

Kordsa Investor Presentation

Nov, 2019

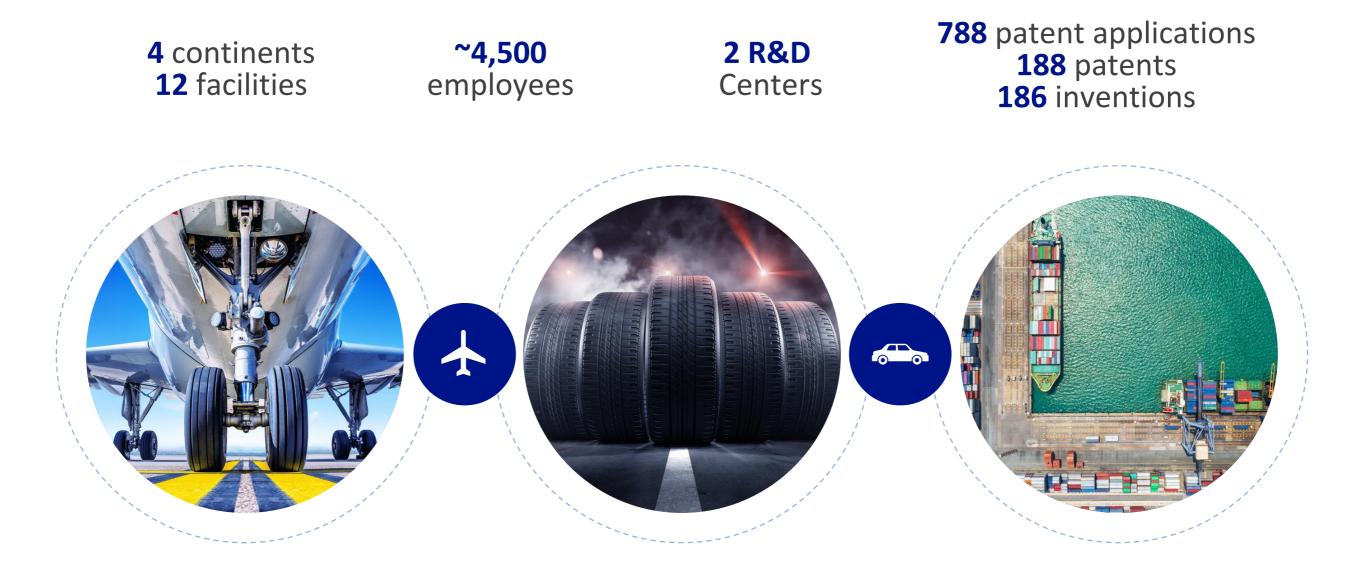
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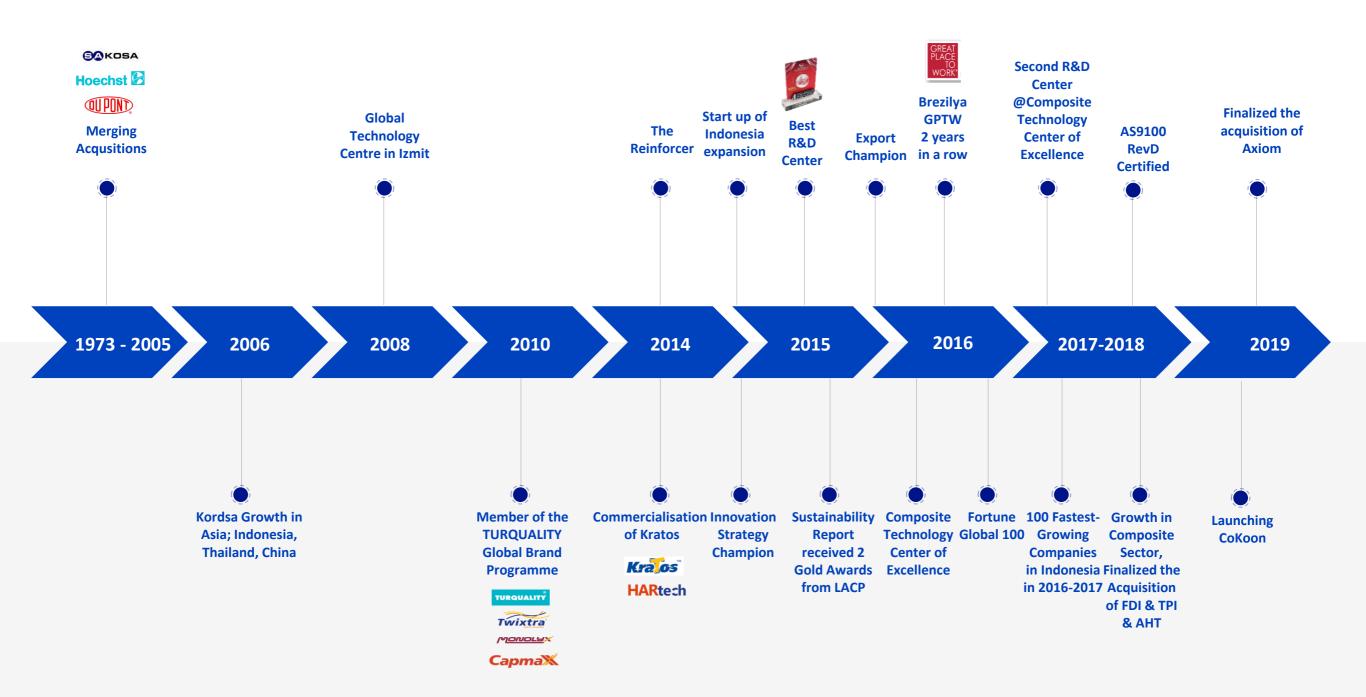
Global Footprint



WE REINFORCE LIFE



Milestones

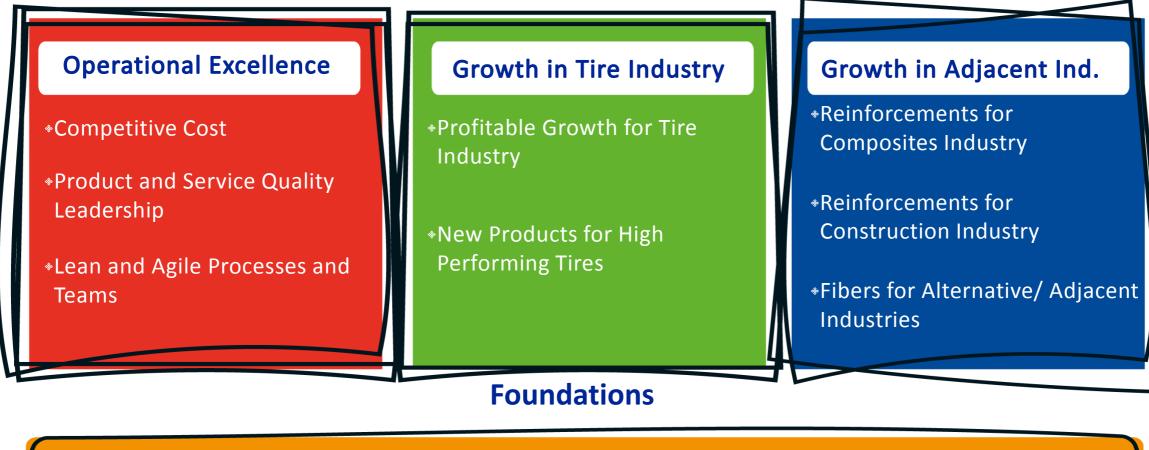




Strategy House



Pillar Initiatives



	Our values					
SHE	Ethics	Continuous Improvement	Courage	Passion	Global Collaboration	Continuous Improvement



