


Technology Development Foundation of Turkey

TTGV
17th May 2010

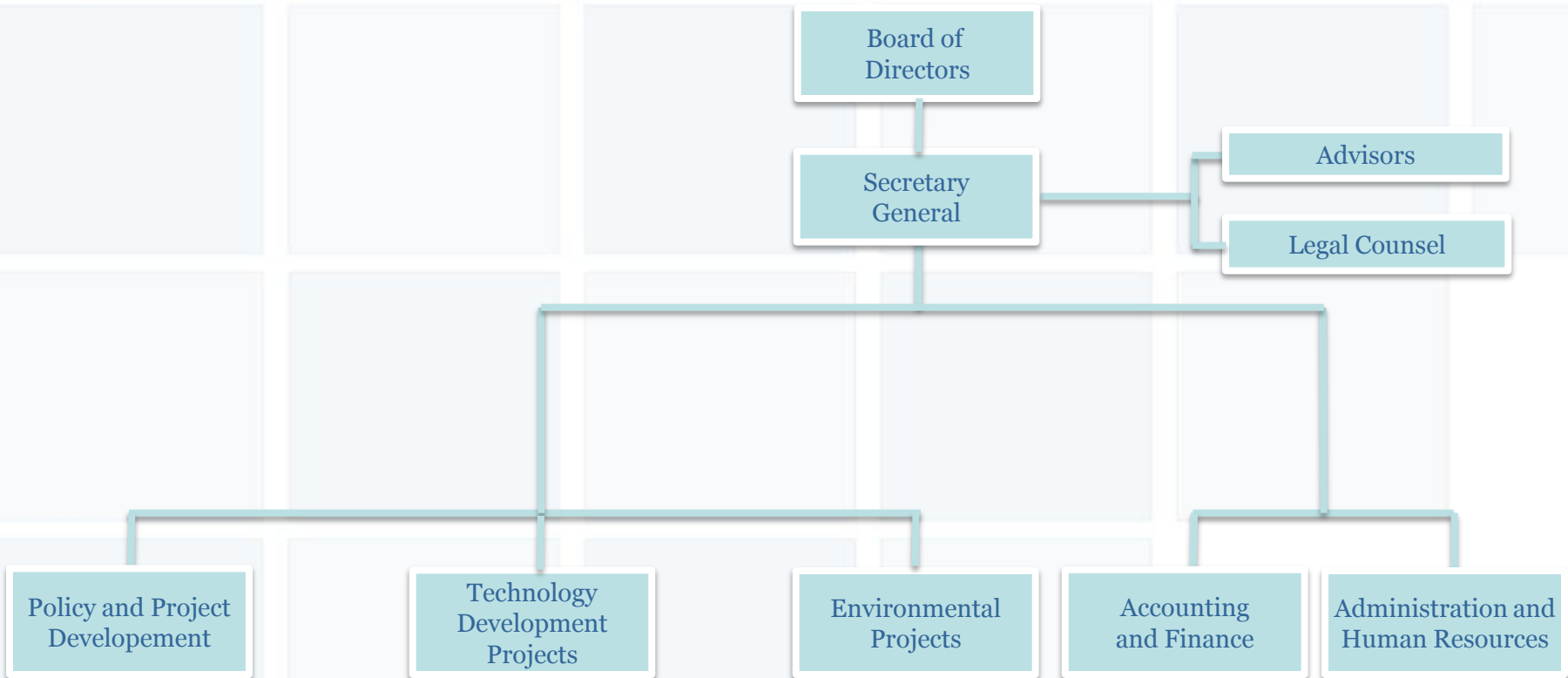
- TTGV is an example of public-private partnership
- Founded on June 1st, 1991
- To support technological innovation towards increasing the competitiveness of Turkish industry in global markets
- Not for profit-”Foundation”



Founders Assembly-Board of Directors

- Founders Assembly
 - 26 private sector, 6 public sector, 10 umbrella organisations
 - 14 individuals
- Board of Directors
 - 10 members from private sector (including the chairman)
 - 5 members from public sector
 - State Planning Organisation (DPT)
 - Undersecretariat of Foreign Trade (DTM)
 - Undersecretariat of Treasury (Hazine)
 - Scientific and Technological Research Council of Turkey (TÜBİTAK)
 - Small and Medium Sized Industry Development Organisation (KOSGEB)

