## Boosting Bilateral Trade Between Turkey & US

Final Report



**AUGUST 2019** 

### Executive summary (I/III)



The bilateral trade in goods between Turkey and the US have significantly grown and reached \$23 billion in 2018. However, existing state of the global trade and Turkey-US bilateral relations indicate a need for multi-front effort to reach target levels



Detailed analyses and expert interviews identify multiple opportunities for Turkey within the current global trade context, especially from the developments in US-China trade relations



As observed in other success stories, Turkey needs to focus on key sectors where it has comparative advantage and transversal levers to facilitate trade and investment



### Executive summary (II/III)

We have reviewed all sectors and selected 8 key sectors with the highest upside impact:



Potential in auto parts (esp. aftermarket), and partial potential in buses & coaches, and LCV<sup>1</sup> segments.
The real opportunity in automotive likely to come with the developments in US-China trade relations



• Knitted and non-knitted apparel, home textile and non-woven segments promise significant opportunity for Turkey

• Turkey cannot compete solely based on costs. Turkey should invest in design, brand imaging, marketing of social resp.



Civil aerospace

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White goods

- Turkey has significant competitive advantage in gold jewelry
- Better marketing via using digital channels, and providing more transparency required (e.g. ethical sourcing)
- Turkey's capability is largely limited to parts and components, and not at the level of systems and complete aircrafts
- Besides attracting FDI & JVs, long-term strategy in R&D, in education & skilled labor, and in Industry 4.0 required
- Significant opportunity to capture Chinese market share in refrigerators and air conditioners
- Product matching to meet technical standards and US consumer demands should be supported via targeted incentives



- Potential in cement will be driven by predicted infrastructure boom in the US
- Opportunity in ceramic tiles by capturing Chinese share of wallet, and from Europeans via better design and branding





Travel & tourism

- Opportunity to capture Chinese share of wallet, needs to be complemented with better design and branding
- The sector within service group with significant potential upside
- Upside impact is largely dependent on multi-front effort in country PR

TAIK

1. Light commercial vehicle

### Executive summary (III/III)

We have identified the top transversal levers with highest impact:





- Extending trade centers geographically and functionally, enhancing commercial service representation, and encouraging Eximbanks of both countries for further collaboration
- Establishing a task force to improve business facilitation services is essential for quick wins
- Improving the image of their respective nations and national brands through strategically designed country PR campaigns will be vital (esp. for Turkey)
- Initiating contacts and improving Turkey's image in safety & security in the US
- Launching a targeted campaign utilizing digital channels and brand advocates to improve country image

#### Country PR



- Further collaboration is needed to attract foreign direct investment (FDI) and facilitate the formation of joint ventures (JVs) between American and Turkish companies
- Addressing questions and concerns of existing and potential American investors in Turkey will be key
- Encouraging the Turkish business community to invest more in the US should be part of the strategy
- Setting an action group to prepare a holistic FDI & JV strategy and to promote Turkey as a hub for production and R&D investment center in key sectors

We have identified immediate actions for the high priority areas The details of the action plan can be found in the document



### Agenda





Findings of deep-dives for selected sectors and levers for Turkey

Turkey-US trade and other countries'



See details



Findings of deep-dives for selected sectors and levers for the US



Implementation plan

success stories



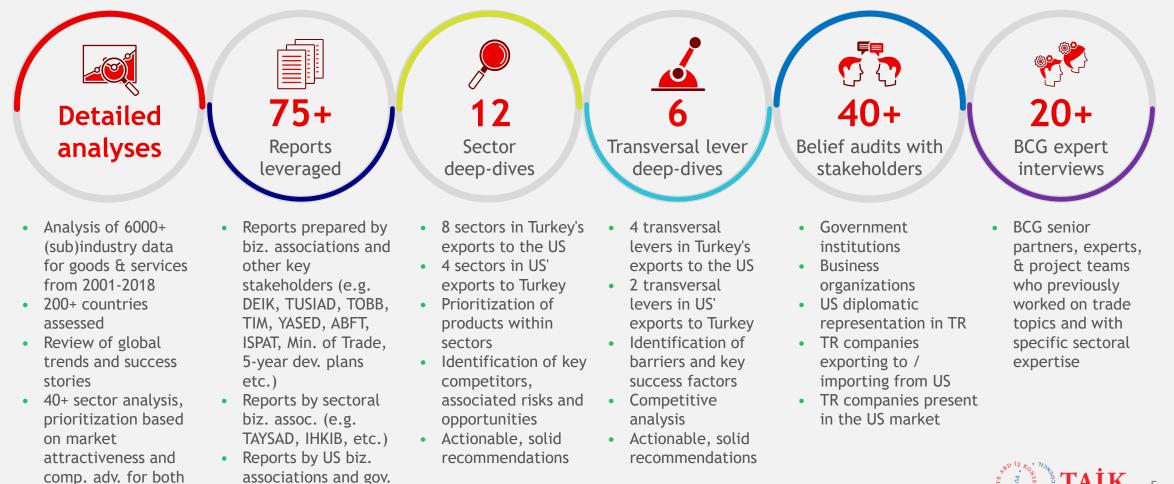
See details



## Project results are built on several resources and detailed analyses

Turkey and US

agencies



## We have leveraged 75+ reports with significant support from key stakeholders and business associations

Not comprehensive









Reports on TR-US bilateral trade

## Sectoral analysis reports

## Reports on transversal levers

**BCG** reports



#### We have carried out 40+ belief audits with companies, business associations and government agencies

#### Companies in deep-dived sectors Kale FORD OTOSAN mavi **TURKISH AIRLINES** AMERikan Hastanesi VitrA Dow COUNCLL 57 🖊 arçelik <mark>beko</mark> **TURKISH** AEROSPACE ALP **Kibar** С Ε A Ş Т HAVACILIK TOFAS **COMMERCIA**

#### Business associations and government agencies











AmCham **\***Turkey

American Business Forum In Turkey

















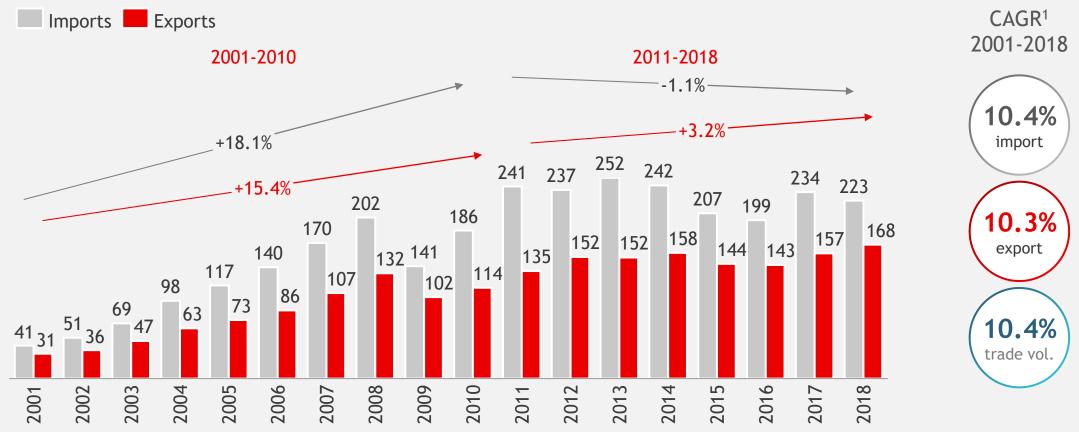
# Turkey-US trade and other countries' success stories



## Turkey managed to increase its trade volume significantly

Trade volume growth slowed down since 2011 but export growth exceeded imports





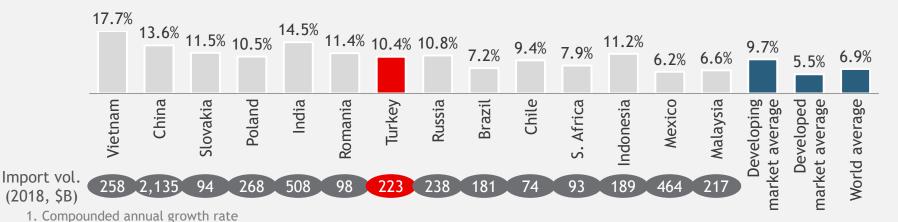


## Turkey outperformed many peer benchmark countries both in exports and imports

#### 2001-2018 CAGR<sup>1</sup> of export volumes (%) 19.0% 14.1% 12.6% 12.5% 12.5% 12.1% 10.3% 9.3% 8.7% 8.5% 7.9% 7.1% 6.3% 6.3% 9.6% 7.0% 5.4% Malaysia Vietnam China Slovakia Poland Turkey Russia Mexico India Brazil Chile Africa eveloping Developed Romania ndonesia narket average average market average World Export vol. 94 451 7494 80 449 240 75 94 180 262 373 168 290 (2018, \$B)

#### 2001-2018 CAGR<sup>1</sup> of import volumes (%)

Source: International Trade Centre; BCG analysis



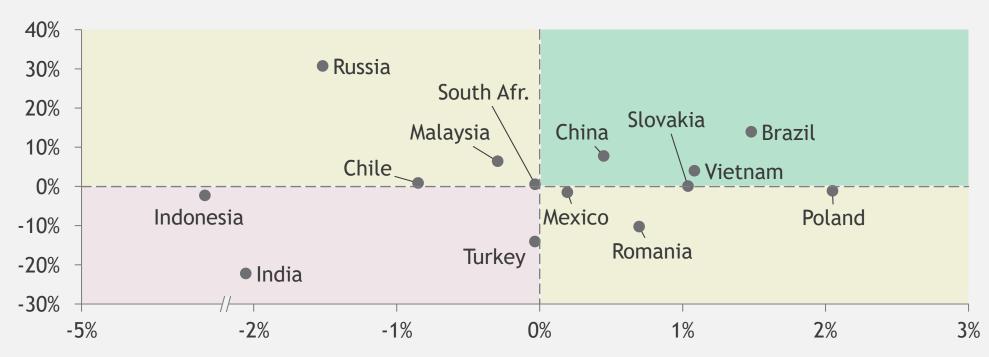
#### Key insights

- Liberalization of the Turkish market since 1980s led competitive industries to emerge
- Customs Union
   agreement in 1996
   boosted trade and
   market integration
- Turkey's domestic industries faced and responded competitive challenges, and became export-oriented



### However, Turkey's trade deficit persists

Countries' trade balances and evolution over time



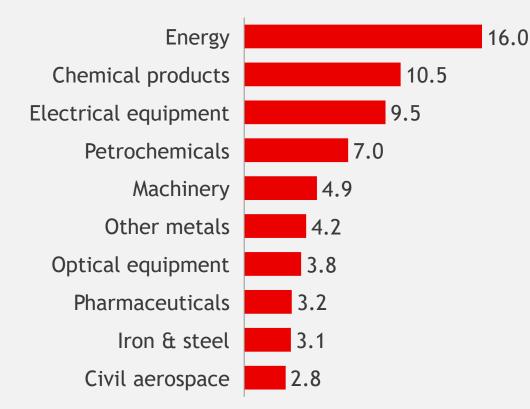
Trade balance as % of trade volume (2018)

Export CAGR<sup>1</sup> - Import CAGR<sup>1</sup> (2001-2018)

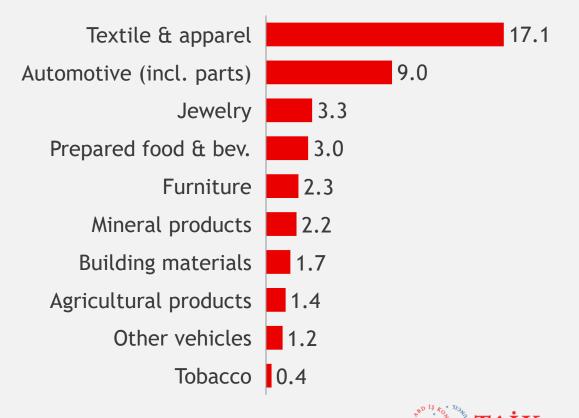
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### Turkey's competitive and less competitive industries reflect its fundamental economic strengths and weaknesses

Turkey's 2018 trade deficit by product category (\$B)

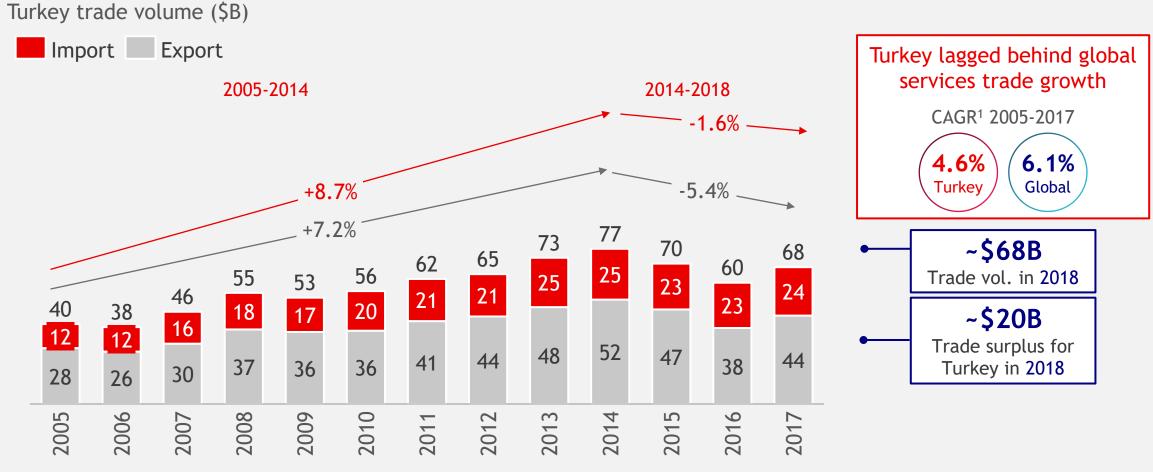


Turkey's 2018 trade surplus by product category (\$B)



Note: Category "Other" with ~\$30B deficit not shown in the graph Source: International Trade Centre; BCG analysis

## Turkey has a trade surplus in services, yet its service trade growth has been much slower than world average



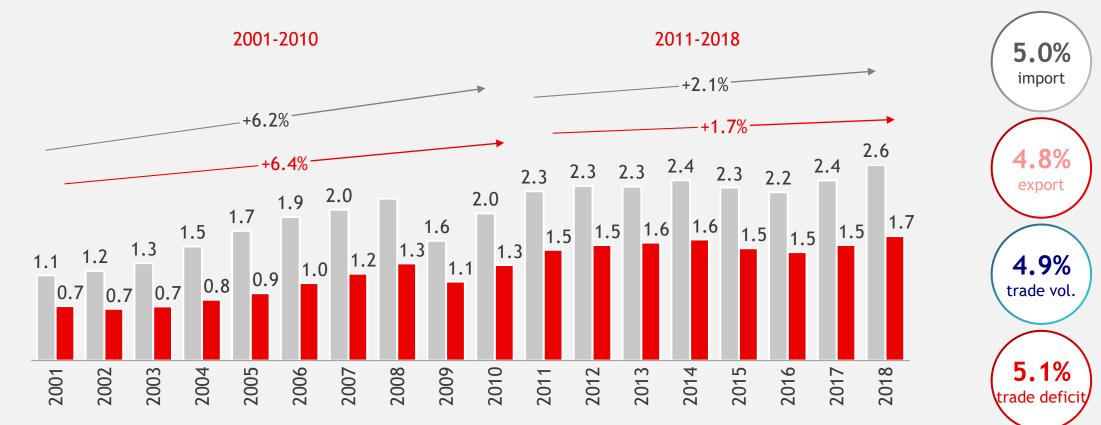


### US trade growth also has stagnated in recent years

US's foreign trade balance (\$T)

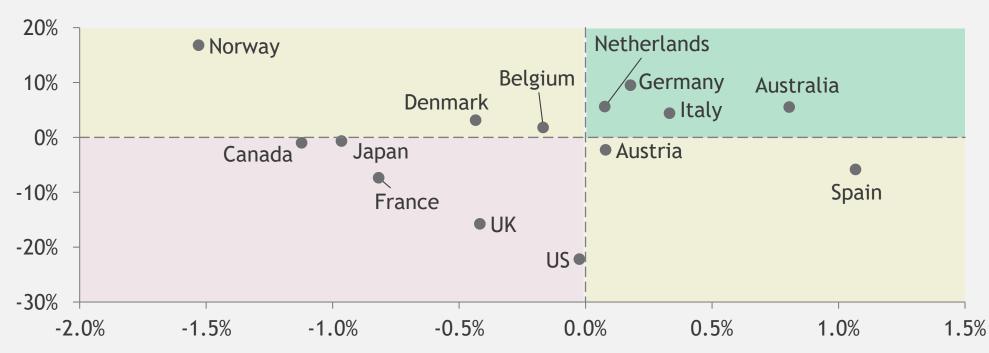


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### Trade deficit also a persistent problem for the US

Countries' trade balances and evolution over time



Trade balance as % of trade volume

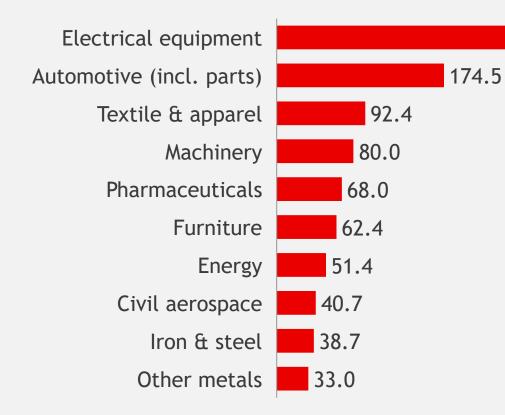
Export CAGR<sup>1</sup> - Import CAGR<sup>1</sup> (2001-2018)

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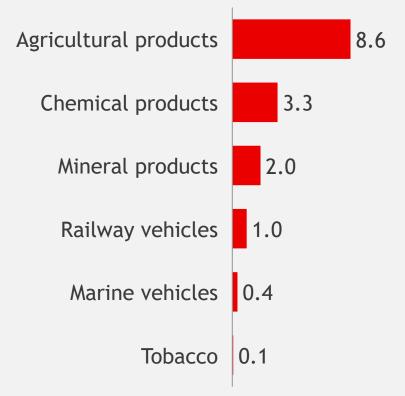
### US not competitive in most industries, very few exceptions

258.7

US' 2018 trade deficit by product category (\$B)

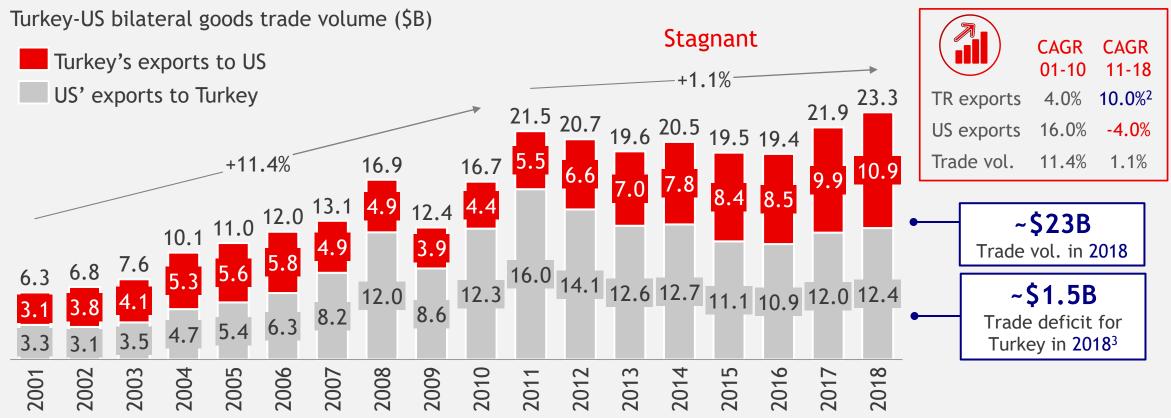


US' 2018 trade surplus by product category (\$B)





## Turkey-US bilateral trade volume had grown strongly, protectionism likely to jeopardize further growth<sup>1</sup>



1. Tariff increseases in aluminum & steel, removal from GSP preference and extension of Section 232 to other industries puts a threat to further growth

2. Turkey's export performance have been noteworthy since 2011, with per annum growth rate of 10%, where as US export to TR declined by 4% per annum

3. Turkey is one of the 28 countires that US has trade surplus of \$1 billion or more per annum (2018 figures); US has trade surplus against 113 countries; and deficit against 99 countries Note: Only import data is used; Trade Map figures Source: International Trade Centre; BCG analysis

### Significant uplift in bilateral trade requires efforts at multiple fronts

Success stories from peer benchmark countries indicate areas of focus for Turkey to increase its exports to the US



### Success stories indicate clear lessons

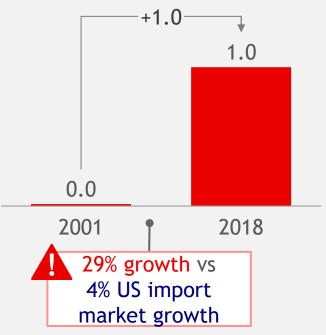
Key takeaways	Poland	(U) Slovakia	Vietnam	() India	(x) Israel	Switzerland	S. Korea
Define and focus on key sectors		V	$\checkmark$		$\checkmark$	$\checkmark$	
Know your target market			<b></b>			$\checkmark$	
Offer right products	V	$\checkmark$	<ul> <li>Image: A start of the start of</li></ul>	$\checkmark$	$\checkmark$		$\checkmark$
Focus on branding and country PR						$\checkmark$	
Attract FDI and invest abroad	V	V	V		V		
Define your national export strategy							
CAGR <sup>1</sup> of exports to t US in selected indust		52%	39%	8%	32%	6%	5%
CAGR <sup>1</sup> of the US' impo Vo Note: CAGRs <sup>1</sup> are for relevant sectors 1. Compounded annual growth rate, 2001-18 Source: BCG, International Trade Center	4%	4%	3%	2%	2%	3%	3% TAİK 19

## <u>Success Story:</u> Poland has increased its exports to the US by \$1.0B with a sectoral focus and attracting FDI



#### Performance overview

#### Export to US (\$B)



Note: Poland's Aerospace US sow = 4%, global sow = 2% Source: International Trade Centre; BCG analysis



#### Key characteristics

Polish aerospace industry

- Shift from Soviet orient. since 1990s
- Significant investment from US firms Sikorsky, Pratt & Whitney, Goodrich
- Focus on turbojets parts and helicopter parts
- Over 200 companies and 30K workforce

Polish Aviation Valley

- Association was established in 2003 by industry players to:
  - reduce costs in the supply chain
  - develop aerospace research and skills



#### Key learnings

Selection of aerospace as strategic sector by sector players; cooperation among sector players

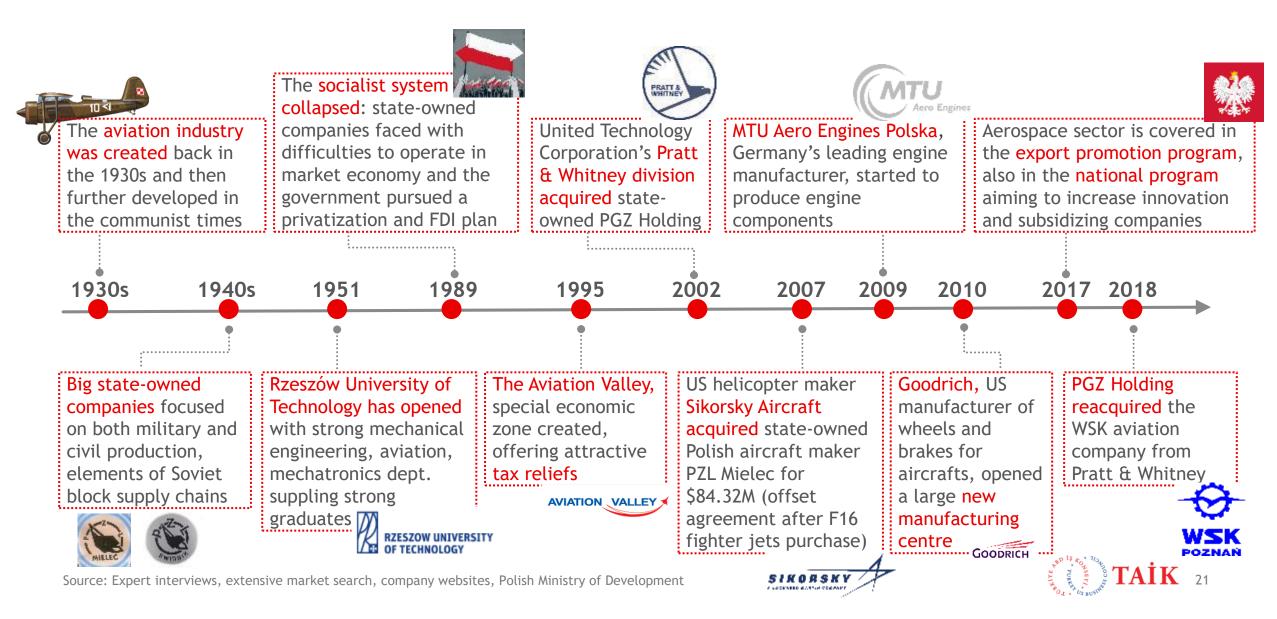


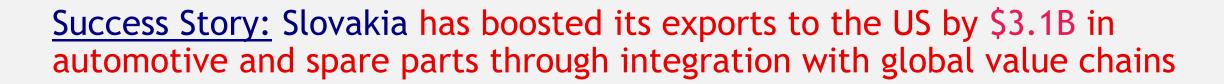
Attracting large international aerospace manufacturers

- Investment in R&D and public education supported sector growth
  - Aerospace department in universities
  - R&D incentives



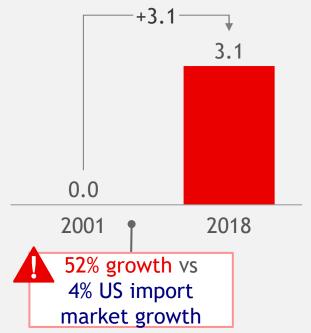
#### Polish aerospace industry has a long history and a well-developed network



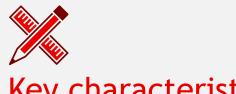




Export to US (\$B)



Note: Slovakia's Automotive US sow = 1%, global sow = 2% Source: International Trade Centre; BCG analysis



#### Key characteristics

Slovak automotive industry

- Biggest automotive producer per capita (over 1M cars in 2017)
- Four major OEM present (VW, PSA, Kia, JLR)
  - Especially SUV segment by VW
- 300+ suppliers MNCs move their R&D centers to Slovakia
- Technical education, skilled labor force
- Tax incentives (e.g. land acquisition, building costs, equipment, cash grant, tax relief etc.)