Kordsa in Brief

	Tire cord fabrics ("TCF") Next	generation fabrics	Com	oosite	Constr	uction
Description	 Nylon and polyest tire reinforcement and fabrics for rad bias tires Global #1 by rever by capacity @ NYG Global #2 by rever by capacity @PET 	t fibers mate lial and High Mono 66 TCF Resor nue / #3 Free I TCF Highly	e reinforcement rials for green tires performance ofilaments n Products with cinol Formaldehyde Dipping y engineered hybrid with superior erties	 Carbon fiber hybrid fabrid pregs Production t for composition High value a thermoplast thermoset rest 	cs, and pre- technologies te materials dded ic and	Macro and r concrete rei	nicro fibers for nforcement
End markets			A A A A A A A A A A A A A A A A A A A	ad add			
	BRIDGESTONE	Ontinental S	GOOD ^F YEAR	<i>BDEING</i>	TOFAŞ	AKÇANSA	ÇİM <mark>SA</mark>
Selected end-market participants	A beller way forward	IRELLI	Internation Sumitomo		Ford	Votorantim	
	///напкоок		(HENG SHIN TIRE-				



Must Win Battles



2.

Profitable

Growth in

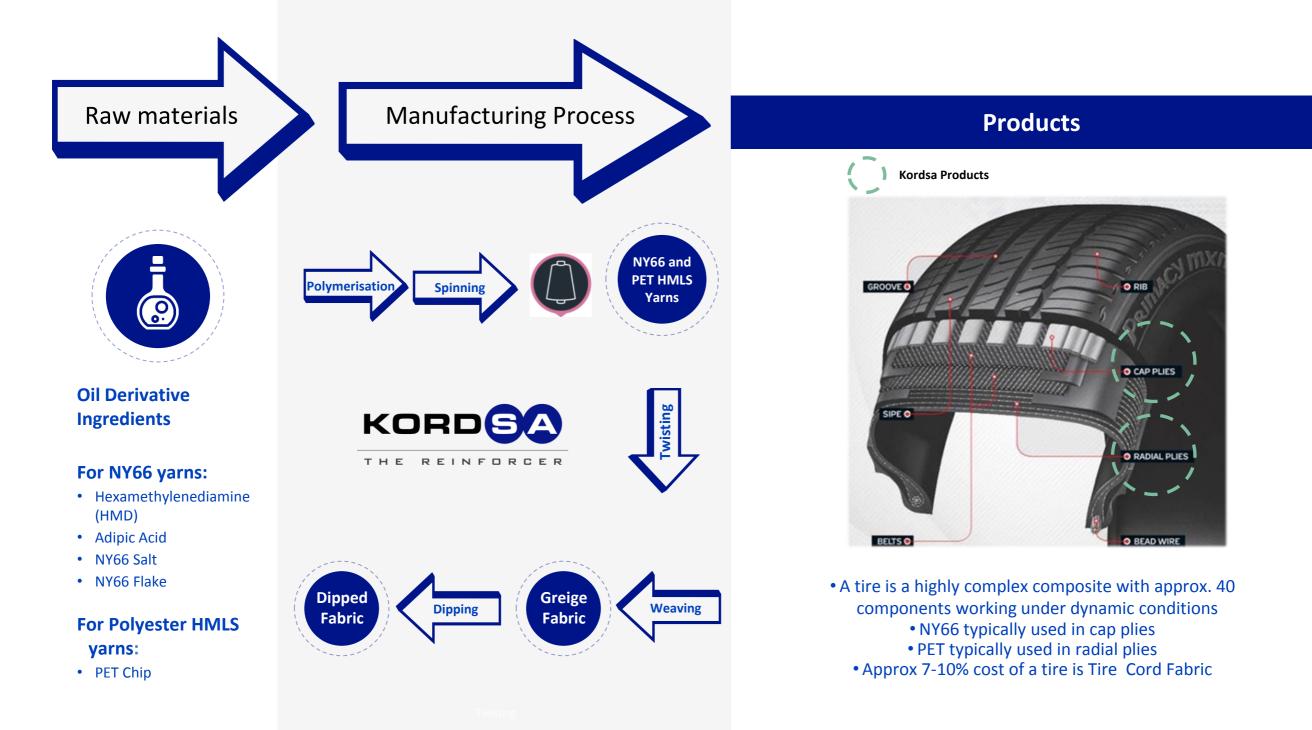
Tire Industry

- a. Continue TPM implementation at every site for zero incident, zero defect, zero downtime
- b. High capacity utilization and/or optimisation at all entities
- c. Local Talent Development for cost and productivity
- d. Focus on high value added segments
- e. Investing for smart plant, deployment of Industry 4.0 developments to support growth - future plant concept
- f. Continuous Renewal of Product Portfolio new product revenue and increase approval base
- **3.** Profitable Growth in Adjacent Industries
- g. Ramp up Composite Reinforcement Business and complete inorganic growth
- Ramp up Construction Reinforcement Business PP line start up and global collaboration/ partnership
- i. Find out Alternative end uses for NY6.6

Focus on tire industry for profitable growth, selectively grow adjacencies



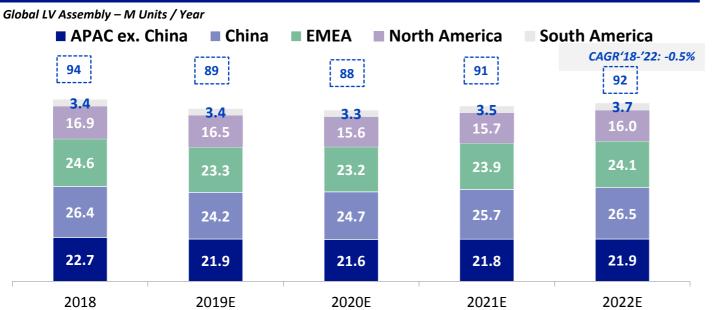
Overview of The Tire Cord Fabric Value Chain



Kordsa fabrics are developed for specific requirements and are custom made



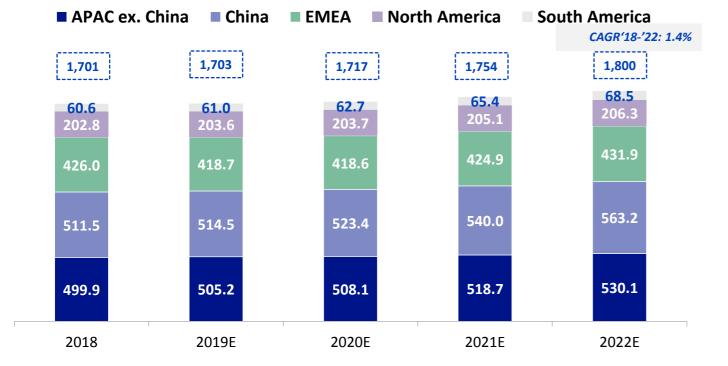
Market Dynamics – Tire Cord Fabric



Global Automotive Market

Global Tire Market

Global LV Tire Production- M Units / Year



North America

Production decrease 2.5% in 2019 (vs 2018)

South America Production decrease 1.0% in 2019 (vs 2018)

EMEA

Production decrease 5.0% in 2019 (vs 2018)

APAC excl. China Production decrease 3.6% in 2019 (vs 2018)

China

Production decrease 8.5% in 2019 (vs 2018)

- OE: Sales in 2019 were 5% lower than 2018, with declines in all regions
- Replacement: Worldwide replacement tire market to increase about 1%. The ADD (anti-dumping duty) against China is leading to increased investment and exports from other low cost producers, particularly in ASEAN.

