



EBİLTEM-TTO
TEKNOLOJİ TRANSFER OFİSİ

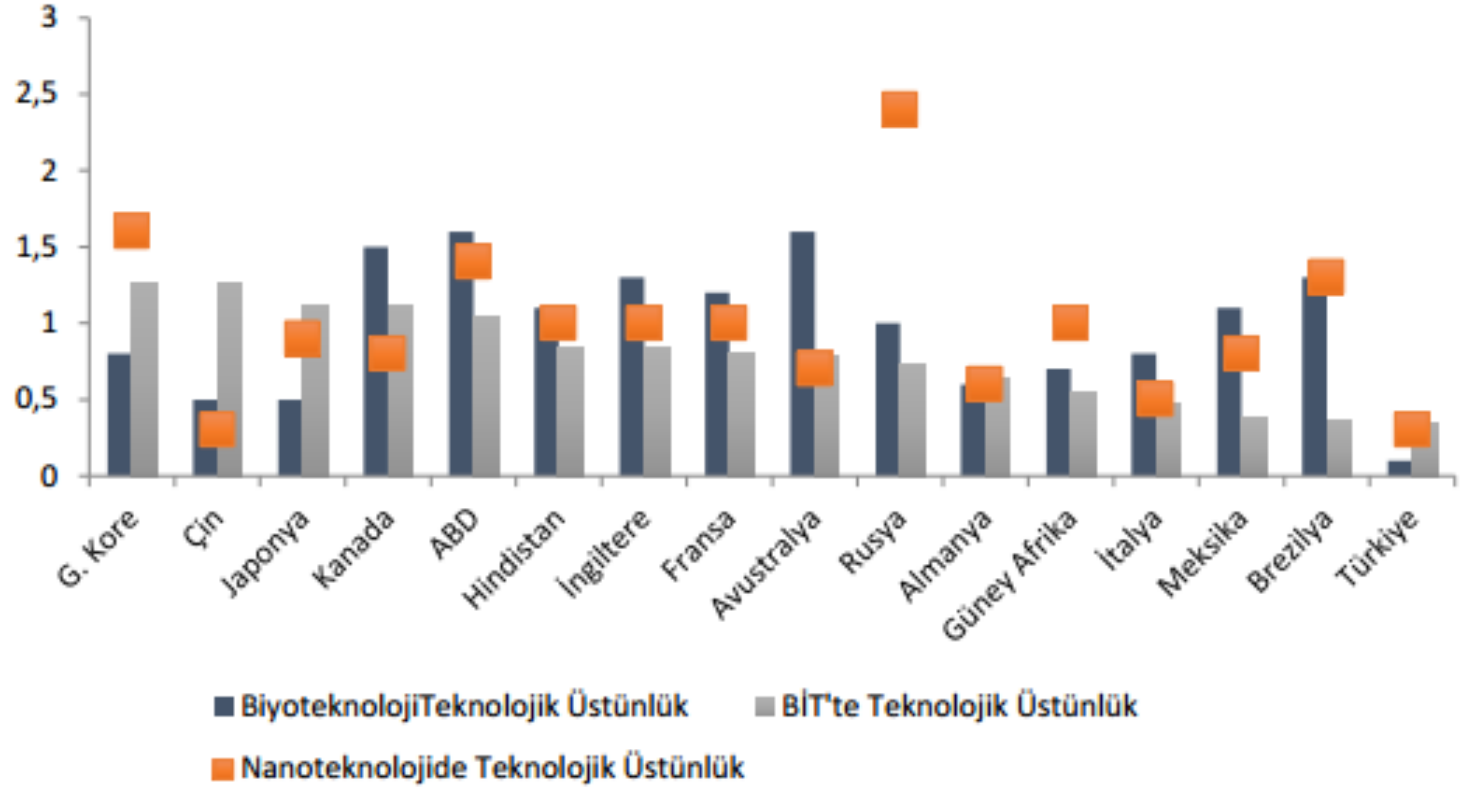
Araştırmadan Pazara Ulusal / Uluslararası İşbirlikleri