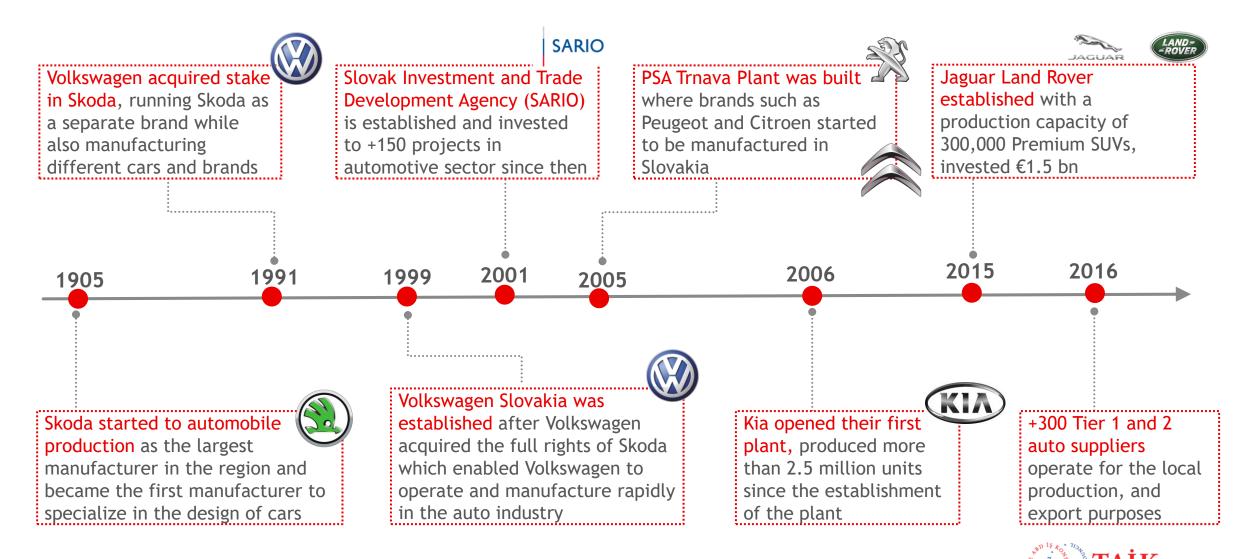
#### Key learnings

- FDI attraction and integration with global value chain
- Ease of doing business and tax incentives -esp. for R&D
- Long-term investment in education and training
  - Industry & university cooperation
  - Vocational schools





#### Slovakia Automotive sector attracted investors and developed the industry

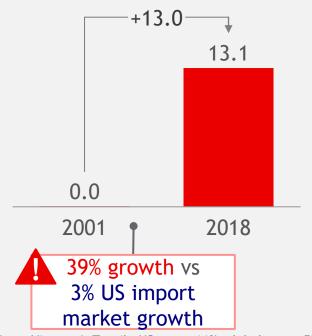




## <u>Success Story:</u> Vietnam had a massive \$13.0B uplift in its Textile exports to the US, driven by its cost competitiveness



Export to US (\$B)



Note: Vietnam's Textile US sow = 11%, global sow = 5% Source: International Trade Centre; BCG analysis



#### Key characteristics

Vietnam Textile industry

- Low manufacturing costs has enabled the country to attract foreign businesses
- A growing number of businesses have relocated their business from China to Vietnam in an attempt to escape from the rising costs
- An increase in the complexity of the regulatory environment has also effected the businesses decisions to relocate in Vietnam where the regulatory environment in much simpler



#### Key learnings

Attracting FDI with cost advantages (e.g. stealing from China) and ease of doing business



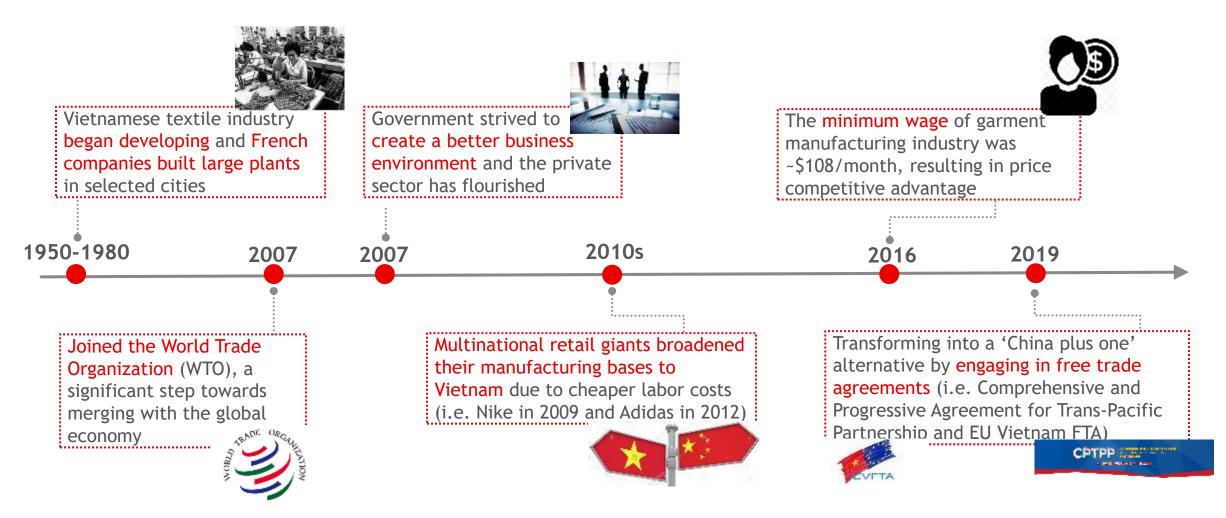
Newcomers threaten cost position (e.g. Cambodia and Bangladesh)

Vision to upgrade in value chain in textile (e.g. brand creation etc.)



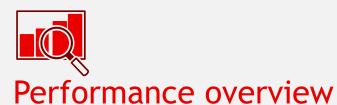


#### Vietnam becoming a strong textile manufacturer and exporter for the last decade

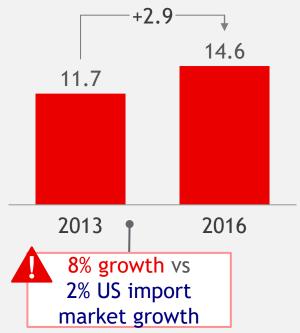




## <u>Success Story:</u> India has continued to further grow its exports to the US in telecom, computer and information services



Export to US (\$B)



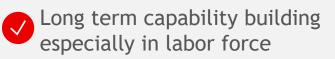
Note: India's ICT US sow = 40%, global sow = 11% Source: International Trade Centre; BCG analysis

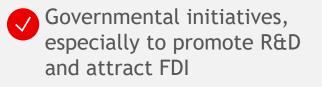


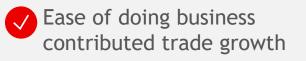
#### Key characteristics

- Liberalization and deregulation of IT and telecom sectors in 1990s
- Prioritization of IT sector, prerequisite for software industry
- Education system providing skilled and inexpensive labor force with English proficiency
- Assuring legal environment
- Promotion of FDI and attracting investments for offshore IT services and R&D
- Established a National Venture Capital Funding by the Ministry of IT and banks to invest in the software and IT industries





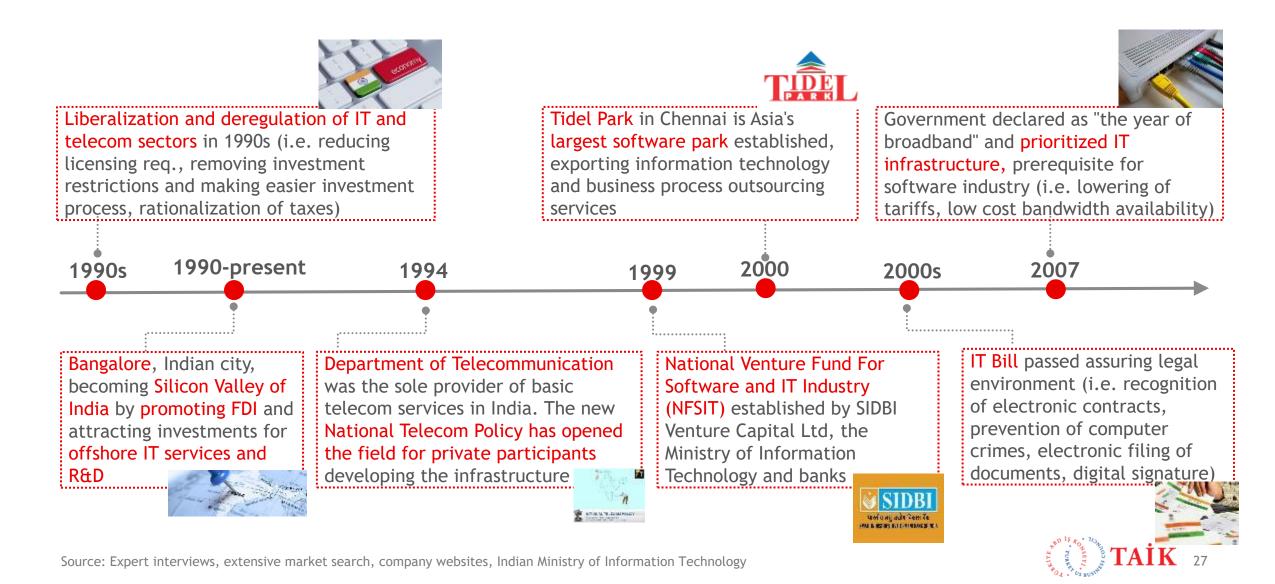




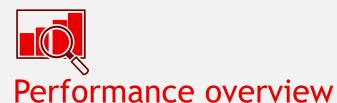




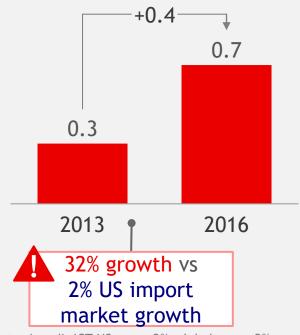
#### Indian computer services industry became strong with government actions



## <u>Success Story:</u> Israel has more than doubled its telecom, computer and information services exports to the US in 3 years



Export to US (\$B)



Note: Israel's ICT US sow = 2%, global sow = 2% Source: International Trade Centre; BCG analysis



#### Key characteristics

Israel ICT Industry

- Israel's focus on defense sector led to defense-related research and the development of the computer services
- Multiple gov. initiatives taken, e.g.
  - Ministry of Justice submitted a statement on Intellectual property protection to US which has shown U.S. that Israel has sufficient precautions, thus increasing ease of doing business
- Bilateral agreements have also enabled U.S. and Israel companies to receive matching funds and work together on R&D projects



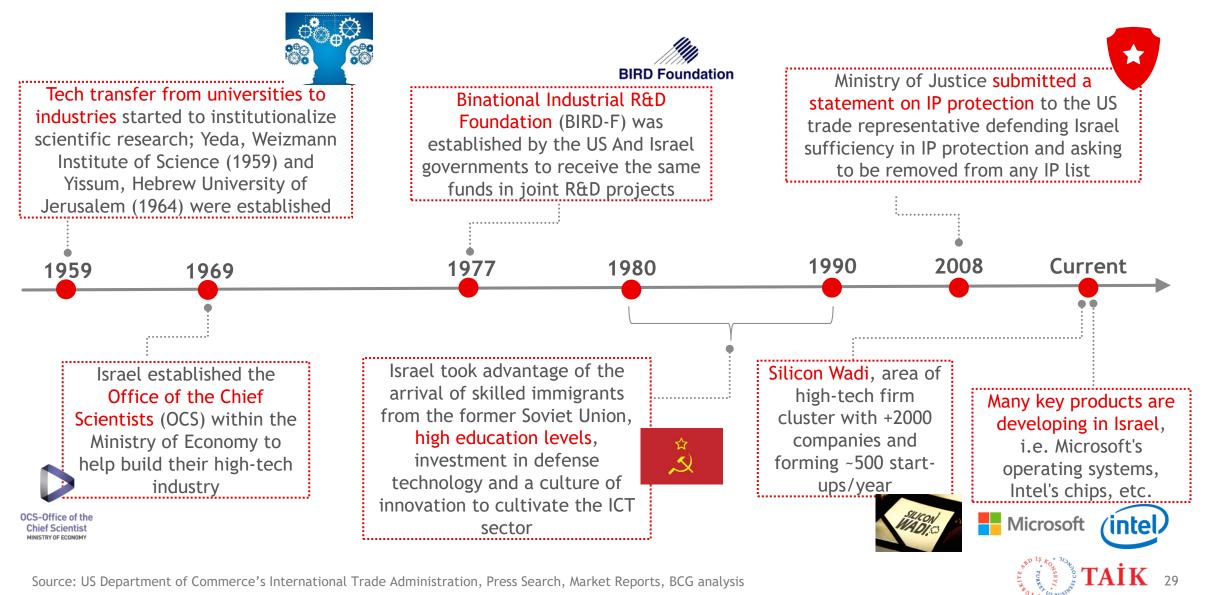
#### Key learnings

- Long term capability building via governmental initiatives especially to promote R&D and attract FDI
- Ease of doing business has increased with IP protection, which contributed trade growth





#### Israel ICT sector built on defense and key IT products for US companies





## <u>Success story:</u> Switzerland has tripled its watches exports to the US with a clear focus on branding and country PR



Export to US (\$B)





#### Key characteristics

Swiss watch industry

- Switzerland is associated with cleanliness, reliability, precision and quality; thus perceived as the best watch producer
- Watch became the accessorize considered as a piece of jewelry, a fashion accessory and a status symbol
- With the help of booming US economy and general revival of luxury goods spending, USA became the 2<sup>nd</sup> largest export country for Swiss watches



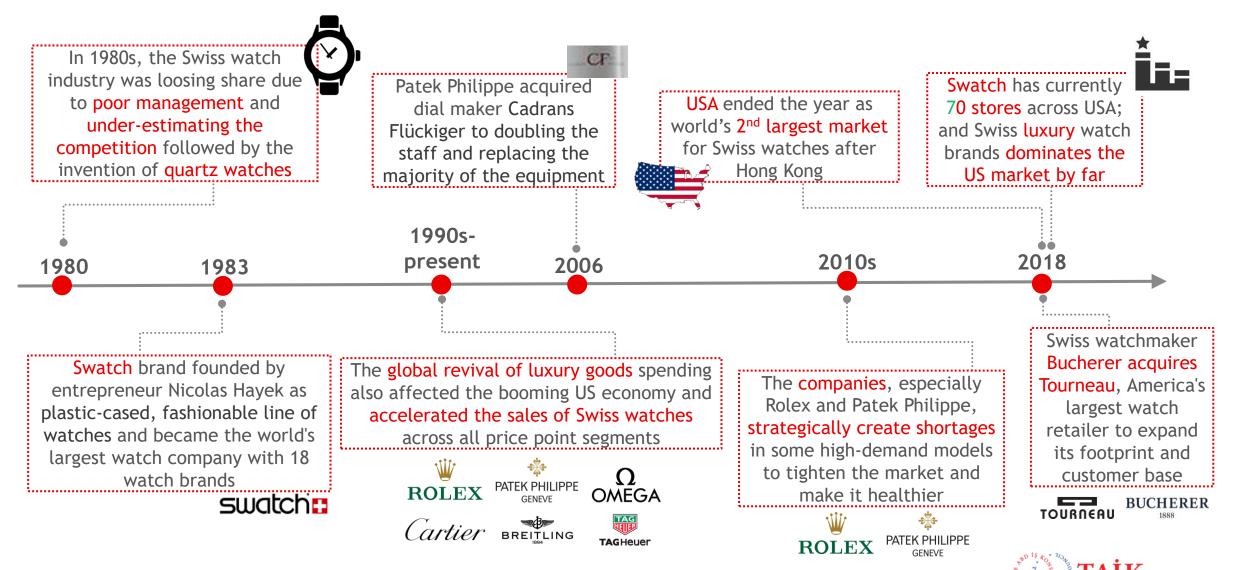
#### Key learnings

- Branding of companies is key to increase the product demand
- C C
- Country image and PR help in increasing the sales; "Swiss Made" label positively impact the industry





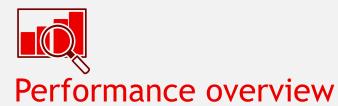
#### Switzerland watch sector enjoyed the country reputation and branding



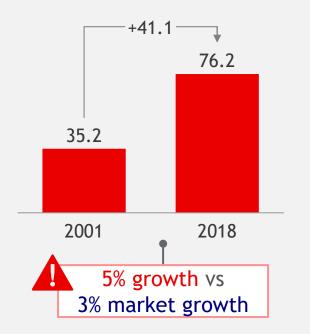
Source: US Department of Commerce's International Trade Administration, Press Search, Market Reports, BCG analysis



#### Success story: South Korea's total exports to the US have grown by more than \$40B with a national export strategy



Export to US (\$B)





#### **Key characteristics**

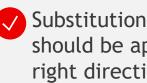
South Korea has built its economy across all industries with government strategic plans:

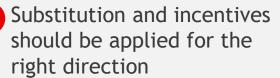
- Starting with export-led industrial development by import substitution
- Followed by increasing competitiveness with guided capitalism for Chaebols and internationalization
- Updated with productivity growth especially in encouraging new businesses with "Creative Economy"



#### **Key learnings**

Government guidance is key to develop economy and industries

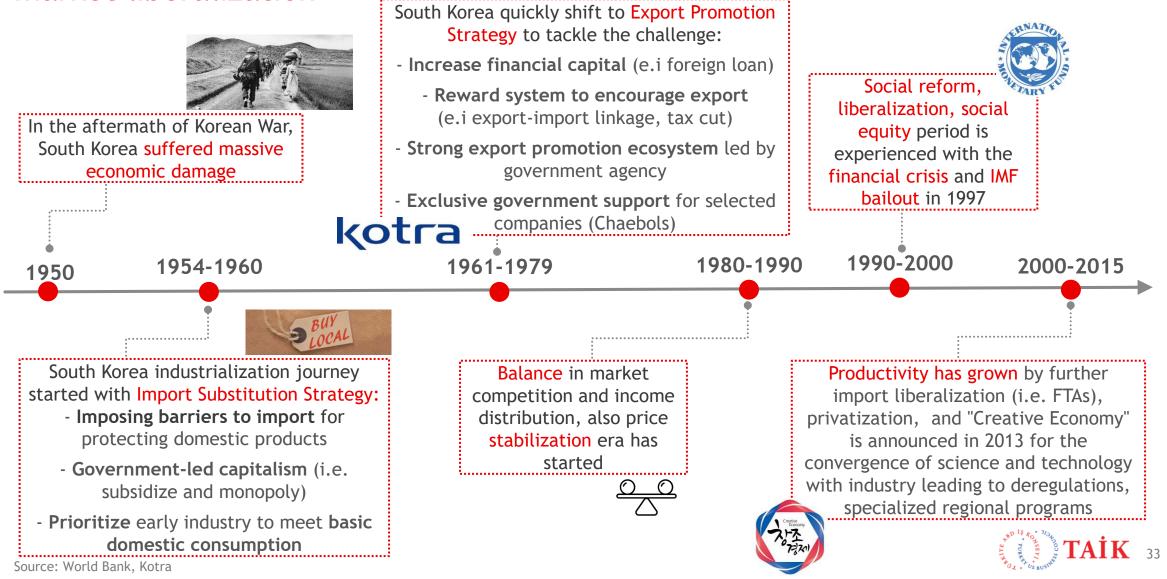








## South Korea planned strategic expansion strategy and industrialization before market liberalization



## Recall: Success stories indicate clear lessons for Turkey to focus on key sectors and transversal levers

Key takeaways		Poland	<b>U</b> Slovakia	Vietnam	() India	Israel	Switzerland	S. Korea
1 Define and focus on key see	1 Define and focus on key sectors							
2 Know your target market			V			<ul> <li>V</li> </ul>		
3 Offer right products		$\checkmark$	$\checkmark$	$\checkmark$		<ul> <li>V</li> </ul>	$\checkmark$	
4 Focus on branding and cou	ntry PR						$\checkmark$	
5 Attract FDI and invest abro	ad	$\checkmark$	V	V		$\checkmark$		V
6 Define your national expor	t strategy							
	CAGR <sup>1</sup> of exports to the US in selected industry	29%	52%	39%	8%	32%	6%	5%
Note: CAGRs <sup>1</sup> are for relevant sectors 1. Compounded annual growth rate, 20 Source: BCG, International Trade Cente	CAGR <sup>1</sup> of the US' import vol.	4%	4%	3%	2%	2% Go to homepage 🏠	3%	3% AIK 34

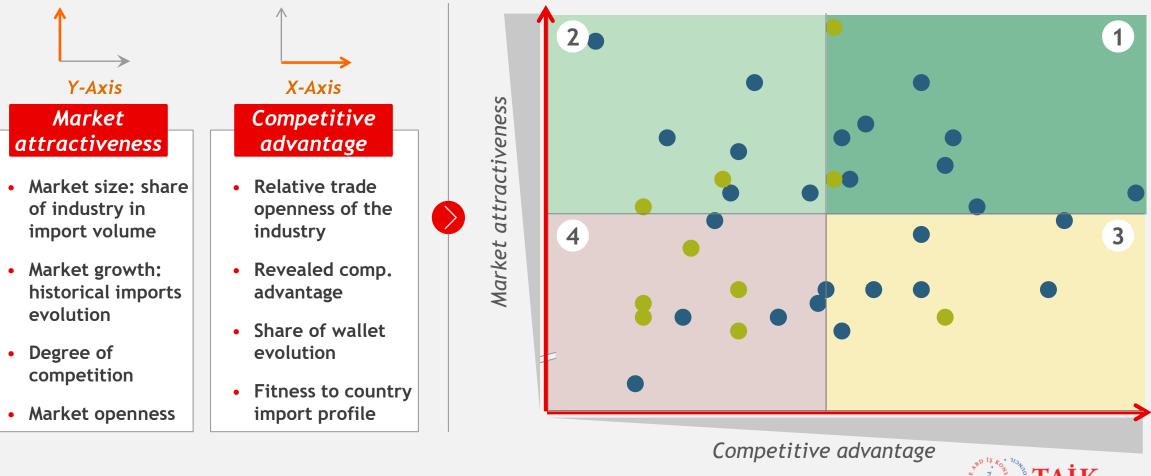


## Deep-dives for selected sectors and levers for Turkey



# We utilized a comprehensive approach to assess market attractiveness and competitiveness at industry level

🛡 Goods 📃 Services



## Multiple parameters leveraged to capture key traits along each dimension

### Market attractiveness parameters



Share of industry's imports in total US imports



Market growth

2011-2018 CAGR of US imports in the industry



Herfindahl-Hirschman index measuring the share of top 10 origin countries for US imports



Ease of market capture

Shift in sourcing base over 2011-2018 measured through absolute changes in market shares of top exporters

Note: 2014-2016 data is used for services except for competition measures Source: BCG

### **Competitive advantage parameters**



Relative trade openness



Revealed comparative advantage



Share of wallet evolution

average US tariff for industry Ratio of industry's share in Turkey's exports to its share in global exports