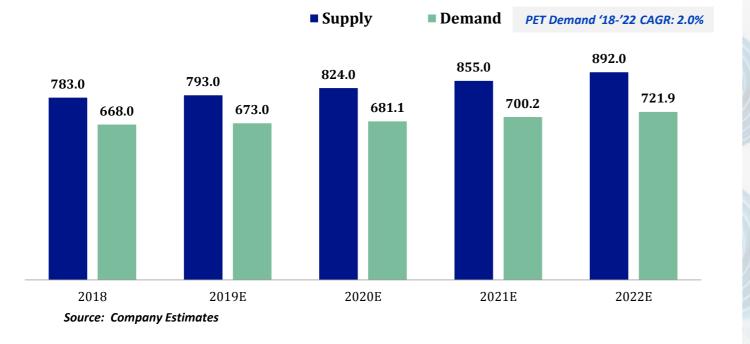


Market Dynamics – Tire Cord Fabric

Supply Demand NY Demand '18-'22 CAGR: 0.7% 445.0 445.0 430.0 430.0 414.0 345.5 341.4 336.0 336.3 337.3 2017 2018 2019E 2020E 2021E Source: Company Estimates

Tire Reinforcement Market (NY6.6)

Tire Reinforcement Market (PET)





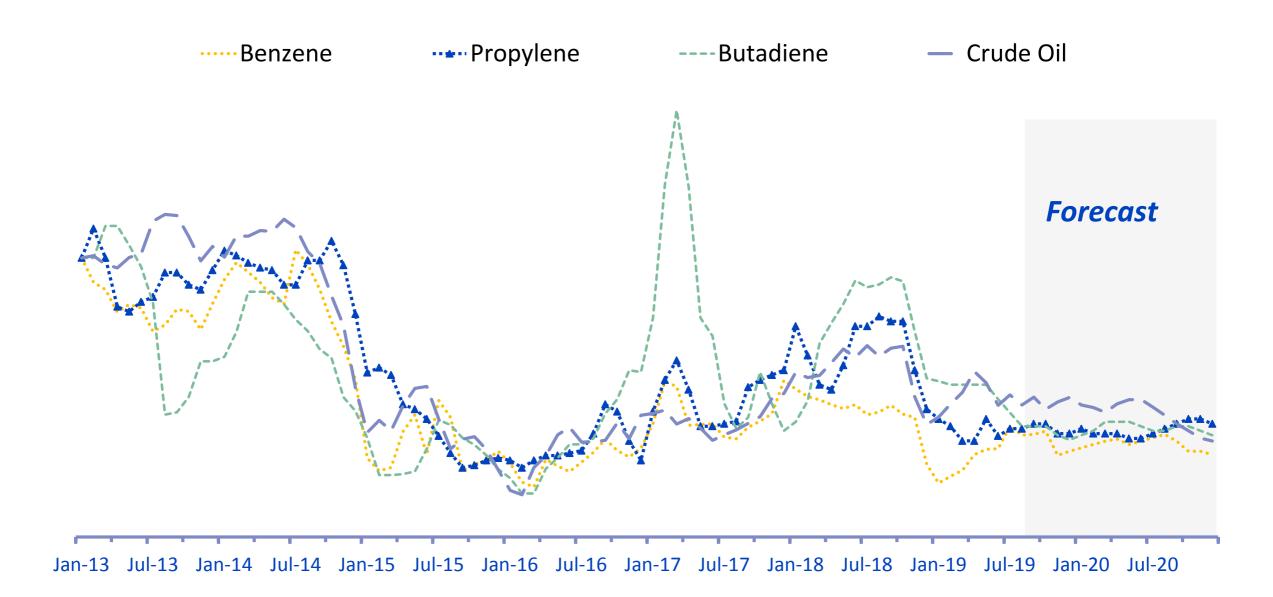
- Utilization rates lower compared to previous years
- Engineering plastics is affected by Automotive markets' slow down
- Switching to NY66
- Market slow-down is reflected to market estimations. NY66 demand increase updated as 0.7%





RM Price Drivers – Tire Cord Fabric

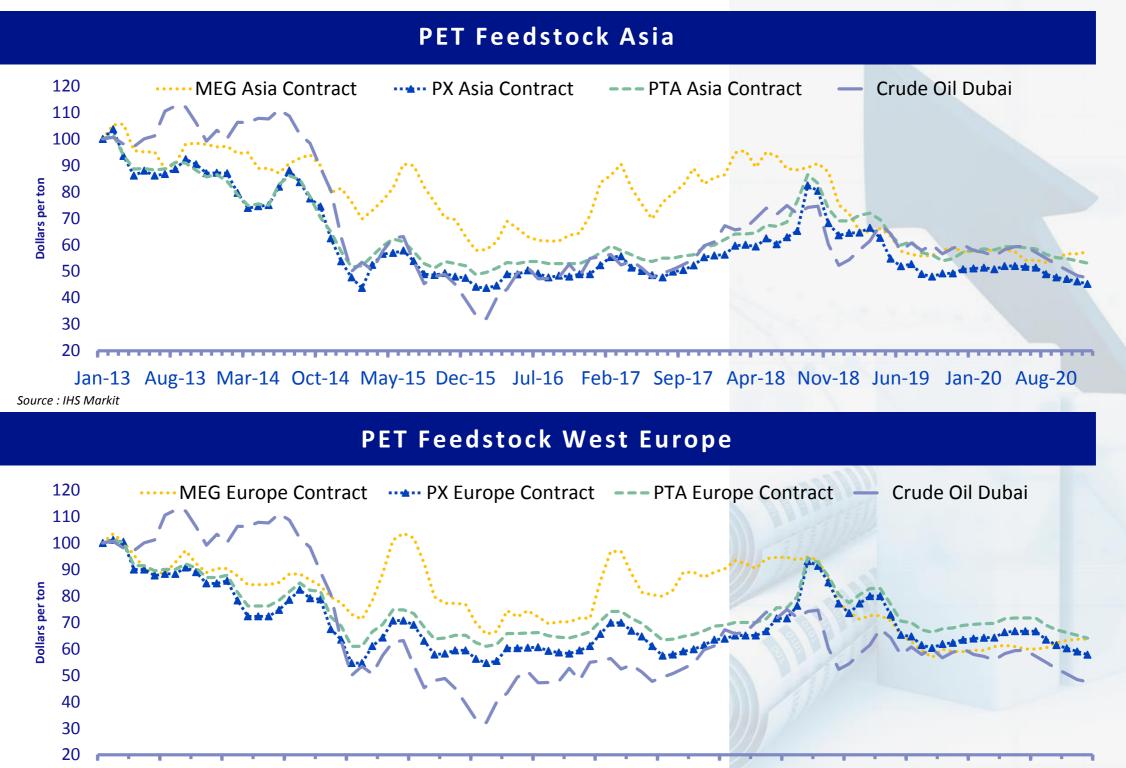
NY Raw Material Trend (Indexed)





