



TÜBİTAK

2009 ERC Conference

Turkey

**“A Global Attraction Centre for
Research “**

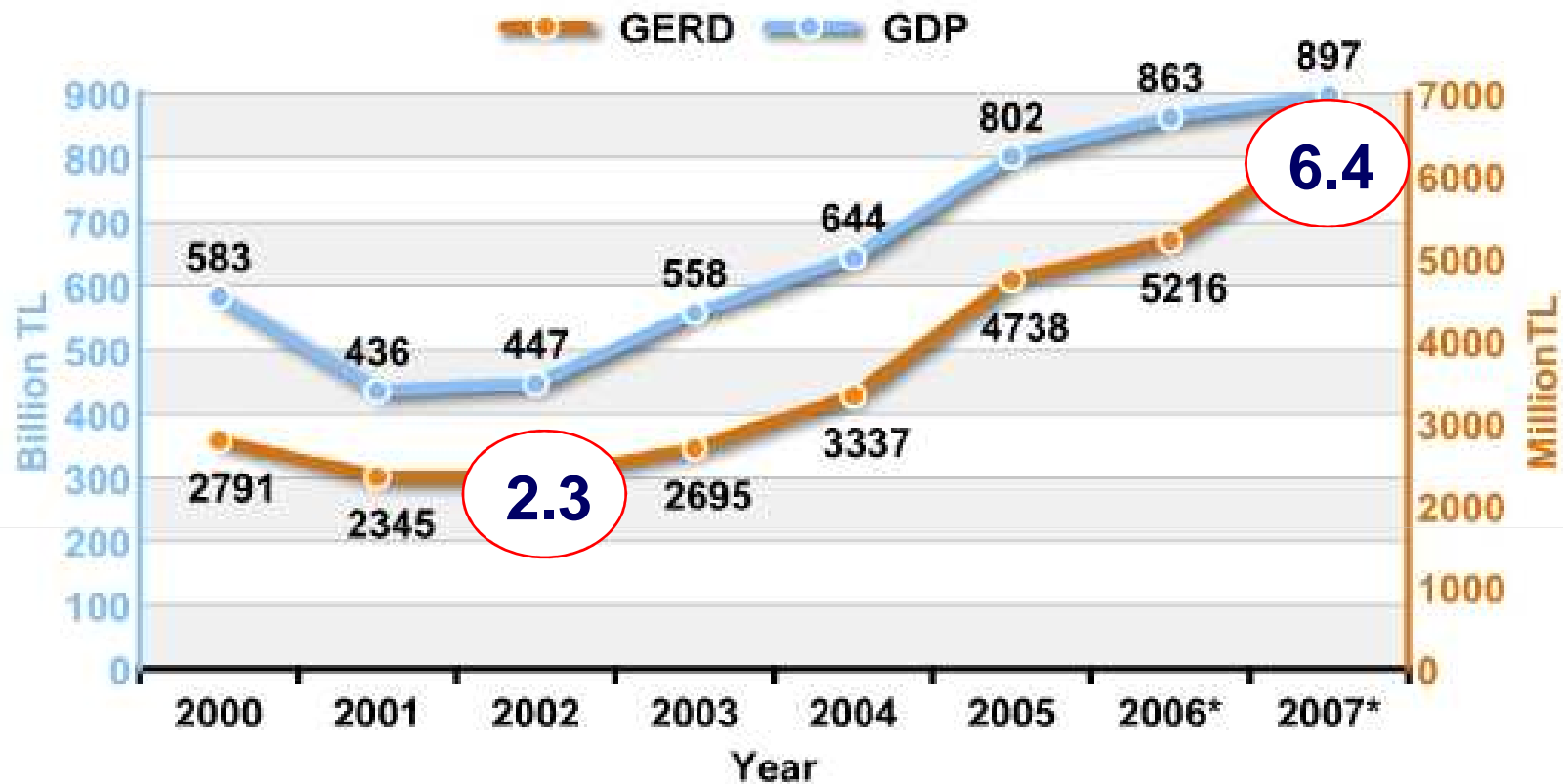
Prof. Dr. Nüket YETİŞ, President

March 13, 2009, Istanbul

Outline