Difference of tariff applied to

imports from Turkey than the



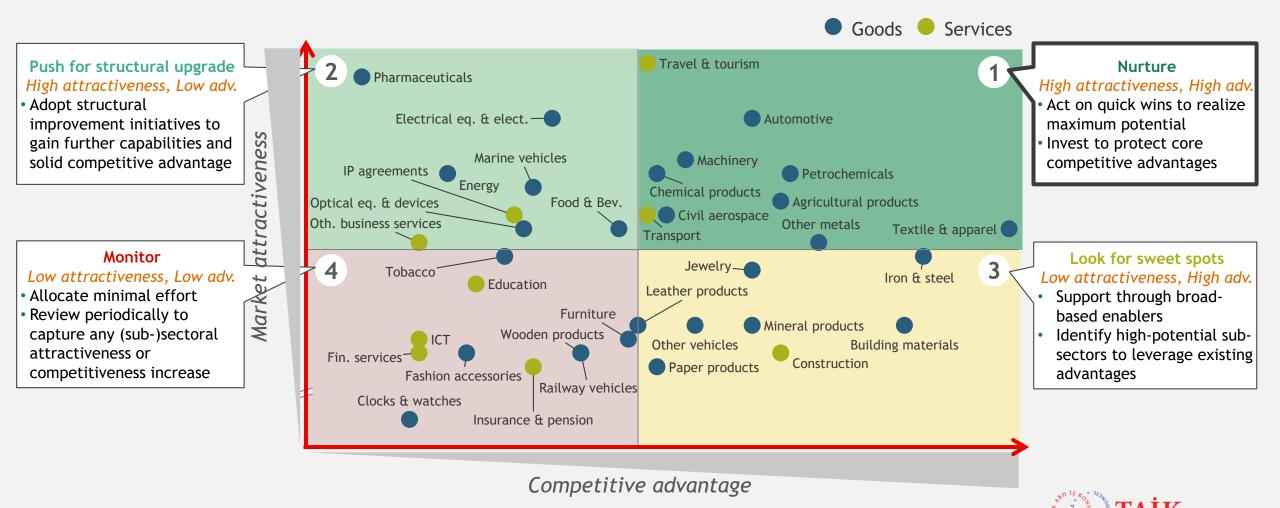
Change in Turkey's share of wallet in US imports over 2011-2018 period



Fitness to US' import profile Comparison of unit value of Turkey's exports to unit value of US' imports



# Turkey perspective: Industry assessment reveals 4 groups of industries with different needs and priorities



## 8 industries with vast potential to uplift Turkish exports

### Main criteria for industry selection

### > High competitive advantage

• Industries where Turkey has already built capabilities are the primary focus

### High market attractiveness

• Industries with stronger appetite for import as well as attractive competitive environment are more favorable

### > Large market size

• Industries with larger market size are more favorable to form a higher base and thus drive tangible uplift

### > Favorable trade environment

• Industries with less complex trade environment are more favorable

## Recommended focus industries<sup>1</sup>



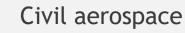
Automotive (incl. parts)



Textile and apparel



Jewelry





White goods

Building materials

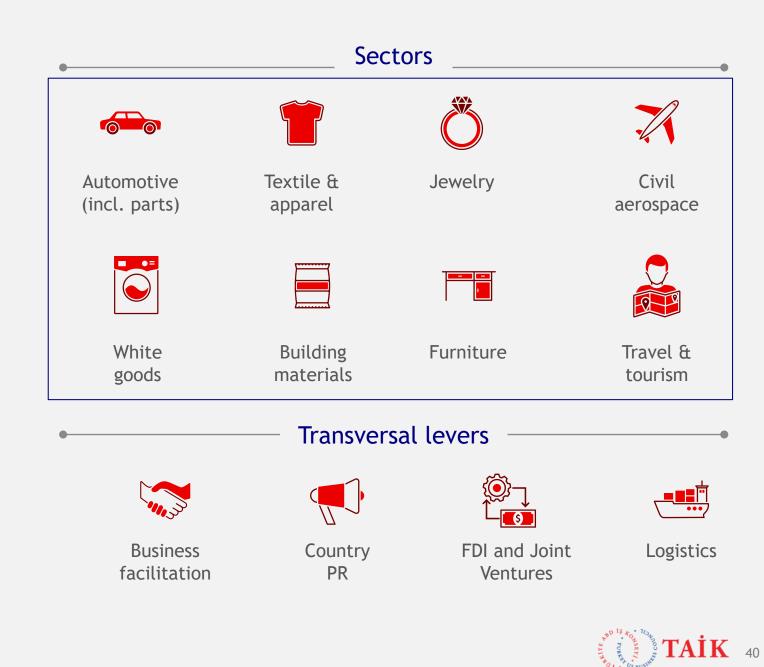
Furniture

Travel and tourism

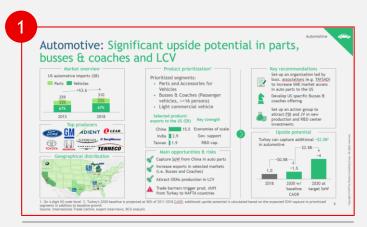


## We detailed selected sectors and transversal levers to increase Turkish exports to the US

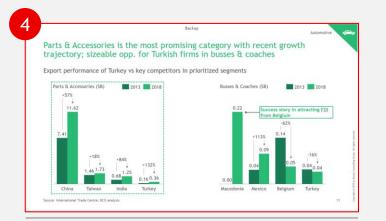
Competitive advantage



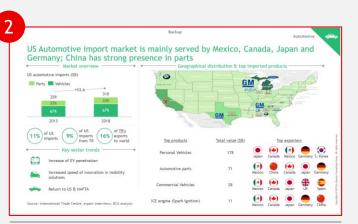
## Our deep dive framework for 8 key sectors



A one pager summarizing key points



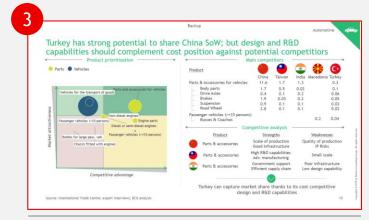
Export performance of Turkey vs. key competitors in prioritized products



Market size, sector trends, geographical distribution, and top exporting countries



Identification of risks and opportunities



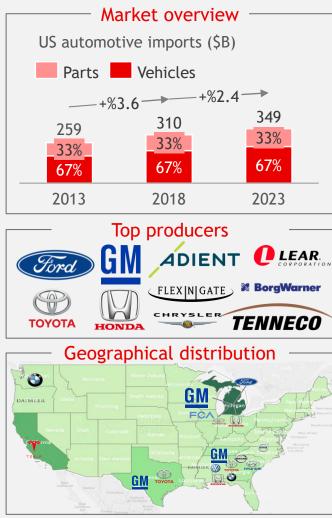
## Product prioritization and competitive analysis



Recommendations and impact sizing

Additional back-up pages to focus on key themes specific to sectors

# Automotive (incl. parts): Significant upside potential in parts, buses & coaches, and light commercial vehicles



#### Product prioritization<sup>1</sup>

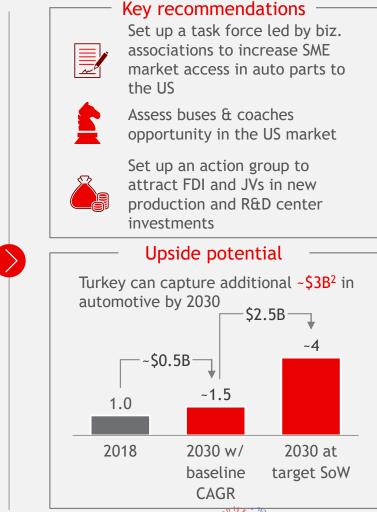
Prioritized segments:

- Parts and accessories for vehicles
- Buses & coaches (Passenger vehicles, >=16 persons)
- Light commercial vehicle



#### Main opportunities & risks

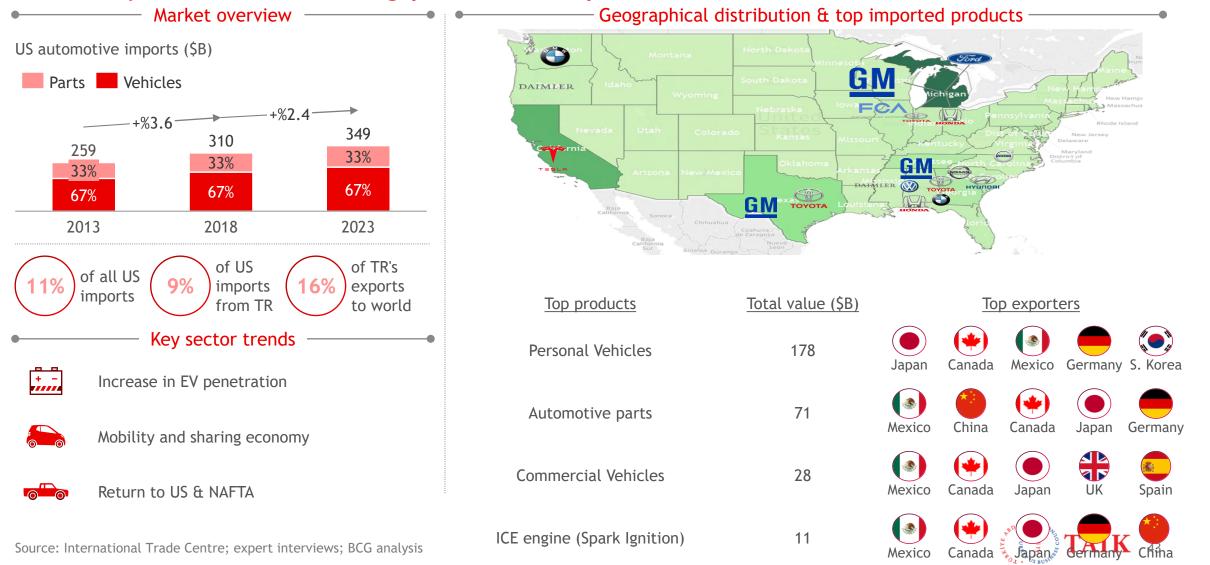
- Capture SoW from China in auto partsIncrease exports in selected markets (i.e. Buses and coaches)
- Attract OEMs production in LCV
- New NAFTA rules favor local/US prod.
- Potential tariff uplift with Section 232



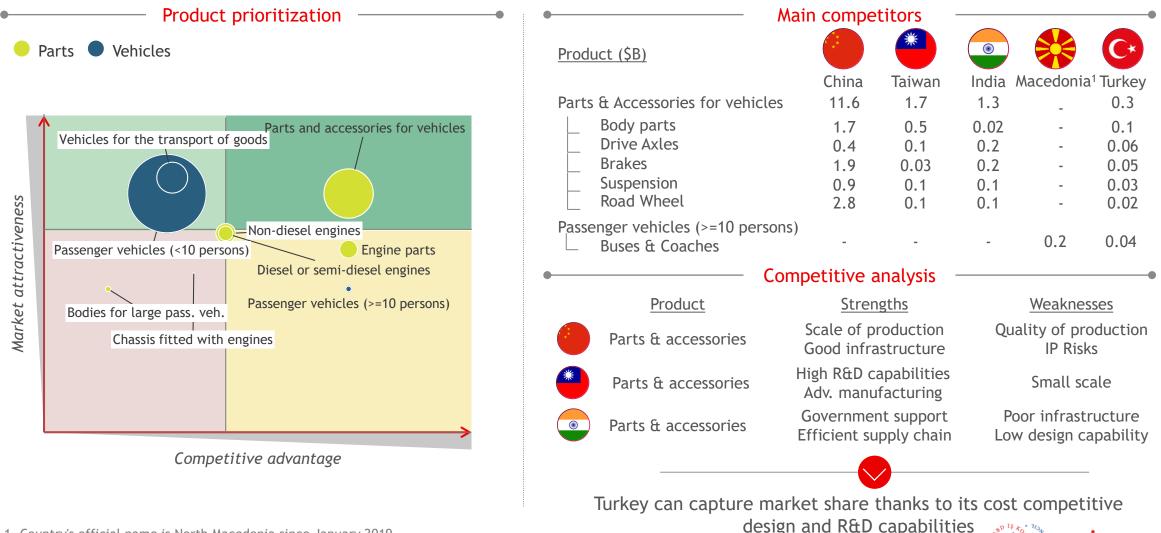
1. On 4-digit HS code level 2. Turkey's 2030 baseline is projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in protective segments in addition to baseline growth Source: International Trade Centre; expert interviews; BCG analysis

#### Automotive and parts

## US Automotive import market is mainly served by Mexico, Canada, Japan and Germany; China has strong presence in parts



## Turkey has a strong potential to capture Chinese share of wallet, but its design and R&D capabilities should complement cost position against potential competitors



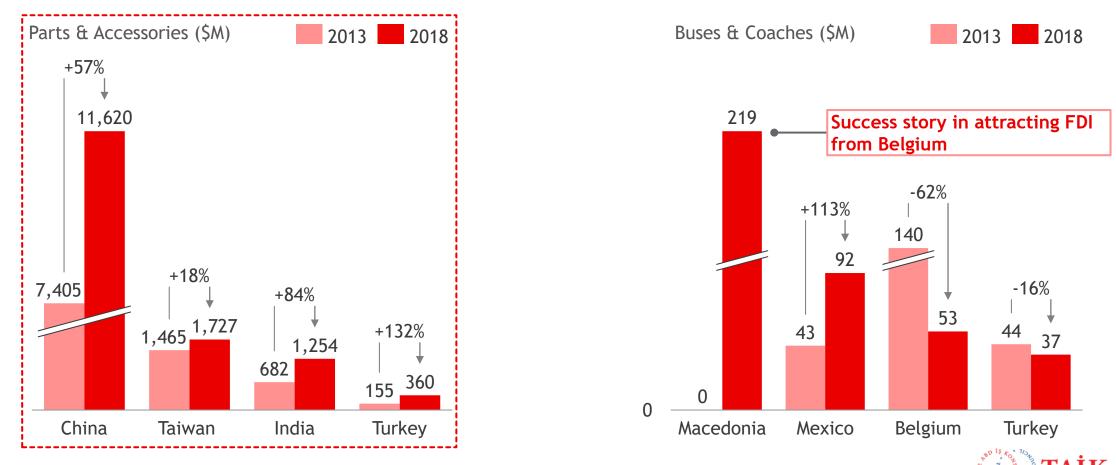
1. Country's official name is North Macedonia since January 2019 Source: International Trade Centre; expert interviews; BCG analysis

**K** 44

Automotive and parts

# Parts & accessories is the most promising category with recent growth trajectory; potential opportunity for Turkish firms in buses & coaches

Export performance of Turkey vs key competitors in prioritized segments:



Despite the trade polices aimed at shifting production back to the US, multiple opportunities exist to tap into the market



## Risks



Tariff barriers:

- Due to the exclusion from the GSP, vehicles and auto parts will be subject to a 2.5% duty
- Additional tariffs on auto and auto parts are under consideration in the section 232 review
  - Could lead to 20-25% duty
- Non-tariff barriers:
  - New NAFTA requirements:
    - 75% "Regional Value Content" (any NAFTA)
    - 40-45% "Labor Value Content" (workers @ \$16/h)



## **Opportunities**

Capture share of wallet from China in automotive parts due to escalated trade wars and increasing labour costs



#### Increase exports in selected markets

e.g. leverage production expertise in buses & coaches to reach fair market share in \$1B import market in the US



Attract OEMs for production in LCV by leveraging Turkey's cost-efficient R&D capabilities and its position as production hub



### Key recommendations for automotive and parts



#### Key recommendations

#### • Set up a task force with key stakeholders led by business associations to increase SME

- automotive suppliers' market access to the US
  - An action group led by TAYSAD (Automotive Suppliers Association of Turkey) and involvement of other stakeholders to identify opportunities and facilitate SME access to biz & legal advisory for the US market TAYSAD and TIM (Turkish Exporters' Assembly) to increase SME knowledge in key topics:
    - legal & technical regulations on auto parts by TAYSAD
    - how to do business in the US (by TIM)
  - TAIK (Turkey-US Business Council), TİM and Turkish commercial service in the US to identify target buyers and to facilitate out reach by SMEs by a structured reach out plan
  - TIM and Min. of Trade to support Turkish suppliers with newly designed trade centers



#### Assess US specific buses & coaches opportunities

- Relevant biz. associations (e.g. OSD and OİB<sup>1</sup>) to identify key buyers in the US and local product req.
- Min. of Trade to consider a targeted incentive structure to enable homologation and product customization investment for the US market tailored for selected markets



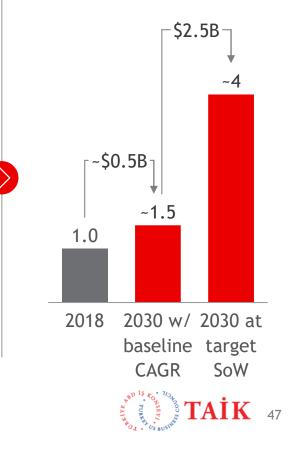
## Set up an industry-wide action group including TAYSAD, DEIK, YASED and Investment Office<sup>2</sup> to attract and facilitate FDI and JVs in new production and R&D center investments

- Actively identify and pursue opportunities from global OEMs and Tier 1 suppliers
- Set up an action plan to promote Turkey's advantages and capabilities in automotive production and R&D
- 1. OSB (Automotive Manufacturers Association), OİB (Automotive Industry Exporters' Association)
- 2. DEIK (Foreing Economic Relations Board of Turkey), YASED (International Investors Association)

Source: International Trade Centre; expert interviews; BCG analysis



### Potential upsides

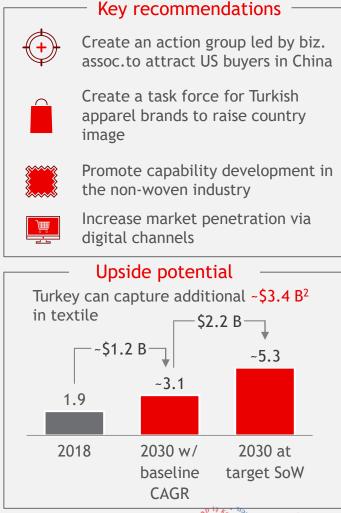


#### Textile & apparel

# Textile & apparel: Untapped potential to be seized through better design and brand image



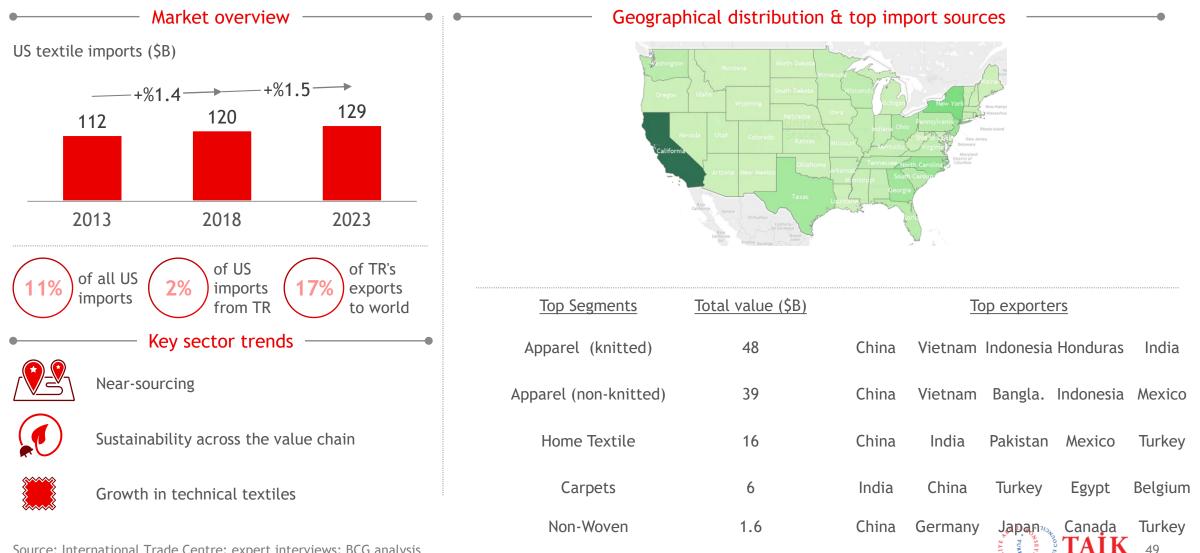




1. On 4-digit HS code level 2. Turkey's 2030 baseline is projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018

Textile & apparel

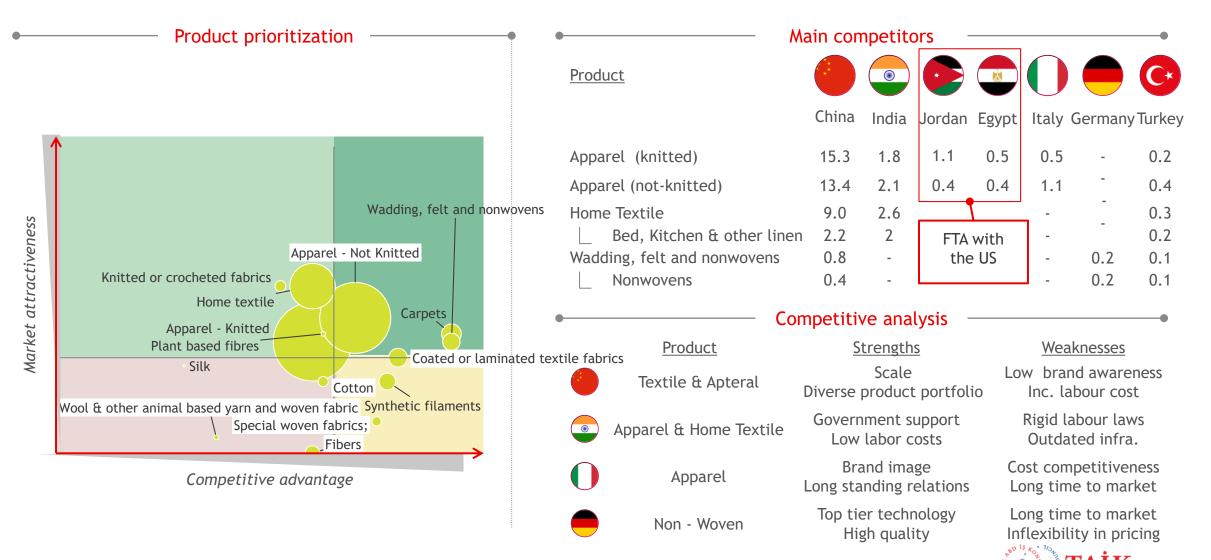
### US textile & apparel market is dominated by cost-competitive Asian players



Source: International Trade Centre; expert interviews; BCG analysis

Textile & apparel

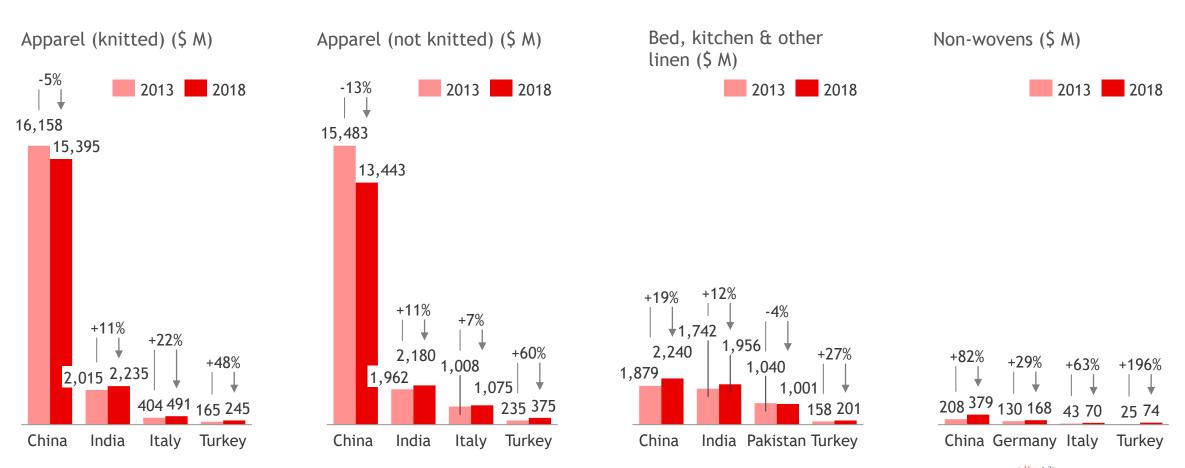
# Turkey cannot compete solely on price; quality and design elements of Turkish products should be prioritized



Textile & apparel

## Turkey has been growing faster than its competitors in these 4 priority segments

Recent growth trajectory promises future growth for Turkey





# Production will move closer to the US but Turkey still has potential in higher value added segments





#### Companies are near-shoring production by moving production closer to end-markets for items with short shelf life; requires fast reactions



Increase in use of automation in textile production is bringing manufacturing back to the US by mitigating labor cost disadvantage



## **Opportunities**



- Capture share of wallet from China in higher value added products thanks to its decreased competitiveness through escalated trade wars and increasing labor costs
- Capture a greater share of the US apparel and home textile market by leveraging Turkish brands' strong design capabilities and high quality



#### Seize the momentum in non-woven exports

(e.g. sport and leisure clothing) by leveraging Turkey's cost competitive production and expertise



## Leverage established and emerging digital channels in order to penetrate the market

e.g. Amazon and StitchFix



Textile & apparel

## 5 key elements to boost Turkish textile & apparel exports in the US Turkey will have difficulty in competing on costs alone



#### Achieving high quality and reliability in large scale production

 Sustain continuity and reliability in large scale production



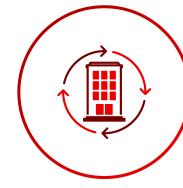
Ensuring sustainable sourcing for US buyers across the value chain

- Educate and enable practices:
  - Traceability
  - Circularity
  - Social responsibility (e.g. labor rights, women rights etc.)



