



Economic Policy Research Foundation of Turkey

Structural transformation in Turkey: With or without industrial policy?

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Three guiding questions

- Q1: Did “structural change” take place in Turkey? How?
- Q2: Did “structural change” deliver the desired results?
- Q3: What was the role of industrial policy? What should be its role for the future?

Framework

- What have we achieved in terms of structural transformation?
 - Full side of the glass
- What are the current challenges?
 - Empty side of the glass
 - What is it that industrial policy need to fix?
- What is the prevalent policy framework?
 - Can we call it industrial policy?
- How can we define a new role for IP?

Industrial policy (as we shall know it)

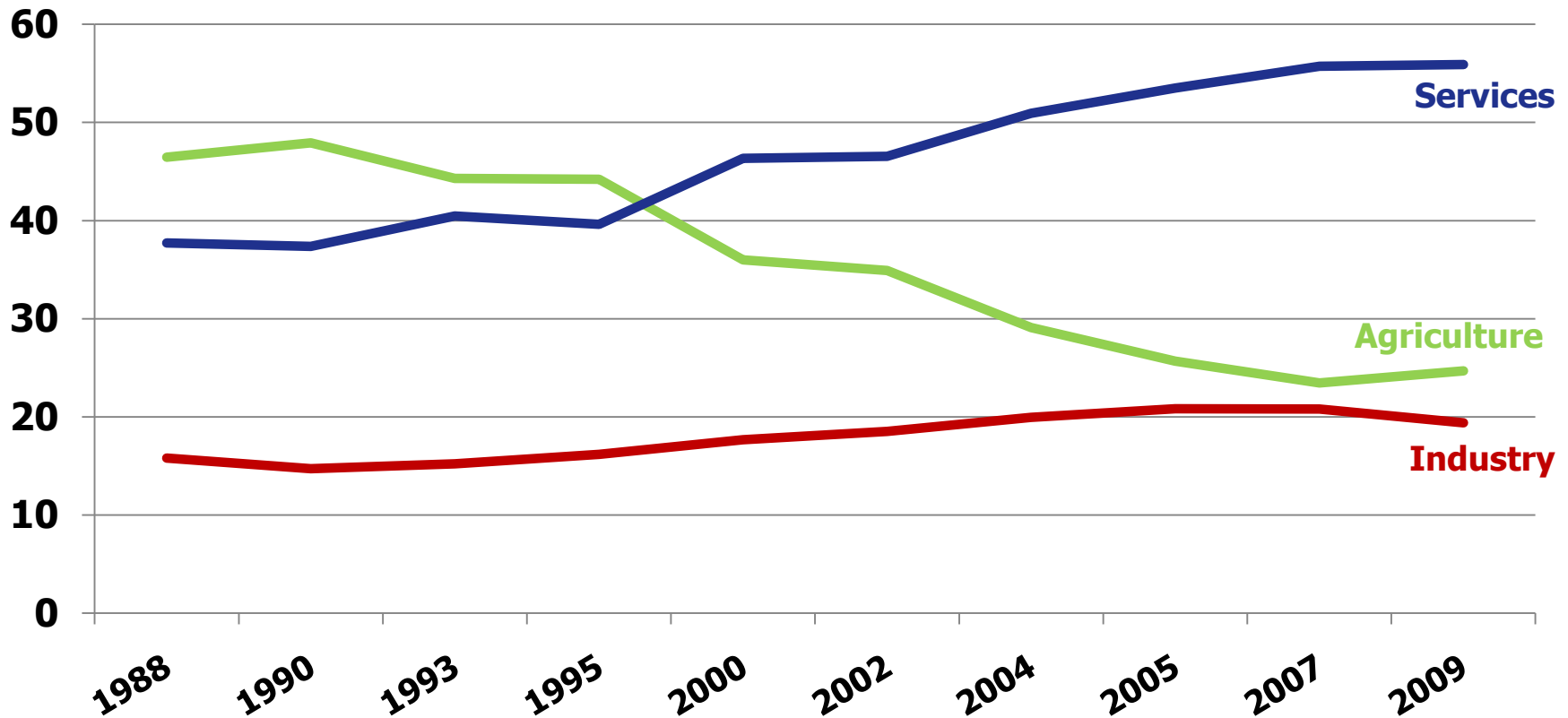
- Picking winners or fostering structural transformation?
 - Diversification/specialization
- Rationale
 - Self-discovery externalities
 - Coordination externalities
 - Missing public inputs
- “Industrial policy as a mindset”
 - Process more important than policy
 - Getting the institutions right

An overview of the recent progress of Turkish economy

	1980	2001	2008
GDP (billion \$)	70	509	700
Per capita GDP (USD)	1,500	2,906	9,000
Number of enterprises	90,000	723,503	1,170,248
Exports (USD billion)	3	31	132
Exports per worker (USD)	65	1,456	6,229
Industry share in exports	10%	92%	92%
Number of exporters	1,000	25,000	47,000
Tourism revenue (billion \$)	0,3	8	21
Ranking in the world (in terms of GDP)	25th	21st	17th

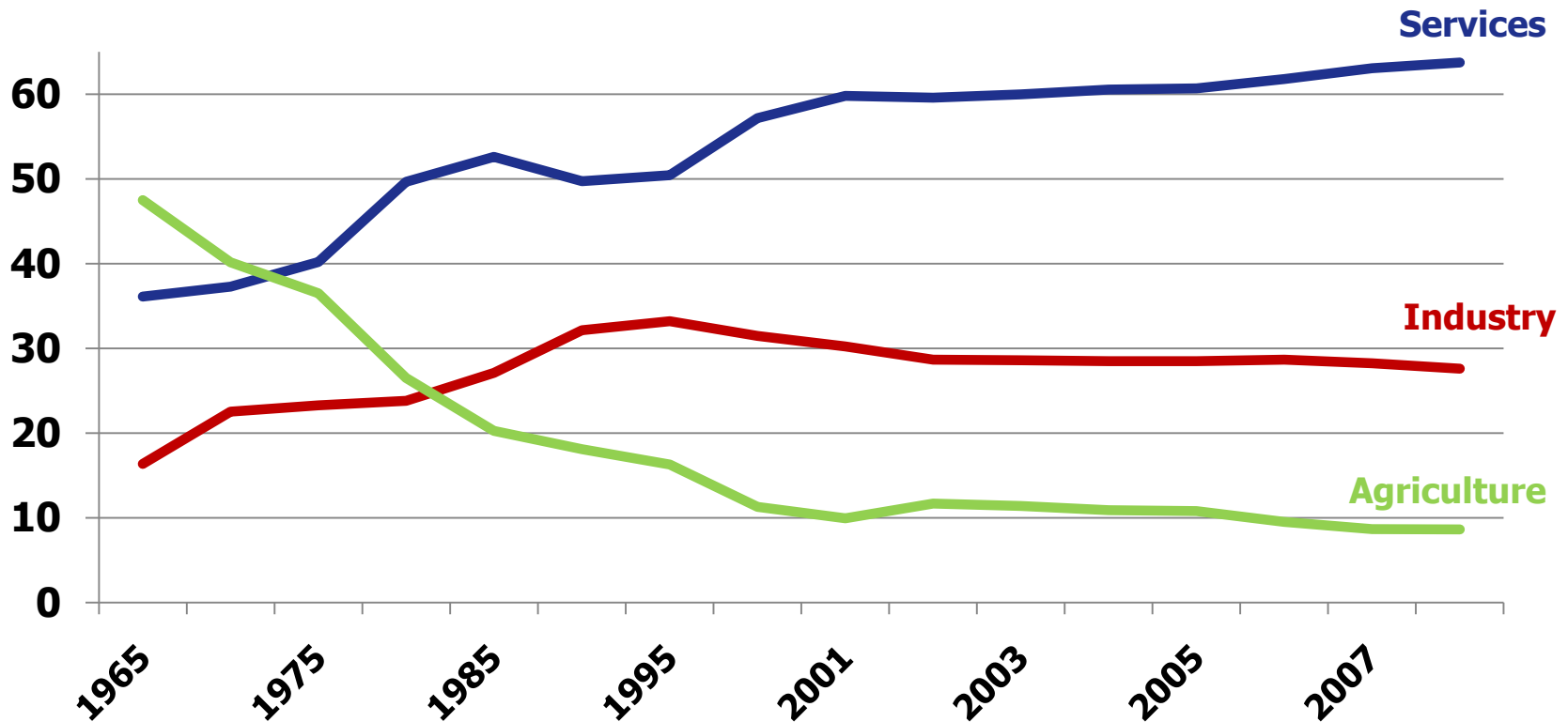
Transformation is still ongoing; along with rapid urbanization