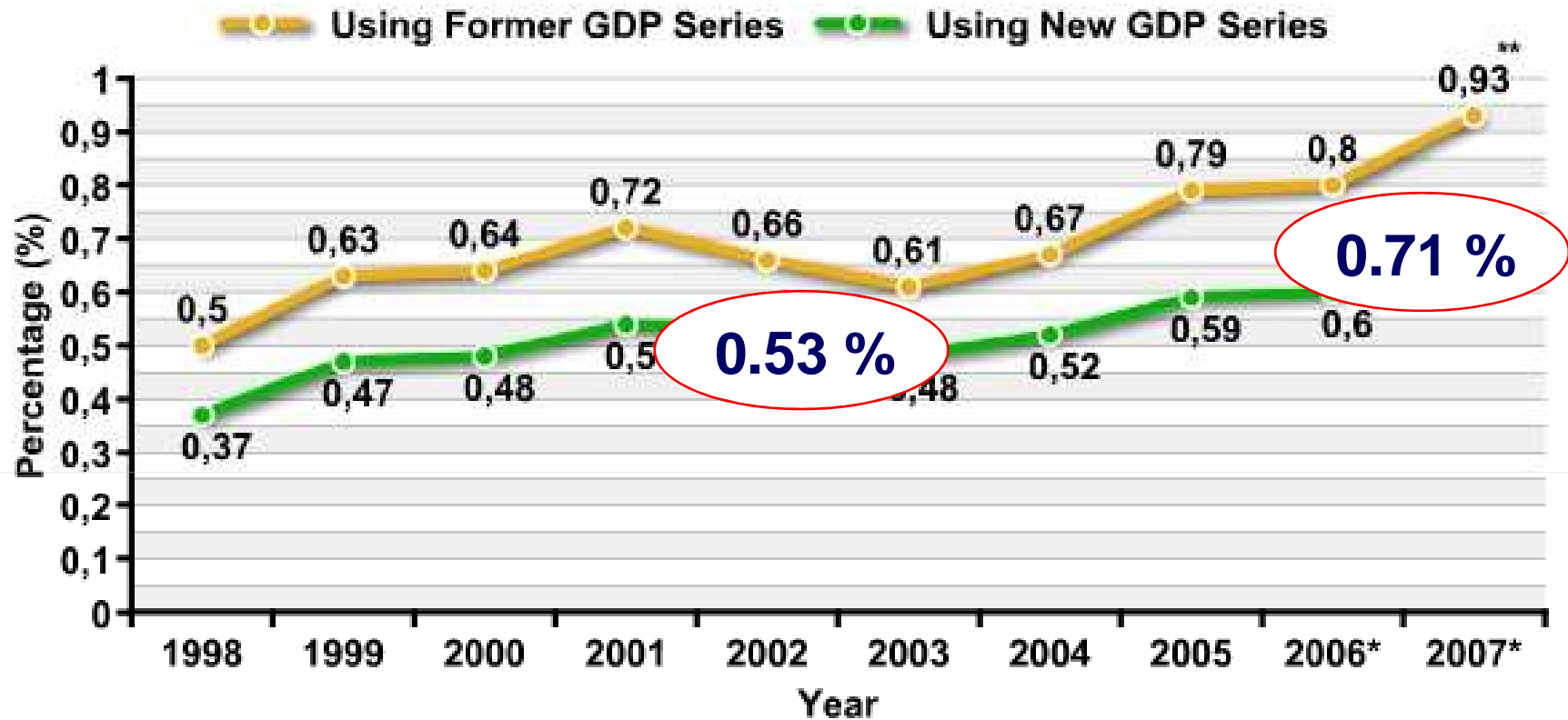
- Recent developments
 - R&D expenditures
 - FTE researchers
 - Scientific publications
 - Patent applications
- Enablers
- Triggering mechanisms
- Future policy directions