## Improving country & brand image through targeted positioning

- Define what Turkish textiles stands for
- Keep messages consistent across all channels
- Invest in branding
  - Buy US-based brands
  - Run active marketing campaign



#### Improve access to the US textile & apparel industry with US commercial bases

- Establish and operate Turkish trade centers:
  - Meeting rooms
  - Event halls
  - Display area
  - Warehouses



Digital presence: Building brand awareness through e-commerce

 Develop digital market strategy and guide Turkish firms in digital sales channels for the US (e.g. how to sell online in the US, how to manage supply chain, logistics, returned items via online channel)



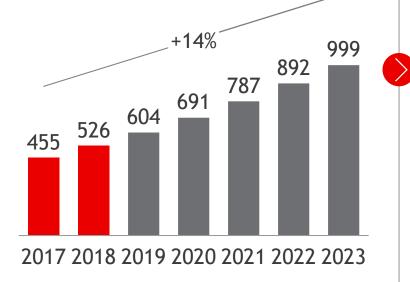
# Turkish textile & apparel companies should seize opportunities in digital channels for growth and brand image

## Significant opportunities in e-commerce for Turkish firms

E-commerce retail sales in the US

- Expected to grow with %14 p.a.
- Forecasted to reach ~\$1T in 2023

US e-commerce retail sales (\$B)



Multiple mediums exist for market entry in the US apparel e-commerce



Amazon just behind Walmart in the US apparel market with a share of ~8% in 2017



#### STITCH FIX

Online styling service which periodically sends subscribers five pieces of apparel according to their preferences and provides free returns

Turkish firms further use the US digital market through online retailers, building brand awareness & strength

## However Turkish firms lack know-how and infrastructure to penetrate

- Turkish textile & apparel firms lack sufficient know-how to sell online in the US market (e.g. how to manage supply chain, logistics, returned items etc.)
- Insufficient infrastructure in software, hardware, and handling operations

Turkish firms need to be supported via training programs tailored for ecommerce and the US market (esp. for SMEs)



### Key recommendations for textile & apparel



### Key recommendations

#### Create a task force led by business associations to unlock access to key US buyers

- IHKIB<sup>1</sup> to identify key products and buyers to target in the US market
- TIM, IHKIB and TGSD<sup>1</sup> to set up induvial visits to key US buyers with Turkish textile association leaders
- TIM to facilitate participation of Turkish producers in Chinese textile fairs and to promote Turkish textile industry targeting US buyers sourcing from China
- Turkish commercial service in the US to employ a textile trade rep. to facilitate access to US buyers
- TIM to create a US trade center that includes meeting rooms, show rooms and event hall to act as a base for Turkish producers and all export promotion efforts in the US

#### Create a task force for Turkish apparel brands to raise country image

- Relevant biz. associations (e.g. İHKİB and TGSD) to set-up a task force to promote Turkish brands and apparel industry in the US via country PR and social media campaigns
  - Emphasize Turkish products' sustainable sourcing and social responsibility features
  - Help Turkish SMEs develop relationship with major US retailers

#### Promote capability development and cooperation in non-woven industry

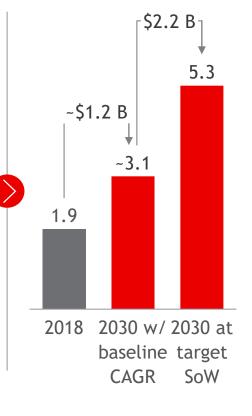
- Min. of Trade to consider a scheme to incentivize product development and R&D investments for Turkish producers to adhere US norms and standards
- ITHIB<sup>1</sup> to create a commercial set-up to pool complementary offerings to target large buyers

#### Focus on digital channels and increase awareness through success stories

• Training programs on digital sales channels in the US to be run by TIM and IHKIB

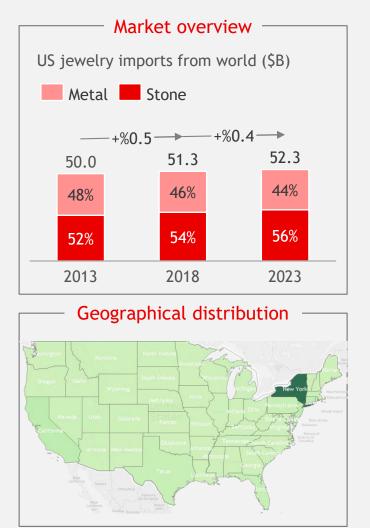
1. IHKIB (Istanbul Apparel Exporters' Association), TGSD (Turkish Clothing Manufacturers' Association), ITHIB (Istanbul Textile and Raw Materials Exporters' Association) Source: International Trade Centre; expert interviews; BCG analysis







# Jewelry: Turkey's design capabilities and brand image should be improved to reach fair share in gold jewelry





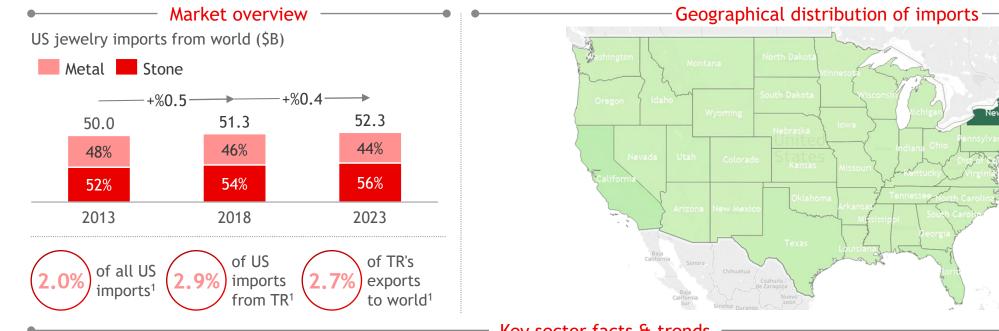
1. On 4-digit HS code level 2. Turkey's 2030 baseline is projected at 50% of 2011-2018 CAGR; targeted 2030 share of wallet (SoW) is three times the 2018 SoW Source: International Trade Centre; expert interviews; BCG analysis

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Jewelrv

Jewelry

# Value-for-money and brand strength stand out as the key success factors of the US jewelry market



#### Key sector facts & trends



Growing value-for-money segment driven by increasing value-consciousness, and the growth of internet retailing which offer lower prices and promotional activities at department stores



Branding is a key success factor; American consumers give increasing importance to brand image and strength

1. 2018 figures

Source: International Trade Centre; Mintel; US Census Bureau; Euromonitor; BCG analysis

## 

**Opportunity via marketing of jewelry**; US consumers' top reason for not buying jewelry is "not having a reason"



Digital is crucial because it provides the medium for better product discovery and convenient shopping

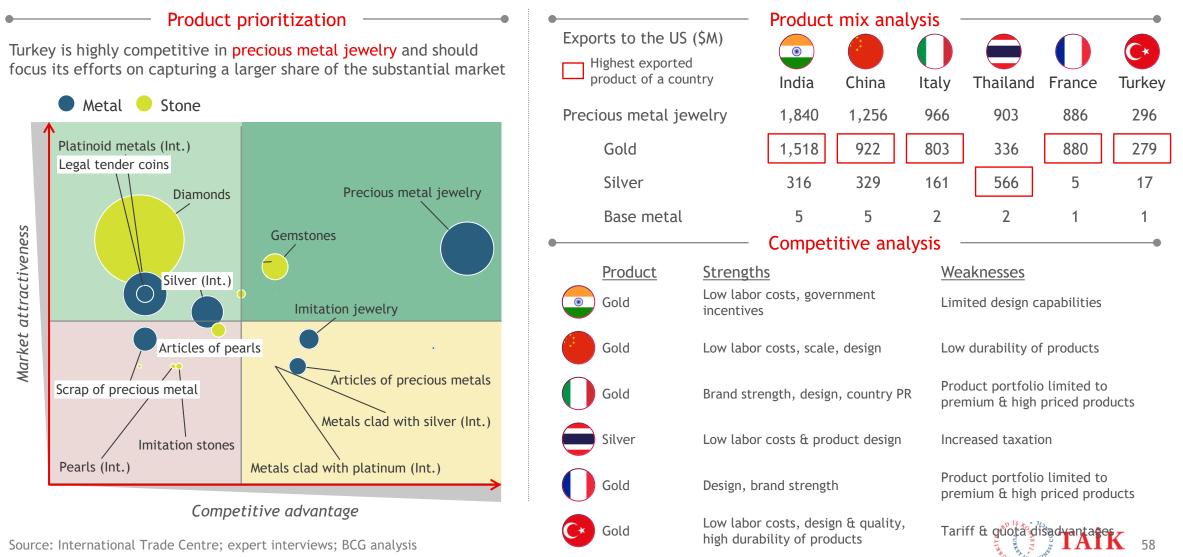


Market consolidation towards larger chains driven by convenience and value



Jewelry

# Efforts should be focused on seizing the substantial opportunity in the US precious metal jewelry market where Turkey is highly competitive

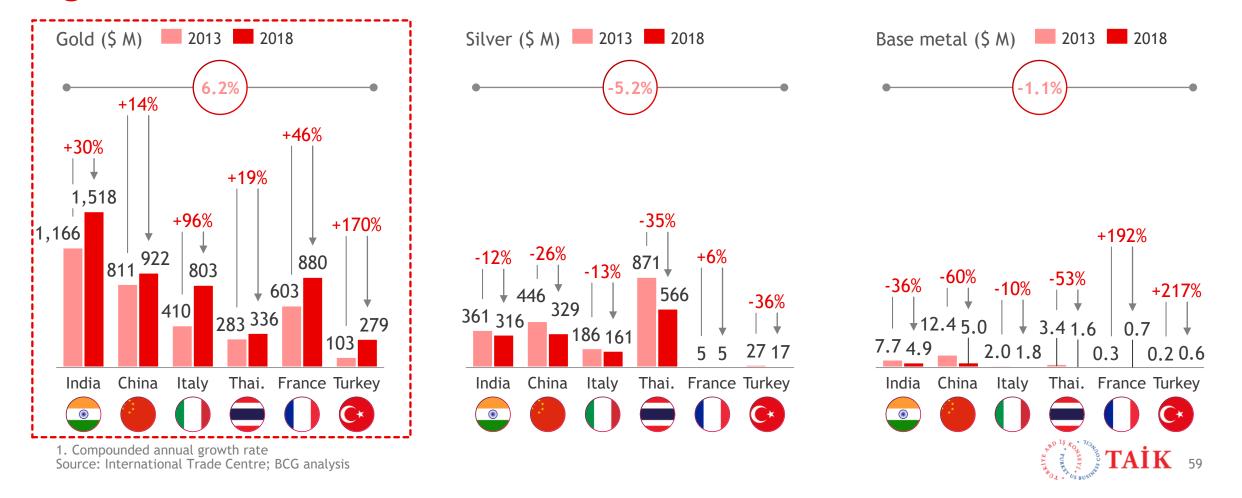


Jewelry

# Gold is the most attractive market among precious metal jewelry and Turkey's recent performance is very promising

Export performance of Turkey vs. key competitors in prioritized products

 $\times$  US total import market CAGR<sup>1</sup> (13-18) for a given product



### Favorable US market trends and foreign trade dynamics outweigh the risks



Risks



Tariffs on gold jewelry up from 1% to 6% as a result of loss of GSP preference



Fluctuating gold prices due to economic uncertainty, e.g. concerns over foreign policy



Negative effect of economic downturn in Turkey on cost structure of producers



### **Opportunities**



Increasing value-consciousness of consumers leading to the growth of the share of valuefor-money segment, where Turkey is positioned

	$\sim$		
			1
		•	

Opportunity to capture China's share of wallet due to the developments in trade relations between US & China



Opportunity to capture Italy's and France's share of wallet in lower premium segment through aggressive marketing and branding



### Key recommendations for jewelry



#### **Key recommendations**



Consider negotiating tariffs and quotas in order to eliminate Turkey's primary disadvantage against its competitors



Put effort on marketing and branding with sector firms under jewelry associations (IMMIB)<sup>2</sup>:

- Provide transparency on ethical sourcing of materials on product labels, catalogues, websites etc. in parallel with increasing sensitivity of US consumers
- Increase digital presence through websites (each firm's own website, a single website for all members of IMMIB, retailers' websites etc.) to provide consumers with better product discovery and convenient shopping
- Establish strong brands as brand strength is increasingly becoming a key success factor - by building stories on modernized heritage design behind Turkish products and emphasizing Turkey's competitive edge on value-for-money



Place business facilitation efforts via TIM, IMMIB and other key stakeholders to develop relations with consolidating department stores, Amazon and mass merchandisers

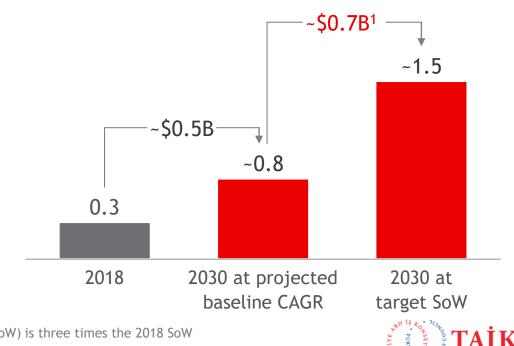
1. Turkey's 2030 baseline is projected at 50% of 2011-2018 CAGR; targeted 2030 share of wallet (SoW) is three times the 2018 SoW

2. IMMIB (Istanbul Minerals and Metal Exporters' AssociatioN)

Source: International Trade Centre; Mintel; Euromonitor; expert interviews; BCG analysis

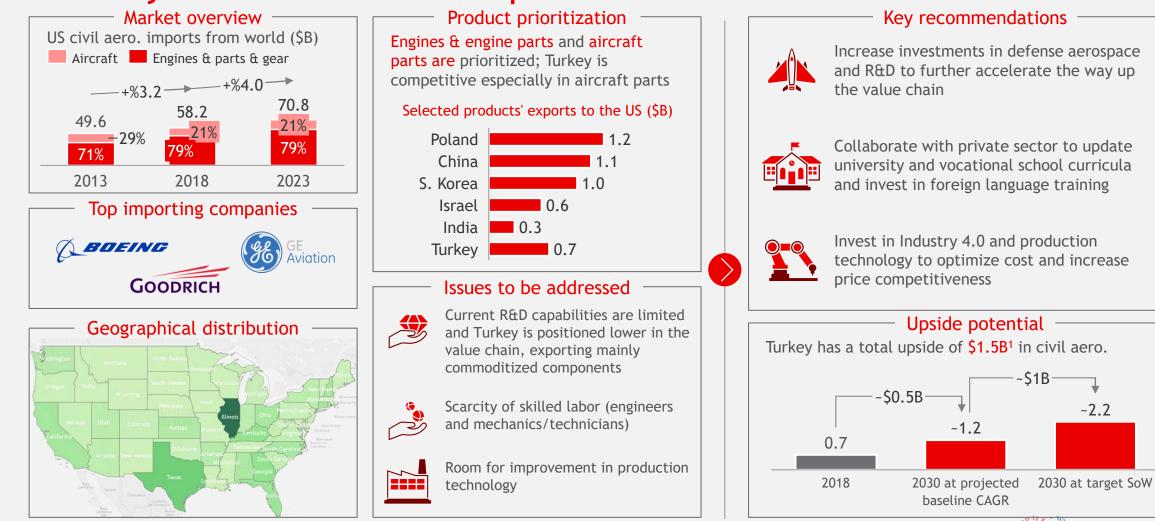


#### Potential upsides



Civil aerospace

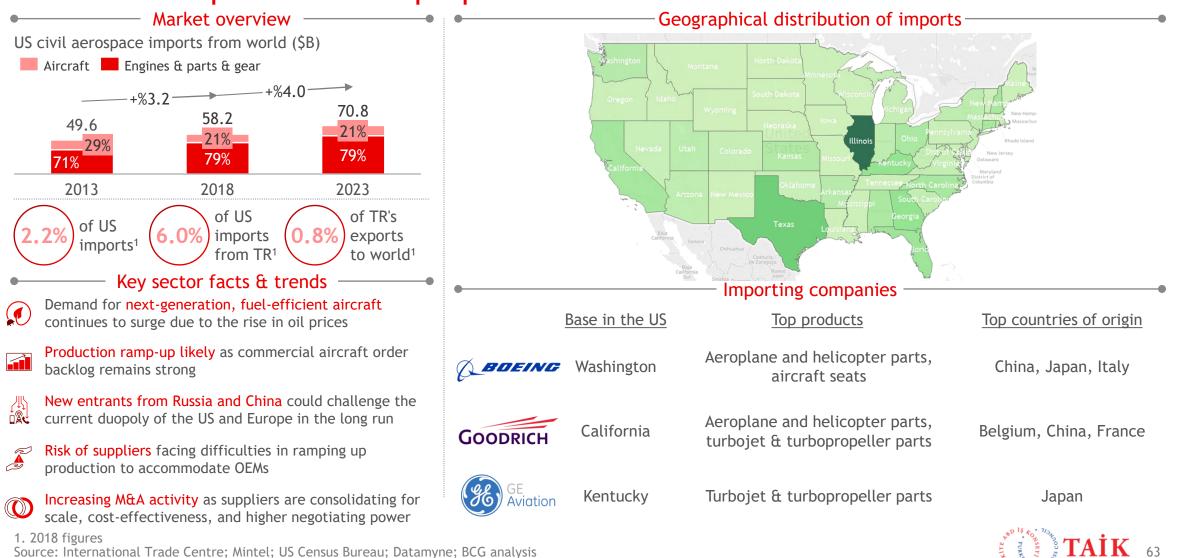
## Civil aerospace: Turkey needs to focus on R&D, human capital, and Industry 4.0 to reach its full potential



1. Turkey's 2030 baseline is projected 50% of 2011-2018 CAGR; targeted 2030 share of wallet (SoW) is two times the 2018 SoW Source: International Trade Centre; expert interviews; BCG analysis

Civil aerospace

## Civil aerospace industry is consolidating in the US and the production of aircrafts is expected to ramp-up



# Turkey's target markets are commoditized aircraft and engine parts where quality, price, and timely delivery are key success factors

Engines & engine parts and aircraft parts are prioritized; Turkey is competitive especially in aircraft parts Aircraft parts Market attractiveness Engines & engine parts Aircraft Launching gear

Product prioritization -

Competitive advantage

	oduct mi	x analy	vsis ——			•
Exports to the US (\$M)				$\mathbf{x}$		C×
Sub-products not exhaustive	Poland	China	S. Korea	Israel	India	Turkey
Engines & engine parts	1,037	548	265	215	103	318
😚 Turbojet & turbopropeller parts	969	302	199	158	70	284
Turbojets of a thrust >25 kN	-	128	5	-	17	14
Other gas turbine <sup>1</sup> parts	35	50	2	41	4	5
Aircraft parts	205	555	689	354	174	333
🔂 Aeroplane and heli. parts	134	532	685	345	171	320
Under-carriages and parts	69	19	3	2	1	4

#### Key purchasing criteria of OEMs

OEMs produce technologically critical components themselves and outsource commoditized components to establish a global supplier base





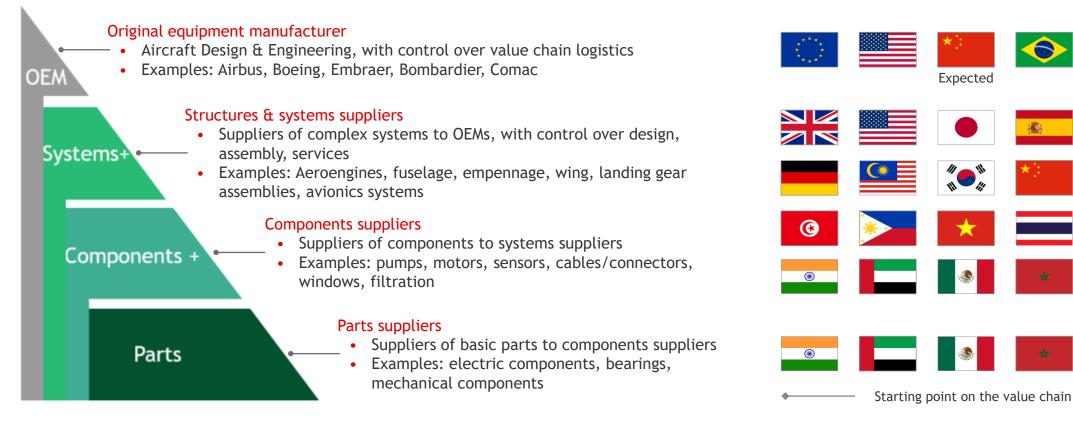
Timely delivery



**Example Countries** 

# Turkey currently competes in commoditized aircraft components; opportunity to increase export volume by moving up the value chain

### Segmentation Description





#### Civil aerospace

### Key recommendations for civil aerospace

## Continue investing in defense aerospace

Civil aerospace generally follows the developments in defense aerospace regarding aircraft components

Developing know-how and R&D capabilities quickly will bring Turkey up the value chain and increase its exports to the US

Turkey is on the right track with current defense aerospace programs

Increase investments in defense aerospace and R&D further accelerate on the way up the value chain

## Invest in education & skilled labor

Ease of finding skilled labor is very important for the quick development of Turkish aerospace industry

Current bottlenecks

- Engineering graduates lacking practical/sectoral knowledge
- Scarcity of vocational schools and qualified technicians/mechanics
- Scarcity of English speaking labor force

Update curricula collaboratively with private sector, invest in foreign language education

## Invest in Industry 4.0 in aerospace industry

Upgrade and automatization of production have many benefits



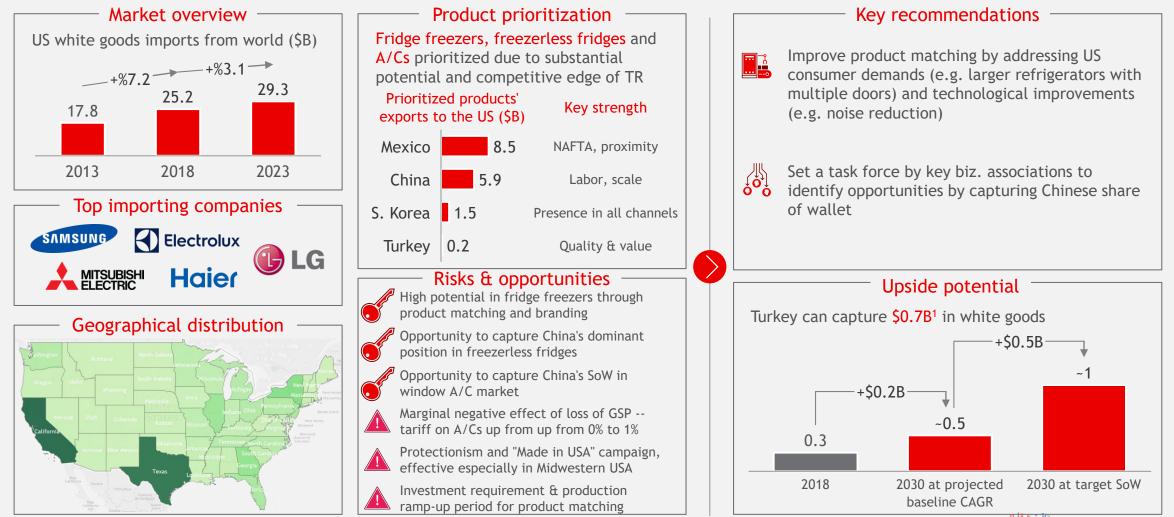
## ~\$1.5B total potential upside in civil aero.