Fazilet Vardar Sukan

05.05.2017

Biyoteknoloji, Nanoteknoloji ve BİT'te Teknolojik Üstünlük Karşılaştırması, 2015



Kaynak: OECD, 2015

BİYOTEKNOLOJİ ENDEKSİ

	2.1	2.2	3.4	3.5	4.1	4.3	4.4	5.1	5.2	5.3	5.4	5.5	6.1.	6.2	6.3	6.4	7.1	7.2	7.3	7.4
UNITED ST	10	8.5	5.2	10	8.4	8.1	9.2	4.4	5.4			10	5.3	6.6	8.1	8.6	7.4	7.1	7.1	8.3
SINGAPOR	7	9.7	7.4	0.1	10	8.4	9.3			5.7	7	0.7	3.3	4.6	9.7	8.6	9.2	10	10	9.3
DENMARK	9.1	7.9	10	0.1	9.1	2.5	8.2	4.2	2	9.3		0.3	5.6	7.1	8.1	9.7	8.4	8.5	8.4	9.9
NEW ZEAL	6.1	9.4	9.6	0.1	9.8	6.9	6.9	10	10	4.5		0.5	1.2	2.8	5.8	8	10	9	9.1	9.7
AUSTRALI	6.8	8.5	7	0.9	7.8	3.8	8.4	7	5.8	5.3	5.3	3.4		5.2	5.6	8.5	8.8	7.7	8.9	9.4
SWITZERL	7.5	9.7	4.1	0.3	6.5	5.6	8.7	3.6	3.3	7.2		0.6	5.7	6.9	10	9.5	9.3	9.7	8.8	9.7
FINLAND	9.1	10	1.1	0.1	8.1	8.1	8.3	3.6	2	9		0.2	6.4	8	9.2	9.1	9.4	9.3	9	10
UNITED KI	8.5	9.1	4.1	1.4	8.5	6.3	9.3	7.6	6.4	5.1	2.3	5.8	2.8	3.7	6.7	9.1	6.9	7.8	8.8	9.2
SWEDEN	8.5	8.5	2.2	0.3	8.3	5.9	8.4	2.5	2.3	7.3		0.4	6.4	7.7	7.5	10	8.8	8.4	8.7	9.6
CANADA	9.1	8.5	3.3	0.8	7.8	5.6	10		6.4	5.3	4.5	1.6	2.1	3.9	6.9	8.2	9.1	8.3	8.8	9.2
HONG KO	5.2	9.1	1.5		8.9	7.5	9.4			2.9		0.3		1.6	9.7	8.7	8.9	8.6	9.5	9.1
GERMANY	8.3	8.2	1.1	1.6	7.7	5	6.9	4.8	2.9	6.5	5.1	2.8	5.3	6.7	8.3	8	8.4	8.2	8.4	9.1
ISRAEL	6.6	6.1	6.3	0.1	4.9	8.1	6.5		4.2	10	3.6	0	10	10	3.9	6.2	2.7	6	6.9	6.6
NETHERLA	9.1	9.1	4.8	0.4	6.5	5	8.3	2.6	0.9	6.1		0.8	2.9	4.5	9.4	8.6	8.7	8.6	8.6	9.5
JAPAN	9.1	9.4	0	2.7	6.1	5.3	6.6	0.9		5.9	5.5	2	7.5	7.8	9.2	7	8.6	8.5	6.7	8.3
IRELAND	9.1	8.8	5.9	0.1	7.5	4.1	7.7	7.3	4.3	5		0.1	3	3.6	5.6	8	8.8	7.7	8.6	8.9
FRANCE	9.1	8.5	3	1.3	6.5	4.7	7.2	5.3	3	6.9	2.8	3.7	3.9	5.2	8.3	7.5	6.7	6.9	6.5	7.8
AUSTRIA	7.5	8.2	2.2	0.1	7.3	3.1	6	3.3	2.7	6.6		0.8	5.7	6.6	8.6	9.1	9.4	7.6	7.8	9.5
NORWAY	6.8	8.5	4.1	0.2	8.2	7.2	7.6	2.7	1.5	6.3		0.2	2.2	3.7	5.8	9.1	8.9	8.5	8.2	9.8
BELGIUM	9.1	8.2	7	0.2	5.5	5	6.8	2.4	1.4	6.2		0.6	4.3	5.2	6.9	6.9	7.7	6.9	6.8	8
LUXEMBO	6.7	10			4.2	7.5			0.6	8.7			1.8	2.6	7.5	9	9.7	7.9	8.2	9.3
ICELAND	3.8	7			7.4	3.8		4.1	4.7	7.9		0	2.8	5.8	8.6	9.1	9.3	7.3	6.9	8.7
TAIWAN	4.9	6.7	0	0.2	7.9	6.9	6.2				2.6		6.4		7.2	7.1	8	6.8	7.2	6.9
SOUTH KO	7.5	3.6	0.7	0.5	8.9	2.2	8.1	4.4	3.7	6.8	3.7	0.8	9.3	9.5	7.5	7	6.2	6	6.6	6.2