R&D Expenditures*



Increased to 2.7 fold during 2002-2007

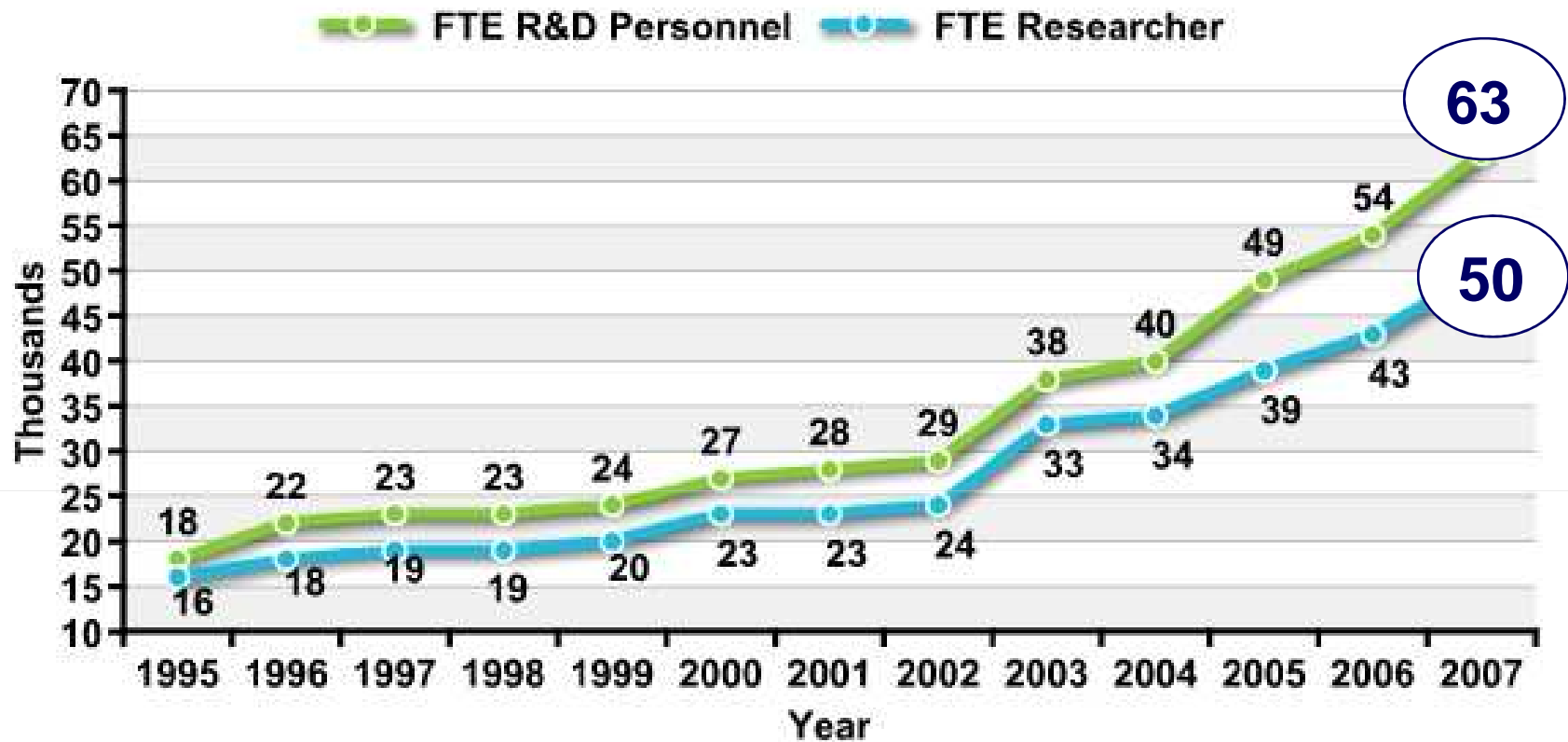
GERD as % of GDP



2006, EU-27: 1.84 %

TR Target 2% by 2013

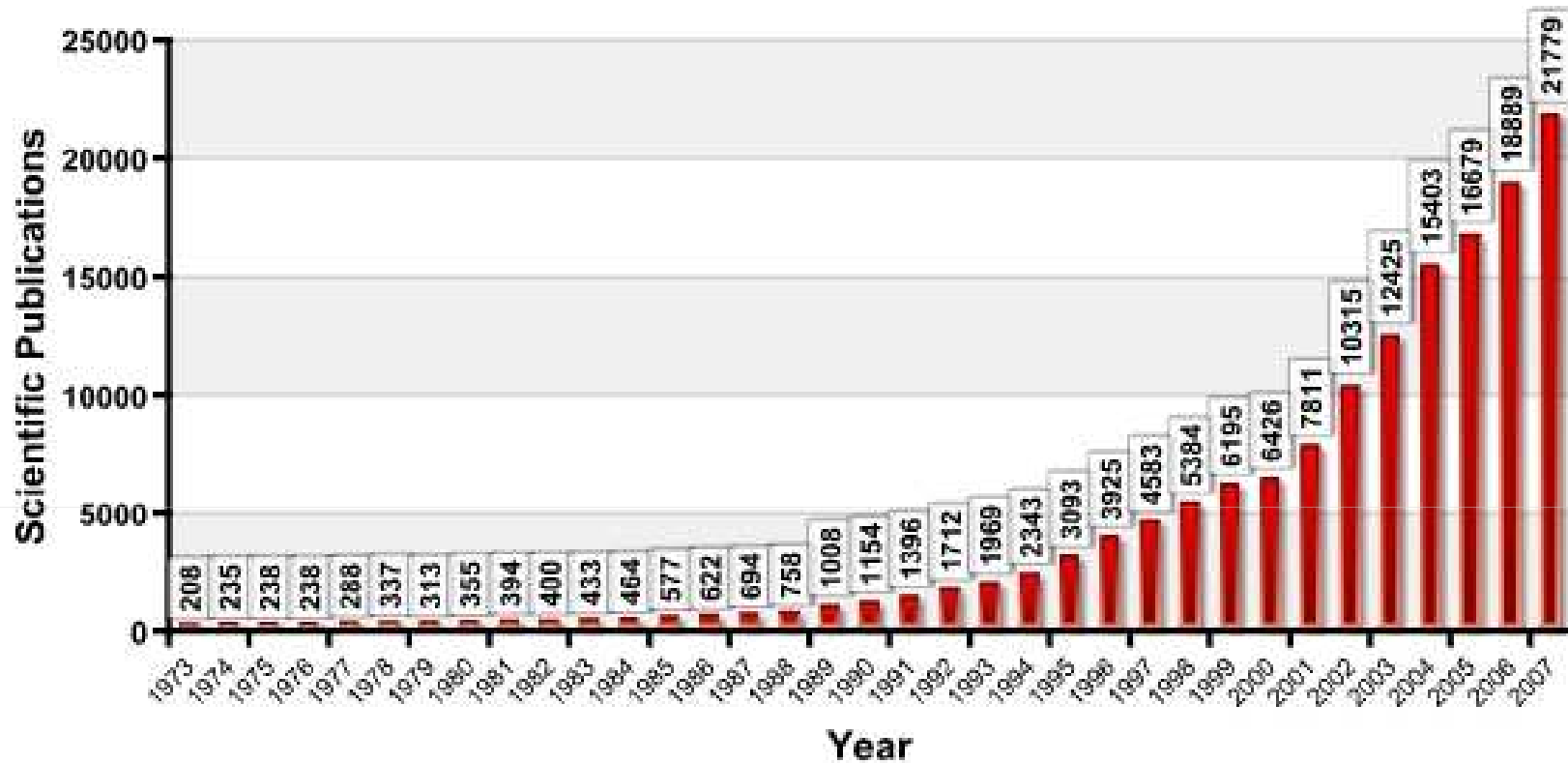
FTE R&D Personnel



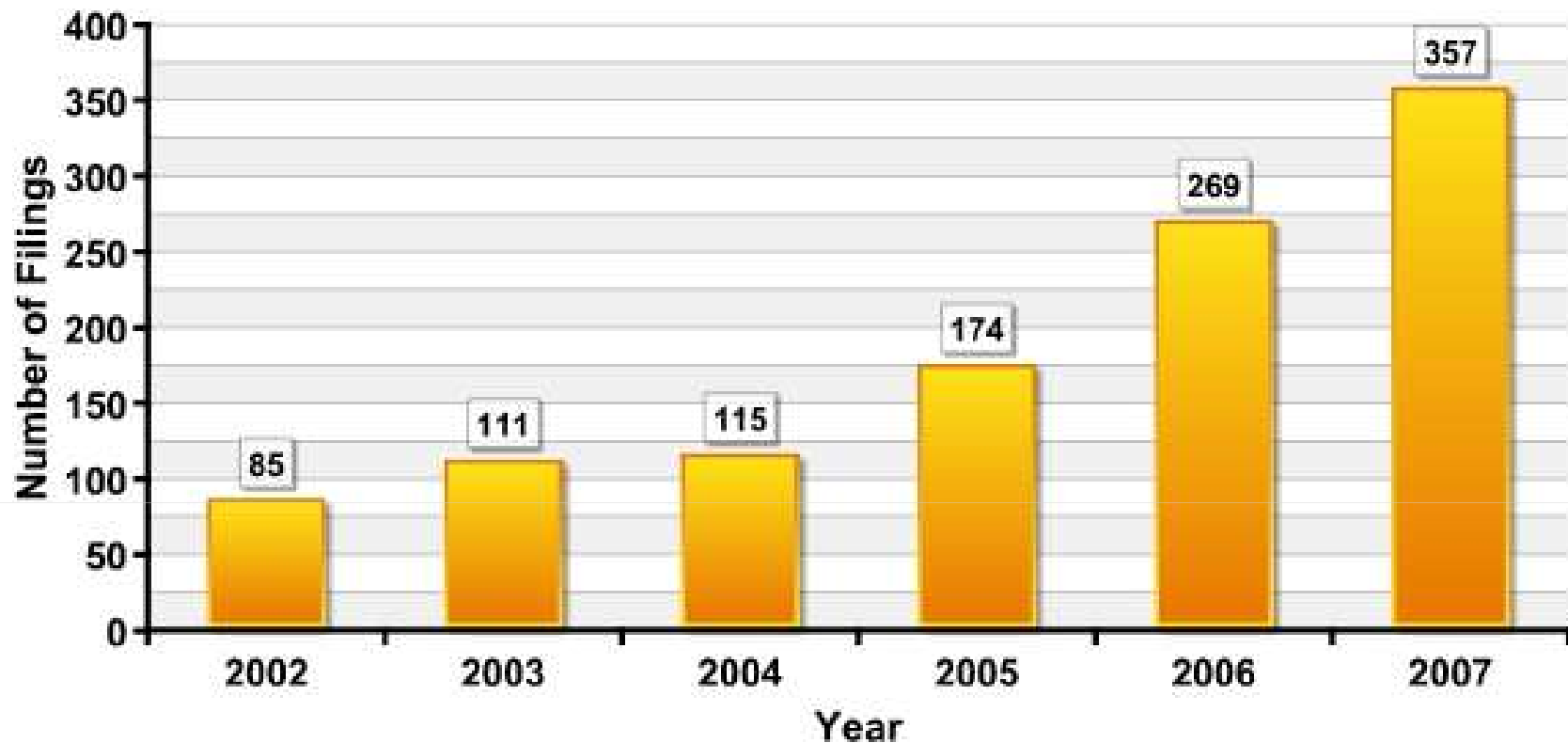
Increased to 2.2 fold during 2002-2007

TR Target 150 000 by 2013

Scientific Publications from Turkey



PCT Applications From Turkey



Moreover, domestic patent filings and grants increased to 4.4 fold during 2002-2007

2002-07 Countries Behind

- **GERD 2;**
 - **Finland, Denmark**
- **GERD as Percentage of GDP 3;**
 - **Poland, Greece, Slovakia**

2002-07 Countries Behind

- **FTE R&D Personnel 8;**
 - **Greece, Romania, Argentina, Austria, Denmark, Switzerland, Belgium, Finland**
- **FTE Researcher 7;**
 - **Switzerland, Denmark, Austria, Belgium, Argentina, Finland, Holland**

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nuket.yetis; 16.04.2009

2002-07 Countries Behind

- **Scientific Publications 4;**
 - **Israel, Belgium, Poland, Taiwan**
- **PCT Applications 4;**
 - **Poland, Hungary, Luxemburg, Mexico**

2002-2007 Increase (%)

Indicator	EU-27	Turkey
GDP*	24	63
GERD*	24	121
R&D Personnel**	8	119
Researcher**	15	107
Scientific Publications	32	111

Political Support and Strategic Approach

- SCST, chaired by the Prime Minister, started to convene regularly
- National Science, Technology and Innovation Policy and Strategy
- 2005-10 Implementation Plan
- Concrete Targets (2013)
 - GERD: 2% of GDP
 - FTE R&D Personnel: 150.000