Sectoral distribution of labor (%) 1988 - 2009



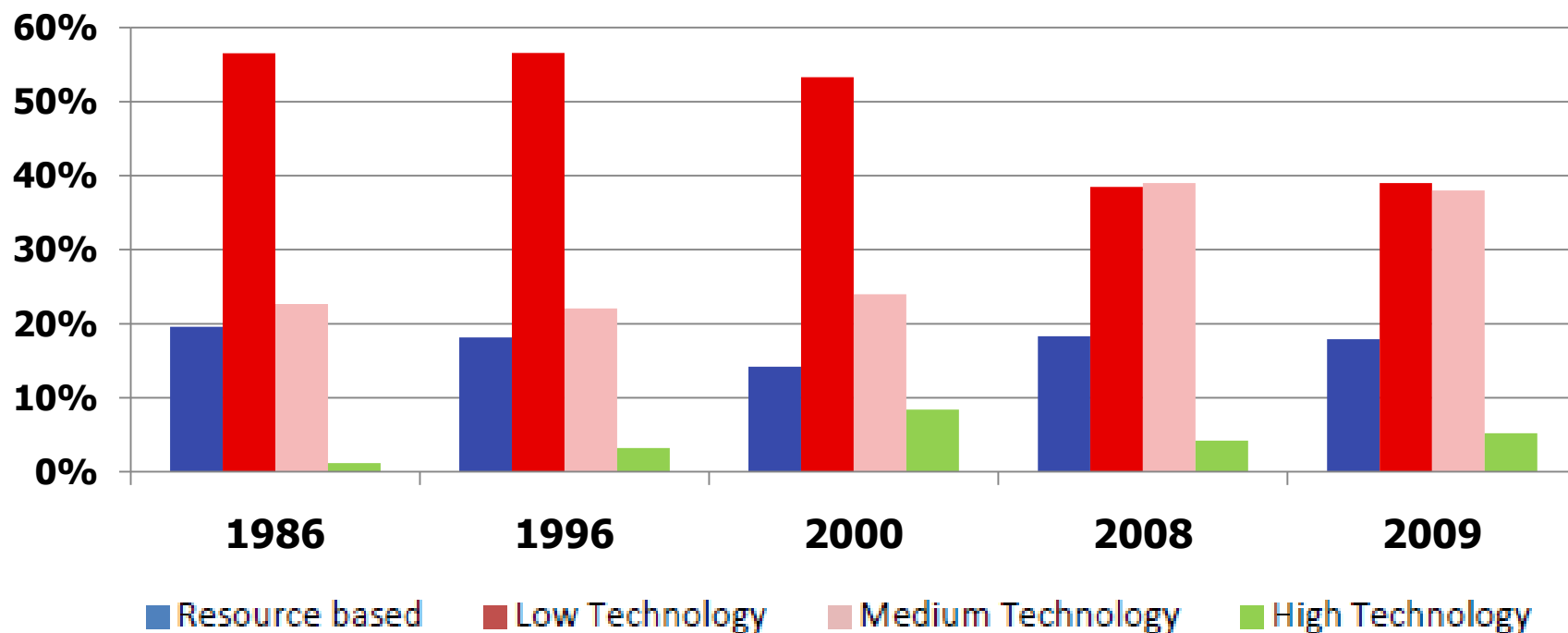
No structural change after 2001?

Sectoral composition of GDP (%) 1965 - 2009



Technological transformation: declining low-tech, rising mid-tech

Technological composition of Turkey's exports 1990-2009



Source: UN COMTRADE database, TEPAV calculations
(Based on UNIDO classification of products by level of technology)

What does Turkey produce now?

■ Emerging sectors:

- White goods
- Automobile and parts
- Consumer electronics
- Ships
- Machinery and equipment

■ Traditional sectors:

- Textile, apparels, leather
- Food and agro-industry
- Construction materials
- Furniture

Widening gap has implications...

■ Emerging sectors:

- White goods
- Automobile and parts
- Consumer electronics
- Ships
- Machinery and equipment

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- Capital intensive
 - High level of import dependency

■ Traditional sectors:

- Textile, apparels, leather
- Food and agro-industry
- Construction materials
- Furniture

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- Labor intensive
 - Low level of import dependency