ESTONIA		6.7			7.6	5	7	4.5	2.8	4		0	2.1	5	5.8	6.4	7.9	5.5	8.3	7.5
UAE		7.6		0.1	6.3	7.8	6.7			0.7		0.7		1	9.7	6.2	8	7.2	6.2	5.3
MALAYSIA	3.7	7.3	2.2	0	7.5	9.1	7.3	3.3		2.1		0.8		2.5	7.5	4.6	6.6	5.9	5.8	5.1
QATAR		8.8			3.5	10		0				0.1		1	7.4		8.6	5.3	5	6.3
SPAIN	7.5	3	5.9	0.6	6.2	2.5	6.6	3.2	2.5	5	3.9	0.7	1.6	2.9	7.8		6.6	6	5.6	6.1
CZECH REP	7.5	4.8	0.7		5.9	4.4	4.4	4.6	3	5.2		0.5	2.7	4.1	5.6	6.2	8.5	5.5	6.4	6.7
PORTUGA	7.7	5.2		0.1	7	2.8	6.9	3	4.6	4.5		0.2	1.6	3.1	7.8	5.5	8	5.4	5.6	6.7
CHILE	7.3	3.6		0.1	5.1	4.4	5.8	1.9	0.3	0.7	7.4		0	0.1	0.7	4.7	5.5	7.1	5.9	7.8
LITHUANI	6	3.3			7.4	3.4	4.8	3.1		3.4		0		2	5.6	4.2	7.9	5.3	6.9	6
SLOVAK R	7	3.3		0	6.4	3.1	4.1	4.8	4.5	3		0.1	0.8	1.8	4.4	5.1	8.6	4.9	6	4.6
SOUTH AF	7.2	7.3	4.4	0.1	3.1	3.4	5.3		0.9	0.9		0.9	0.6	1.6	3.9	5	5.4	2.8	4.2	3.5
POLAND	7	3	4.1	0.1	6.7	1.9	2.8	5.2	3.7	2.3		0.3	0.8	2	3.3	5.1	8.2	4.7	6.5	5.7
HUNGARY	8.3	2.1	3	0	5.5	1.6	4.6	2	0.9	4.1		0.2	2.6	2.9	5	3.8	7.7	3.5	5.6	4.6
ITALY	9.1	3.3	1.5	0.8	5.3	0.6	4.9	2	2.8	4.8	3.2	1	1.7	2.9	3.3	4.6	7.1	2.9	5.3	4.1
LATVIA		3.9			7.2	3.1	3.3	2.9	0.7	2.4		0		1.4	5.3	4.9	7.3	5.3	6.8	5.9
SAUDI AR	1.4	6.1	0	0.1	2.6	5	4.8	5	1.9		10	0.6		0	5.6	3.8	4.9	2.3	3.2	3.9
CHINA	6.4	3	0.4	2.7	2.5	5.9	5			1.9	0.7	1.2	4.4	4.4	4.4	2.9	4.3	2.8	2.5	1.9
GREECE	7.4	3.3		0.1	4.2	0	4.2	3.5	0.6	4.9	1.9	0.4	0.4	1.5	3.9	4.1	5.7	3	4.3	4.1
MEXICO	5.5	2.4	3.3	0.4	5.8	2.8	3.9	1	1	0.6	4.5			0.9	3.3	1.2	3.4	2.2	4.6	1.5
RUSSIA	4.6	0	5.6	0.5	5	2.5	2.7	4.3	0	4.8	1.9	2.3	1.7	2.3	3.3	4.6	3.2	1.2	2	0.6
THAILAND	0	0.6		0.1	5.1	4.4	6.1			0.5	8.1			0.8	3.1	2.4	3	2.8	4.1	2.5
TURKEY	6.1	2.1	0	0.3	4.4	1.9	2.8	3	1	1.8	3.4	0.5	1	2	5.6	2	2.5	3	4.5	3.1
BRAZIL	4.2	2.1	3	0.7	0.9	1.9	3.1	1.2	0.4	0.2	5.3	0.2		2.6	0	3.3	5.6	0.9	3	2.7
PUERTO RICO					4.3					0.6				0.9			7.8	3	5.9	5.6
INDIA	5	3.6	3	0.5	0	6.6	4.1			0.3	0	0.4		1.8	3.1	0	2.8	0.7	1.9	2.7
PHILIPPIN	6.8	2.7		0.1	1.7	3.8	1.9			0	2.8			0.1	1.1	1.3	3.6	2.2	3.2	1.9
KUWAIT		2.1			1.7	3.1	5.5			0.1				0.1	3.3	5.2	6	0.9	2.9	3.2
INDONESIA	0.5	3.9		0.2	1.1	5.9	1.9	0.7			7	0.1		0	2.5	0.3	4.6	1.4	3	1.8
UKRAINE	4.6	0.3			2.6	1.6	0	3.6		1.9	2	0.6		1.6	2.5	3.3	0	0	1.4	0.4
ARGENTIN	5.9	0		0.1	0.6	0.3	0.2	1.5	0.4	1.6	3.2		0	1.2	0.3	3.1	5.9	0.8	0	0

