



**Business Forum Italy-Turkey 2014** 

## Innovation Driven Growth in Turkey

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DRAFT



Five major business drivers are expected to shape the world in the upcoming years

#### Macro drivers and sub-drivers shaping the future

Globalization	Natural resources	Technology	Demographics	Consumer behavior
Moderate and uneven global economic progression	Increasing environmental issues and concerns	New paradigms in product design manufacturing	Rise in global population	Increasing consumer diversity
Reorganization of the supply chain	Volatile commodity markets	Path towards higher production flexibility	Aging population in developed countries	New models for consumer engagement
Easy access to information/knowledge	Increase in raw materials prices	Continuous research for new technologies	Global urbanization trend	New consumer segments
More inclusive globalization	Decrease in energy intensity across countries	Increasing importance of Big Data and Cyber Security	Changes in workforce structure	New era of squeezed profitability

### How to drive innovation within this macro-trends best ?



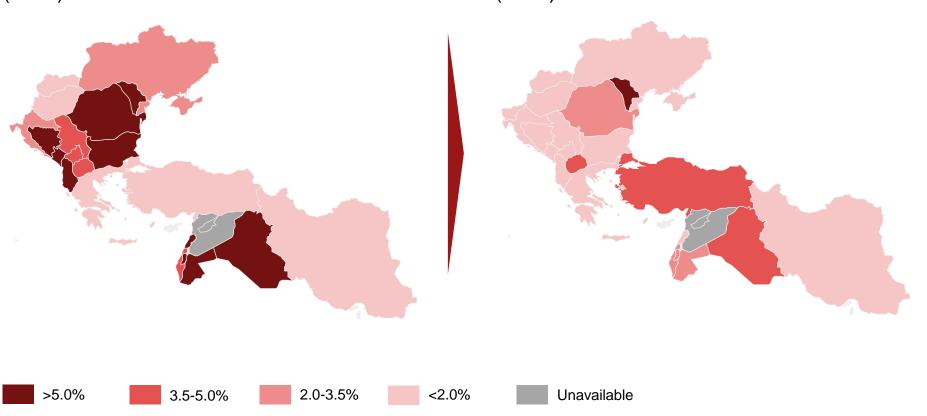
Turkey has set the 2023 vision to establish its economy in the global premier league – challenged by flat neighboring markets

Real GDP growth rate

(2013)

GDP growth rates breakdown by country

Real GDP growth rate (2008)





## These targets are challenged along three inter-related key pillars

### **Challenges towards 2023 targets**

Export ambition drive the need resources, raw materials and energy		<ul> <li>Limited product variety offered by domestic industry</li> <li>Imports rising faster than exports, triggering a trade deficit</li> </ul>		Consequently, export volume increases cannot always be translated to	
	Limited access to these resources drive import of intermediate goods	capa dom	rent manufactu abilities limit bo nestic product v ' value add in e.	ring oth variety	
Insecure access to resources, raw materials and energy	<ul> <li>High import dependency on scrap (~70%) and lack of influence on prices</li> <li>Dependence on four countries for energy supply: Russia, Iran, Algeria and Azerbaijan</li> </ul>		Limited capability along selective	<ul> <li>Limited technology, know-how and infrastructure (labor competency, quality standards, education, research faculties, innovation,) availability</li> <li>Limited modularity, missing value chain elements and lack of inter- industry integration</li> </ul>	