Source: Company Estimates

RM Price Drivers – Tire Cord Fabric



Jan-13 Jul-13 Jan-14 Jul-14 Jan-15 Jul-15 Jan-16 Jul-16 Jan-17 Jul-17 Jan-18 Jul-18 Jan-19 Jul-19 Jan-20 Jul-20



Further Growth Opportunities: Composite

Mid-term opportunity: composites reinforcement



Current status

- Composite Technologies Center of Excellence opened in 2016 (~30 MM\$ investment)
- Ongoing development programs & joint projects with aerospace & automotive customers and major universities in both Turkey and Europe.
- Our target markets are Aviation, Automotive, Maritime and also Rail Systems

Buy & Build

- Finalized acquiring Axiom Materials which provides advanced composite materials to the aerospace industry as well as the next generation transportation vehicles in the US in 24th July, 2019
- 280 M\$ acquisition expenditures in the last two years can help us to create 150 M\$ annual sales.
- Potential M&A targets are always under consideration
 KORDS

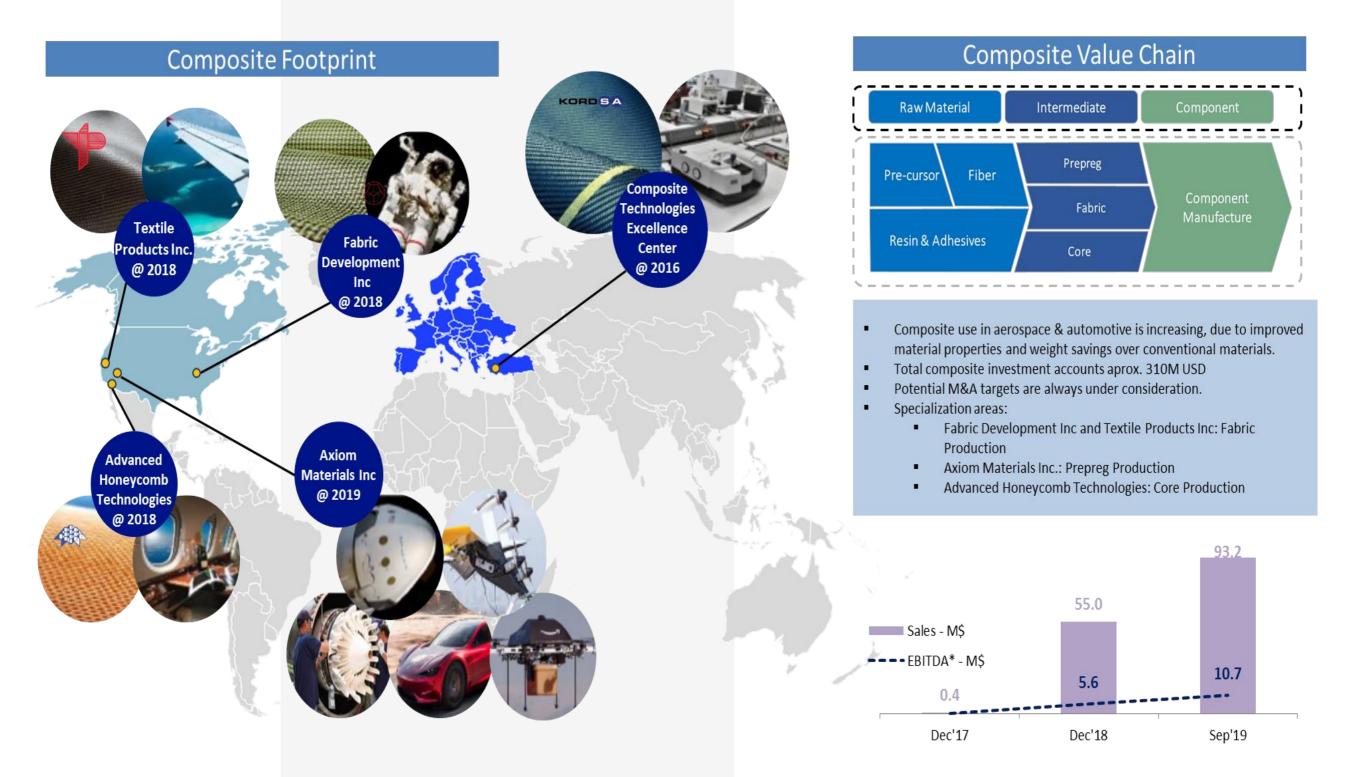
Overview of The Composites Value Chain



Kordsa fabrics and prepregs offer cutting edge solutions for aerospace & automotive markets