Kaynak: Scientific American Worldview, 2016

Araçlar

**Sektörün İnovasyon
Kapasitesinin
Belirlenmesi**

**Biyoteknoloji Ar-Ge
Kümesi**

**Biyoteknoloji Girişim
Sermayesi Fonu**

**Sektör Odaklı
Kontratlı
Araştırmalar**

Yan Sanayi

**Biyoteknoloji Veri
Haritası**

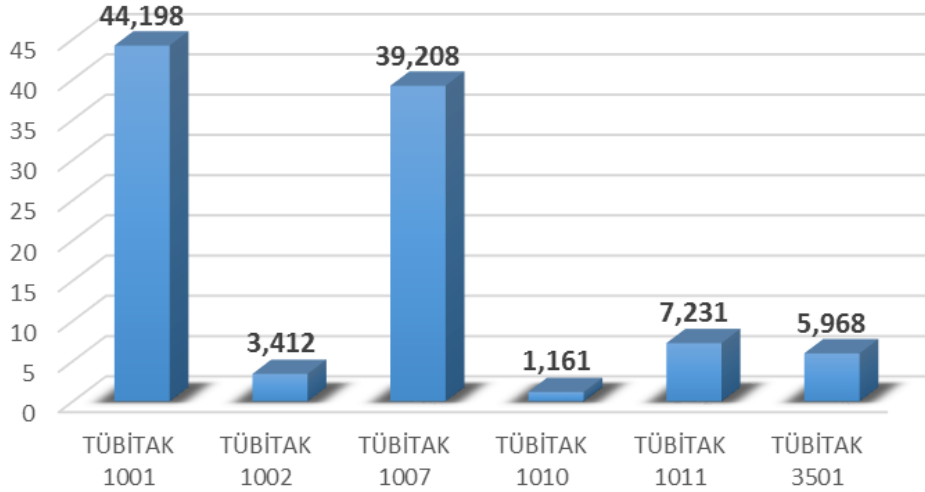
**Tematik Teknoloji
Transfer Ofisleri**

**Tematik
Teknopark/Kuluçka
Merkezleri**

Kamu İhaleleri

TÜBİTAK ARDEB Biyoteknoloji Projeleri Toplam Bütçeleri (2000-2013)