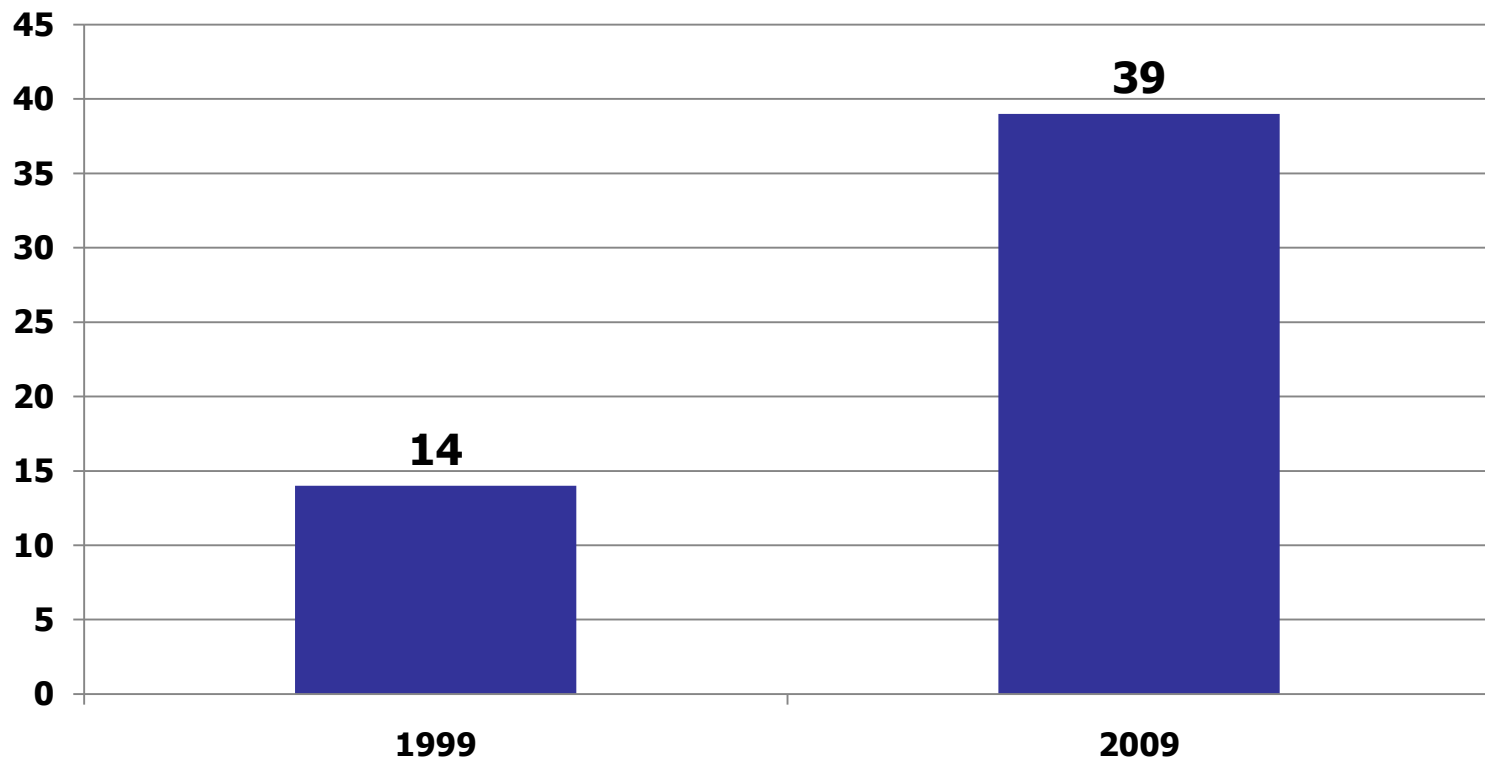
Decisions of foreign companies shaping Turkey's transformation

Inward FDI by sectors (Million \$ and % share)

	2002		2009	
	Million \$	share	Million \$	share
Manufacturing	95	17 %	1.713	29 %
Electricity, gas, water supply	68	12 %	1.648	28 %
Real estate, business activities	0	0 %	561	9 %
Financial intermediation	246	43 %	497	8 %
Wholesale and retail trade	75	13 %	403	7 %
Transport, storage	1	0 %	382	6 %
Construction	0	0 %	343	6 %
Health and social work	4	1 %	101	2 %
Other community, social and personal service activities	80	14 %	49	1 %

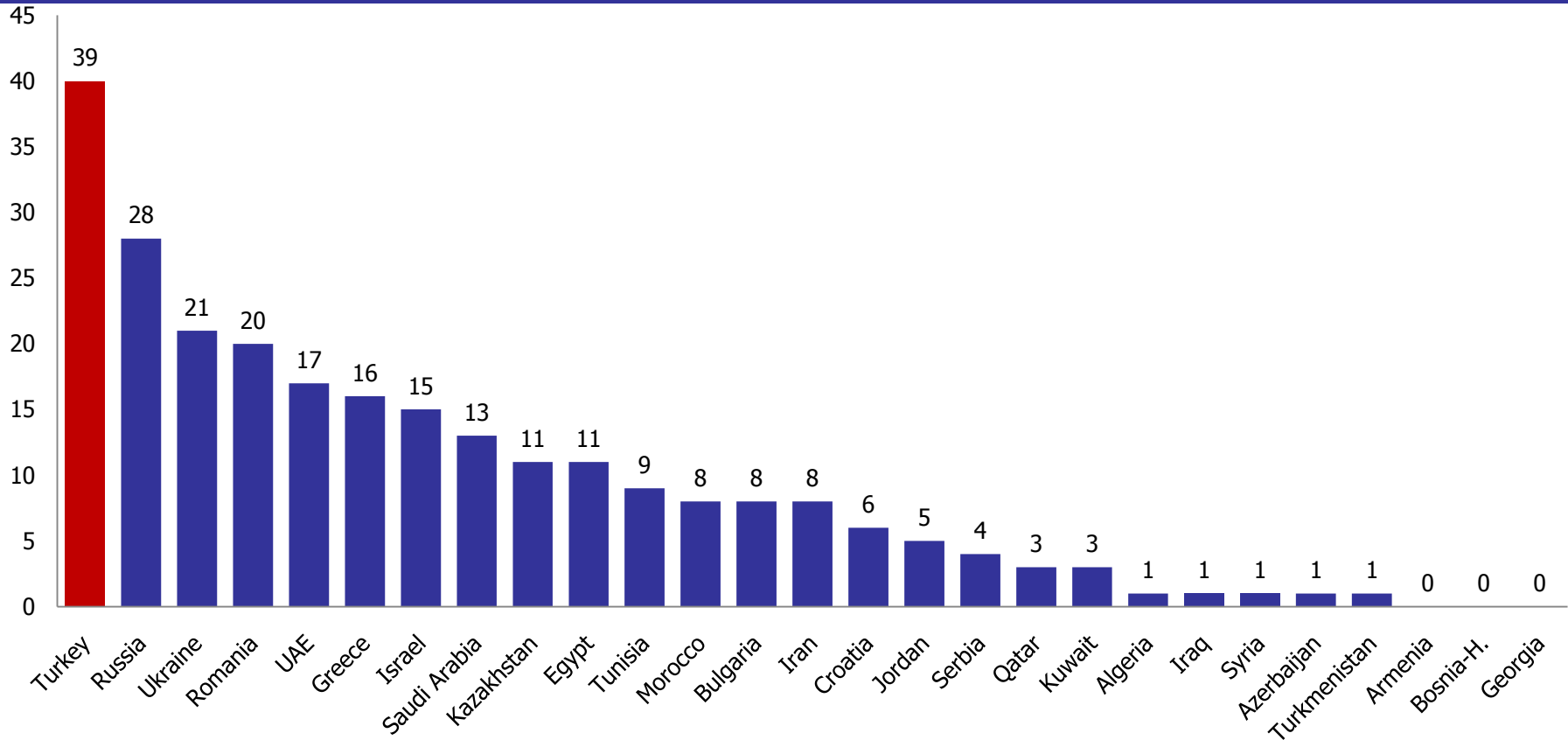
Sectoral diversification: a highly visible trend

Number of product groups with above \$ 500 million exports
HS4 classification, 2 digit, 1999-2009



Turkey appears to be the most diversified economy in her region

Number of product groups with above \$ 500 million exports
(HS4 classification, 2 digit, 2008)