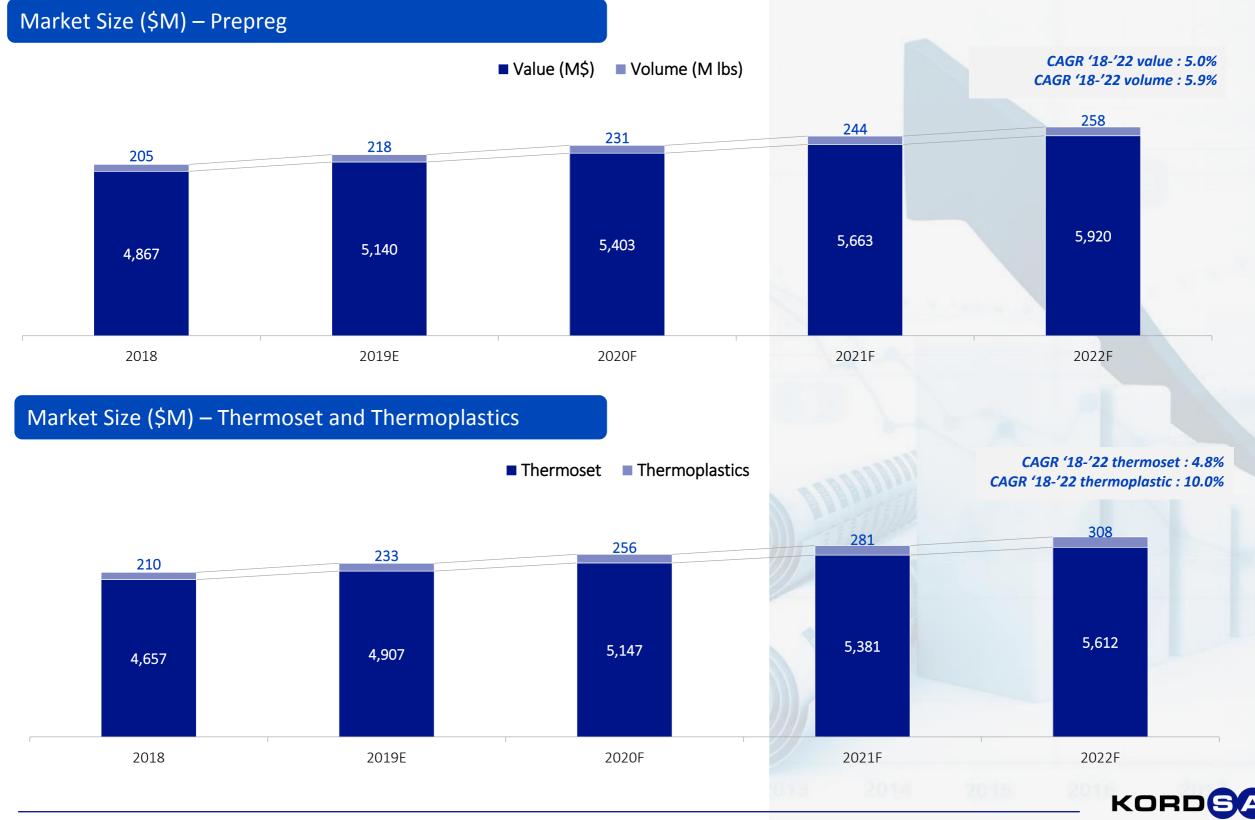


Overview of The Composites Value Chain



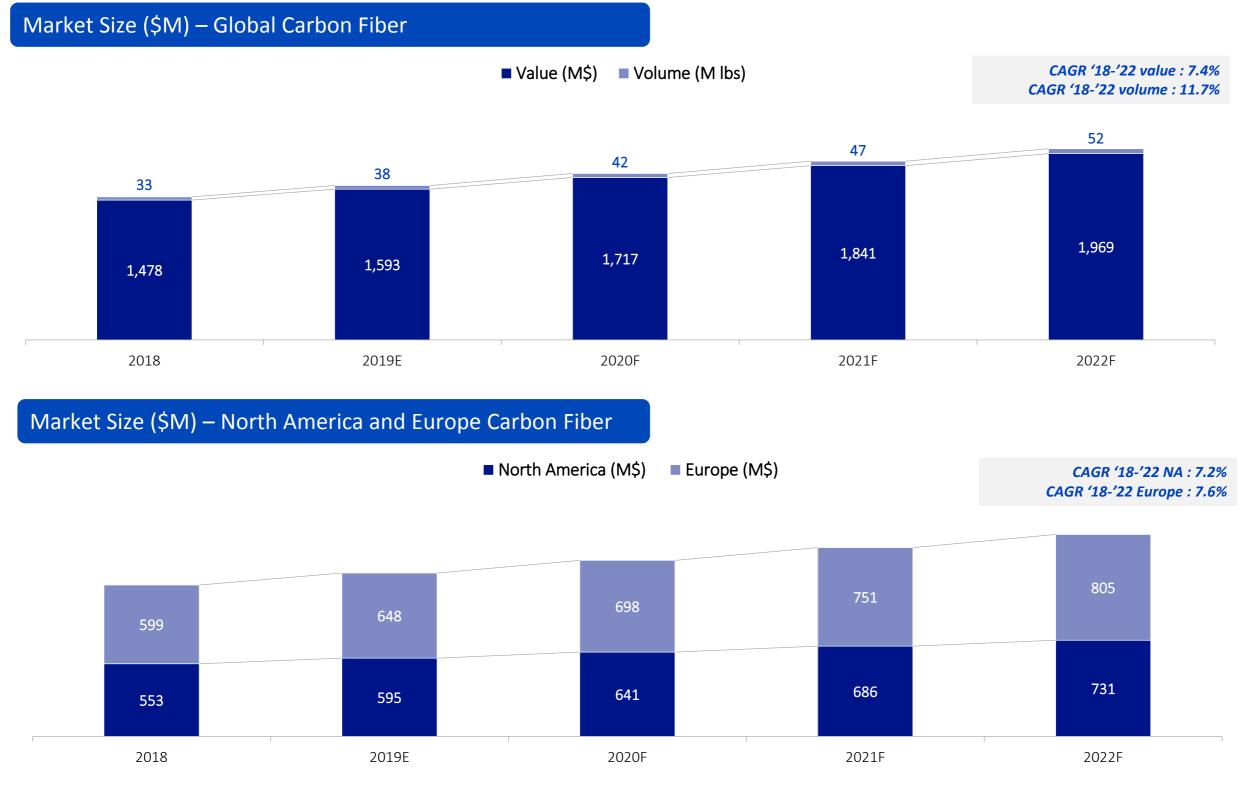


Market Dynamics – Composite Prepreg



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Market Dynamics – Carbon Fabric