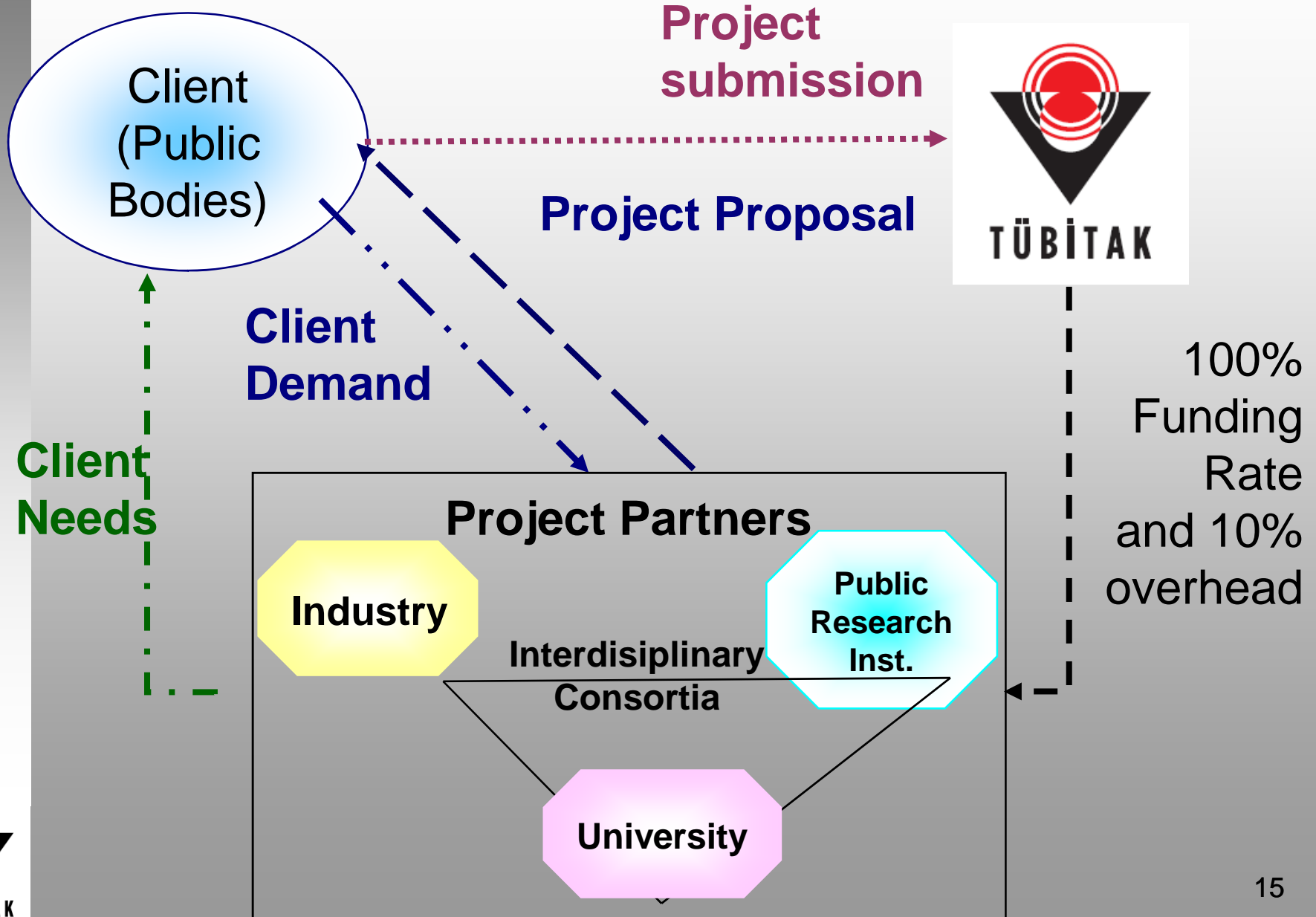
Political Support and Strategic Approach

- Devoting financial resources to this area
- Developing the necessary climate
 - Governance and legal infrastructure
- Areas under the Prime Minister's Initiative
 - **Developing Science and Technology Human Resources**
 - **Defense Research Program**
 - **Aerospace Research Program**
 - **Science and the Society Program**

Triggering Mechanisms

- Industrial R&D and innovation grants
- R&D tax incentives
- R&D and Innovation-Based Public Supply

