Public and Private Involvement in R&D: Turkish Case

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To fulfill national targets, a proficient R&D, innovation and entrepreneurship system is a must.
GERD has constantly increased over the last decade
Resources Allocated to R&D and Innovation has Increased

R&D performing sectors:

Source: TurkStat

14,7 million TL

TÜBİTAK Direct Funding for R&D and Innovation*

733 million TL

Target for 2016 → % 2
Target for 2023 → % 3

* 2011 constant prices
Human Resource in Science and Technology has Increased

The ratio of business sector R&D personnel takes the largest increase

Source: TurkStat
• Rank of Turkey in the World: 18

Source: Thomson’s ISI Web of Science (TÜBİTAK ULAKBİM)
TÜBİTAK Academic Research Programs, 2000-2011

The bar chart shows the number of proposals and supported projects from 2000 to 2011. The number of proposals fluctuates, with peaks in 2005 and 2010, while the number of supported projects peaks in 2007 and 2010. The years 2005 and 2010 show a significant increase in both categories.
• 13,500 Project Applications, 8,400 Supported Projects
• 5,500 Finished and 2,500 Ongoing Projects
Technology and Innovation Grants by Technology Fields

*Distribution is defined based on the provided grants to funded projects.*
The Research Infrastructure

- 169 Universities
  - 105 (Public Universities)
  - 64 (Private Universities)

- 31 Active Technology Development Zones
  - 1746 Firms, 15,000 Personnel

- 250 Centers of Excellence in universities
  - (Supported by Ministry of Development)

- 5000 R&D Projects have been conducted in 10 years
R&D and Innovation Ecosystem

Ecosystem?
A system sustained by the interaction of a community of organisms with their environment.

The business sector and the entrepreneurs should be at the core of the system

Research without any reflection in business sector may not yield the desired outputs.
Support Mechanisms are no longer perceived only as financial tools

- **Input**
  - Financial support

- **Black Box**
  - R&D and Innovation Process

- **Output**
  - Innovative goods and services

- **Dynamics?**

- **Learning and Cooperation?**

New Dimensions of R&D Policy

- Target Oriented Policies and Programmes
- Supporting Incubation Centres
- Supporting Technology Transfer Offices
Improving Public Procurement and Public Right of Use to Foster Innovation;

- Settling a more flexible system in favor of local R&D and innovation
- Keeping the IPRs within the national economy
- Triggering the development of key technologies

Ex: Fatih Project
Continuing Investment in S&T

Enhancing Research Infrastructures

Making Turkey a More Attractive Destination for Qualified Researchers

Furthering proven demand side policies to address societal needs

New Strategies for 2011-2016;
- National STI Strategy 2011-2016
- STI Human Resources Development 2011-2016
To contribute to new knowledge and develop innovative technologies to improve the quality of life by transforming the former into products, processes, and services for the benefit of the country and humanity.
Thank you...

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