1. Turkey's 2030 baseline is projected 50% of 2011-2018 CAGR; targeted 2030 share of wallet (SoW) is two times the 2018 SoW Source: International Trade Centre; expert interviews; BCG research & analysis

White goods

# White goods: Considerable market potential and right to win for TR in fridge freezers, freezerless fridges and A/C units

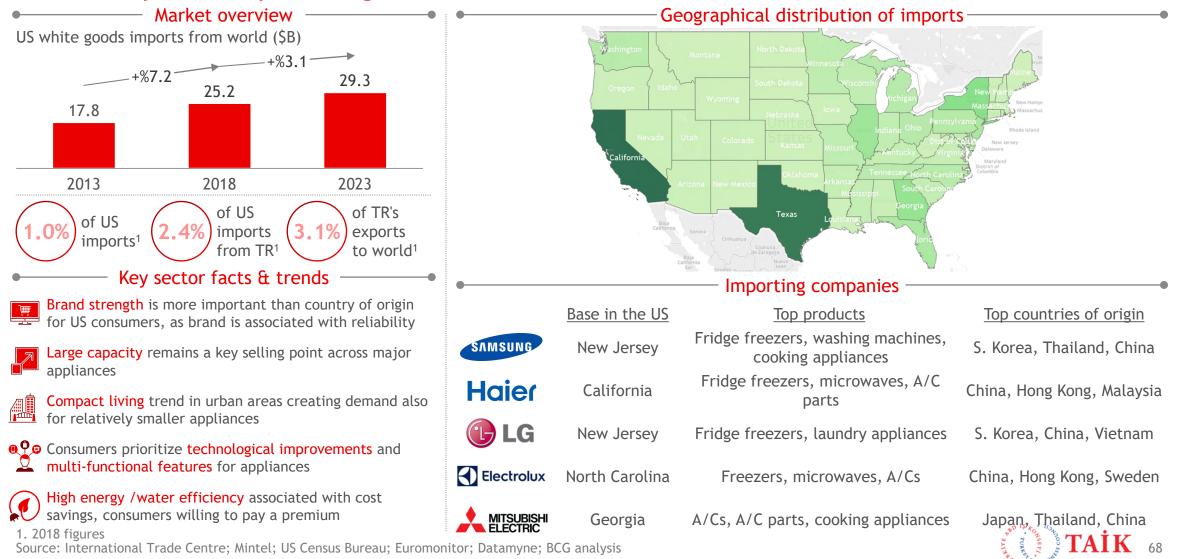


1. Turkey's 2030 baseline is projected at 50% of 2011-2018 CAGR; targeted 2030 share of wallet (SoW) is three times the 2018 SoW Source: International Trade Centre; expert interviews; BCG analysis



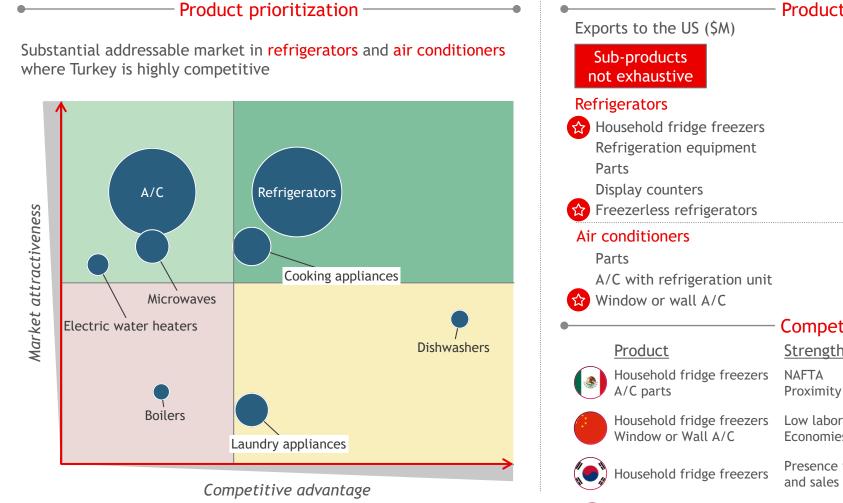
White goods

## Branding, large capacity, technological improvements, multi-functionality, and efficiency are key selling factors in the US



## Refrigerators and A/Cs prioritized products for Turkey

Turkish producers currently lag behind in product fit and brand strength

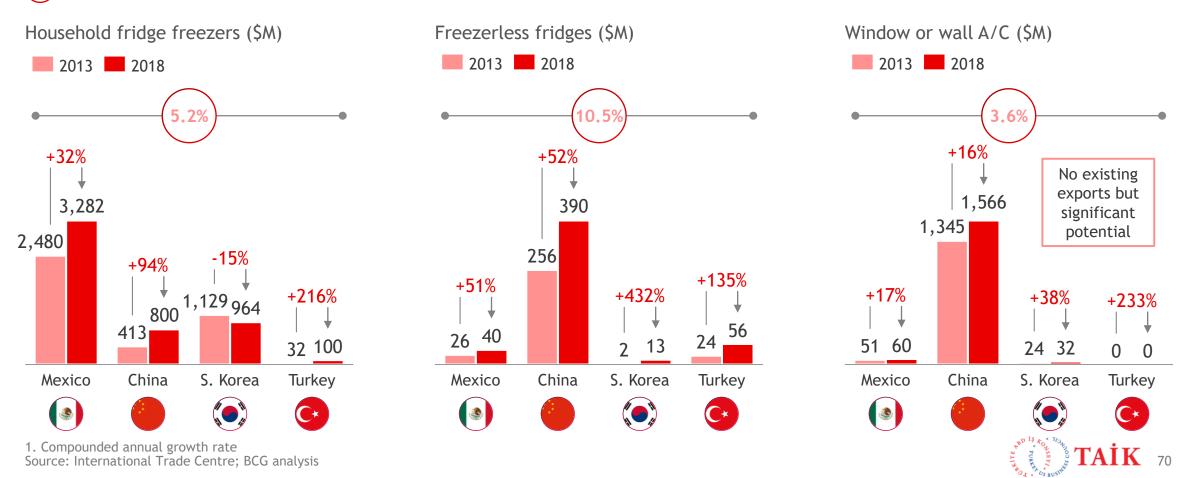


Exports to the US (\$M)	Product mix analys				
Sub-products not exhaustive	Mexico	China	S. Korea	Turkey	
Refrigerators	4,630	2,593	1,110	227	
Household fridge freezers	3,282	800	964	100	
Refrigeration equipment	618	416	33	0	
Parts	379	255	48	12	
Display counters	269	368	48	14	
> Freezerless refrigerators	40	390	13	56	
Air conditioners	3,834	3,292	346	3	
Parts	2,542	978	299	2	
A/C with refrigeration unit	853	494	11	0	
☆ Window or wall A/C	60	1,566	32	0	
	Competitive analys	is ——			
Product	<u>Strengths</u>	Wea	<u>knesses</u>		
Household fridge freezers A/C parts	NAFTA Proximity	Risin	Rising US' protectionism		
Household fridge freezers Window or Wall A/C	Low labor costs Economies of scale		Lower quality perception US-China trade relations		
Household fridge freezers Presence in all segments and sales channels			Lower quality perception Increased tariffs on exports		
Household fridge freezers	Household fridge freezers Quality & value-for-money High energy efficiency		Product mismatch Low brand strength in the US Distance to ogistice 69		

# Turkey's recent growth in exports of prioritized products shows that initial steps have been taken but further effort is required

Export performance of Turkey vs. key competitors in prioritized products

 $\times$  US total import market CAGR<sup>1</sup> (13-18) for a given product



# Mismatch between Turkish products and American consumer demand requires further commitment and investment focusing on the US market

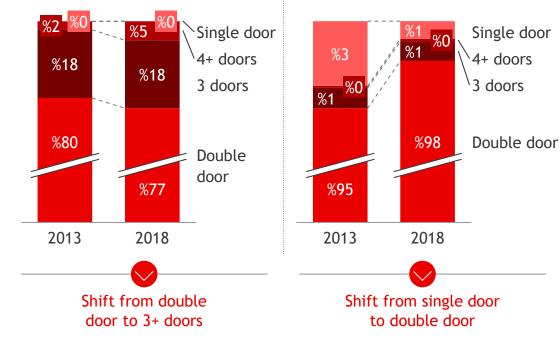
Trend towards larger fridge freezers with higher number of doors in the US; Turkey needs to adapt

Sales of household fridge freezers

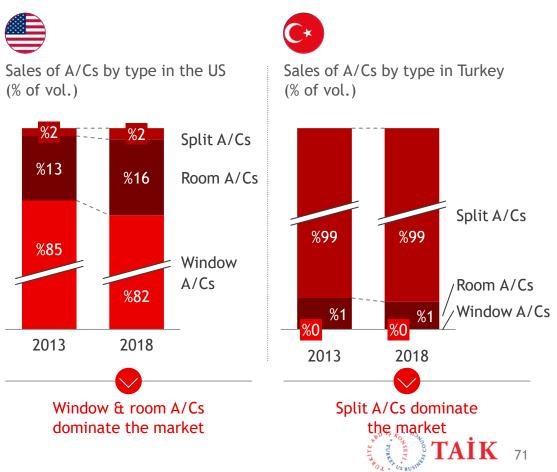
by format in Turkey (% of vol.)



Sales of household fridge freezers by format in the US (% of vol.)



Unlike Turkey, window and room A/Cs are common in the US; investments in Turkish production required



Source: Euromonitor; BCG analysis

Although some risks exist, opportunities should inspire Turkish exporters to focus on the US white goods market



## Risks



Marginal negative effect of loss of GSP; tariff on A/Cs up from up from 0% to 1%



Protectionism and "Made in USA" campaign, effective especially in Midwestern USA



Investment requirement & production rampup period; risk of losing opportunity to competitors such as Thailand and Malaysia



## **Opportunities**



Turkish white goods are high quality and good value-for-money; high potential in fridge freezers through product matching and effective branding and marketing



Although relatively smaller in market size, opportunity to capture China's dominant position in freezerless fridges, as Turkey currently holds the second place



Opportunity to capture share of wallet from China's dominance in the window A/C market by product matching and leveraging US-China trade developments





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## Key recommendations for white goods



### Key recommendations



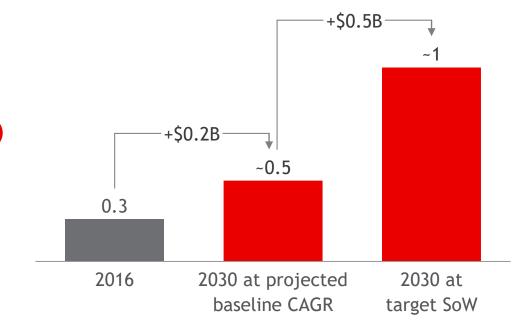
- Focus on product matching
  - Invest in manufacturing larger double door refrigerators, refrigerators with multiple doors and window A/Cs in order to match US market demands
  - Aim for technological improvements that American consumers give importance to, e.g. noise reduction, faster cooling cycles, even heat distribution that
  - Provide multifunctional features such as convertible compartments in fridge freezers



Set a task force by key biz. associations (e.g. BEYSAD<sup>2</sup> ) to identify opportunities by capturing Chinese share of wallet

- List sub-sectors and products to focus on
- Interact with key OEMs and potential buyers in the US market





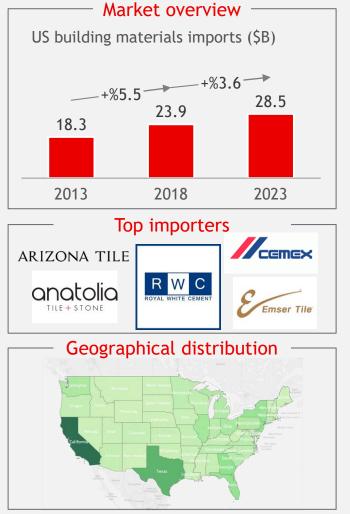
1. Turkey's 2030 baseline is projected at 50% of 2011-2018 CAGR; targeted 2030 share of wallet (SoW) is three times the 2018 SoW

2. BEYSAD (White Goods Suppliers Association)

Source: International Trade Centre; Mintel; Euromonitor; expert interviews; BCG analysis



## Building Materials: Strong position in cement & marble create opportunities; ceramic tiles shows potential

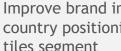






#### Key recommendations

Ensure access to import terminals in the east coast of the US for cement exports

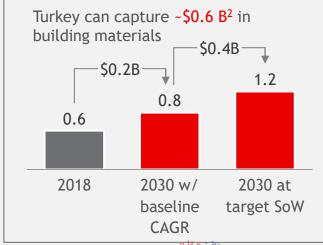


Improve brand image and country positioning in ceramic tiles segment



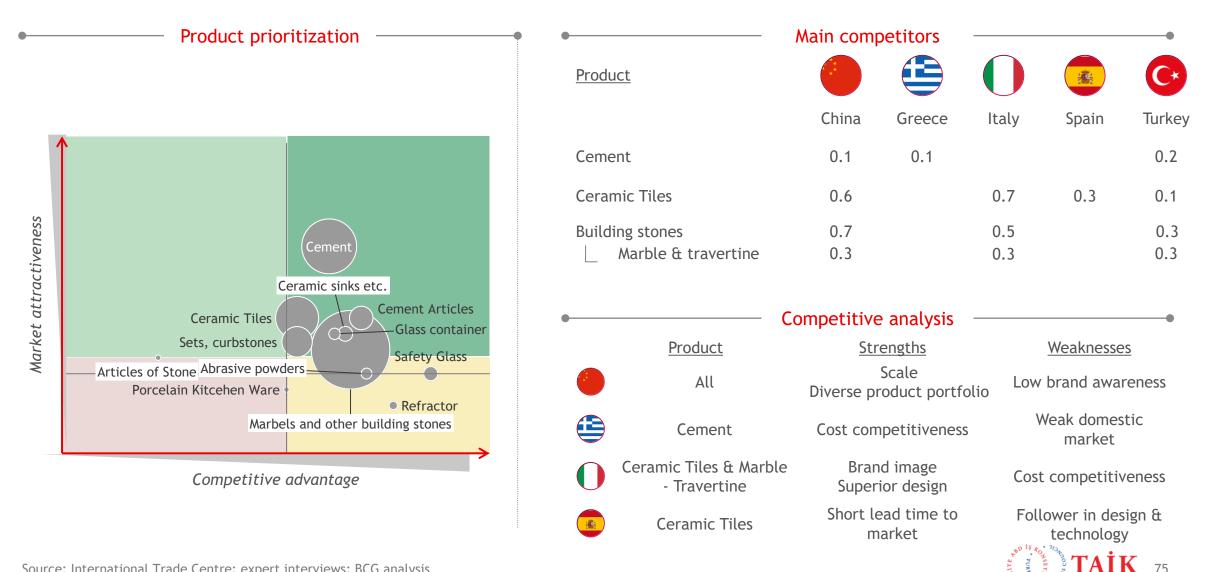
Attract US marble buyers sourcing from China

#### Upside potential



1. On 4-digit HS code level 2. Turkey's 2030 baseline is projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in projected at 50% of 2011-2018 segments in addition to baseline growth Source: International Trade Centre; expert interviews; BCG analysis

## Turkey lags behind Italy and Spain in country image and lead time



# Infrastructure boom and untapped potential in ceramic tiles presents main opportunities; expected economic downturn poses a risk



Risks



Building materials sector influenced heavily by economic activity. Likely economic downturn in the US would negatively affect imports



Increasing construction costs may halt construction growth; slowing down the building materials sector



## **Opportunities**



Infrastructure boom in the US expected to double US cement imports



Substantial room for growth in ceramic tiles exports to the US



Chinese marble exports up for grabs due to trade developments

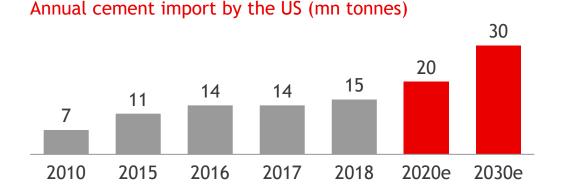
 natural stones sector is part of the products hit by recent 25% tariffs





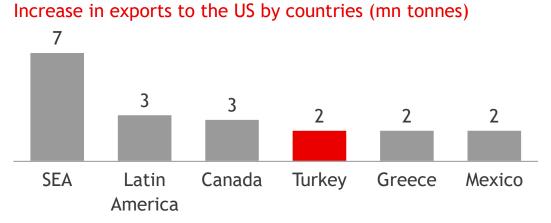
## US cement import will double by 2030 due to infrastructure boom

## Infrastructure investments will boost cement imports



- The US administration plans to invest ~ \$1 T in infrastructure investments creating additional demand
- Current industry utilization rate is ~80% and the likelihood of major greenfield investment estimated to be low, promising significant opportunity for imports

## Turkey is expected to export additional 2 mn tonnes p.a. by 2030



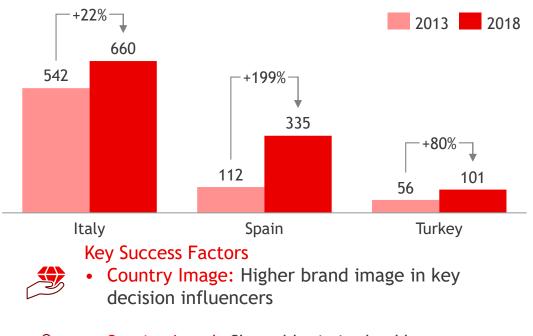
- Countries from SEA, Europe and Latin America will cover significant part of the cement supply gap
- Cement price level will rise due to the significant demand upkeep
- Access to terminals in the US is key to increasing exports



## Opportunity to capture share in ceramic tiles from Italy and Spain with enhanced product image; Chinese share is up for grabs in cost-competitive segment

## Grab share from Italy and Spain by focusing on product image & service level

Ceramic tiles import by US (USD mn)



 Service Level: Shared logistics backbone to service small batch orders with short lead times

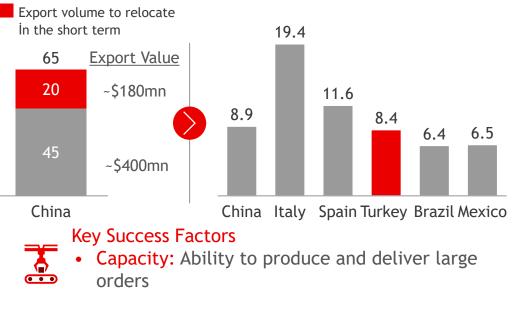
1. Country export product profiles should be further examined at IHS 10 product level Source: International Trade Centre; expert interviews; BCG analysis

Chinese ceramic tiles exports are up for grabs; Turkey's unit price provides good fit with Chinese exports<sup>1</sup>

Chinese Exports to US -2018 (mn sqm)

20

Average ceramic tile unit price - 2018 (\$k per thousand sqm)



• Quality: Consistency of quality in large order is the key differentiator among the buyers

## Key recommendations for building materials



### Key recommendations



Ensure access to import terminals in the east coast of the US for cement export

Relevant association (e.g. TCMB<sup>1</sup>) to set up a sector wide organization to act as a vehicle to
organize cement exports by pooling sector resources to gain access to terminals in the east
coast

Improve brand image and country positioning in ceramic tiles segment

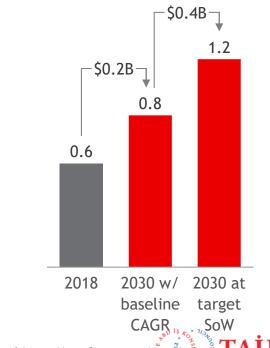
- Relevant biz. association (e.g. SERFED<sup>1</sup>) to set up a PR and marketing campaign targeting US architects to promote Turkish ceramic tiles
- Set up Turkish pavilion in ceramics fairs in the US with side events to showcase and promote Turkish ceramics and to ensure quality of representation by Turkish exhibitioners
- Establish design academy to train specialist designers for ceramic tiles sector
- Set up a structure to enable pooling logistics of smaller size orders from different producers in Turkey by US wholesalers



- Relevant biz. association (e.g TUMMER<sup>1</sup>) to identify buyers to target in the US market
- Organize induvial visits to key US buyers with sector players

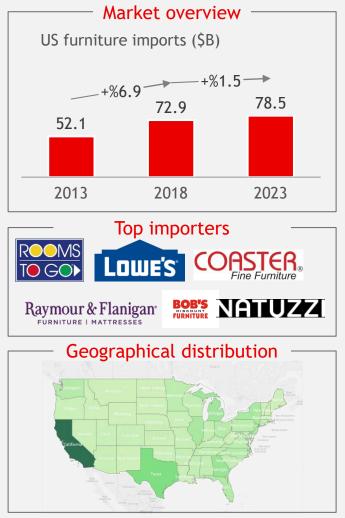


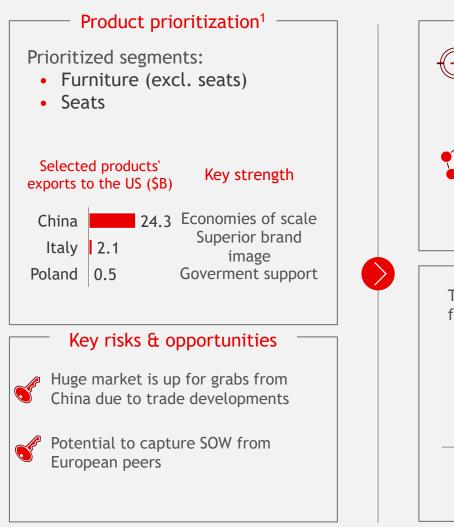
### Potential upsides

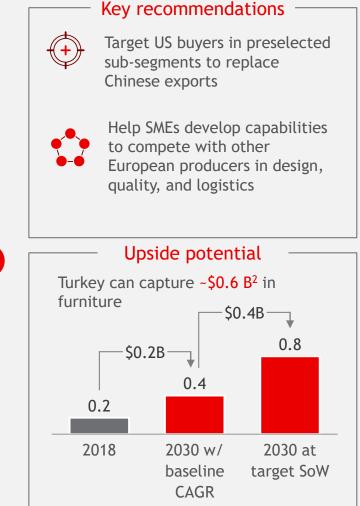


1. TCMB (Turkish Cement Manufactuers Association), SERFED (Turkey Ceramics Federation), TUMMER (Turkish Marble, Natural Stone and Machinery Manufacturers Association) **TATK** Source: International Trade Centre; expert interviews; BCG analysis

# Furniture: Turkey has a tiny share in a huge market; seats and furniture show some potential





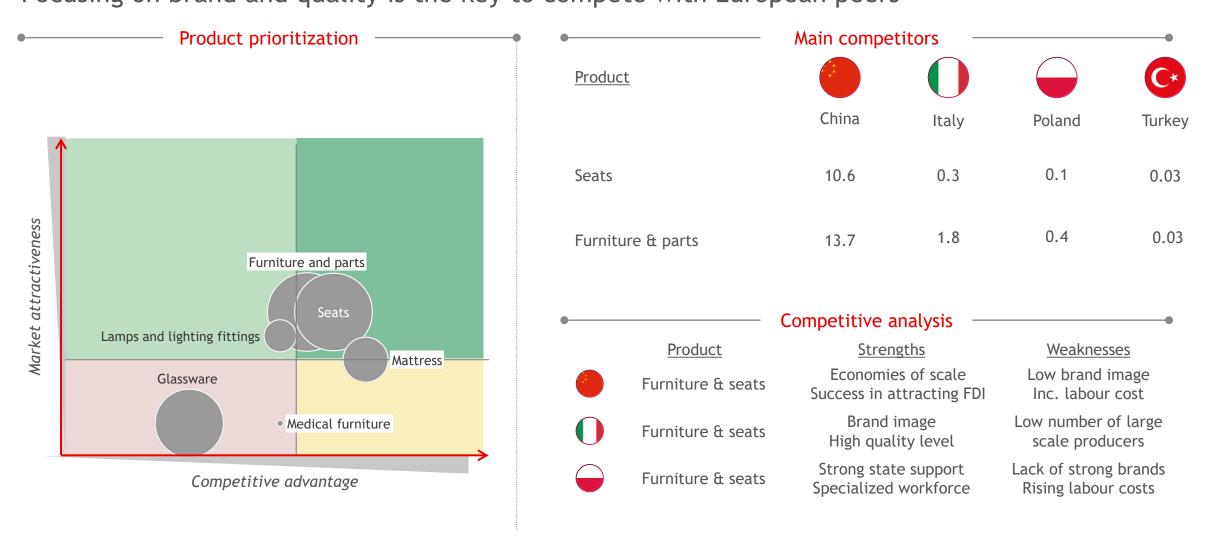


1. On 4-digit HS code level 2. Turkey's 2030 baseline is projected at 50% of 2011-2018 CAGR; additional upside potential is calculated based on the expected SOW capture in prioritized segments in addition to baseline growth Source: International Trade Centre; expert interviews; BCG analysis

Furniture

- -

### Turkey has substantial room to grow its exports in furniture and seats Focusing on brand and quality is the key to compete with European peers





## Key recommendations for furniture



### Key recommendations



- Target US buyers in preselected sub-segments to replace Chinese exports
  Relevant biz. association (e.g. TORID, MOSFED)<sup>1</sup> to set-up a working group to identify key products with potential to replace Chinese suppliers to the US market
- TAIK to help Turkish producers to reach out US buyers via site visits in both US and Turkey
- TIM to lead creation of targeted promotion campaign in key trade fairs to position Turkey as an alternative value for money segment to substitute China

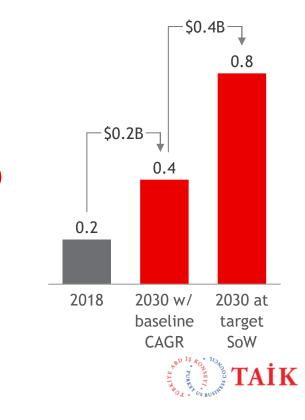


Help SMEs to develop capabilities to compete with other European producers

- Relevant biz. association (e.g. TORID, MOSFED) to set up a working group to identify customer preferences and trends
- Set up a structure to promote Turkish brands and furniture in the US via targeted PR Establish specialized programs under industrial design faculties for furniture design to improve local talent
- Create joint local logistical solutions to enable SMEs fulfil small-scale orders with shorter lead • time