inputs, also challenging

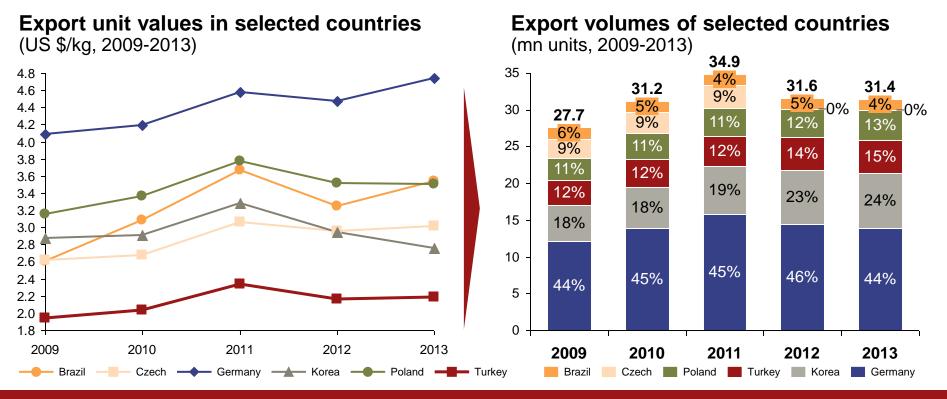
net exports



# Turkey's growth ambition requires a significant uplift in value per unit exported

Export unit value and volume comparison

Metals industry - Example



## TIM has started to launch several initiatives to improve innovation driven exports



# Further R&D investment and efficient innovation management are key

### Innovation metrics analysis by country

Metrics	R&D expenditure	# of researchers	Global Innovation Index score
Countries	(% of GDP)	(per ths.)	
C Turkey	0,9	1,0	38,2
US	2,8	4,0	60,1
Singapore	2,1	6,4	59,2
Germany	2,9	4,1	56,0
South Korea	4,0	5,9	55,3
👤 Japan	3,4	5,2	52,4
Spain	1,3	2,7	49,3
Khina China	2,0	1,0	46,6
Salaysia Malaysia	1,1	1,6	45,6
Hungary	1,3	2,4	44,6
Poland	0,9	1,8	40,6
📀 Brazil	1,2	0,7	36,3
Mexico	0,4	0,4	36,0
📥 India	0,8	-0,2	33,7
	-0,1	-0,1	31,8

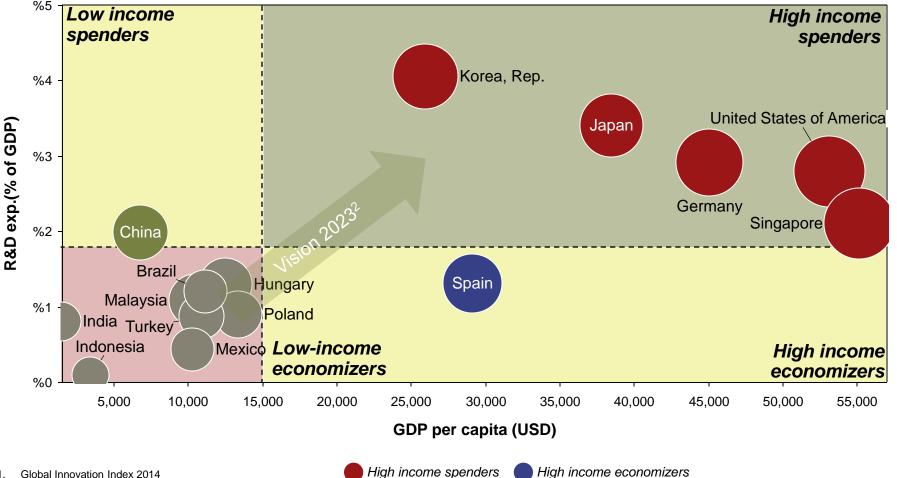
Low income economizers A.T. Kearney X/000000/uMYc55Qkllz7IQQQ1I



With translation of increased R&D expenditure on innovation, Turkey can ensure achieving 2023 vision targets in GDP

**R&D** spending and GDP per capita map

Bubble size represents GII<sup>1</sup> (2014)



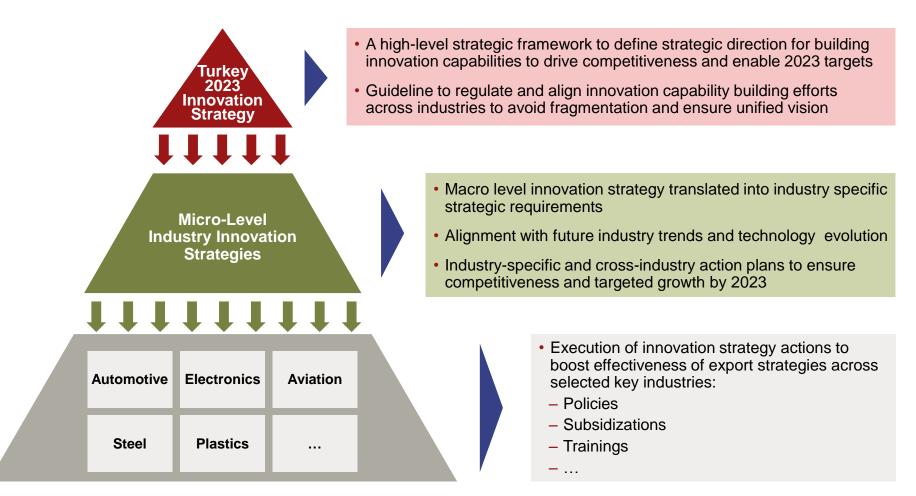
Low income spenders

 Clobal Infovation index 2014
 R&D expenditure is aimed to be increased to 3% by2023 Source: World Bank, A.T. Kearney