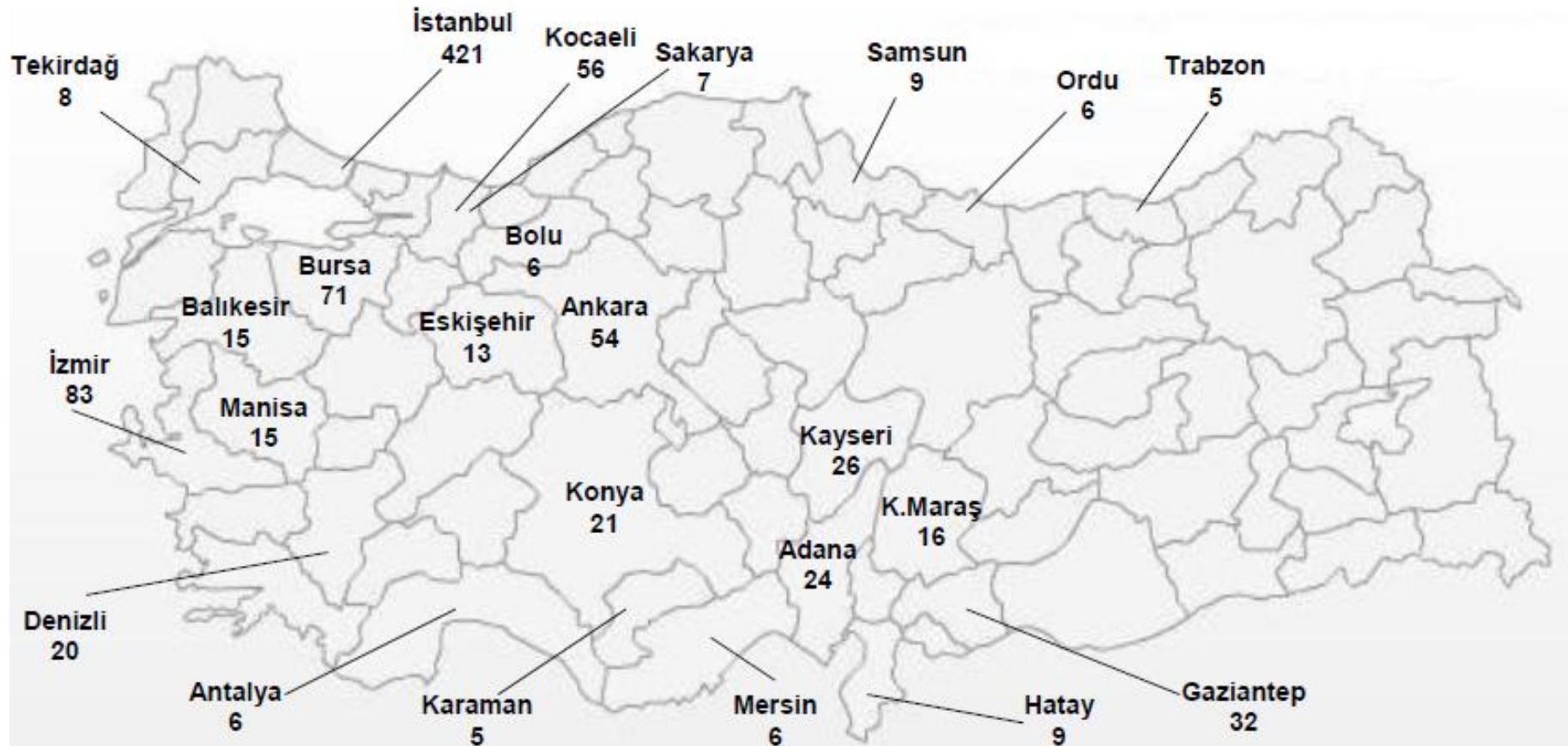
Industrial activity has spread throughout the country

Geographical distribution of the largest 1000 industrial firms in Turkey, 1999 and 2009

	1999	2009
İstanbul	508	421
İzmir	122	83
Adana	20	24
Bursa	41	71
Rest of Turkey	249	382

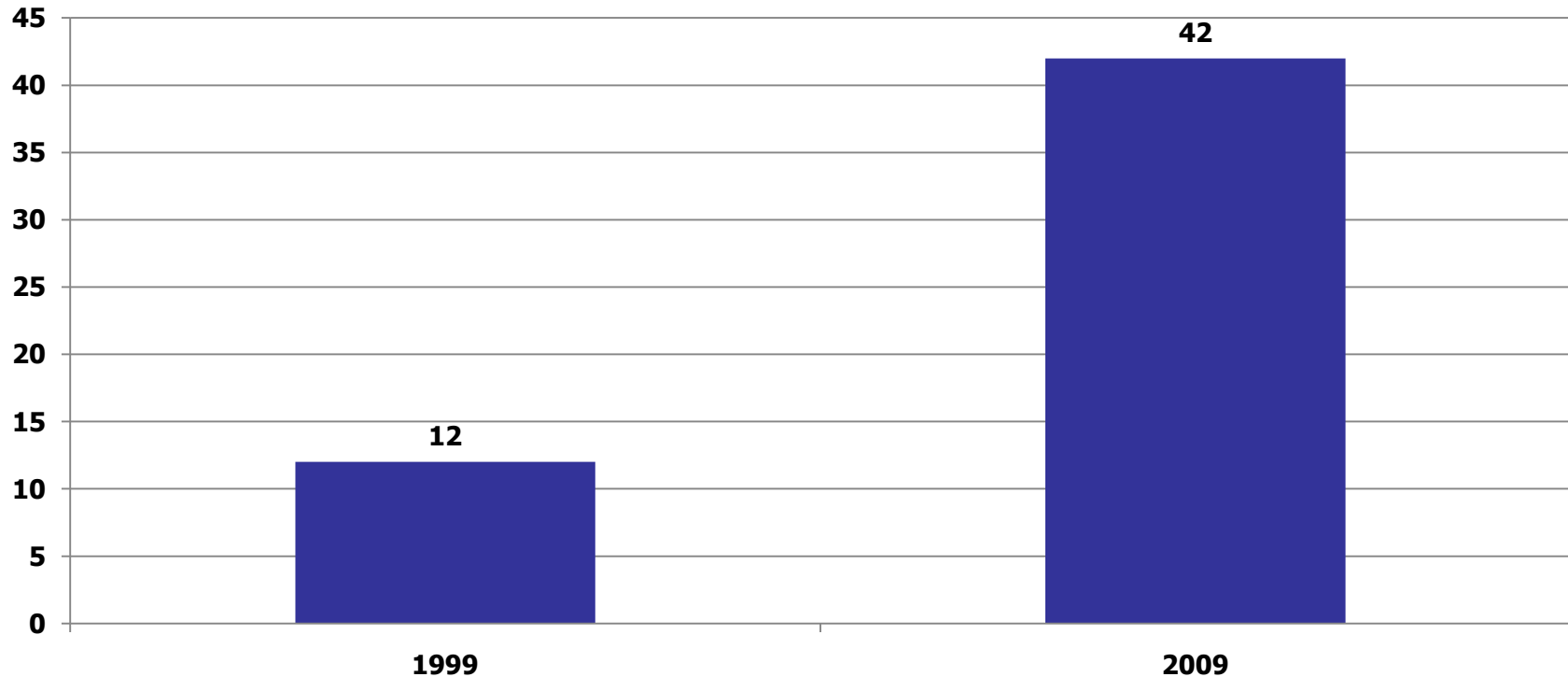
“the emerging Anatolian tigers”