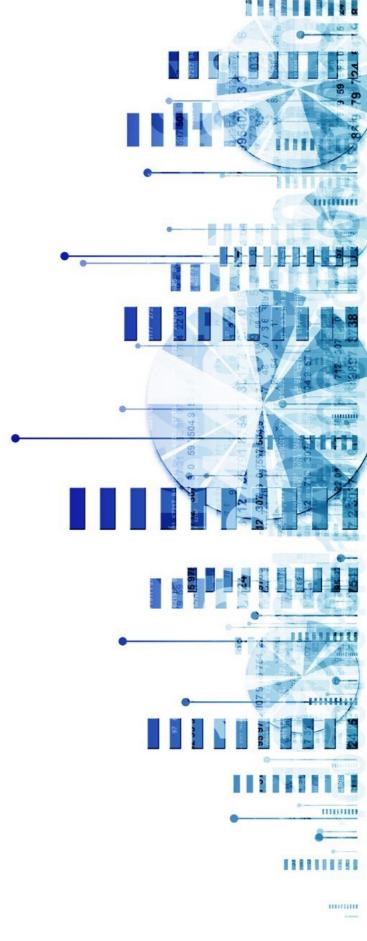
Kordsa Investment Highlights





Kordsa in Brief

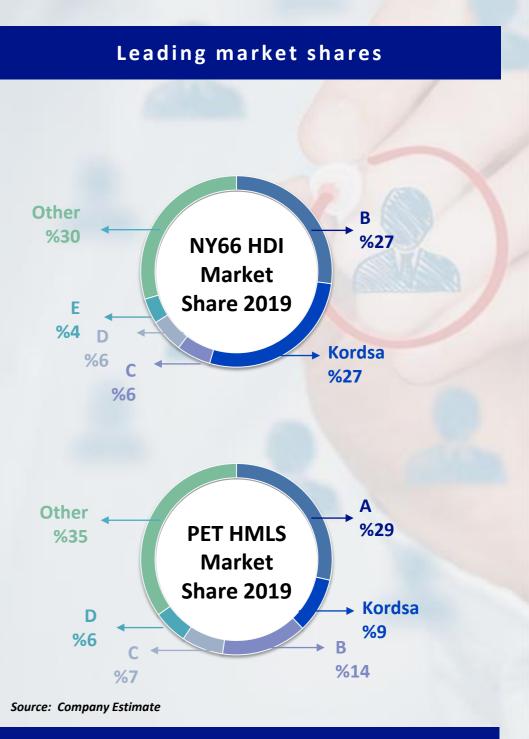
Key Financials						
	Milli	Million TL		n USD		
	Sep'18	Sep'19	Sep'18	Sep'19		
Sales	2,776	3,871	608	688		
Gross Profit	606	760	133	135		
Gross Margin (%)	21.8%	19.6%	21.8%	19.6%		
EBITDA*	493	583	108	103		
EBITDA* Margin	17.8%	15.0%	17.8%	15.0%		
OPEX Margin	7.6%	8.5%	7.6%	8.5%		
Net Income	290	301	64	53		
Effective Tax Rate	18.8%	19.7%	18.8%	19.7%		
WC Turnover	2.83	3.48	2.83	3.48		
САРЕХ	94	118	21	21		
Net Debt / EBITDA	2.85	3.07	2.12	3.09		
Dept./Amort	99	150	22	27		



(a) EBITDA* = Gross Profit – OPEX + Depreciation/Amortization

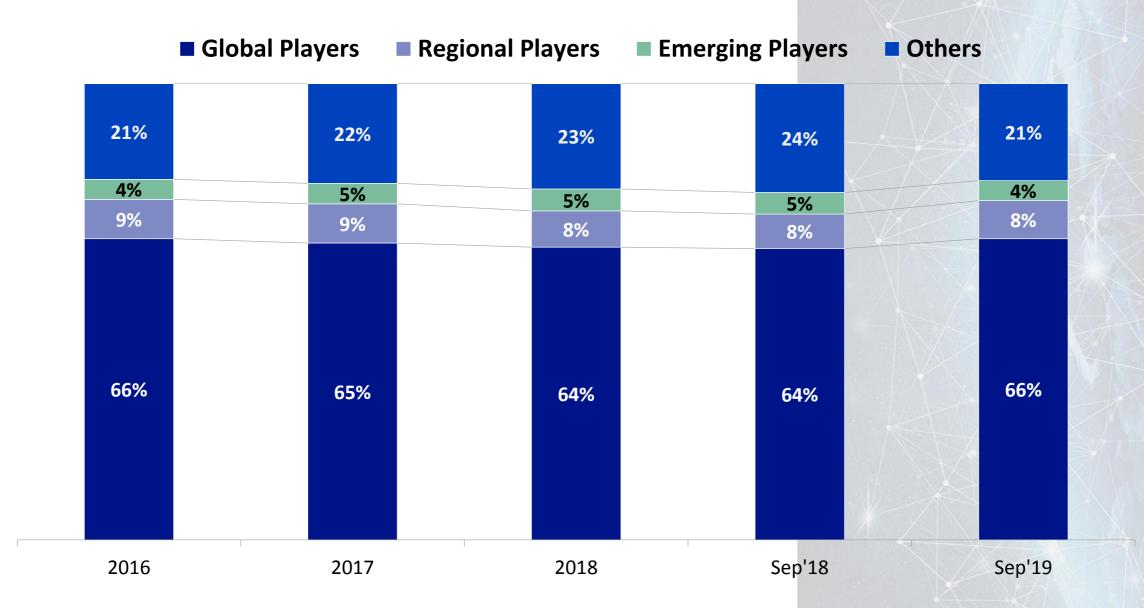
Market Leadership Based on Longstanding Strategic Partner Status with All Global Tire Players

	Length of relationship	Typical length of approval period ^(a)	Co-development projects
Global Tire Player 1	Since 1986	~ 5 years	\checkmark
Global Tire Player 2	Since 1995	~ 5 years	\checkmark
Global Tire Player 3	Since 1973	~ 3 years	\checkmark
Global Tire Player 4	Since 1985	~ 2 years	\checkmark
Global Tire Player 5	Since 1973	~ 3 years	\checkmark
Global Tire Player 6	Since 1987	~ 2 years	\checkmark



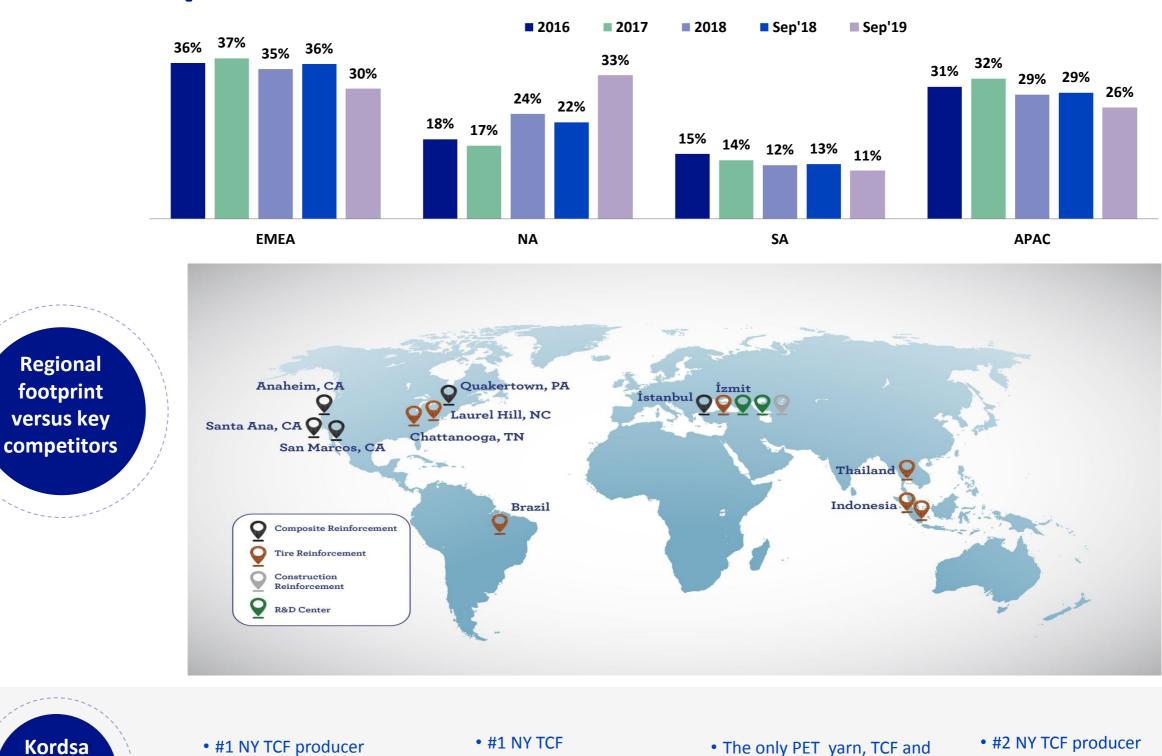
Strong barriers to entry for new comers

Capitalize on Global Footprint and Entrenched Supplier Status with All Key Tire Manufacturers -Segmental Progress





Global Footprint – Regional Breakdown of Revenues



• #2 PET TCF producer

SEC producer in LATAM



Confidential

market

position

• #1 PET TCF producer

producer in the US

Well – Positioned to Enable Volume Growth

Comments

- Fabric form contributes the highest value add
- Disciplined approach to optimizing footprint
- 2015 investment in Indonesia has increased polyester tire cord fabric capacity by 18 ktons
- Enables regional growth in technology-advantaged PET segment with global and emerging customers
- Further investment in PET HMLS for new generation yarns
 - In TR for 6-6.5 ktons completed in 1H 2019.
 - In Indo for 6,5 ktons completed in Jan-2018.