Organization

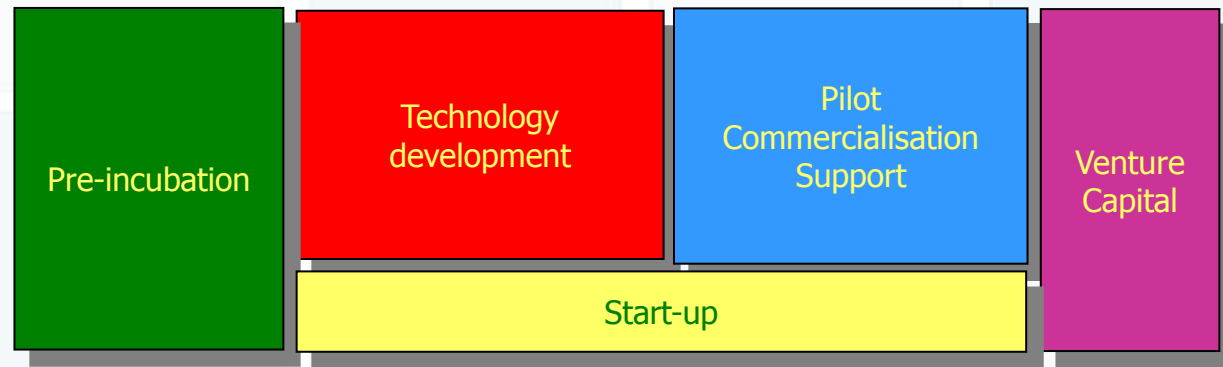
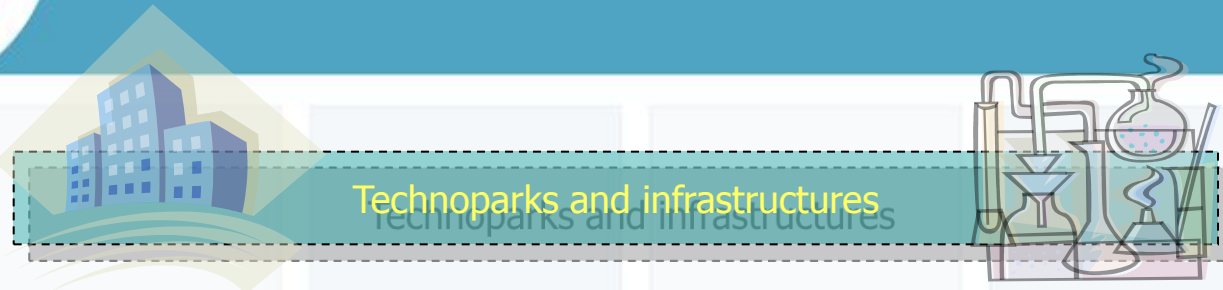




Financial Resources

- Treasury/World Bank
 - Technology Development Project-TDP (1991-1998)
- Undersecretariat of Foreign Trade
 - Product Development R&D Support-UFT (1995-...)
- Treasury/World Bank
 - Industrial Technology Project-ITP (1999 - 2005)
- Montreal Protocol Multilateral Fund/Treasury/World Bank
 - Phaseout of Ozone Depleting Substances (1994 -2007)

TTGV supports





Technology Development Projects

- Industrial projects aiming technological innovation and commercialisation
 - Duration : **Max 2 years**
 - Support : **Max 1 M USD (upto 50% of budget)**
 - Repayment : 1 year grace period / 4 year–no interest