Cities with 5 or more firms among the largest 1000 industrial firms in Turkey, 2009



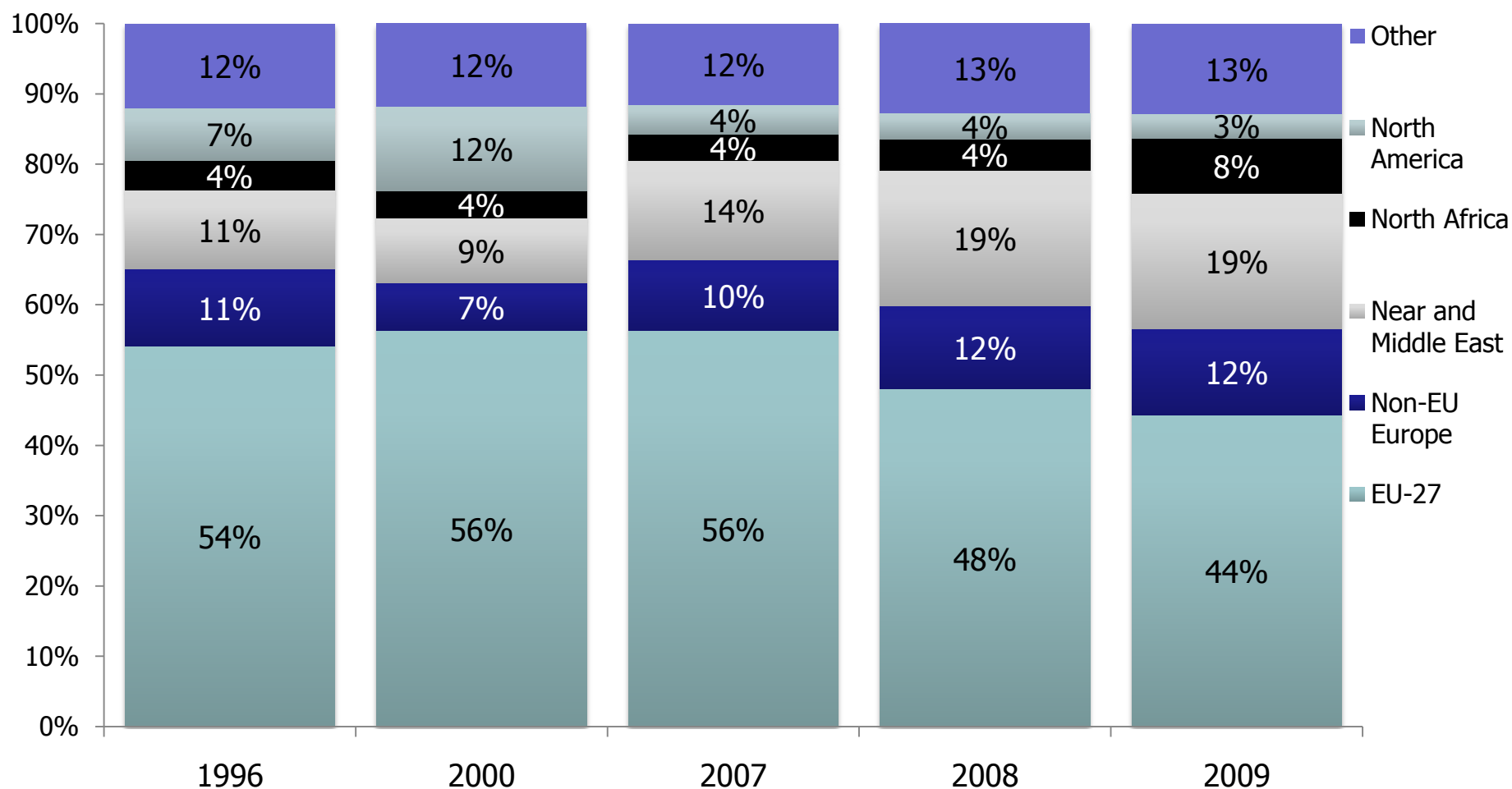
Market diversification is also striking...

Number of export destinations (non-energy) over \$ 500 million volume, 2007-2008



Geographic composition of Turkey's exports: EU-Turkey Customs Union brings Turkey closer to her region

Geographical composition of Turkey's exports (1996-2009)

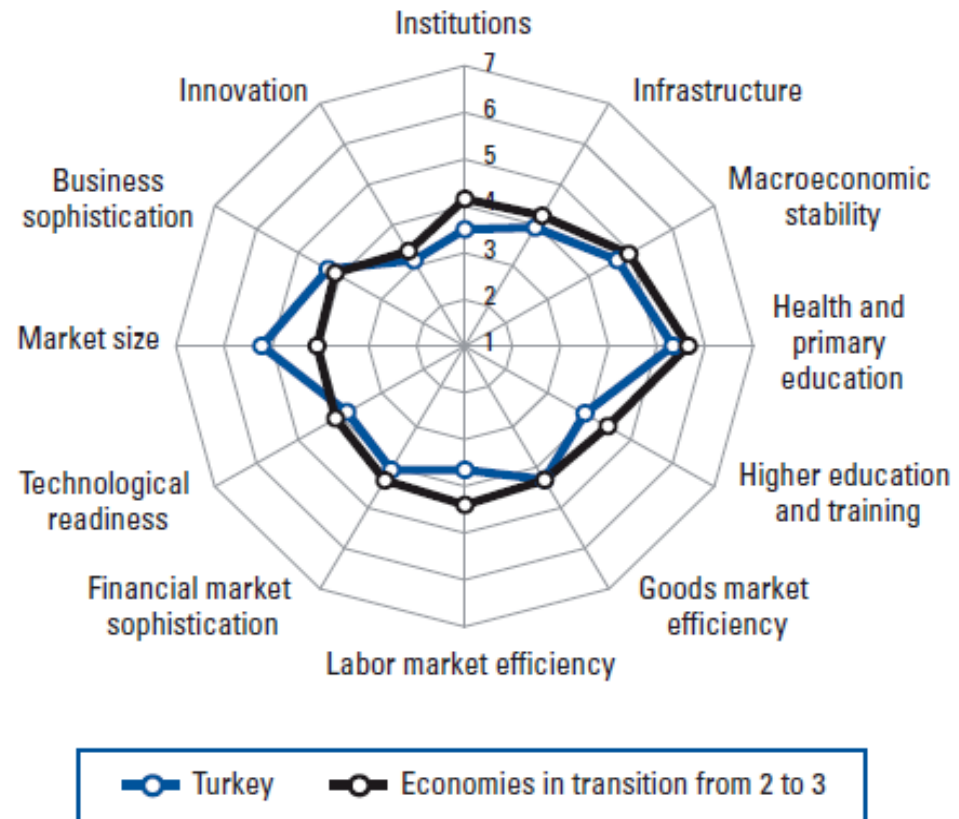


Overall competitiveness in Turkey

- According to World Economic Forum's Global Competitiveness report Turkey ranks

→ 2001: 54th out of 75 countries

→ 2010: 61st out of 133 countries



Stage of development



To sum up the transformation story

- Transformation is happening and changing the Turkish society more than ever before
- Not a coherent industrial policy but rather the outcome of the interplay of several factors
 - ➔ Internal structural factors:
 - Geographical location
 - EU Customs Union and accession process
 - Demographic structure / entrepreneurship potential
 - ➔ External factors:
 - Global economic and technological trends
 - Vertical specialization strategies of MNCs
 - Rising foreign direct investment flows

Empty side of the glass? Major policy challenges waiting to be tackled...