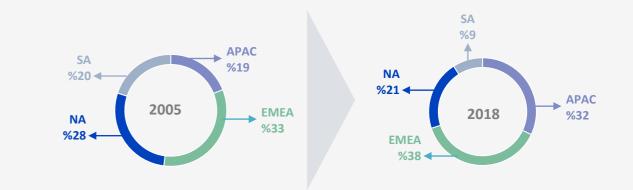
Light Vehicle Tire manufacturing market evolution



Kordsa volume development(a) 2006 2015 2017 2018 100 139 146 156 165

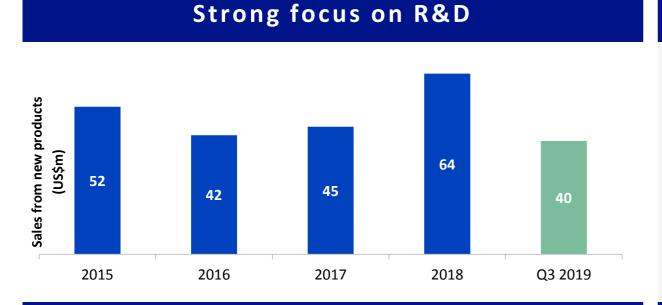
(a) Volume development adjusted for divested volumes

Kordsa regional capacity development





Technology Leadership at The Cutting Edge of Reinforcement



Selected collaborations(a)



(a) includes both, universities as well as individual academics from the names institutions

Cutting edge new products

- Rolling resistance improvements through higher modulus for high performance tires
- ✓ Protection layer for truck & bus tires; reduces tire weight
- **T802** ✓ 7% higher tenacity and better fatigue performance for aircraft tires (bias)
- **4G PET** ✓ 10% higher dimensional stability for better tire performance (improved labeling)

Leadership in Innovation and Technology

Kratos

Twixtra[®]

Participation to World of Concrete Las Vegas Expo 2019, World Tunneling Congress, Naples 2019, Sao Paulo Concrete Show 2019 and Road2Tunnel



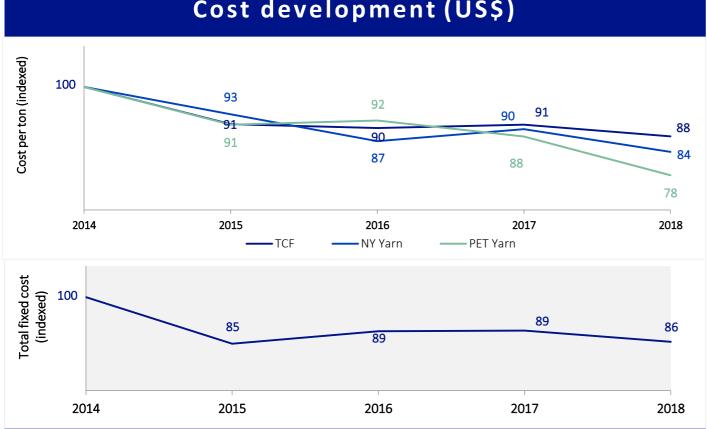
• Kordsa received the "Best Supplier Award" from Pirelli in terms of gloal presence and service level criteria



 The third meeting of the EU funded project PolynSPIRE within the Horizon 2020 program was hosted by Istanbul Chemicals and Chemical Products Exporters' Association (IKMIB) and supported by Kordsa.



Well-Positioned for Strong Cash Generation and Dividends

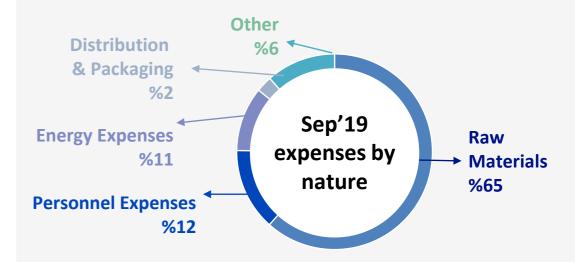


Cost development (US\$)

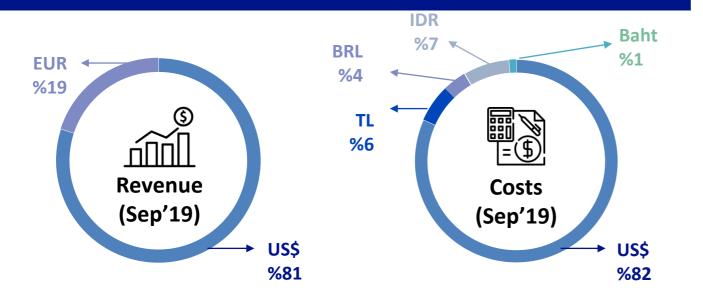
- Demonstrates value-based pricing model
- Ability to pass through raw material price volatility:

(Revenue – raw material costs) tracked as a KPI by sales team

• Conversion costs as a key metric for management KPIs (main components are personnel expenses and energy costs)



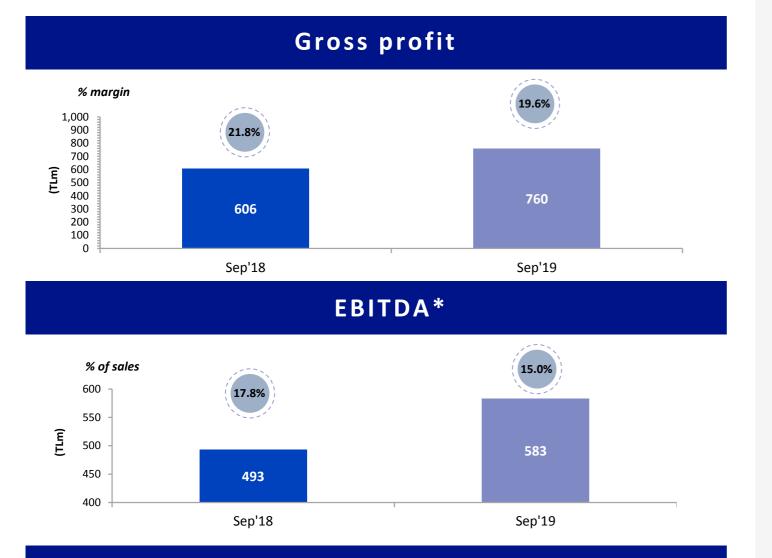
FX exposure



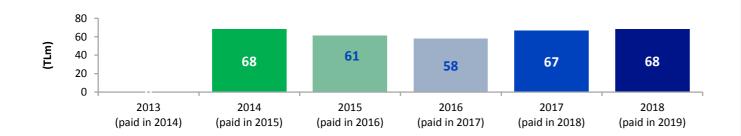
- Hard currency revenues
- FX exposure on costs => EM footprint on local costs + hard currency priced raw materials
- Benefit from US\$ appreciation vs. TL, IDR and BRL