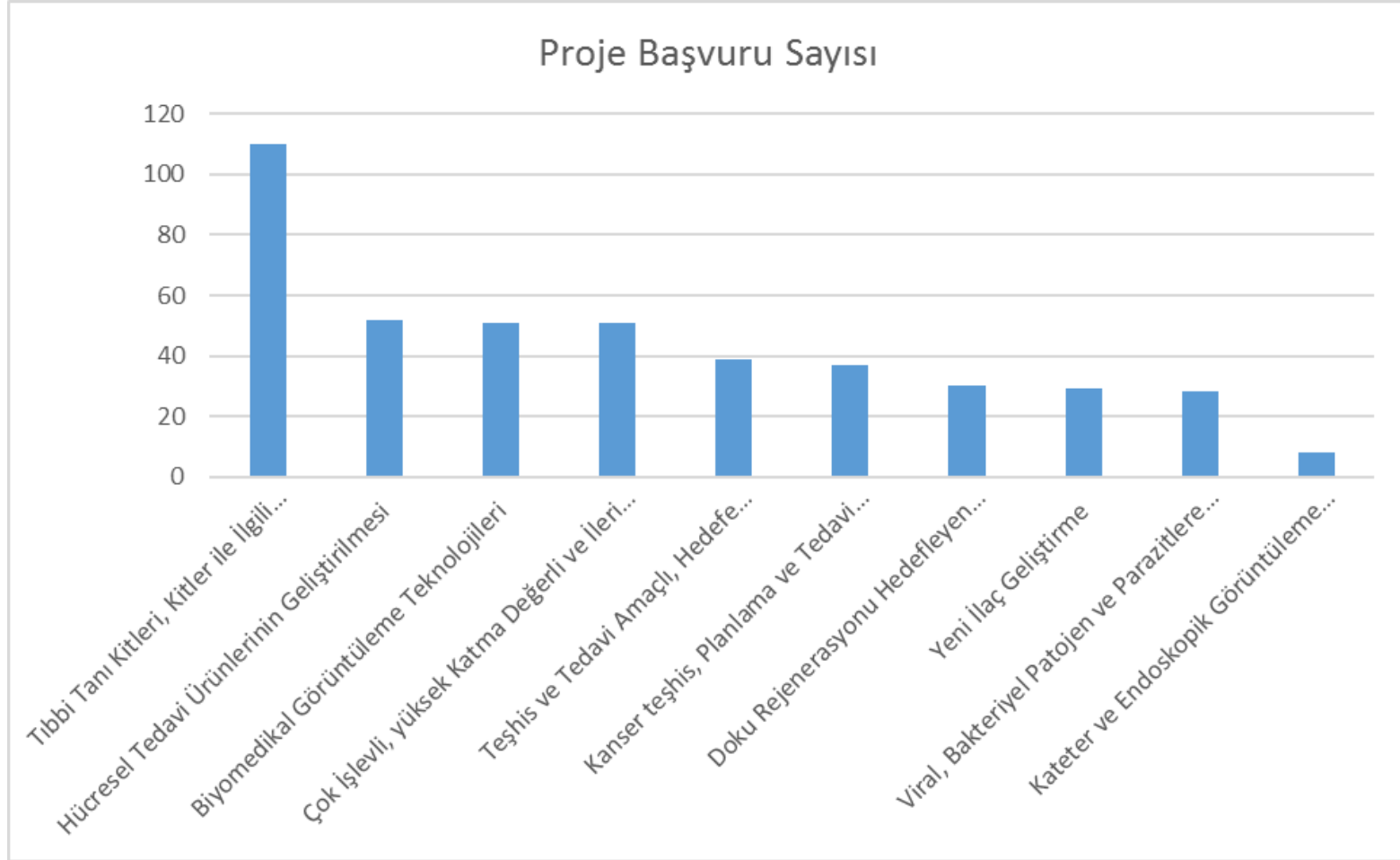
Proje Toplam Bütçesi (Milyon TL)



TÜBİTAK ARDEB GENEL DESTEK İSTATİSTİKLERİ¹ (2000-2015)