■ Achieving convergence

- Increasing the economic growth capacity from 4 to 7 percent
- *A coherent growth story?*

■ Tackling SME growth problem

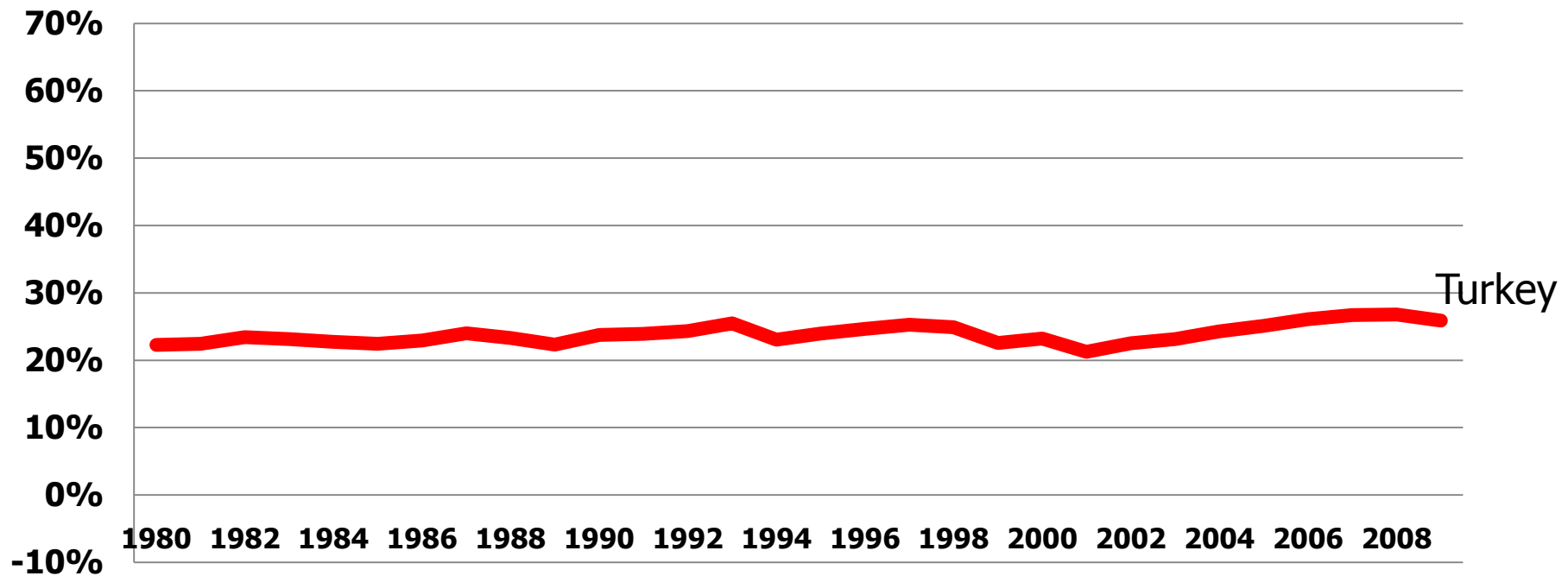
- Productivity and innovation issues
- *An ambitious eco-system renovation strategy?*

■ Fighting skills mismatch and unemployment

- Urban-rural transformation
- *An education reform strategy in line with growth and competitiveness strategy?*

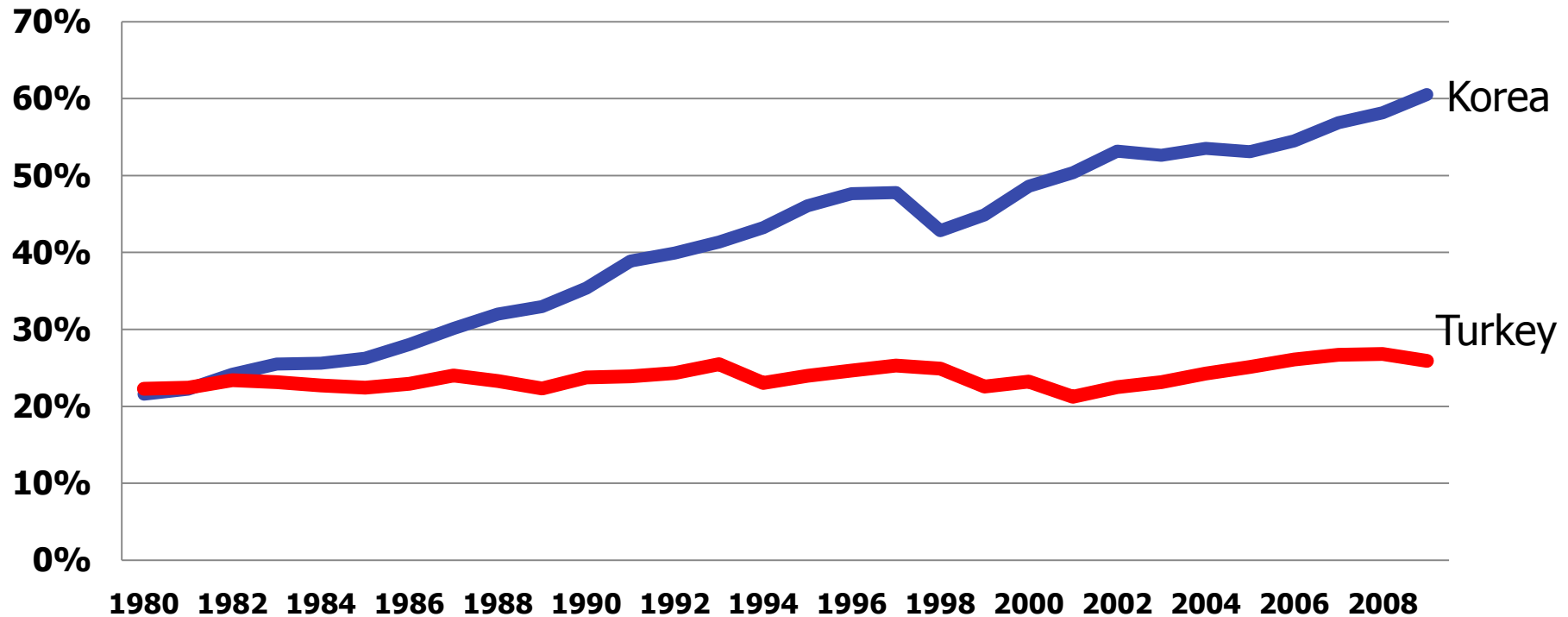
A very stable convergence performance! Structural change with no (relative) results?