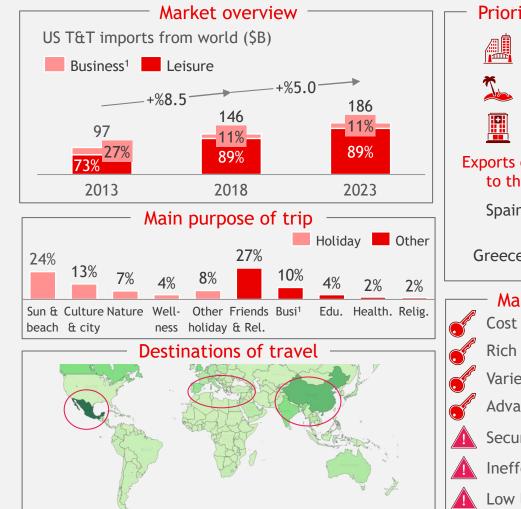


### Potential upsides

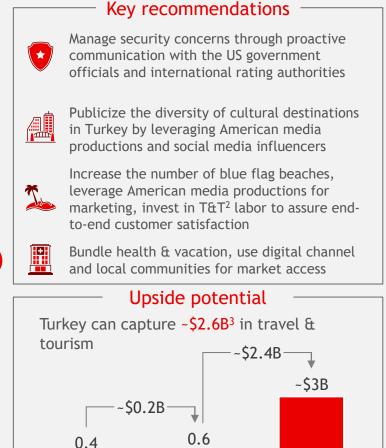


2P

## Travel & tourism: Significant upside potential in culture, sun & beach, and healthcare tourism







2030 at projected

baseline CAGR

2018

1. Includes conventions, conferences, trade fairs 2. Travel & tourism 3. Turkey's 2030 baseline based on 3% CAGR, target based on Turkey's fair share in US imports (1,1%) Source: International Trade Centre; expert interviews; BCG analysis

**K** 83

2030 at

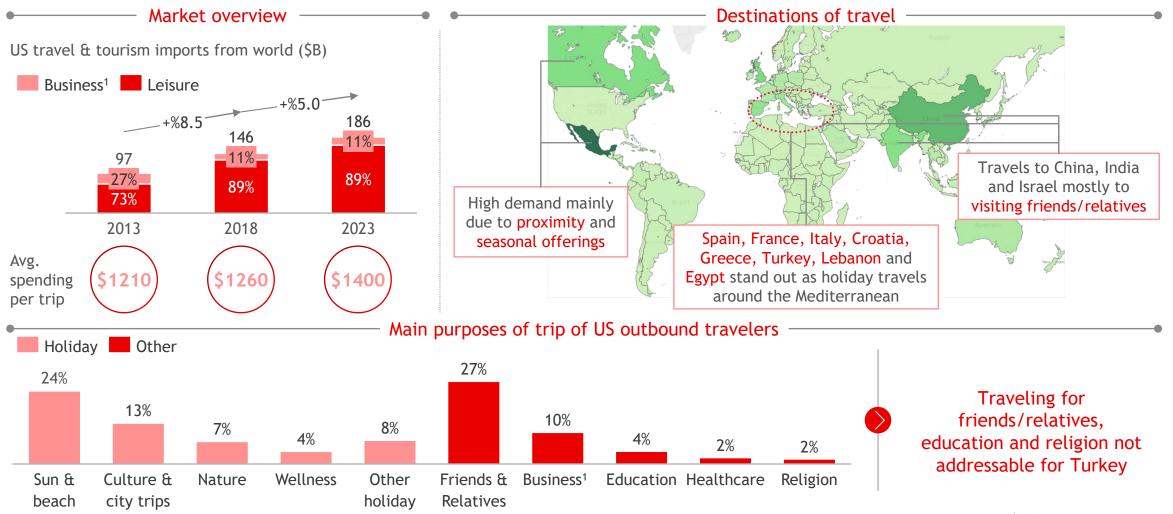
target SoW

Travel & tourism

**AIK** 84



# Turkey competes primarily with Mediterranean countries in relevant T&T categories



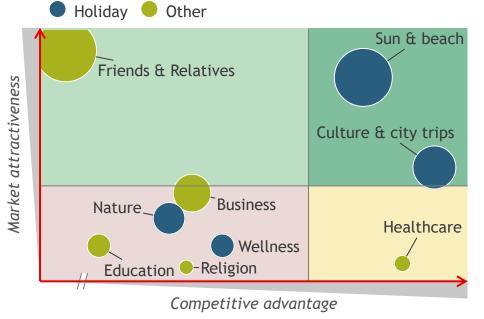
1. Includes conventions, conferences, trade fairs

Source: Euromonitor; US National Travel & Tourism Office; Statista; BCG analysis

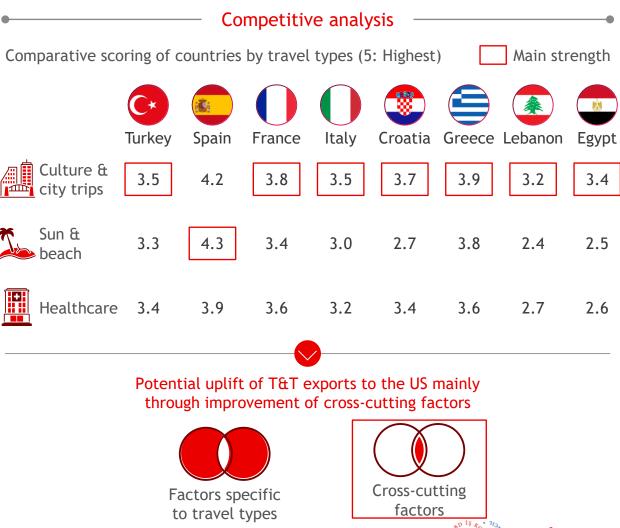
Travel & tourism

## Turkey can outperform its competitors in culture & city, sun & beach, and healthcare tourism by improving factors affecting all travel types

- Prioritization of travel types
- Very high potential in culture & city trips through key improvements; Turkey's strongest suit
- Substantial addressable market in sun & beach tourism where Turkey is competitive
- Turkey's competitive advantage could be leveraged to capture the small but niche healthcare tourism market



Source: Euromonitor; US National Travel & Tourism Office; Statista; Global Wellness Institute; World Economic Forum; BCG analysis



R

## Although Turkey has strong fundamentals in main T&T types, non-satisfactory performance in cross-cutting factors prevent Turkey from achieving its full potential



## 

Culture & city









#### Cultural richness

- Number of cultural World Heritage sites
- Number of Intangible Cultural Heritage elements

#### **Richness in offerings**

- Number of blue flag beaches
- High number of 5-star hotels and resorts (~600), third in the world after China and Mexico; and outperforming Spain, Italy and Greece
- Mainly located in Antalya and sun & beach destinations
- Healthcare service level
- Physician quality
- A+ hospital infrastructure and tech.
- Cost-effectiveness





Safety and security e.g. index of terrorism incidence



#### branding to attract tourists International openness

e.g. visa requirements

**Price competitiveness** e.g. purchasing power parity

#### Air transport infrastructure



e.g. available international seat-

#### Tourist service infrastructure

e.g. number of hotel rooms



Source: World Economic Forum; BCG research & analysis



# Strong potential in Turkey's T&T sector can be achieved with effective PR and targeted marketing

Primary areas of improvement for Turkey	Group average	<b>Turkey</b>	Spain	France	Italy	Croatia	Greece	Lebanon	Egypt
Safety and security perception	2.8	1.6	4.5	3.0	3.0	4.3	3.5	1.3	1.2
T&T marketing and country PR	3.7	2.5	4.9	4.2	2.8	2.7	4.6	4.1	3.9
International openness	3.5	3.5	3.8	4.5	4.2	4.3	4.1	2.1	2.0
Price competitiveness	2.7	3.0	2.1	1.5	1.4	2.1	2.4	4.2	5.0
Air transport infrastructure	4.0	4.6	4.8	4.6	4.3	3.5	4.3	2.6	3.3
Tourist service infrastructure	4.1	3.8	5.0	4.5	4.7	4.9	4.5	3.1	2.3

1 Travel & tourism Source: World Economic Forum; BCG research & analysis



0 P

## While low performance on cross-cutting factors pose risks, Turkey's strong fundamentals promise great opportunities



Insuffiecnt skilled labor in T&T<sup>1</sup> potentially leading to customer dissatisfaction



city

Sun &

beach



Very limited market access

1. World Economic Forum Competitiveness Index, "Ease of finding skilled employees Source: BCG analysis



## **Opportunities**



Very rich in culture and history with multiple alternatives

Increased cost competitiveness due to currency depreciation



High uplift potential in the number of blue flag beaches in Turkey

High cost competitiveness due to currency depreciation and excessive supply of rooms



Advanced health infrastructure and hospitals, well-trained doctors

Cost-efficient healthcare services, especially compared to the US



Turkey needs to focus on effective communication with relevant authorities to address security perception and leverage new channels to publicize its rich and diverse offering



Proactively communicate reduced security risks to US government and international rating authorities



US Bureau of Consular Affairs Currently classifies Turkey as a risky travel destination



#### International SOS

Currently classifies Turkey's travel security risk as medium



#### World Economic Forum Ranked Turkey 116<sup>th</sup> in safety and security among 136

countries in its latest 2017 report



Leverage strong Turkish brands, tourism partnerships and media to improve T&T marketing and country PR



#### **Turkish Airlines**

Leverage the Turkish Airlines brand for marketing and cross-sell tourism with connecting flights



NETFLIX

#### US tour operators

Partner up with the biggest tour operators in the US to attract large groups

#### Netflix

Contact Turkey representative of Netflix in order for some productions to take place in Turkey

#### MTV Awards

Proactively pursue to host MTV Awards to reach millions of Americans

#### Celebrities & social media influencers

Reach out to celebrities & social media influencers and host them **TA** 



# Healthcare tourism focus: Turkey should attract more tourists from the US for healthcare services



#### Sizeable and growing healthcare tourism in the world:

- Market size of \$37 billion and expected CAGR of 20% for the foreseeable future
- Medical tourism expected to exceed \$100 B in revenue within the next five years

#### Reversing trend from developed to developing world:

- Previously, influx was from developing to developed world for higher quality healthcare
- Healthcare tourism industry is increasingly dominated by affordable healthcare in developing countries



#### Turkey has significant potential in affordable healthcare tourism:

- High-quality affordable healthcare; among top 10 health tourism destinations in the world
- ~\$1.5 B annual revenue from healthcare tourism



#### US is an attractive market for Turkey, yet its potential unfulfilled:

- Most expensive healthcare system in the world and the largest supplier of healthcare tourists
  - ~\$10 K per capita in healthcare spending
  - 1.4 M healthcare tourist outflow per annum from US
- Turkey has a relatively low market penetration in US healthcare tourism
  - US ranks only 24<sup>th</sup> in country of origin for healthcare tourists in Turkey



Travel & tourism

## Healthcare tourism focus: Turkey is one of the most cost-competitive countries

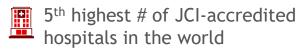
India is the only country with lower costs but cannot match Turkey' service level

Va	lues in \$K		USA	<b>C</b> Turkey	Competitor Average	Mexico	Costa Rica	Colombia	India	Malaysia	Thailand
~	Scardiac	Heart Bypass	123,000	13,900	17,300	27,000	27,000	14,800	7,900	12,100	15,000
		Angioplasty	28,200	4,800	8,200	10,400	13,800	7,100	5,700	8,000	4,200
r and a second se		Hip Resurfacing	28,000	10,100	12,000	12,500	13,200	10,500	9,700	12,500	13,500
less Orthopaedic	Knee Replacement	35,000	10,400	11,500	13,000	12,500	15,000	6,500	8,000	14,000	
	Cosmetic	Rhinoplasty	6,500	3,100	3,300	3,800	3,800	4,500	2,400	2,200	3,300
		Hair Transplant	12,000	1,500	3,750	4,000	4,000	2,000	1,500	7,000	4,000
		Lasik	4,000	1,700	2,200	1,900	2,400	2,400	1,000	3,450	2,310
Ocular	Cataract	3,500	1,600	2,000	2,100	1,700	1,600	1,500	3,000	1,800	



## Healthcare tourism focus: US promises significant opportunities for Turkey

### Turkey is globally competitive in healthcare tourism...



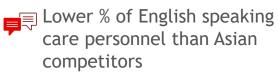
Among highest healthcare operation success rates in developing world



Cost-competitive in majority of the 20 most common ops.



Attractive holiday destination due to variety of travel sights ...but faces competitive disadvantages when serving American patients



No well-developed medical



- Further away from the U.S. than Latin American competitors
- Not covered in most U.S. \*= health insurance systems

Turkey should sharpen its competitive edge by capitalizing on strengths and addressing weaknesses

Design language training programs for care personnel



Develop medical malpractice litigation

Lobby U.S. insurance companies to cover operations in Turkey



Design travel packages combining leisure with healthcare services



## Key recommendations for travel & tourism



## Key recommendations

Manage security perception through proactive communication with the US government and international rating authorities

Increase and diversify US citizens' awareness on cultural & historical destinations in Turkey (e.g. Göbekli Tepe, Sumela Monastry) by leveraging American media productions and social media influencers

Increase marketing effectiveness by utilizing THY synergies, partnering with US tour operators, addressing US media productions and social media

Place effort on increasing the number of blue flag beaches

Create an end-to-end tourism ecosystem assuring safety and quality from arrival to departure



Cross-

cutting

factors

city

Sun &

beach

Culture &

re Fffective go-to communities a and marketing transplantation

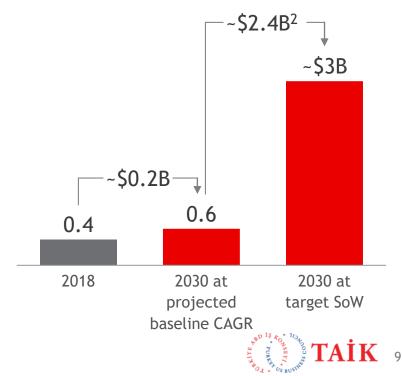
Effective go-to-market strategy targeting local communities and utilizing digital channels for promotion and marketing of especially dental health and hair transplantation; and bundle with vacation

1. Travel & tourism 2. Turkey's 2030 baseline based on 3% CAGR, target based on Turkey's fair share in US imports (1.1%) Source: BCG analysis



## **Potential upsides**

Room for  $\sim$ **\$2.6** B<sup>2</sup> additional export in travel & tourism



## Even though less sizeable, other opportunities also exist for Turkey in the US market



Edible agricultural products

- Strong comparative advantages in high value add products (nuts, figs, dried fruits etc.)
- Growing demand in the US market



Computer Games / software

- Niche services market growing in the US market
- Growing competence in Turkey
- Strong incentive structure stimulates TR market capabilities



Marine vehicles

- Increasing comparative advantage in Turkey
- Potential to serve US market
- Other competitors in the Mediterrenean region



Food & beverages

- Turkey has strong advantage in packaged food and beverages
- Better go-to-market and logistics required for enhanced market access in the US



# Insights from key sectors indicate that Turkey needs to put more effort on multiple fronts to capture rising opportunities

Multiple opportunities exist for Turkey to be seized in the US market...



Seize opportunities rising from developments in US-China trade relations



Capture market share from Europeans with balanced price, design, quality, and brand/country image



Utilize opportunities in sub-segments / products where Turkey has a comparative advantage but has not achieved its fair share

## ... which require extensive progress in four major areas



Turkish firms need to have better business ties and go-to-market strategies. Access to the US market needs to be facilitated via business associations and government via targeted programs



Turkey's country image needs to be improved via targeted campaigns to polish brand image of Turkish products and services



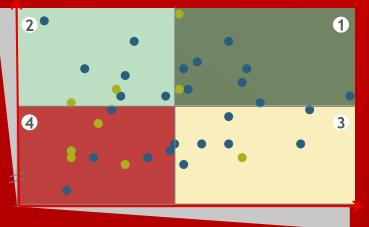
Turkey needs to attract more FDI (from the US and other countries) to better engage with global value chains, and increase its exports to the world and to the US



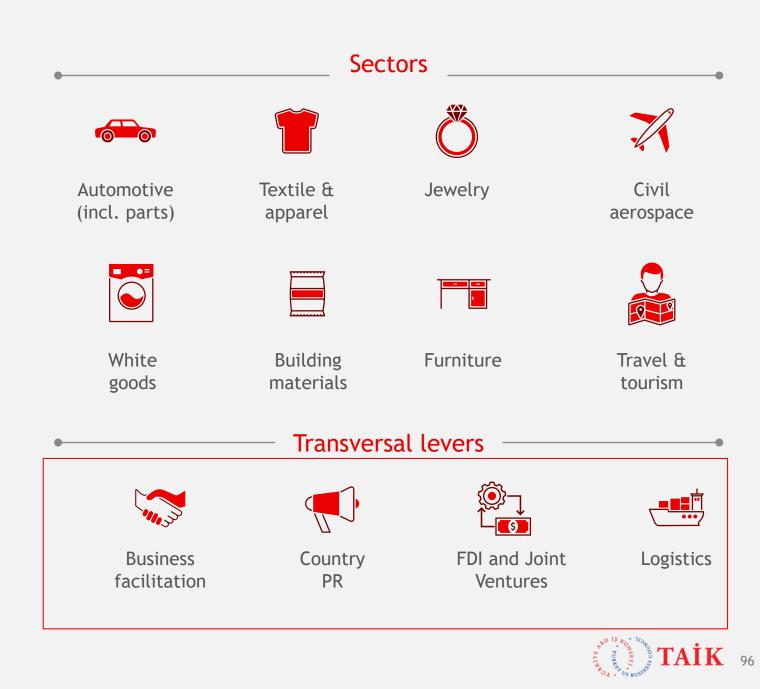
Turkey needs to optimize its logistics structure to better serve to the US market



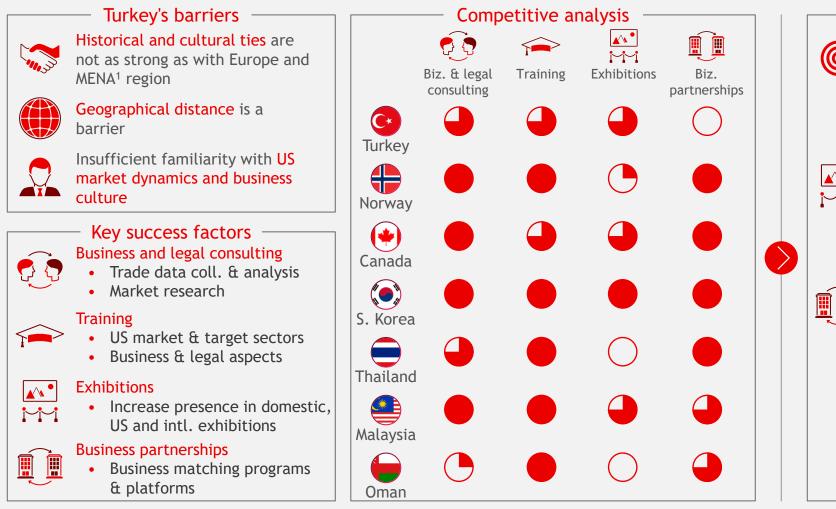
## We detailed selected sectors and transversal levers to increase Turkish exports to the US



Competitive advantage



## Business facilitation will help the Turkish business community better penetrate into the US market



#### Key recommendations



Prepare a tailored business facilitation strategy for the US market including US-specific consulting, training, exhibition and partnership strategy



Promote national brand in international exhibitions via culturally-themed booths to market Turkish design and quality features

Improve business partnership facilitation via:

- Expanding the Turkish Trade Centers both geographically and functionally -to be decided after sectoral meetings
- Improve capabilities and capacity of the Turkish commercial service / representation in the US
- Encourage US and Turkey Eximbanks' collaboration



1. Middle East and Norht Africa Note: List of topics not exhaustive Source: BCG research & analysis



## Existing barriers in the US market can be overcome through targeted programs

## Major barriers impede the Turkish business community's active presence in the US market



Historical and cultural ties with the US are not as strong as with Europe and MENA region

- Smaller Turkish community in the US
- Turkish firms and brands are less known in the US
- No FTA or CU (e.g. EU Customs Union)



#### Geographical distance is a barrier

- Costs of flying to the US, and travelling within the wider geography of the US
- Time zone difference is a challenge for handling operations



## Insufficient familiarity with US market dynamics and business culture

- Doing business with the US firms (e.g. markets, potential business partners, establishing JVs, attracting FDI)
- Legal requirements

## Turkish exporters to the US can be supported through multiple means



#### Business and legal consulting

- Trade data collection and analysis
- Comprehensive market research
- Tailored biz. and legal consulting

#### Training

- On the US market and target industries
- On business and legal aspects



#### Exhibitions

- Increase presence in domestic, US, and international exhibitions through
  - Financial support
  - Logistic services
  - National image promotion booths

#### Business partnerships

- Finding business partners
- Business matching programs
- Electronic platforms 🔊 👯



## Summary: Country overview of export facilitation methods

Business partnership programs emerge as the key improvement area for Turkey

V Topic applies	to country	C		(+)				
	Framework Topic	Turkey	Norway	Canada	South Korea	Thailand	Malaysia	Oman
Busines	Market research	<b>V</b>	V	<b>V</b>	V		<b>V</b>	Ø
🄁 🖓 legal	Business consulting	V	V	V	V	V	V	
consulting	Legal consulting	V	V	$\checkmark$	V	V	V	
	Target country 101	V	V	V	V	V	V	V
	g Sector/market trainings	V	V		V	V	V	V
	SME basic skills trainings	V	V	$\checkmark$	V	V	V	V
	Financial support	V		V	V			
Exhibit	ion Logistic support	V	V	$\checkmark$	V		V	
• • •	National image promotion				V		V	
Business partner- ships	Potential biz. partner search		V	V	V	V	V	V
			V	V	V	V		
	Biz. matching e-platforms		V	V	V	V	V	V

1. Key topics addressed within each country's framework Note: List of topics not exhaustive Source: BCG research & analysis





## South Korea stands out in the comprehensive variety of its export promotion policies



# Promotion of linkage

Business clusters encourage collaboration among academia, SMEs, and large firms

Support SMEs entering foreign markets by utilizing large firms' distribution networks



## Focus on SMEs

Legal syst. protects and promotes SMEs

Entire ministry for SMEs and start-ups

KIBO<sup>1</sup> guarantees lending to tech SMEs Export insurance

Comprehensive export insurance by K-SURE<sup>2</sup>

Import insurance to secure resources crucial for exports

Among highest export insurance utilization rates in world (30%)

## Korea Eximbank

# Fiscal incentives

Extensive duty drawback scheme

Generous export credit mechanism thru EXIM<sup>3</sup>

EPZs<sup>4</sup> with less regulations

## Global presence

kotra

120+ KOTRA<sup>5</sup> offices in 86 countries, providing market research, consulting, and buss. matching services

Logistic & financial support for int'l exhibs

#### 관세청 KOREA CUSTOMS SERVICE 1878

# State-led digitization

Mandatory electronic issuance of all traderelated documents

Electronic customs system

Online training programs for exporters



# The German Center is a business incubator that offers extensive management and logistic support around the world

Founded by LBBW and Bayern LB<sup>1</sup>, the two largest regional state banks in Germany, German Center positioned as a commercial base for the German Companies in export markets



## Business support

#### Business advising

- GERMAN CENTR
- Market entry and start-up consulting
- Legal consulting
- Sparring partner for existing businesses
- Financial support and advising through LBBW and Bayern LB<sup>1</sup>





#### Event organization

- Event ideas and management
- Digital advertising
- Interpretation services
- Technical support
- Catering services



#### Network facilitation

- Exchange platforms
- Networking events
- Business matching services
- Fostering relationships with experts
- Connecting with contacts in gov't agencies



#### Space provision

- Functional spaces, e.g. offices, exhibition areas, and parking lots
- Social spaces, e.g. cafes, reception halls, and meeting rooms
- Residential spaces, e.g. apartments



# Turkey needs to adopt a tailored approach for export promotion in the US market



Prepare a tailored business facilitation strategy for the US market including US-specific consulting, training, exhibition, and partnership strategies



**Promote Turkey's national brand in international exhibitions** via culturally-themed booths to market Turkish design and quality features



Improve business partnership facilitation via:

- Expanding Turkish Trade Centers both geographically and functionally having them serve as box office, meeting and working space, display and storage center in the US
- Improve capabilities of the Turkish commercial service / representation in the US (research and engagement staff for key sectors, enhanced analytical and communication services)

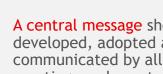


**Country PR** 

## Country PR activities will improve Turkey's image in the US and contribute to its exports

Key success factors &	Comparative scoring of countries (5: Highest) Competitive analysis									
Turkey's barriers	C	$\bigcirc$				<b>(y</b> ) <b>(</b> )	$\bigcirc$			
	TUR	POL	CZE	ROU	HUN	IND	THA	VNM	KHM	
Country brand strategy	1.6	4.1	1.3	4.0	3.4	2.6	3.0	1.9	1.5	
Business environment	3.2	3.1	3.1	2.8	2.1	2.4	3.7	3.0	1.3	
Diplomatic engagement	4.7	3.7	3.1	1.0	3.4	4.3	2.5	2.6	1.2	
Cultural influence	3.5	2.8	2.5	2.1	2.6	3.5	4.0	2.4	1.0	
Education & skilled labor	2.2	3.7	4.1	2.6	3.3	2.5	3.8	3.9	1.8	
Digital capabilities	2.9	3.7	4.3	3.3	3.4	1.7	3.3	2.7	2.0	
Safety and security perception	1.6	3.6	4.1	3.9	3.7	1.7	1.5	3.3	2.4	

Source: World Economic Forum; 2019 Fragile State Index; Lowy Institute; BAV Group; BCG research & analysis



A central message should be developed, adopted and communicated by all entities, creating a coherent country image.