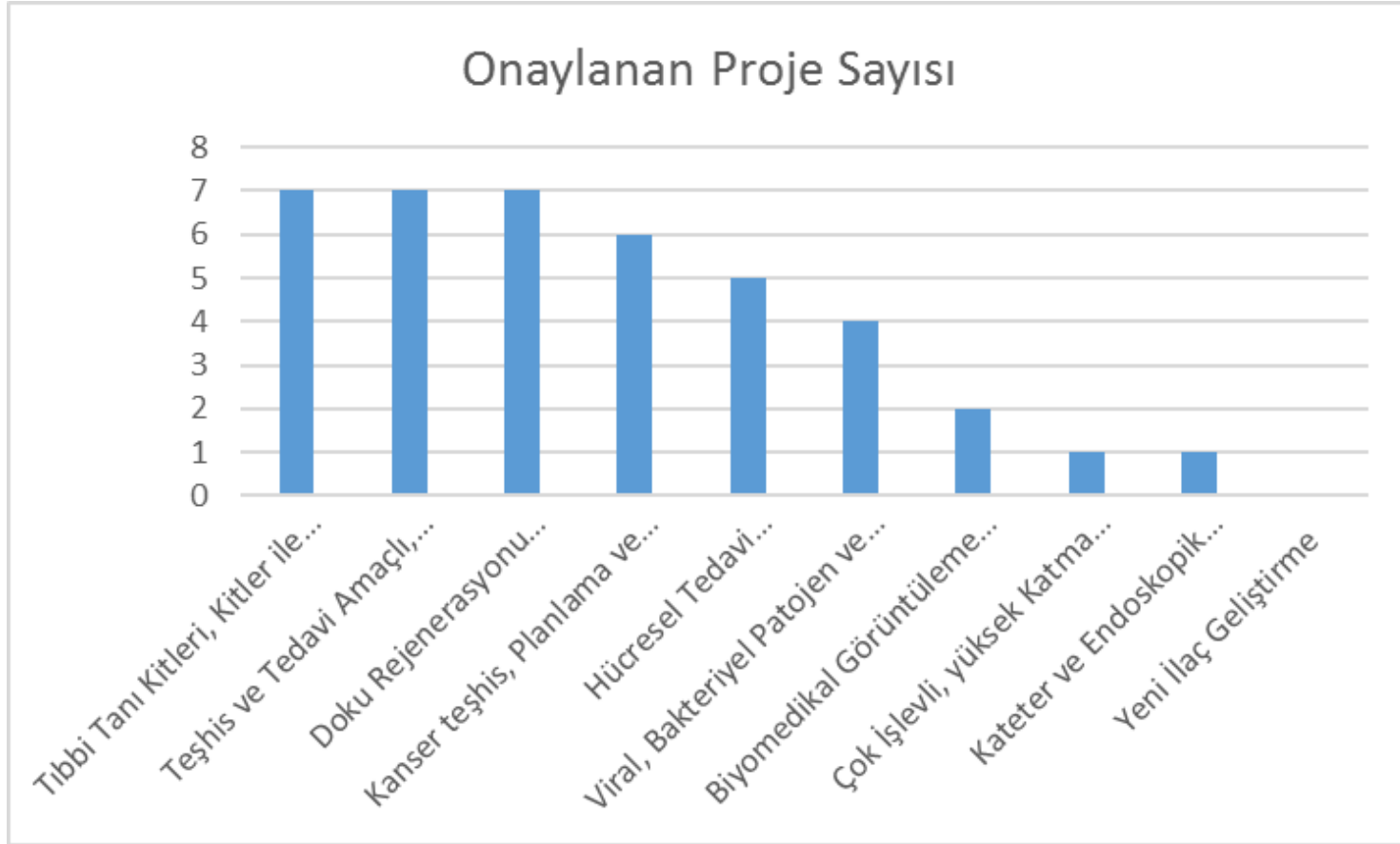
Yıl	Önerilen Proje Sayısı	Destek Kararı Verilen Proje Sayısı	Yürürlükteki Proje Sayısı	Yürürlükteki Projelere Aktarılan Yıllık Tutar ² (TL)
2000	946	335	843	7.461.565
2001	1.149	421	1.001	11.891.608
2002	1.198	548	1.242	17.201.978
2003	867	338	1.227	15.780.224
2004	1.742	480	1.353	21.390.239
2005	4.203	1.480	2.359	141.367.891
2006	4.163	1.366	3.160	369.004.271
2007	5.005	1.304	3.472	539.593.679
2008	4.944	1.188	3.295	437.483.292
2009	4.910	911	2.834	544.789.116
2010	5.154	1.239	2.652	525.642.194
2011	5.060	1.234	2.695	390.056.734
2012	6.182	1.131	2.725	356.872.916
2013	7.856	1.701	3.109	440.887.245
2014	9.623	2.254	4.212	560.273.824
2015	12.116	2.153	5.122	700.945.717

Yapılan Proje Başvuru Sayısı



Kaynak: TÜBİTAK

Onaylanan Proje Başvuru Sayısı



- Tanı
 - Kitler
 - Kimyasallar
- Tedavi
 - İlaç ve ilaç Maddesi
 - Ekipman
- Koruyucu Hekimlik
 - Aşılar
 - Monoklonal Antikorlar