GDP per capita in Turkey as percentage of GDP per capita in U.S., (PPP, 1975-2008)



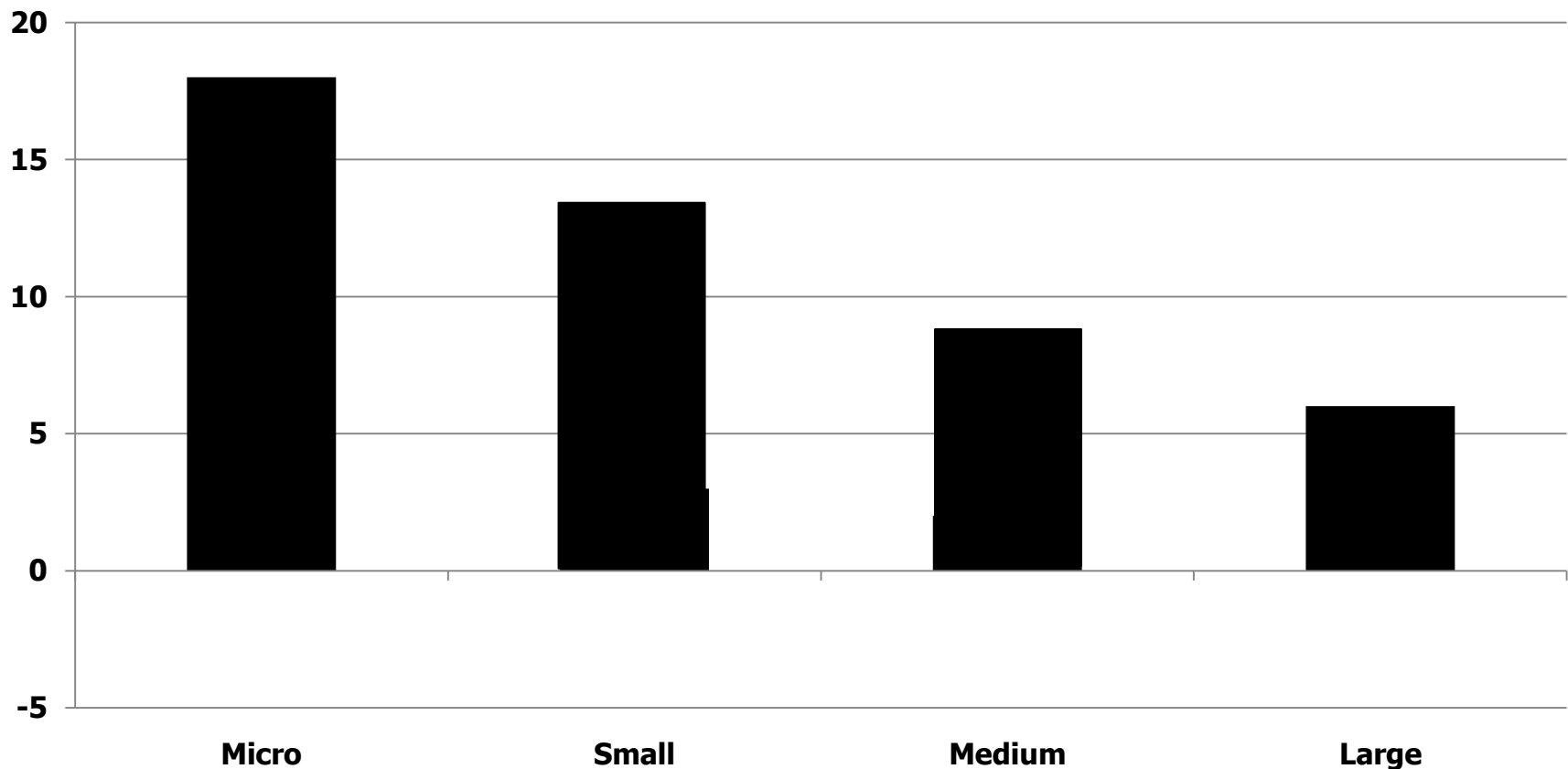
Though non-convergence is not destiny. A coherent growth story is what Turkey needs...

GDP per capita in S.Korea and Turkey as a percentage of GDP per capita in U.S., (SAGP, 1975-2008)



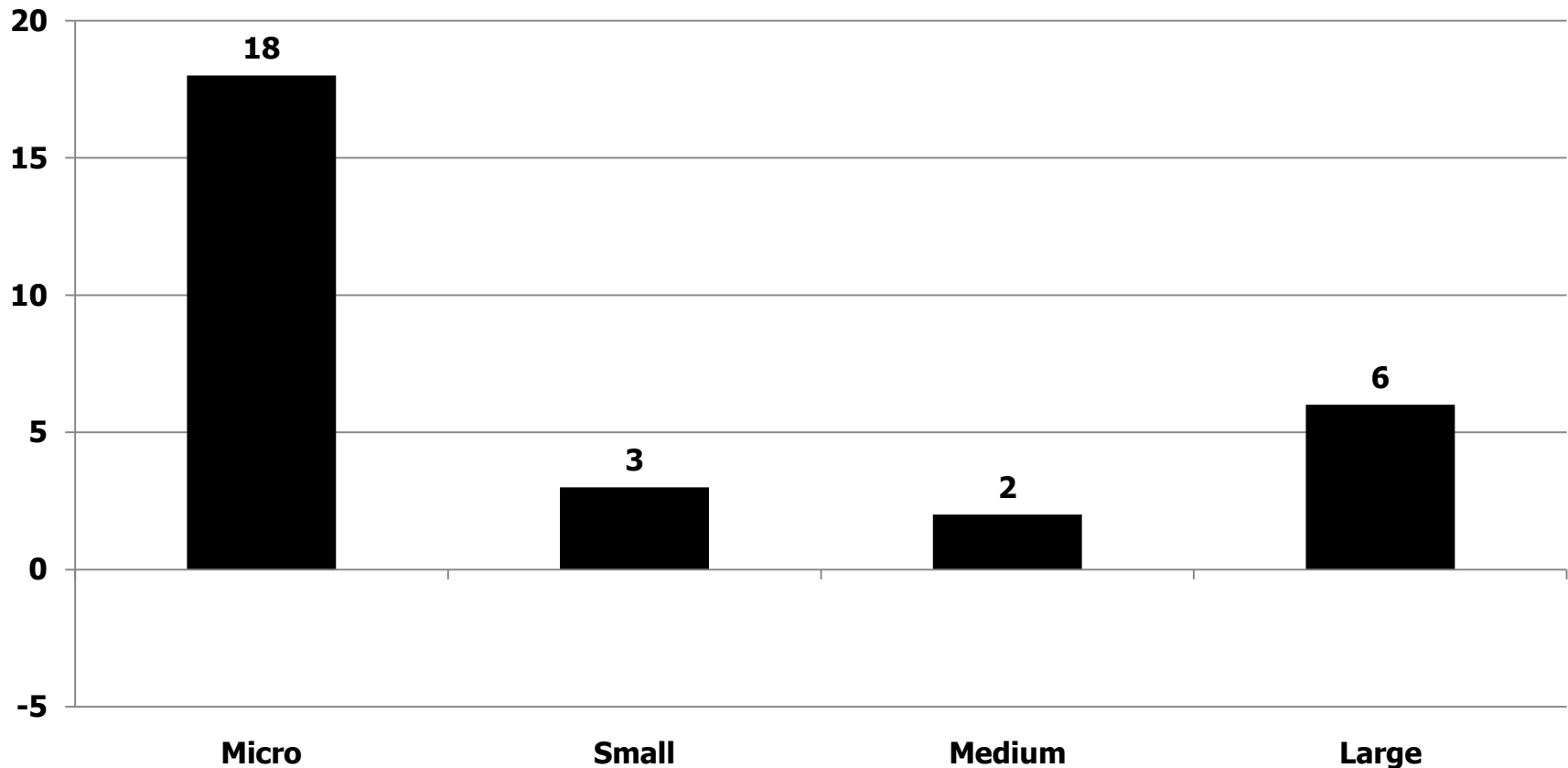
Growth of firms in a healthy, private sector driven economy...