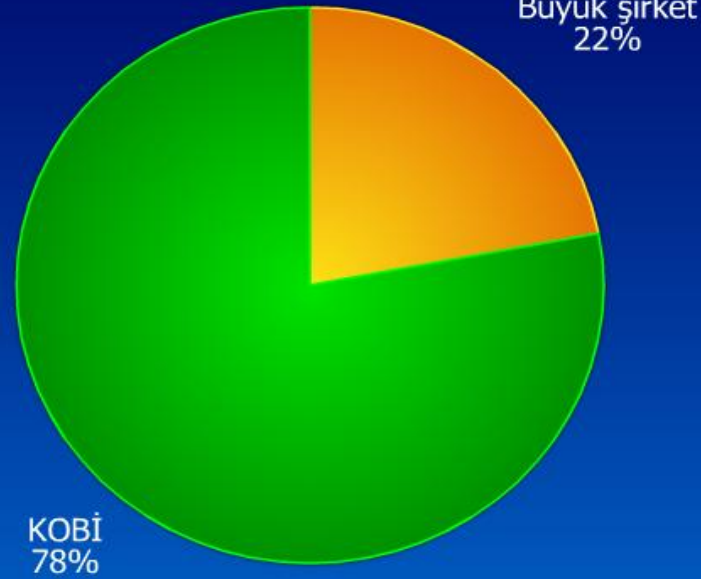


Technology Development Projects

	TDP	ITP	DTM I	DTM II	TOTAL
Number of Projects	84	245	76	425	830
Commitment (M USD)	45	75.6	29	136	285.6
Disbursement (M USD)	38.5	56.3	18.1	73	185.9

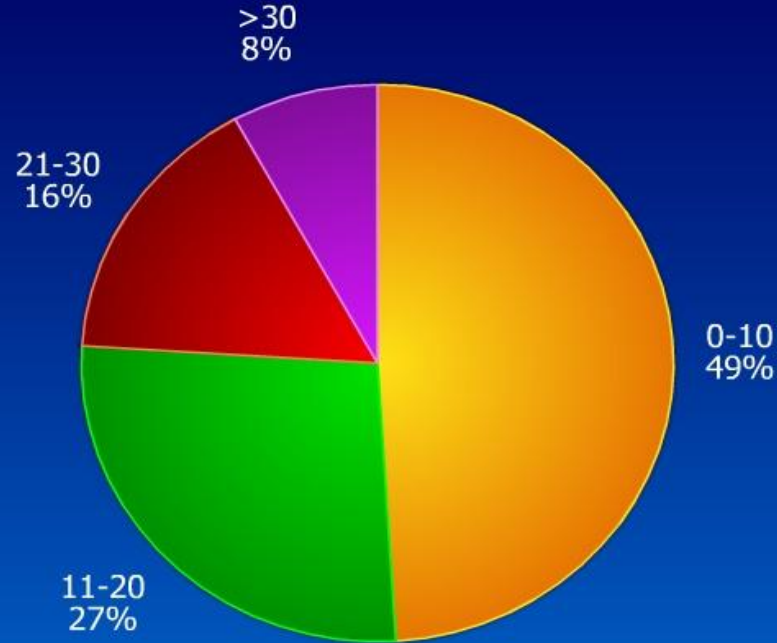
Distribution of Supported Projects according to Company Size

