİTAK – DFG Agreement



Destination Turkey Workshop- Berlin

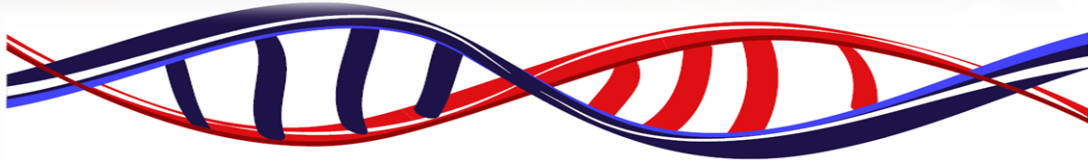
Collaboration and Joint Workshops Support



2+2 Program (with BMBF)

IntenC Program ( with BMBF)

- ❑ **74 Joint Scientific Activities:** 1.000 Turkish-800 German Researchers
- ❑ Cooperation through H2020 and EUREKA
- ❑ Joint Projects through bilateral projects



TÜRKİYE - BİRLEŞİK KRALLIK BİLİM VE İNOVASYON YILI  
UK-TURKEY YEAR OF SCIENCE AND INNOVATION

2015-16



## Katip Çelebi-Newton Fund

- 2014-2019 /40 M Sterlin
  - People
  - Research
  - Translation



## Joint Activities Researcher Mobility

- App. 40 Joint Activities organized/supported
- App. 415 students/researchers supported

## New Support Programmes

- 9 New Bilateral Agreements
- 6 Calls for Academic or Innovation Project Proposals

International Cooperation  
as a platform for **policy dialogue** with major regions of the world through **FP7**  
and  
as a **cross-cutting priority** and **not a separate activity**, with a specific  
international cooperation policy support activities through **H2020**.



- Black Sea Horizon
- EIG Concert Japan
- ERA- NET Med
- ERA-Net LAC
- ERA-NET Rus Plus
- IncoNet CA
- IncoNet EaP
- IncoNet GCC2
- Inno Indigo
- MEDSPRING IncoNet
- SeaEuNet2
- Konnect



United Nations Technology Bank will be established in TÜBİTAK Gebze Campus in 2017 with the coordination of TÜBİTAK.

**Science, Technology and Innovation-Supporting Mechanism (STIM)**

Developing the STI infrastructure and supporting human resources at LDCs.

**Intellectual Property Bank (IP BANK)**

Facilitating the access to IPs and licencing the technology by LDCs.



Technology Code	Supported Project Number	Total Budget of Supported Projects
Nuclear physics	67	10.281.791,00 ₺
Fundamental Particles and Fields	24	4.905.486,00 ₺
Condensed matter 1: Structural, Mechanical, Thermal Properties	132	27.420.108,00 ₺
Condensed matter 2: Electronic Structure, Electrical, Magnetic and Optical Properties	103	30.570.431,00 ₺

Number of Projects About Accelerators	Total Budget of Supported Projects
3	945.173,00 ₺

## Private Sector

Technology Code	Supported Project Number	Total Budget of Supported Projects
Nuclear physics, Fundamental Particles and Fields	5	3.100.000,00 ₺