Employment Growth across firm size



Growth problem in Turkish SMEs

Firm-level employment growth across different sizes, percentage increase (2004-2007)



Dual structure of the economy is a big problem

■ Registered (modern) firms

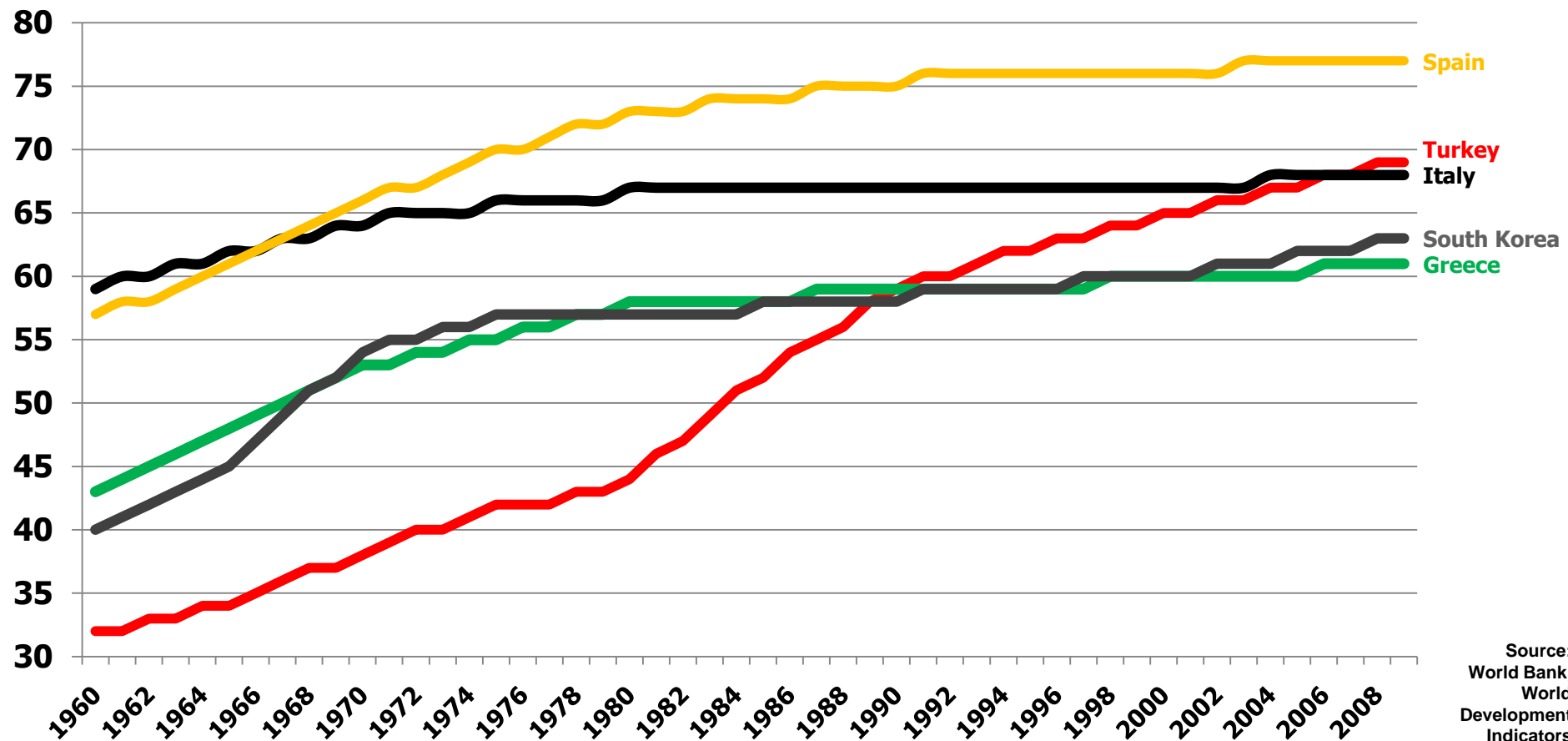
- Productivity levels: 62% of firms in USA
- Economies of scale; new technologies, quality products
- Spread over Anatolia; export oriented

■ Unregistered (traditional) firms

- Productivity levels: 25% of firms in USA
- Old technologies, low quality; domestic oriented
- Being unregistered provides a cost advantage of around 20%

Rapid urbanization puts pressure on labor market and skill needs

Urban population as a percentage of the total population in Turkey, Spain, Italy, Greece and South Korea, (%), 1960-2009



What is the existing policy framework?

- Incentive framework in line with EU
 - Regional development focus
 - Incentive or compensation?
- Science and technology policy
 - Scientific Research Council's expansionary budget as the main instrument
 - Focus and prioritization problems...
- Investment climate reform
 - Role of organized industrial zones as one stop shops
- Foreign economic relations strategy
 - Regional economic integration focus
 - Capacity problems...

Can we call these a coherent industrial policy framework?

What sort of industrial policy?

- Larger context: A coherent growth story that would tackle the binding constraints with ambitious reforms (eco-system renovation for innovation)
 - ➔ Access to finance (PE and VC focus)
 - ➔ Education
 - ➔ ... (second generation reforms to upgrade institutions)
- A supporting industrial policy framework as part of the overall growth strategy
- Process more important than policy: focus on governance of industrial policy

INDUSTRIAL POLICY VISION
**Becoming a production and services hub for
medium and high tech industries**

Strategic Targets

**Creating strong
and innovative
firms**

**Raising the share of
medium and high
tech industries**

**Transforming the
traditional industries
towards a higher
value added
structure**

Horizontal Industrial Policy Areas

Business environment

Technology and R&D

Foreign economic relations

Physical infrastructure

Human capital and skills

Environment

Access to finance

Regional development

**Sector-specific industrial
policy areas**

**Initiatives to address the binding
constraints in every sector and
region**

Strategies to strengthen clusters

Implementation, Monitoring, Evaluation and Coordination Mechanism

Conclusions and takeaways...

- We are yet to see the adoption of the new industrial policy “mindset”
- Risk is obvious: middle income trap. Stuck in between two worlds...
 - ➔ Hard time converging to US and EU income levels
 - ➔ Hard time competing with low-cost East Asian producers
- A jump is needed, and industrial policy is the answer