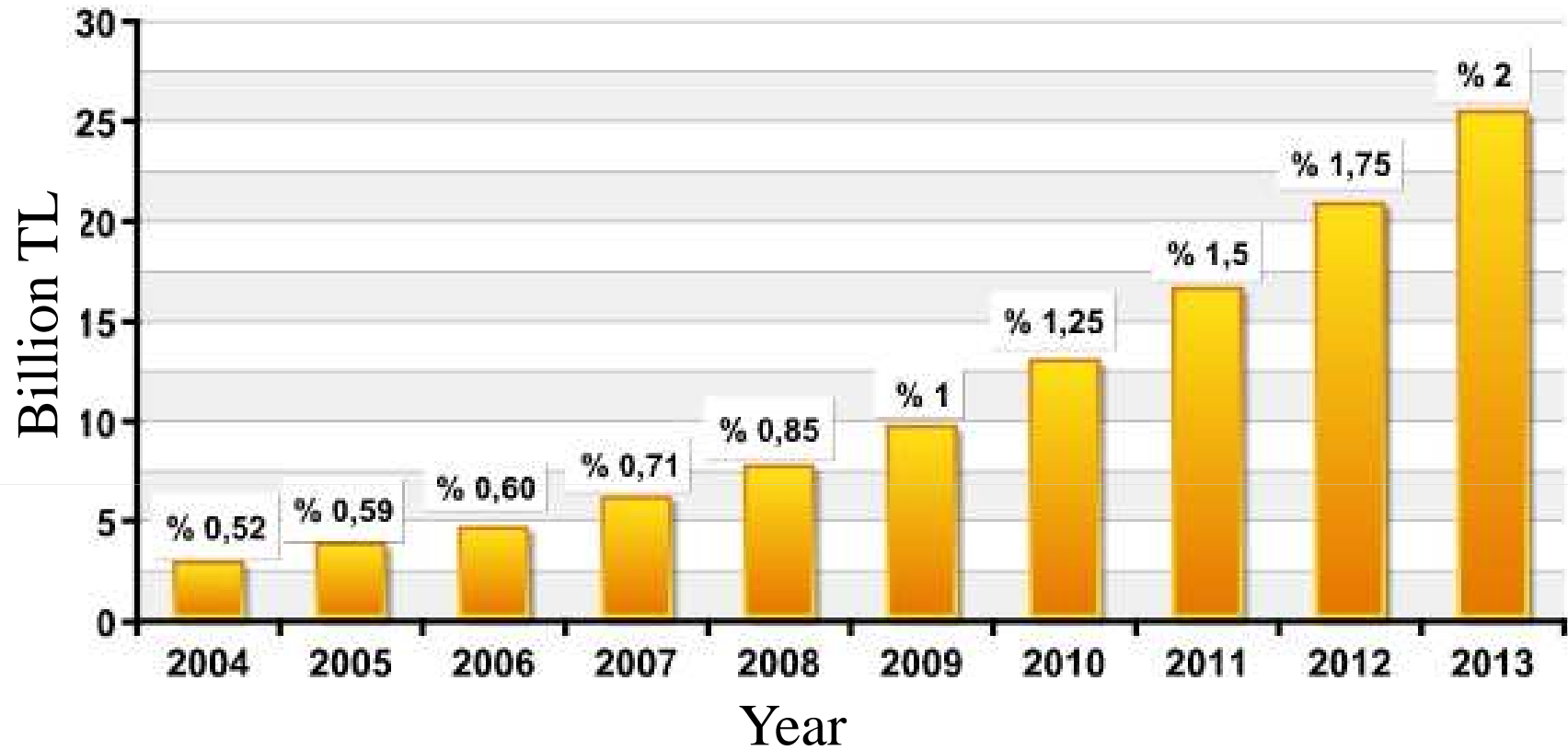
R&D and Innovation-Based Public Supply



Turkey's Potential for Further Progress

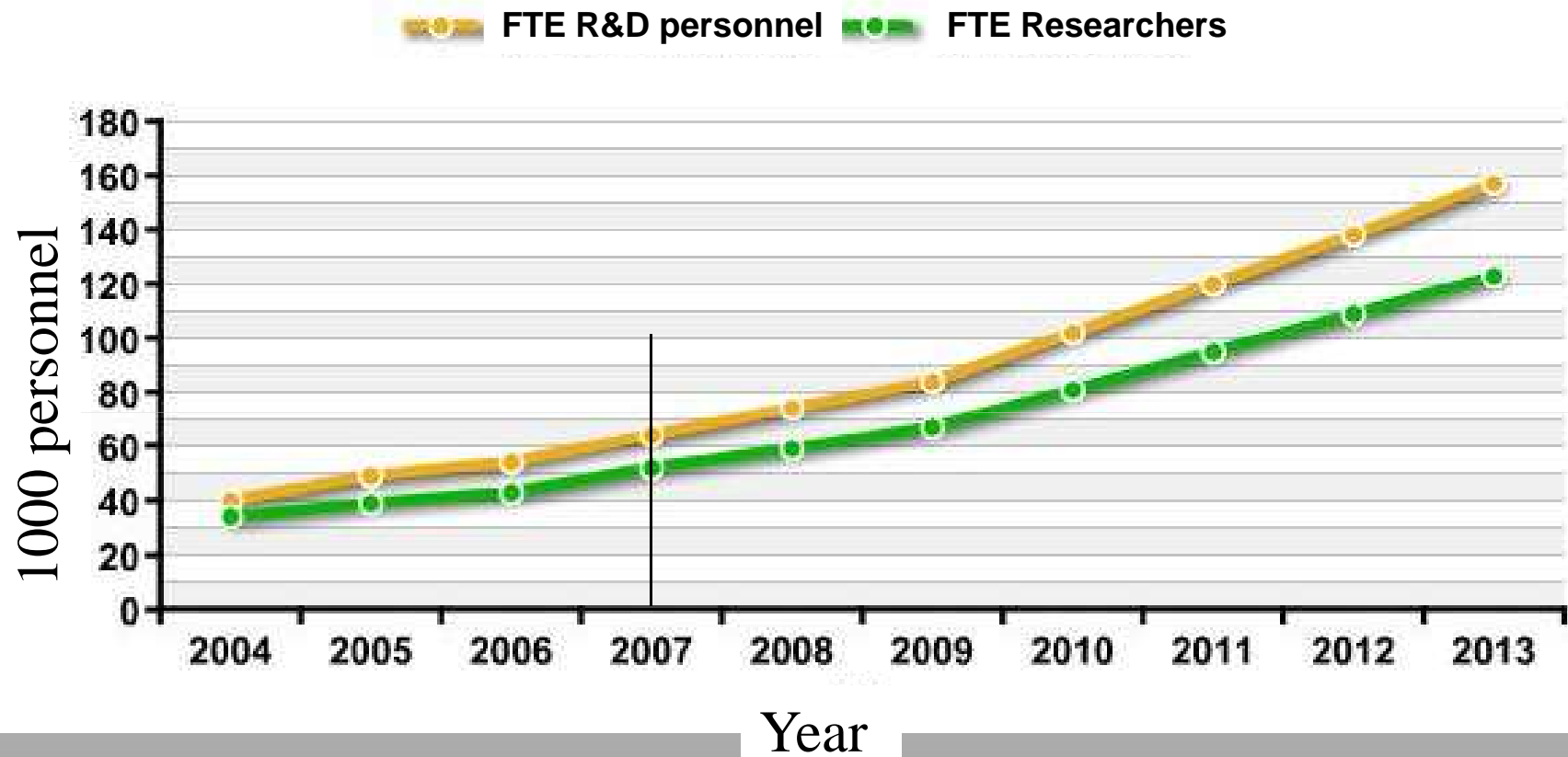
	Rank (Nominal)	Rank (Weighted*)
GDP	6	26
GERD	10	24
FTE R&D Personnel	9	28
FTE Researchers	8	28
Scientific Publications	8	25

GERD Projection* (2 % Target)



25 Billion TL by 2013

FTE R&D Personnel Projection



150 000 by 2013

Future Directions

- Continuing investing in S&T
- Eliminating the barriers for the freedom of movement of researchers
- Establishing “City Innovation Platforms”
- Enhancing International R&D cooperations

Conclusion

- Leap forward in RDI
 - Concrete evidence with indicators
- Political Commitment and Systemmatic Approach
- Policy Agendas
 - Public procurement for innovation
 - City-level innovation paltforms
- Complementing strengths
 - Demographic Advantages
 - Innovative Policy Tools

**“Let’s take the opportunity
to create a synergy
by complementing strengths”**