Desteklenen Projelerin Firma Büyüklüğüne Göre Dağılımı



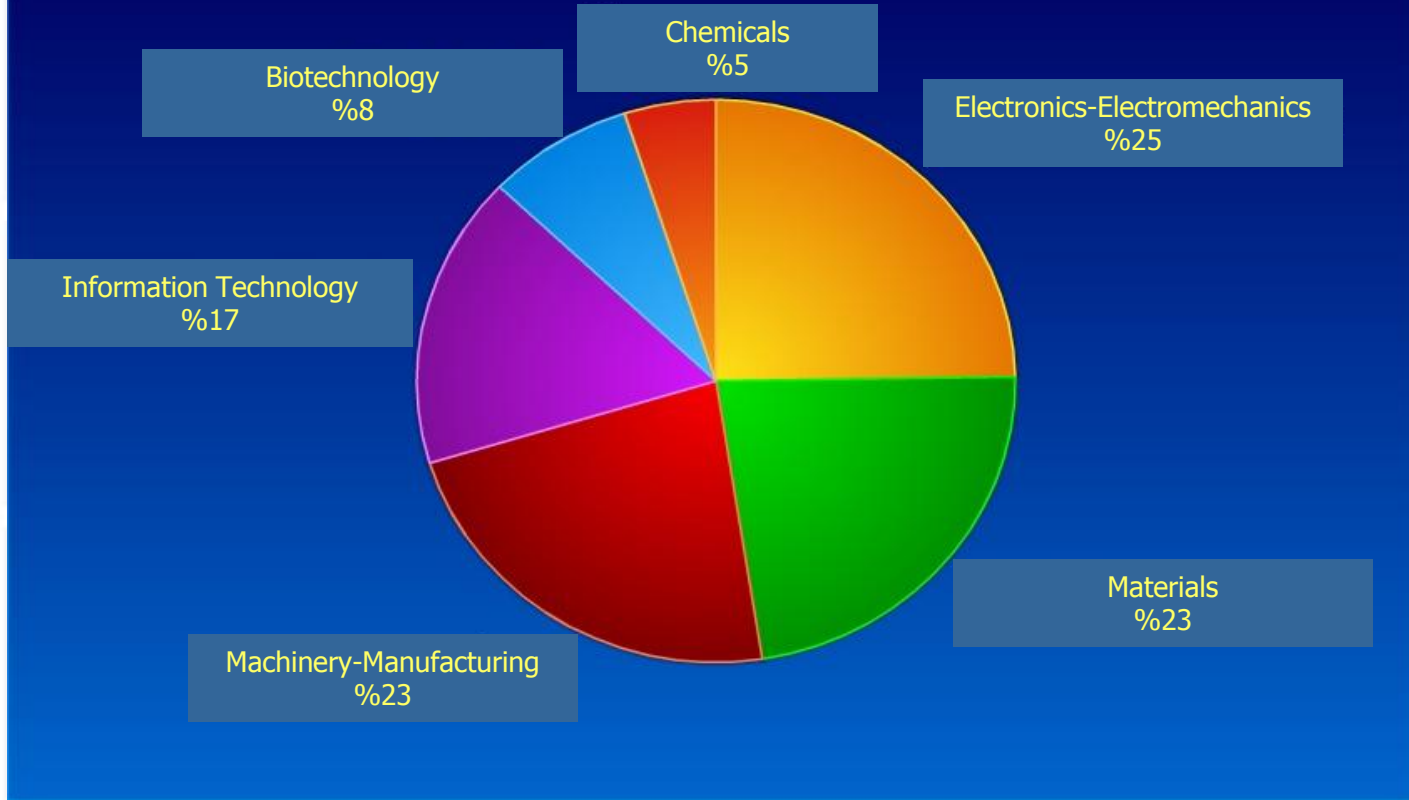
Distribution of Supported Projects according to Company Age

Desteklenen Firmaların Yaşlarına Göre Dağılımı



Distribution of Supported Projects according to Sectoral Scope

Desteklenen Projelerin Sektörlere Göre Dağılımı (Destek Tutarına Göre)





Venture Capital / Private Equity Activities

- TTGV is an active player in developing alternative investment vehicles.
- TTGV has been the pioneering institutional investor for local PE funds, established a seed stage VC fund for technology companies and participated in setting up a fund of funds.



Venture Capital / Private Equity Activities

- **Industrial Technology Project: 7.000.000 USD**
TTGV has been a Limited Partner in first Private Equity Funds established in Turkey.
 - İş Girişim : 3.700.000 USD
 - Turkven : 3.300.000 USD



Venture Capital / Private Equity Activities

Teknoloji Yatırım A.Ş. is the seed stage, start-up financing fund of TTGV.

- The fund is established in 2007 and invests in extraordinary entrepreneurial teams with unique business models.
- Investments
 - UCA Türkiye A.Ş. (Life sciences)
 - LOGOBİZ (IT)
 - Infotech (IT)
 - Mobiga (Mobile Entertainment)
 - Asset Medikal (Medical Devices)

Pre-incubation support

- To provide a fertile environment for new business ideas in high-tech sectors
- Office space, funding for expenses, technology and management support



Venture Capital / Private Equity Activities

- Istanbul Venture Capital Initiative (iVCI)
 - Fund of funds structure established in partnership with KOSGEB, TKB, Garanti Bank, National Bank of Greece and European Investment Fund (EIF).
 - Total Fund size - 160 M Euro managed by EIF.
 - One co-investment agreement with an Eastern Europeans Fund closed.
 - Several proposals in the pipeline.