Key recommendations



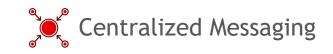
Targeted campaigns to address Turkey's image in the US and to enhance awareness of national brands. This should be orchestrated by the Ministry of Trade with relevant biz. associations and other key stakeholders



Innovative use of digital and alternative channels for country PR utilizing digital influencers, international awards and events, Netflix and Hollywood films, Turkish airlines etc.



Improving country image requires strong communication and marketing efforts





Theme Description A central message is adopted and communicated by all entities, creating a coherent country image

- Country's core message
- Key activities
- A clear, unified and simple articulation of the "collective" interest
  - Influence international perception of country

Targeted campaigns are to be planned to espouse the country's core message and influence its image

- Identify gaps in domestic and international opinion and target groups to be addressed
- Strategize to convey positive image and influence perception
- Track performance of campaigns

Campaign Planning and Coordination

Campaign Performance Tracking



Associated Functions Strategy Development

Narrative Development (also through international hubs)



# Presence of governmental bodies responsible for the development and conveying of a coherent country image is essential for effective country PR



### Centralized messaging



#### Poland's centralized messaging strategy

- The Government Information Center (GIC) within the Chancellery of Prime Minister (CPM) handles communication, whereas the "social communication strategy" is defined by the Secretary of State, also under the CPM
- GIC plays a reactive role, as its role is confined to working for and answering to government spokespersons and the Secretary of State



#### Targeted campaigns





Wo Ideen sich verbinden

DEUTSCHLAND + BRASILIEN

### "German Year" in Brazil

- Survey to identify current negative stereotypes, select stereotypes to address (e.g. "Germans are only good at manufacturing")
- Targeted initiatives such as events and social media competitions (e.g. highlighting relatively unknown German companies in non-manufacturing sectors)
- Targeted mainly well-educated young population (students and young professionals)
- Collaborated with German embassy to establish contacts with local partners
- Contracted with German PR firm that set up partnerships with Brazilian media outlets





# Countries have innovatively utilized digital channels in order to promote their image globally



## 50% increase in arrivals to New Zealand since the *Lord of the Rings*

- Currently, tourism is New Zealand's second largest industry, after dairy
- The movie industry is estimated to be ~NZD\$3 billion, of which 80-90% is contributed by the North American productions



## Georgia's strong presence on international channels

- Special issue for Georgia by National Geographic
- Showcasing of Georgia on international television programs such as CNN's "Georgia - Making Business Easy" and "9 Reasons to Visit Georgia Now"

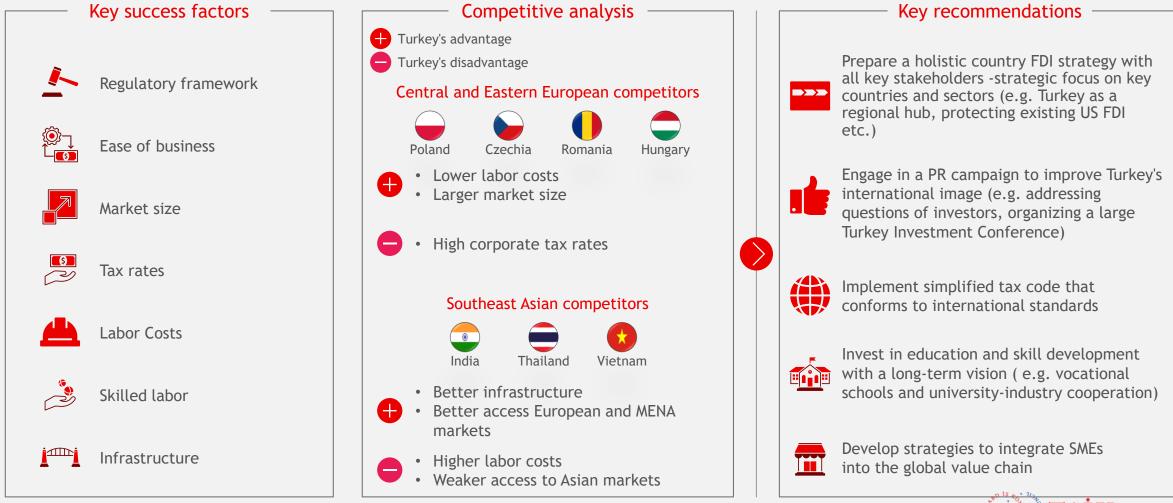


#### Estonia's "The Stress Buster" video campaign

- Promotion of Estonia's nature: "Let Estonia's pure nature relieve your stress."
- Filmed in many European cities including Stockholm, Oslo, Berlin, London
- Videos available on YouTube



# FDI & JV attraction will help increase Turkish export competitiveness



Sources: 2019 Fragile State Index; World Justice Project 2019 Rule of Law Index; 2019 Ease of Doing Business Rankings; Trading Economics Credit Ranking Aggregate INF 2019 World GDP Ranking; KPMG 2017 Tax Table; IMF 2019 nominal GDP per capita; World Economic Forum Competitiveness Index, "Ease of finding skilled employees World Bank, Logistics Performance Index; BCG analysis

### FDI inflow and JVs increase overall export competitiveness

FDI & JVs help stimulate economic growth and export capacity via...



Integrating local firms into global production networks



Accelerating technology transfer



Advancing worker training and skills development



Strengthening export competitiveness

### ...but do not always increase trade volume between two countries



- FDI & JVs usually aim:
- to access the large domestic market
- to serve nearby markets



FDI & JVs rarely intend/lead to exporting back to investor country:

- Resource-extraction as an
- exception (e.g. mining)
- Global value chain integration



FDI & JVs hence do not directly contribute to the volume between two countries, but contribute to the overall export competitiveness

# Hence, Turkey should follow a holistic FDI strategy focusing on



Maximizing overall FDI inflow and JV attraction rather than only from the U.S.

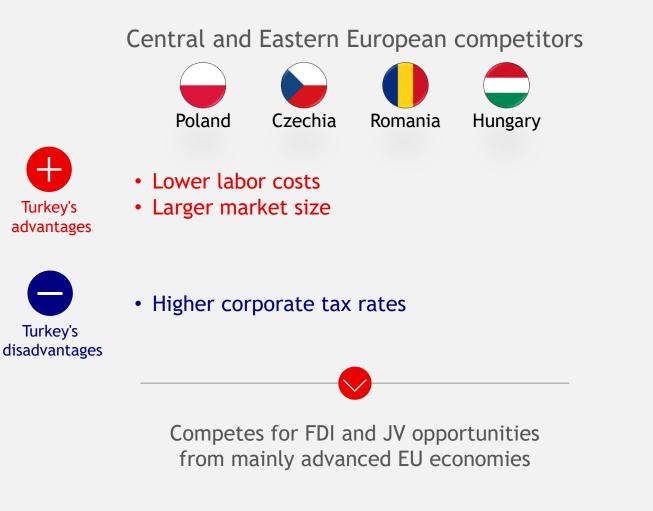


Increasing overall export competitiveness and not just intending to boost trade with the US





# Turkey competes with both Central/Eastern European and SEA countries for FDI inflow and JVs



#### Southeast Asian competitors



- Better infrastructure
- Better access to European and MENA markets
- Higher labor costs
- Weaker access to Asian markets

Competes for FDI and JV opportunities likely to arise from the US-China trade developments





# Turkey has strong fundamentals to attract FDI and JVs, but needs to focus on improvement areas

1

Comparative scoring of countries (5: Highest)

1

		Group Average	C* Turkey	Poland	Czechia	Romania	Hungary	) India	Thailand	Vietnam
<u>_</u>	Regulatory framework		1.9	4.1	4.3	4.0	3.3	3.0	2.8	2.7
	Ease of business	3.5	3.9	4.1	4.1	3.6	3.6	3.0	4.3	3.2
	Market size	3.9	4.5	4.4	3.8	3.8	3.5	4.8	4.3	3.8
	Tax rates	3.4	2.9	3.7	3.7	4.0	4.7	1.0	3.6	3.6
	Labor Costs	2.4	1.9	1.5	1.1	1.6	1.5	3.8	2.2	3.5
	Skilled labor	2.5	2.6	3.5	2.8	1.5	1.5	3.7	2.6	2.6
<u>i</u> ann i	Infra- structure	3.5	4.0	3.9	4.2	3.4	4.1	3.4	3.7	3.5

Sources: 2019 Fragile State Index; 2. World Justice Project 2019 Rule of Law Index; 3. 2019 Ease of Doing Business Rankings; 4. Trading Economics Credit Ranking Aggregate; 5. IMF 2019 World GDP Ranking; 6. KPMG 2017 Tax Table; 7. IMF 2019 nominal GDP per capita; 8. World Economic Forum Competitiveness Index, "Ease of finding skilled employees"; 9. World Bank, Logistics Performance Index; BCG analysis





#### Key recommendations for FDI and JVs



Prepare a holistic country FDI strategy with all key stakeholders aligning on key countries and sectors



Engage in a PR campaign to improve Turkey's country image



Simplify tax code to conform to international standards



Invest in education and skill development with a long-term vision, e.g. increasing the number and quality of vocational schools for blue collar workers, and improving university-industry cooperation



Better integrate SMEs into the global value chain through business facilitation



■**■**■"|

### Logistics optimization will help the Turkish business community better serve to the US market

Turkey's barriers



Geographical distance to the US



Development opportunity international logistical capabilities



Collaboration opportunity among sector participants

#### Key success factors



Efficient infrastructure and rules & regulations



Quality logistics services with competitive pricing



Timeliness of shipment & tracking transparency



India has launched an integrated logistics action India plan driving logistics dev. and efficiency in the country

Success stories

Italian ceramic tile cluster in Sassuolo uses shared logistic Italy services among SME producers to reduce min, order size and average lead time per product



UAE

Dubai provides fully integrated trade services through a Single Window Platform incl. integrated document processing, electronic payment gateway, electronic booking and realtime tracking



- Launch sector specific logistic serv.
- Promote sharing of logistics resources among producers
- Set up scheduled routes with dedicated capacities for key sectors

**Levera** Leverage technology across the value

- Drive the digitalization of logistics services through incentives and regulations
- Leverage data and digital technology to optimize trade routes



Logistics

#### Turkey has improvement potential in international logistics capabilities European peers has substantial advantage over Turkey in all dimensions

			Inte	International Logistics Performance Index (LPI) - 2018							Selected Examples		
		ıp Average	<b>C</b> Turkey	Italy	Spain	Poland	Czhecia	China	() India	() Taiwan	Vietnam		
	LPI Rank		47	17	19	28	22	26	44	27	39		
<u>_</u>	Overall LPI Score	3.5	3.2	3.8	3.7	3.5	3.7	3.6	3.2	3.6	3.3		
0 0 0 0	Infrastructure	3.4	3.2	3.8	3.9	3.2	3.5	3.8	2.9	3.7	3.0		
Â	Customs	3.2	2.7	3.6	3.5	3.3	3.3	3.3	3.0	3.5	3.0		
	International shipments	3.5	3.1	3.8	3.5	3.7	3.8	3.5	3.2	3.5	3.2		
¢	Logistics Competence	3.5	3.1	3.8	3.7	3.6	3.7	3.6	3.1	3.6	3.4		
$\mathbf{Q}$	Tracking and Tracing	3.6	3.2	3.8	3.9	3.5	3.7	3.7	3.3	3.7	3.5		
Ó	Timeliness	3.8	3.6	4.0	4.1	4.0	4.1	3.8	3.5	3.7	3.7		

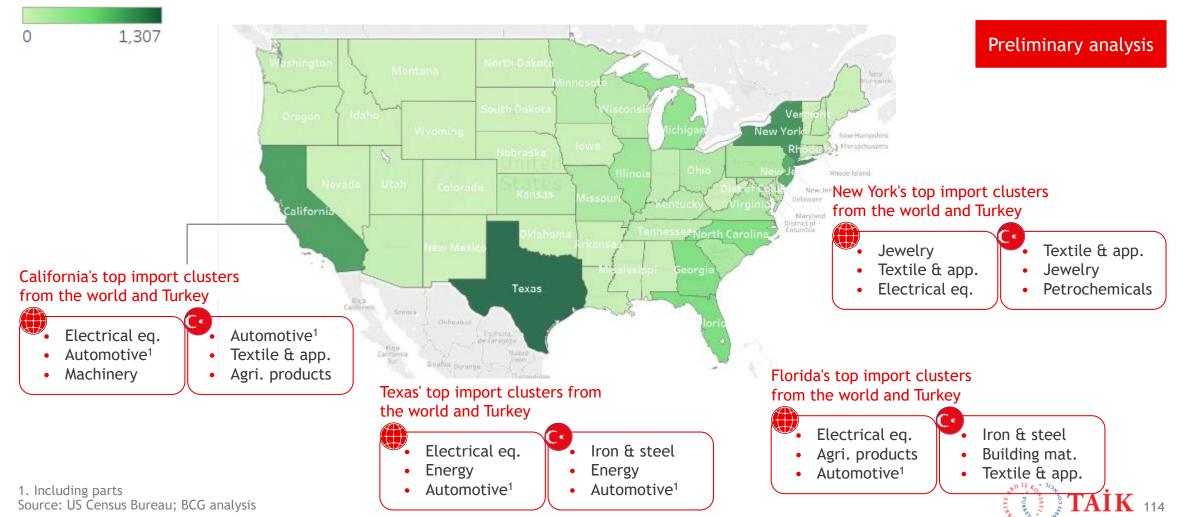
Comparative scoring of countries (5: Highest)



Source: International Logistics Performance Index (LPI) - the World Bank

Logistics

#### Geographical analysis at the state level is essential for the US market



#### US' imports from Turkey by state (\$M)

Logistics

#### 3 key initiatives identified to improve Turkey's international logistics capabilities across six main areas



Develop action plan to improve logistics operations



	€	
Ø		

Infrastructure Raise quality of trade and transport related infrastructure



Facilitate shared logistics services among producers



Leverage technology across the value chain



International Shipments

Increase availability of competitively priced shipments



Tracking and Tracing Increase transparency to track and trace consignments



Customs Improve efficiency of the clearance process



#### Logistics Competence

Improve competence and quality of logistics services



#### Timeliness

Improve timeliness of shipments in reaching destination within the scheduled delivery time



╶╸╸╴╴

#### Success stories indicate potential areas of development for Turkey



#### Develop action plan to improve logistics operations

India has launched an integrated logistics action plan driving logistics development and logistics efficiency in the country:

- Plan focused across the complete value chain of logistics including transportation, warehousing etc.
- Plan aims to bring down logistic costs to 10% of GDP, from current level of 14%



# Facilitate shared logistics services among producers

Italian ceramic tile cluster in Sassuolo has been using shared logistic services among SME producers enabling:

- Reduction in minimum order size due to decrease in feasible order size via shared logistics
- Reduction in average lead time per product due to higher frequency of shipments



# Leverage technology across the value chain

Dubai Single Trade Window is a fully integrated platform including

- Integrated document processing replacing physical doc. submission
- Electronic Payment Gateway provides multiple payment options
- Electronic booking to manage transportation and warehouse bookings
- Real-time tracking allows real time tracking of vessels





India

Italy

# Shared logistic services in Sassuolo cluster enables SME tile producers to fulfil LCL<sup>1</sup> orders and decrease lead time

Sassuolo is hub for ceramic tiles, shipping products >150 countries



80% of the Italian production of tiles with more than 80 companies



23 mn tons of ceramic materials passing through each year

4850 truck A daily go of 4850 trucks, loaded with twenty tons of goods each Shared logistic services enable SMEs to cooperate to create scale with specialized offerings

Specialized logistic services manage



collection of tiles from production plants



collective storage and preparation of shipments



optimization of mode of transport and distribution



optimization of delivery times





 Decrease in average
 lead time



#### Key recommendations for logistics optimization



Develop action plan to improve logistics operations

- Launch a comprehensive review across the value chain to understand bottlenecks & problems and to propose solutions
- Rationalize & revise key acts, guidelines, and polices based on outcomes of the study
- Set up a robust governance structure that will own and drive the process for each sub sector



Facilitate shared logistics services among producers

- Facilitate the launch of sector specific specialized logistics services via collaboration between producers
- Promote sharing of logistics resources among producers via central sourcing and shared transportation structures
- Cooperate with global logistics companies to set up scheduled routes with dedicated capacities for key sectors

# Leverage technology across the value chain

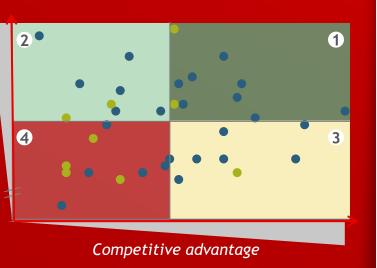
- Drive the digitalization of logistics services through incentives and regulations to create transparency and predictability across the value chain
- Leverage data and digital technology to identify required actions to optimize trade routes for key subsectors

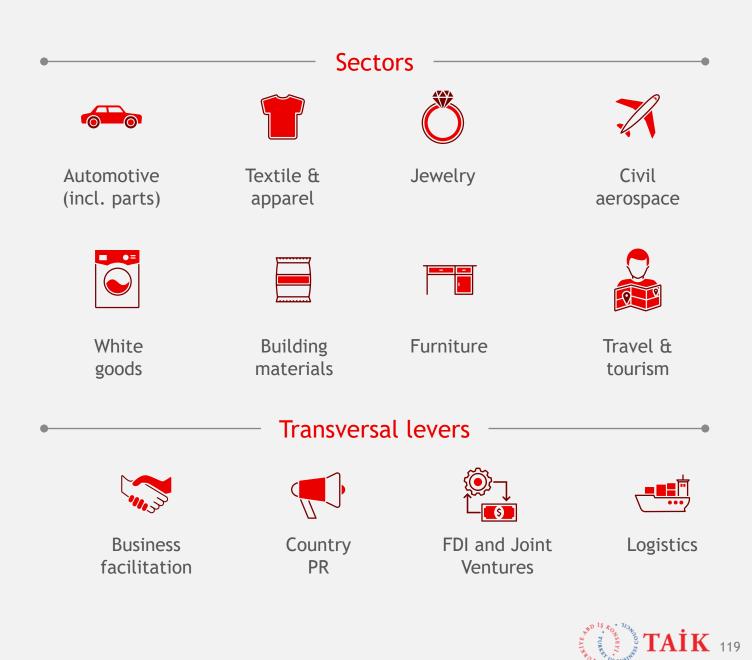


Logistics

### We detailed selected sectors and transversal levers to assess potential upside

Market attractiveness





### Turkey's exports to the US have substantial potential by leveraging both sectoral and transversal initiatives

50-55 14-16 36-39 14-16 22-23 ~13 9-10 2018 Baseline 2030 Potential 2030 total 2030-2035 2035 total growth<sup>1</sup> Baseline upside from forecasted upsides<sup>4</sup> forecasted sectoral<sup>2</sup> & volume volume scenario transversal<sup>3</sup> initiatives

Turkey's goods and services export volume to the US (\$B)

2023 2030 2035 Baseline 22-23 27-29 15-16 scenario (\$B) Total 50-55 forecasted 18-19 36-39 volume (SB) Additional impact on Turkish export competitiveness will increase Turkey's exports to other countries

High level forecast

1. 5% annual growth is assumed for non-prioritized sectors for 2018-2030 period 2. Based on share of wallet growth targets for each focus sector 3. Based on 15% increase in projected 2030 SoW; 2030 SoW is projected based on 4% US imports growth and 5% Turkey's exports growth to US 4. Average of 2018-2030 baseline and upside impact growth assumed for 2030-2035 period Go to homepage

Source: International Trade Centre; expert interviews; BCG analysis

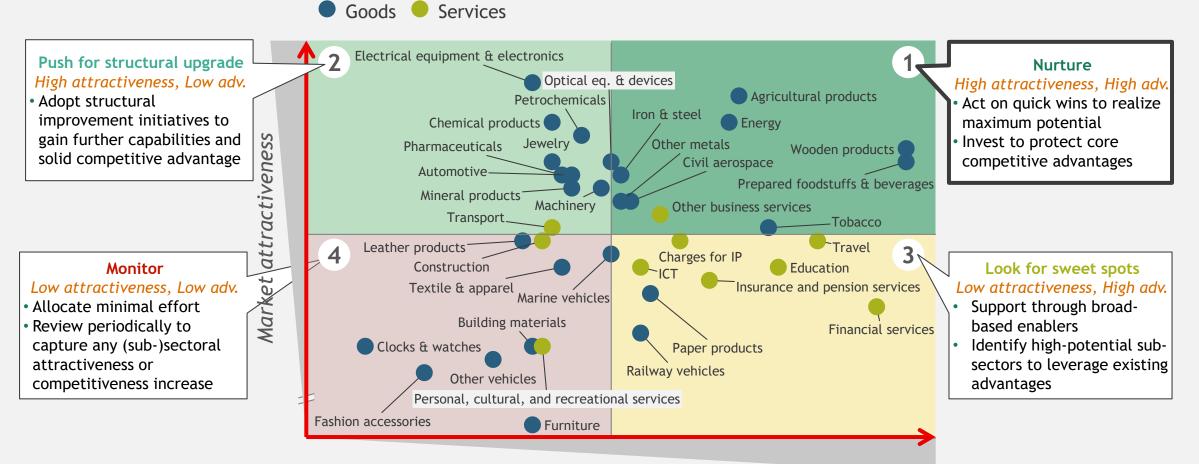




# Deep-dives for selected sectors and levers for the US



# US perspective: Industry assessment reveals 4 groups of industries with different needs and priorities



Competitive advantage



# 4 industries with potential to uplift US exports

#### Main criteria for industry selection

- Size and potential impact
  - E.g. civil aerospace and energy

#### Srowth potential

• E.g. medical technology driven by city hospitals and rising demand for healthcare services

#### US competitive advantage

• E.g. chemical products as one of the few industries US has trade surplus

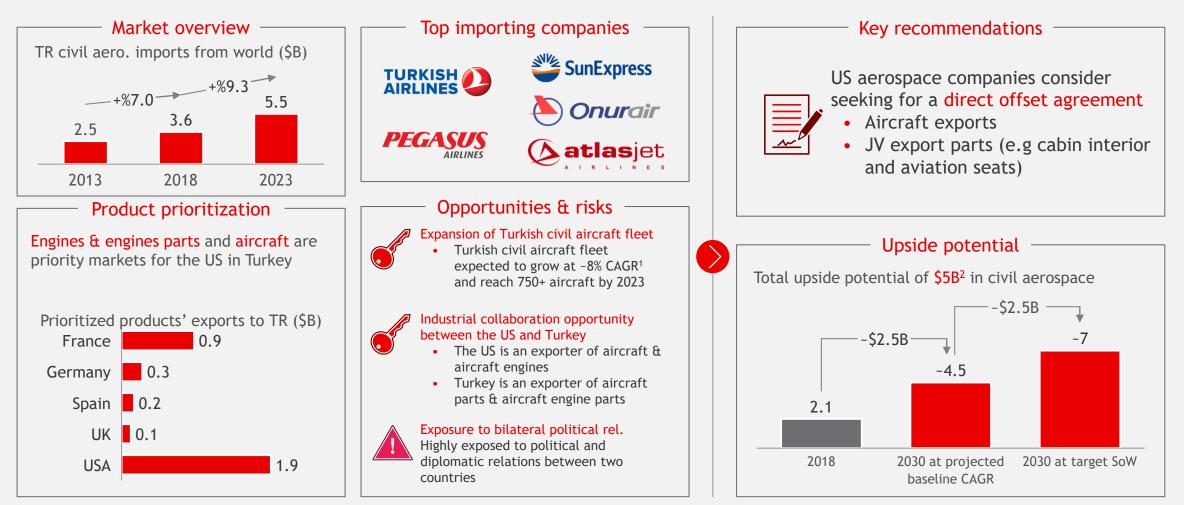
#### > Value add to Turkey's economy

• Industries where Turkey has a low competitive adv. and US exports will have the most value add (e.g. aerospace, chemical etc.)