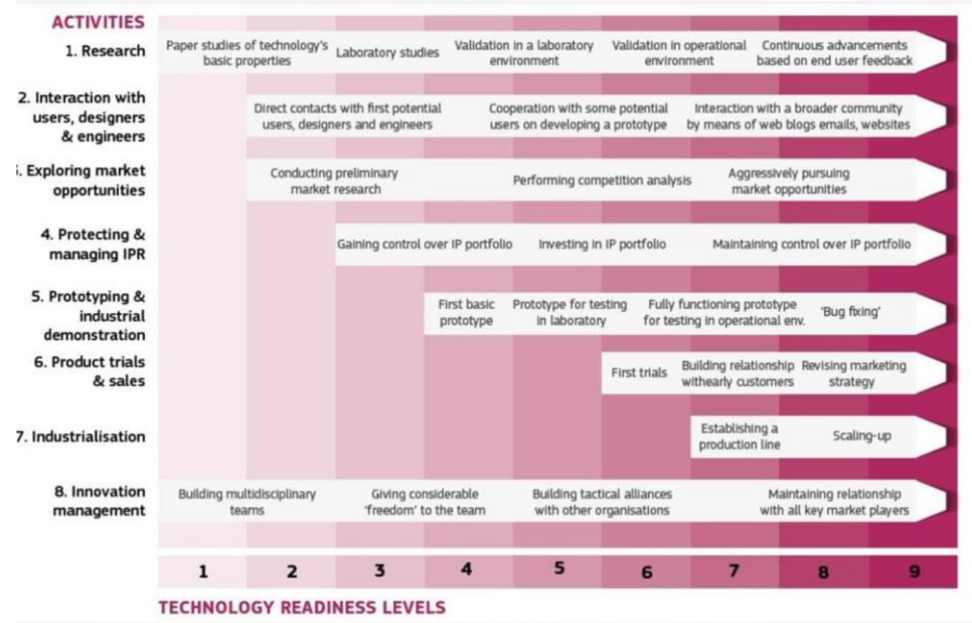
- Programlar
 - Farklı Program Adları:
 - **Biyomühendislik**
 - **Genetik ve Biyomühendislik**
 - **Biyoloji Mühendisliği**
 - **Biyosistem Mühendisliği**
 - **Biyomedikal Mühendisliği**
- Mezunlar – sadece EGE'den 700