- Industrial Technology Project: 12.000.000 USD
 - Bilkent Cyberplaza – Ankara : 8.000.000 USD
 - İTÜ Arı Teknokent – İstanbul : 4.000.000 USD



The Association for Technology Implementation in Europe-TAFTIE (www.taftie.org)

- TAFTIE, is a network of innovation agencies throughout Europe
- TAFTIE members provide funding and technical support to the firms in the process of R&D and commercialisation of R&D
- TTGV is a member of TAFTIE since 1997
- TTGV held the chairmanship of TAFTIE in 2007



- Since 1991, TTGV
 - Committed **286 M USD** to **830 projects** of industrial firms
 - Provided **12 M USD** for funding two technoparks
 - Provided **7 M USD** for funding two venture capital funds
 - Provided **3 M USD** for funding five start-up firms
 - Provided **40 M Euros** for iVCi fund of funds



Environmental Projects Phaseout of Ozone Depleting Substances

- Phase Out of ODS Project under Montreal Protocol, as a World Bank program, has been implemented between 1994 – 2007.
- This is a National Program implemented together with Ministry of Environment and Forest, for the purpose of eliminating ODS utilization in all related sectors.
- TTGV acted as a financial intermediary and a coordinator for the project in technical and financial aspects.



Environmental Projects Phaseout of Ozone Depleting Substances

- With totally 26 million USD (grant), 171 projects have been realized.
- A revolving fund has been created for further environmental supports.
- Technology and equipment conversion in industry, agriculture and service sectors have been achieved. (*Example of technology transfer*)



Environmental Supports

- In 2006, new environmental supports has been started:
 - Environmental Technologies (Cleaner Production, Eco-efficiency)
 - Energy Efficiency
 - Renewable Energy
- Main idea: Environment – Competitiveness relationship
- TTGV's own resources are used for this program.
- “Investment” projects of private sectors are supported under this program.



Environmental Supports

- Support conditions:
 - Support : Max **1 M USD** (Upto 50% of the project budget)
 - Project Duration : Max 1.5 years
 - Repayment : 1 year grace period / 4 year–no interest
- National and international cooperations are sought for the improvement of the programs.
 - Energy Efficiency in Industry Project: Government-UN Agencies (GEF Project)



Other Environmental Activities

- The United Nations (UN) Joint Programme, “MDG-F – 1680: Enhancing the Capacity of Turkey to Adapt to Climate Change”, was initiated in June 2008. The industry component of the project, namely “UNIDO Eco-efficiency (Cleaner Production) Programme” is being executed jointly by UNIDO and TTGV. Project activities will continue until June 2011.
- TTGV is one of the executing partners of “Global Environment Facility (GEF) – National Industrial Energy Efficiency Project in Turkey”. Project will be implemented between 2010–2015.

Investments

	Share (%)
Novagenix İlaç Ar-Ge A.Ş. (Bio-equivalency)	35
Yüzey Teknolojileri San ve Tic A.Ş. (Surface technologies)	50
Esım Test Hizmetleri San ve Tic A.Ş. (Testing services)	39
Yazılım Destek Tic A.Ş. (Software)	20
Arı Teknokent Proje Geliştirme Planlama A.Ş. (Teknopark)	1
Marmara Teknokent A.Ş. (Teknopark)	1
İş Girişim Sermayesi Yatırım Ortaklığı A.Ş. (VC)	11,1
Turkish Private Equity Fund (VC)	10,65
Teknoloji Yatırım A.Ş. (Seed Fund)	100

Technology Awards

- Joint initiative of TTGV with Scientific and Technological Research Council of Turkey and Turkish Industrialists and Businessmen Association since 1997





Dr. Akın Çakmakcı
University-Industry Collaboration Awards

- Bi-annual awards to encourage university-industry collaboration
- Academic theses implemented at the industry



Business Plan Competitions

- Supporting business plan competitions to encourage entrepreneurship
- Technoparks
- Universities
- Financial contribution
- Jury duties



Regional initiatives

- Regional innovation systems
- Pilot study for Eskişehir
- To build the necessary infrastructure for a regional innovation system
- Cooperation with Chamber of Industry, universities, regional actors



Sectoral initiatives

- Clustering activities
 - Policy formation projects
 - Software sector in Ankara
 - Automotive sector in Bursa



Thank you for your attention

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