#### Recommended focus industries



### Civil aerospace: Substantial opportunity through offset agreements



1. Compounded annual growth rate 2. The US' 2030 baseline is projected at 75% of 2018-2023 CAGR<sup>1</sup>; targeted 2030 share of wallet of the US is 150% of its current share of wallet in Turkish exports of aircrafts & engines & parts Source: International Trade Centre; EPDK; TTK; Oxford Energy; expert interviews; BCG analysis





# Aircraft, aircraft engines and parts prioritized for the US where Turkish import market promises significant growth

Product prioritization Product mix analysis Exports to Turkey (\$M) Engines & engines parts and aircraft are priority markets for the US Sub-products not exhaustive USA France Germanv UK Spain Engines & engine parts 257 123 118 896 13 26 23 459 Turbojet & turbopropeller parts 10 46 207 328 50 94 4 ☆ Turbojets of a thrust >25 kN Aircraft 659 140 985 145 ☆ Aeroplanes >15 tons 659 140 145 946 Market attractiveness Facts & opportunities Engines & engine parts Airline companies are focusing on fuel efficiency due to rising oil prices; replacement is expected to be a key reason of purchase as well as fleet expansion Aircraft Turkish civil aerospace industry is forecasted to grow at ~10% CAGR<sup>1</sup> until 2023, in terms of the number of air passengers Exporting companies Aircraft parts Engines & engine parts — Aircraft -SAFRAN Launching gear MTU **Rolls-Royce**° BOEING < 🗸 *Competitive advantage* **GE** Aviation

1. Compounded annual growth rate

Source: International Trade Centre; Turkish Airlines; Euromonitor; expert interviews; BCG analysis

Civil aerospace

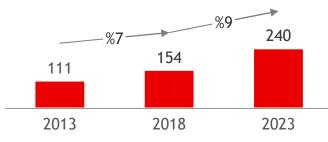
#### Offset agreements between American OEMs and Turkish parts suppliers can be leveraged to further penetrate rapidly growing Turkish civil aerospace market

## Rapid growth expected in Turkish civil aerospace industry

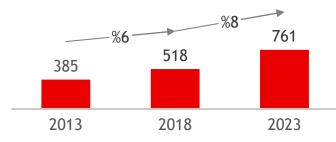
Rapid growth mainly driven by two factors

- Passenger demand growth
- Expected uplift in air traffic through Istanbul Airport

#### Turkish aviation passenger growth (mil.)



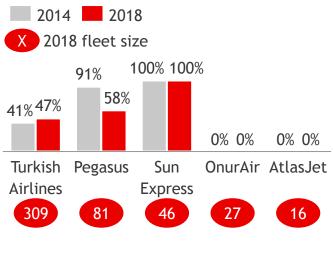
Turkish civil aircraft fleet growth (#)



# US OEM's current share in Turkish fleet has room to improve

US OEM's share in Turkish commercial fleet stagnant around 50% since 2014

#### US OEM's share in major airlines' fleet (%)



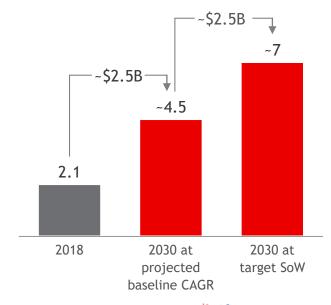
- THY is planning to increase fleet size to ~500 by 2023, significant opportunity for US OEM
- Pegasus preferring A320 over B737; US OEM needs to respond

## Reciprocal upside potential through an offset agreement

US OEMs consider signing a direct offset agreement with Turkish airlines companies

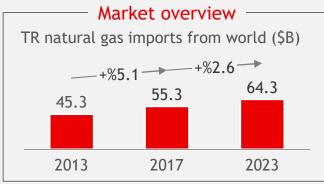
- US exports aircraft
- JVs export parts such as cabin interior and aviation seats

Total upside potential of **\$5B**<sup>1</sup> in civil aero.



1. The US' 2030 baseline is projected at 75% of 2018-2023 CAGR; targeted 2030 share of wallet of the US is 150% of its current share of wallet Source: International Trade Centre; Turkish Directorate General of Civil Aviation; Turkish Airlines; Euromonitor; expert interviews; BCG analysis

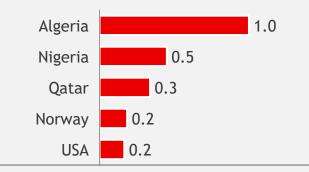
### **Energy:** Considerable market potential and right to win for the US in liquefied natural gas (LNG)

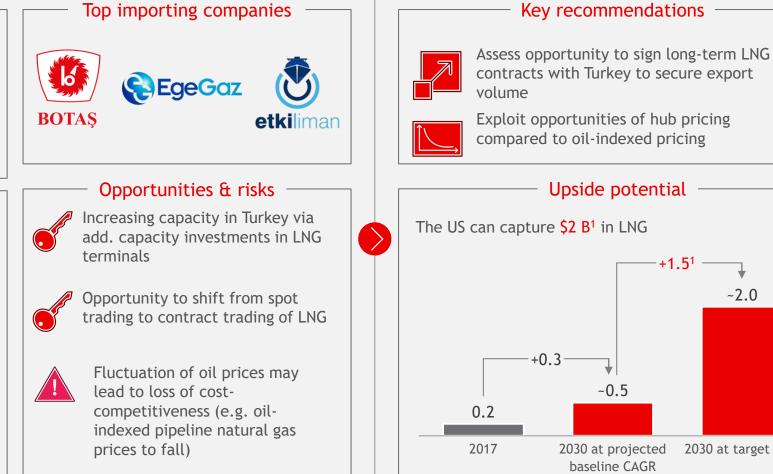


#### Product prioritization

Liquefied natural gas prioritized due to very high market attractiveness in Turkey and the US' competitive edge

LNG exports to Turkey, 2017 (\$B)





#### 1. Turkey's 2030 baseline is projected at 50% of 2013-2017 CAGR; targeted 2030 share of wallet for the US is the half of contracted LNG trade vol. of Turkey Source: International Trade Centre; EPDK; TTK; Oxford Energy; expert interviews; BCG analysis



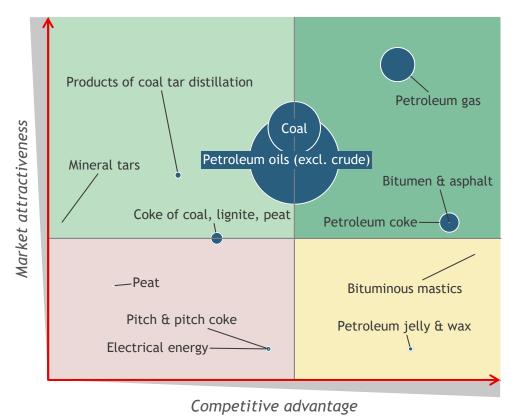
2030 at target SoW

~2.0

# LNG should be the focus of US due to its competitive advantage and promising Turkish import market

Product prioritization

Petroleum gas and coal very attractive markets, the US is highly competitive especially in petroleum gas



Product mix analysis										
Sub-products not exhaustive										
Exports to Turkey, 2017 (\$M) <sup>1</sup>	Algeria N	<b>O</b> Nigeria	Qatar	Norway	Russia	() Iran	C• Azer.	USA		
Petroleum gas										
☆ Natural gas, liquefied	1,019	459	345	188	-	-	-	169		
Natural gas, gaseous	-	-	-	-	6,329	2,041	1,444	-		
Exports to Turkey, 2016 (\$M) <sup>2</sup>	Colombia	Russ	ia A	ustralia	Canada	a S. A	Africa	USA		
Coal										
Bituminous coal	1,051	1,051 87		2 292			155	144		
• Share of natural gas in Turkey's primary energy sources for electricity production										

Share of natural gas in Turkey's primary energy sources for electricity production down from 48% in 2014 to 33% in 2016, however share of LNG within total imports of natural gas increased from %14.8 to 16.5%



41

Residential natural gas consumption expected to grow by 1-2 Bm<sup>3</sup> per year (~15% growth from 2015 to 2016) mainly due to population growth, new constructions, gasification of south-eastern Turkey and low seasonal temperatures

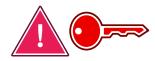
The U.S. coal industry is declining due to lower-cost natural gas, renewable energy, regulations regarding GHG<sup>3</sup> emissions and public health

1. Converted from volume (Sm<sup>3</sup>) to value by taking into account \$1 above 2017 avg. NBP prices 2. Converted from volume (Kt) to value by taking into account \$128/ton for coking coal and \$67/ton for thermal coal 3. Greenhouse gas Source: International Trade Centre; EPDK; TTK; Oxford Energy; expert interviews; BCG analysis



Energy

# US can seize the growth of LNG's share in Turkey mainly by shifting from spot trading to contract trading with Turkey



#### Risks & opportunities



#### Risk of losing price competitiveness

 Fluctuation of oil prices may cause oil-indexed pipeline natural gas prices to fall, eliminating LNG's price competitiveness

#### Increasing capacity in Turkey



- Additional capacity investments in LNG terminals
- Turkey's 3<sup>rd</sup> FSRU is in production



#### Opportunity to shift from spot trading to contract trading of LNG

- Turkey and Nigeria's contract due to expire in Oct. 2021
- Turkey and Algeria's contract due to expire in Oct. 2024



#### Key recommendations



Assess opportunity to sign long-term LNG contracts with Turkey to secure export volume following the expiry of current contracts in 2021 and 2024



#### Continue with hub pricing (Henry Hub for the US) instead of oilindexing in order to maintain

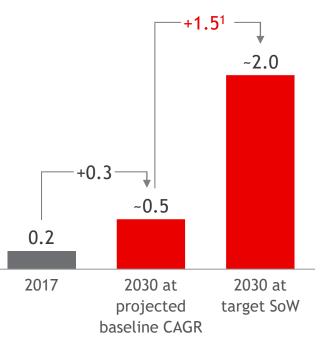
current price advantage over pipeline natural gas suppliers





#### Potential upsides

~\$1.8 B<sup>1</sup> upside potential by 2030 in LNG exports to Turkey through contract trading





# Medical devices: The US can aim to win the opportunity in the medical device tenders for city hospitals





22

11

6

39

TOSHIBA MEDICAL USA

65

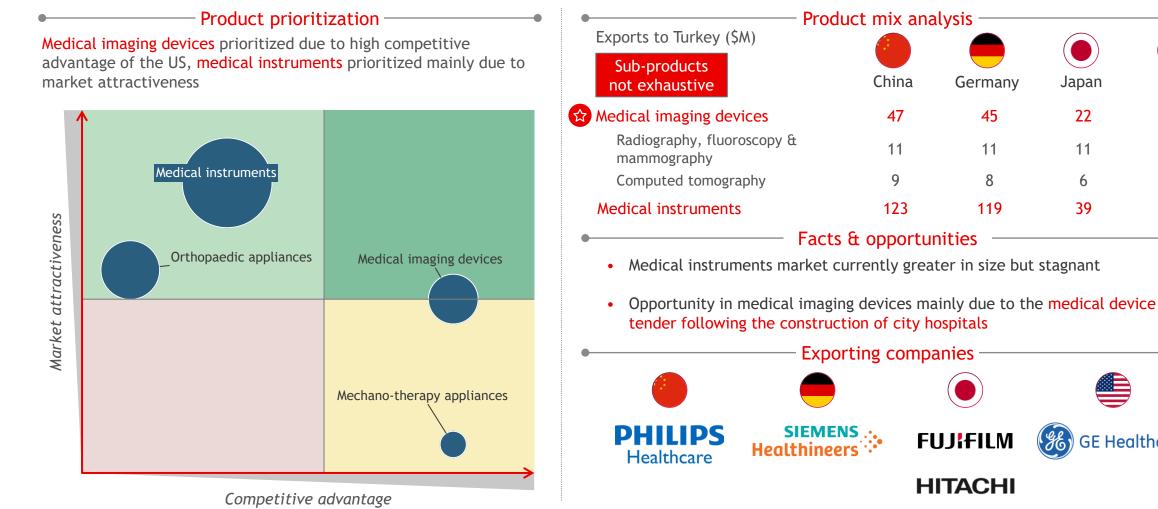
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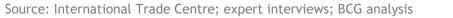
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177

**GE Healthcare** 

#### Medical imaging devices prioritized for the US due to its high competitiveness and the unique opportunity in Turkey



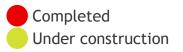


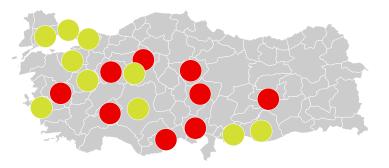
# The US can aim to win the expected medical devices tenders with competitive bids

# Construction of city hospitals driving medical device demand

- 9 hospitals completed
- 10 under construction
- Potential of additional tenders in the near future

Signed city hospital projects in Turkey





High value of medical devices tender in progress for city hospitals

#### Five types of devices demanded

- Magnetic resonance imaging
- Computed tomography
- Ultrasonography
- Digital radiography
- Patient monitors

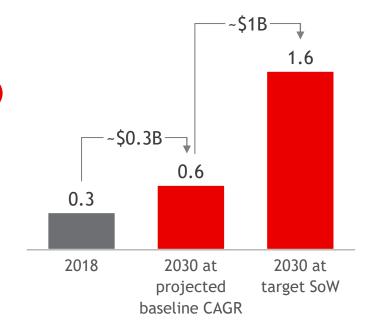
### Tender recently postponed; terms and conditions will be updated

- New requirement that devices be partially produced in Turkey
- Required local production ratio expected to vary by product type

Multi-billion dollar opportunity depending on the required local production ratio

# The US needs to focus on capture the opportunity

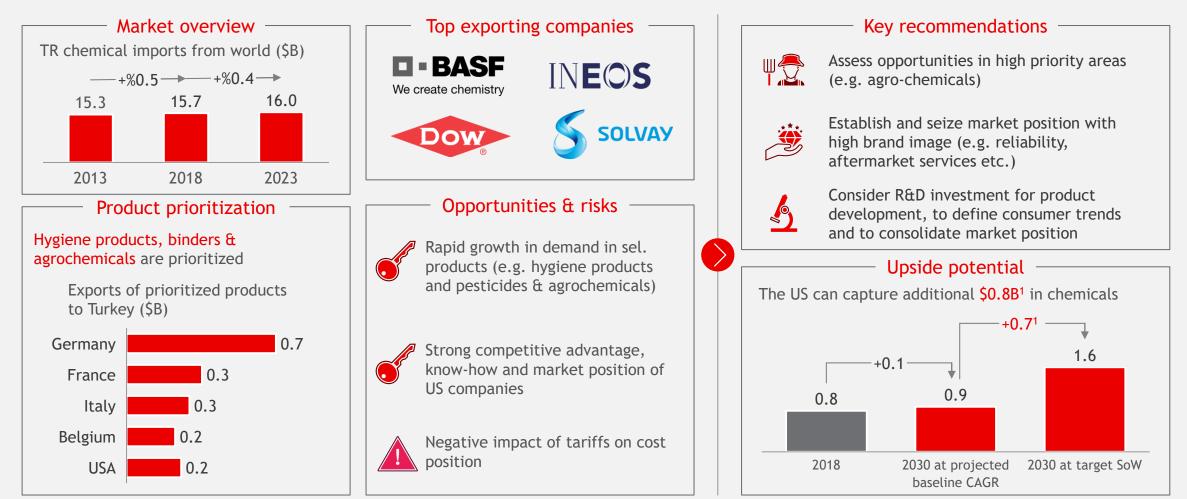
US firms should focus developing value for money solutions; ~\$1.3B<sup>1</sup> total annual upside potential



1. Turkey's 2030 baseline is projected at International Trade Administration's 2018-2020 CAGR forecast (1.4%) of Turkish medical devices market. Targeted 2030 share of wallet is based on the assumption that General Electric wins the tender with 50% local production requirement, plus an additional \$5B of exports of aftersales and replacement. TATIK 132 Source: Turkish Ministry of Health; Medikal Akademi; US International Trade Administration; BCG analysis

# Chemical products: Significant demand unmet by domestic players

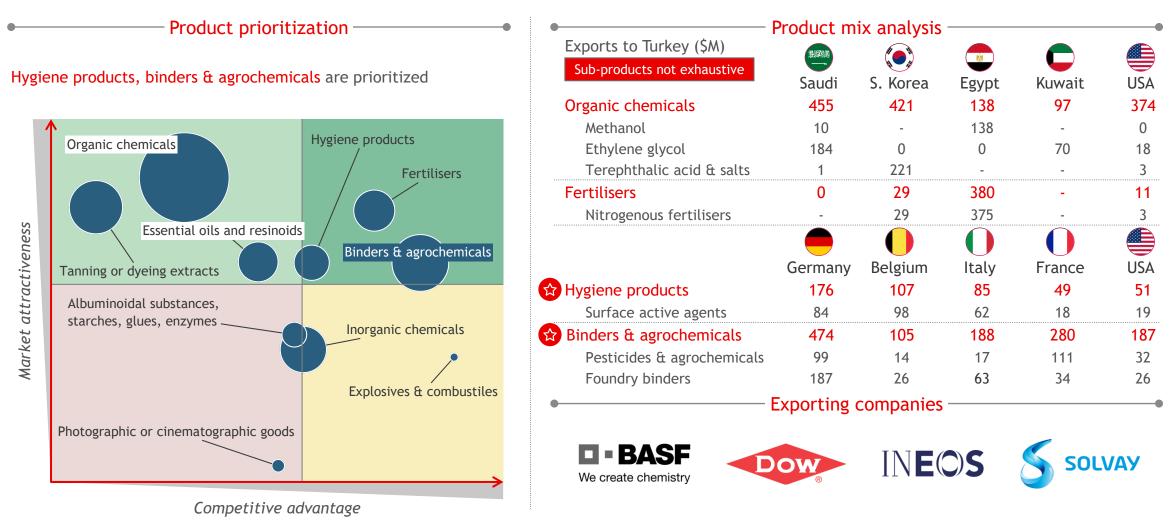
Substantial opportunity for US firms with strong know-how and capability



1. Turkey's 2030 baseline is projected at 2 times the CAGR of 2018-2023 CAGR; targeted 2030 share of wallet for the US is 125% of its fair share in prioritized products, and the average of its current SoW and fair share for all other products Source: International Trade Centre; EPDK; TTK; Oxford Energy; expert interviews; BCG analysis



### The US has right to win in hygiene products, binders and insecticides





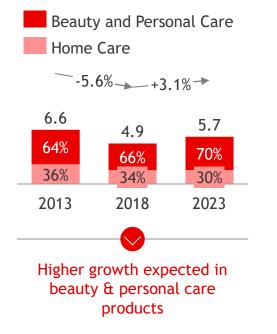
#### Focusing on rapidly growing and promising products is key to capture additional share in chemical products



#### Surface active agents

Commodity chemicals make up 29.1%<sup>1</sup> of TR chemicals market

Sales value in Turkey (\$B)

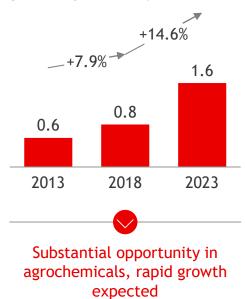




Pesticides & agrochemicals

Agrochemicals make up 12.4%<sup>1</sup> of TR chemicals market

#### Pesticides & agrochemicals gross output, Turkey (\$B)

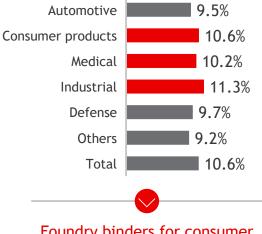




#### Foundry binders

Specialty chemicals make up 37.8%<sup>1</sup> of TR chemicals market

2018-2023 CAGR<sup>2</sup> forecasts for metal injection molding market (MEA region)



Foundry binders for consumer products, medical & industrial metal injection market offer the highest potential

#### Product focus is key in lifting chemicals exports



Assess opportunities in high priority areas (e.g. agrochemicals)



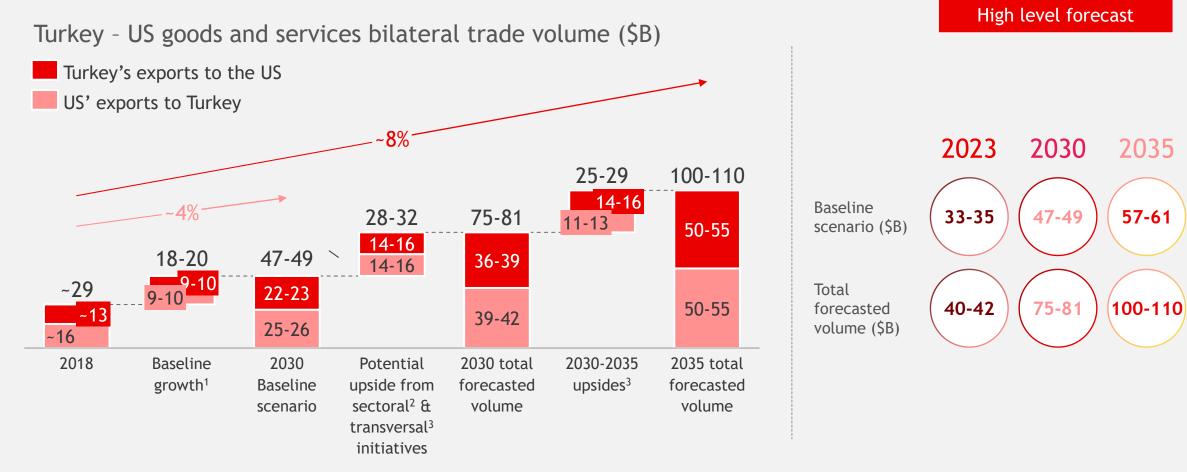
Establish and seize market position with high brand image (e.g. reliability, aftermarket services etc.)



Consider R&D investment for product development, to define consumer trends and to consolidate market position



# Turkey-US bilateral trade volume has potential by leveraging both sectoral and transversal initiatives



2018-2030 CAGR assumptions for non-prioritizes sectors: 5% for TR, 4% for the US 2. Based on share of wallet growth targets for each focus sector
 Based on 15% increase in projected 2030 SoW; 2030 SoW is projected based on 4% TR imports growth (4% for US) and 4% US' exports growth to TR (5% for TR) 4. Average of 2018-2030 baseline and upside impact growth assumed for 2030-2035 period
 Source: International Trade Centre; expert interviews; BCG analysis





# Implementation plan





### High priority areas for the next 6 months





2

4

5

6



3

Country PR

Define responsibilities, milestones and key deliverables for the recommendations in the implementation plan

Establish a task force to improve business facilitation services (e.g. meetings with sector reps. to identify needs for trade centers)

Initiate contacts and improve Turkey's image in safety & security

Launch a targeted campaign utilizing digital channels and brand advocates to improve country image



Set an action group to prepare a holistic FDI & JV strategy and to promote Turkey as a hub for production and R&D investment center in key sectors (e.g. automotive)



Communication

Set up a committee to define and steer the communication strategy of the overall program (e.g. communication with country leaders, selected large firms and SMEs)

Key stakeholders need to select and focus on immediate actions to build a success story



#### Detailed action plan for high priority areas (I/III)



#### $\widehat{D}$ Define responsibilities, milestones and key deliverables for the initiatives in the implementation plan

- Select relevant stakeholders (e.g. business associations and gov. entities) to sponsor, lead and contribute to -should be defined for each initiative
- Define roles and responsibilities for each task of the initiative
- Set key milestones and deliverables
- Define KPIs for measuring initiative success
- Identify associated risks and develop potential solutions
- Set a program management office (PMO) to track and manage overall progress of the implementation plan

#### (2) Establish a task force to improve business facilitation services



- Communicate with key sector representatives and identify necessities (e.g. functions and geographies)
- (Depending on identified needs) extend trade centers functionally and geographically
- (Depending on identified needs) improve capability and capacity of Turkish commercial service in the US
- Stimulate cooperation between US and Turkish Eximbanks to collaborate and to steer common projects



Implementation

#### Detailed action plan for high priority areas (II/III)



#### Initiate contacts and improve Turkey's image in safety & security perceptions

- Identify and contact key US government agencies to remove / soften travel warning (e.g. US Department of State -Bureau of Consular Affairs, Executive Office of the President)
- Identify and contact international rating agencies to better reflect Turkey's improvement in safety & security in recent years
- Provide documentation and detailed information to confirm Turkey's improvement in safety & security



#### Launch a targeted campaign utilizing digital channels and brand advocates to improve country image

- Set a marketing strategy to promote Turkey in the US, with the involvement of key stakeholders
- Select and work with professional marketing and PR firm which has capability to promote Turkey and to influence US citizens
- Enable utilization of alternative channels (e.g. Youtube, Netflix) and brand advocates (e.g. social media influencers)
- Help design use of multiple channels and synchronization in marketing (e.g. NY Times articles, Netflix series, National Geographic documentary, CNN documentary etc.)





Country PR

Country PR

#### Detailed action plan for high priority areas (III/III)



#### Set an action group to prepare a holistic FDI & JV strategy

- Select key countries and sectors to attract FDI and to promote JVs in Turkey
- Identify existing US firms and try to identify how existing investments could be increased
- Promote Istanbul/Turkey as a regional hub for companies with a global footprint
- Try to address question marks in investors' minds, convey clear messages about Turkey's investment environment
- Organize a large Turkey Investment Conference, select key spokesperson and invitees to maximize impact



#### (6) Set up a committee to define and steer the communication strategy of the overall program

- Set a strategy to communicate with country leaders and execute strategy with utmost attention
- Select key firms in Turkey to present program and the initiatives they can involve, contribute or get benefitted
- Select targeted SMEs to take input, to inform and to involve in initiatives (e.g. identify needs for business facilitation, promote auto parts export to US etc.)





# Authors of the report can be reached for further questions and comments



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