- Araştırmacı

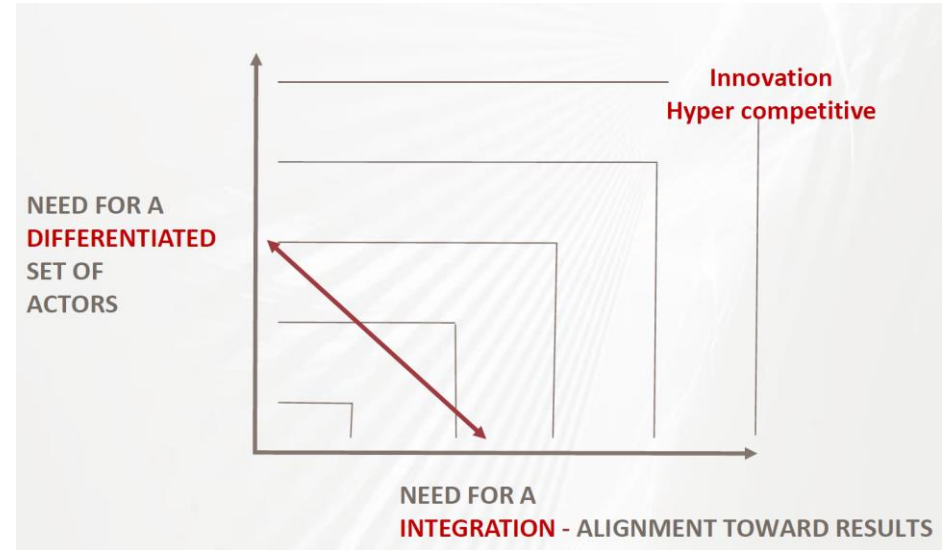
- Öğrenci

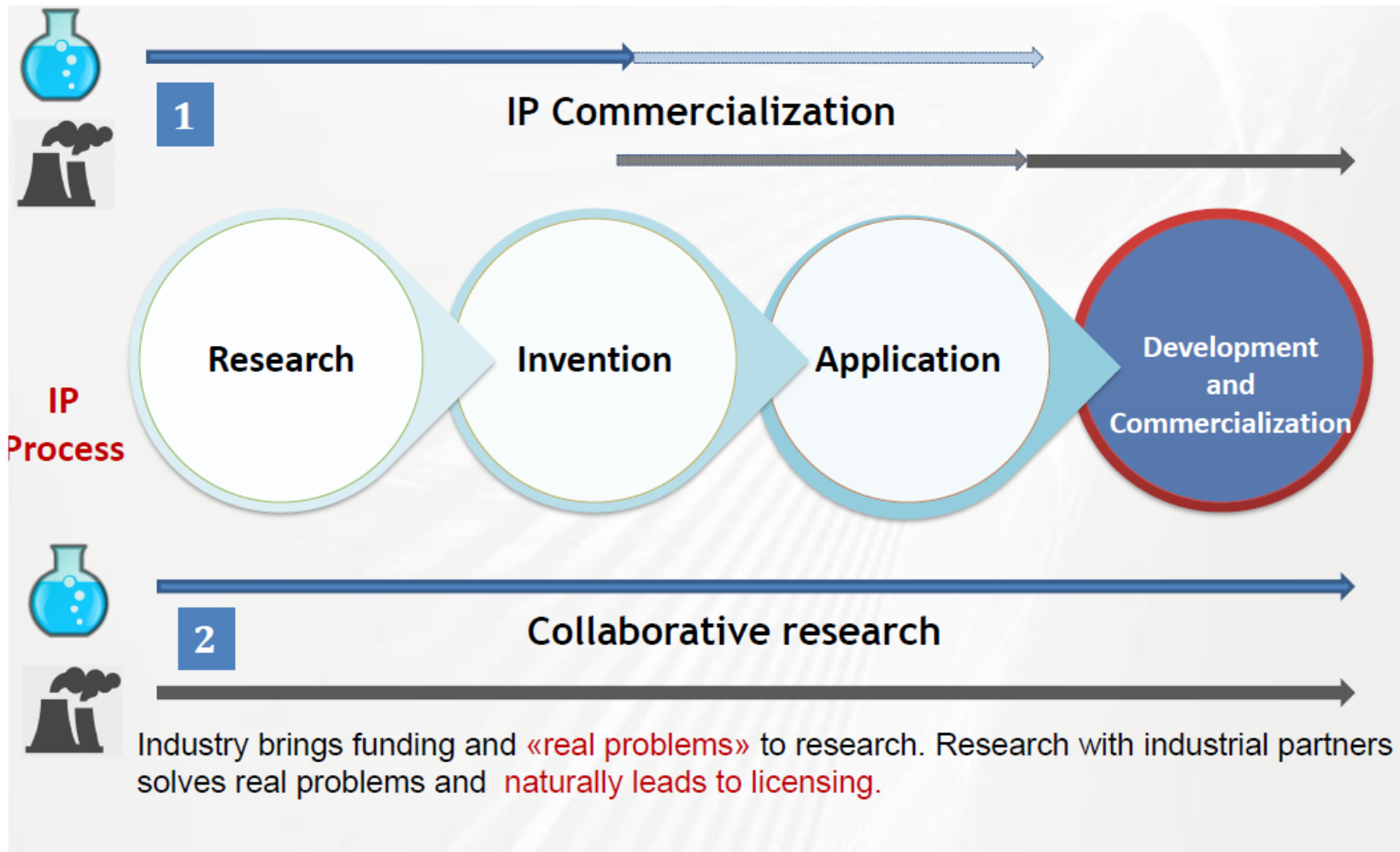
- Sektör – Yerel Firmalar

- Uluslararası Firmalar



- Danışmanlık
- Ortak araştırma
- Kontratlı Araştırma
- Translasyonel Araştırma
- Klinik Araştırma





- Yerli teknolojiler
 - Talep
 - Güven
 - Kurumsal güvence
- Global Firmalar
 - Ar-Ge
 - FMH



EBİLTEM-TTO
TEKNOLOJİ TRANSFER OFİSİ

Teşekkürler