Translation of this increased expenditure to value can be achieved by a solid innovation strategy, covering macro and micro elements

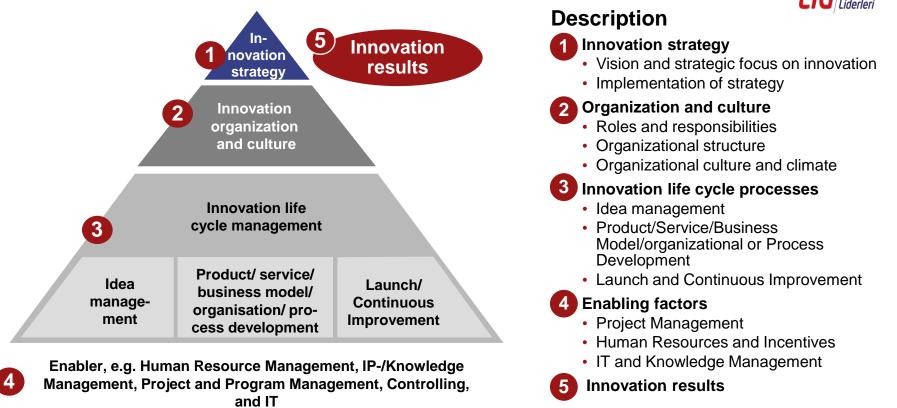
Multi-level strategy building for implementation



At the same time "InovaLIG" has been launched to strengthen the innovation management competence in Turkey

Assessment dimensions in İnovaLİG project

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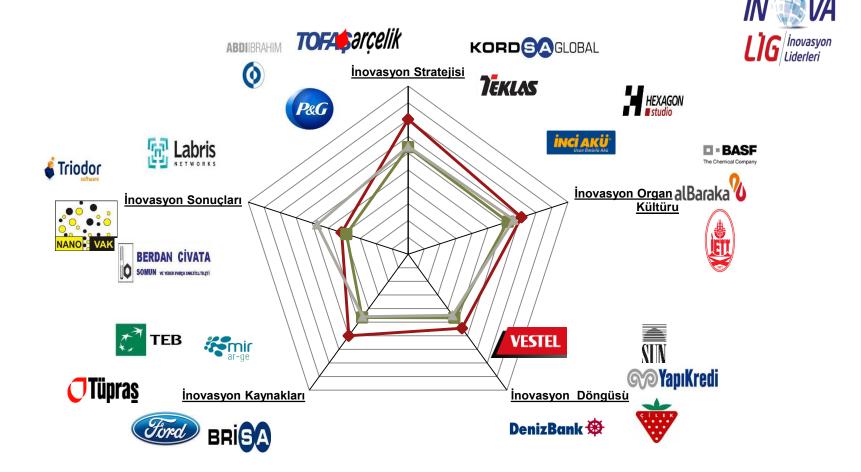


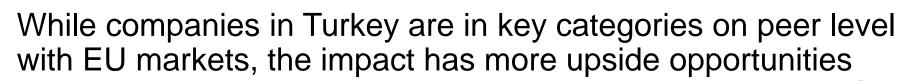
~460 companies participated to the debut year of the competition, and have been competing across 5 dimensions of innovation management

AT**Kearney** 



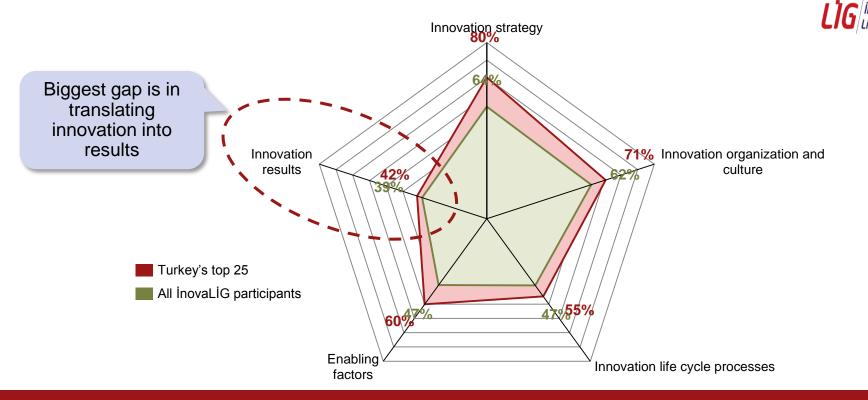
İnovaLİG - İnovasyon Liderleri Ödül Töreni – 6 Aralık 2014





Comparison of top 25 companies and average

AT**Kearney** 



## International Innovation partnerships could offer attractive opportunities to leverage joint opportunities in Turkey



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