Well-Positioned for Strong Cash Generation and Dividends



Dividend distribution



Comments

- Price is a function of
 - Value Proposal of Product including services
 offered
 - Product type (nylon vs polyester or fabric vs yarn)
 - Raw Material Price Movement (formula based pricing with adjustment on raw material indexes)

• 10 yrs avg EBITDA margin 12,0%

- Target is progressive improvement in EBITDA margins over the medium term
 - Focus on value
 - Improved Total and per kg Fixed Cost
 - Successful selling, general and administrative ("SG&A") cost reduction initiatives across all business units
 - Positive contribution of new products and adjacent businesses



EBITDA* = Gross Profit – OPEX + Depreciation/Amortization

Kordsa's Financial Policy

Our company guidance for financial year 2019 is as follows:

- Revenue : 30%-40% TL basis; 10%-15% USD basis
- EBITDA : 20%-25% TL basis; 2%-5% USD basis

Grow

External

201

Composite business segment revenue : 130-135 M\$

Kordsa is targeting progressive improvement in EBITDA margins over the medium term

Distribution of all the distributable profits

- which is lower of the Kordsa Turkey local GAAP (VUK) or Kordsa Consolidated TFRS (IFRS) net income
- in the form of cash and/or bonus shares
- subject to general assembly approval

The distribution decision is agreed taking into consideration the sizable fixed asset purchases, acquisitions, covenants of current liabilities and the Company's mid and long term strategies, national and global economic conditions

USD 23 million

EBITDA

margins

Dividend

policy

Reoccurring

Creep Capex

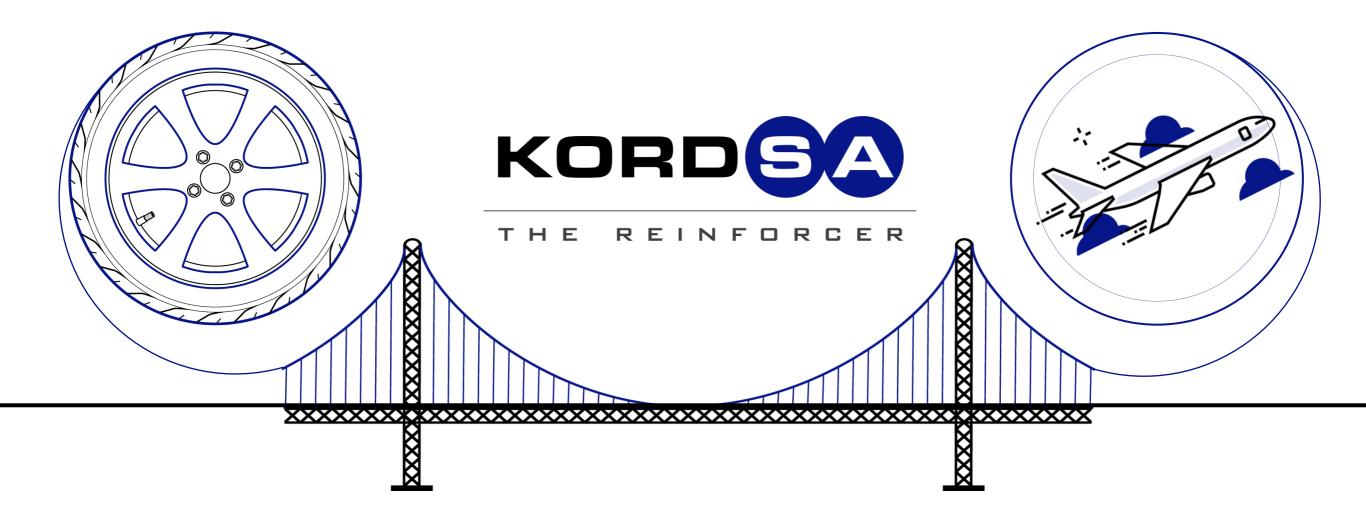
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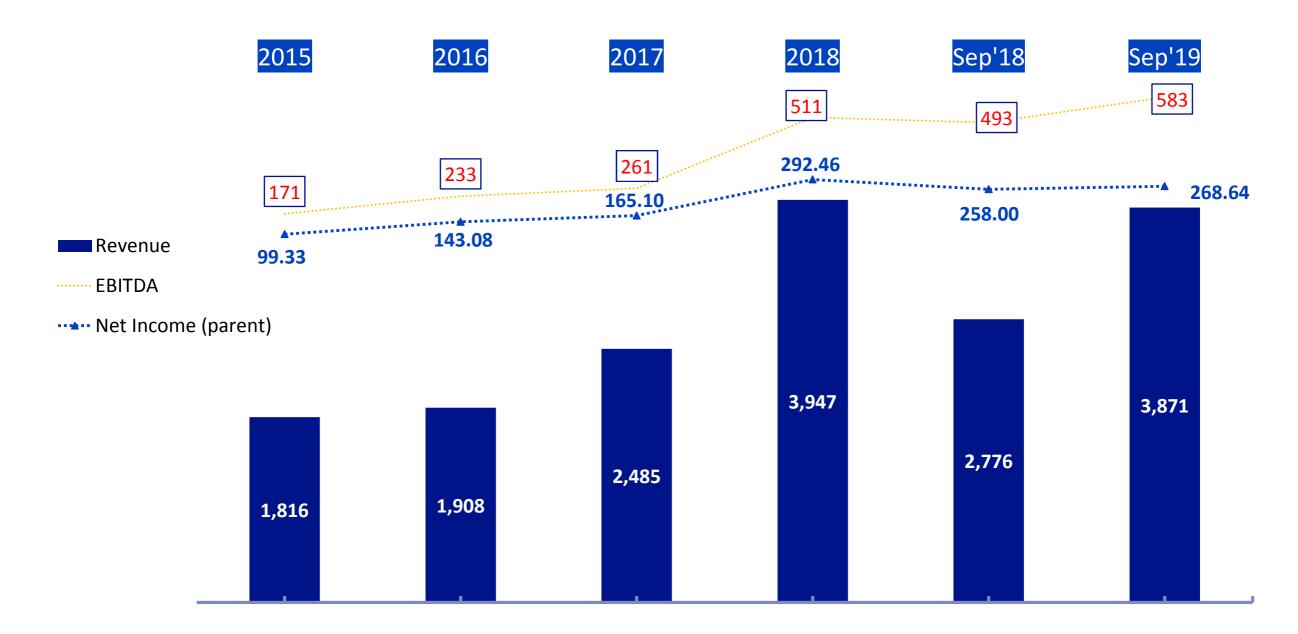
We Reinforce Life

Reinforcing 2 out of every 3 aircraft tires and 1 out of every 3 automobile tires produced in the world



Appendix

2016 – 2019 Financial Trend (MTL)



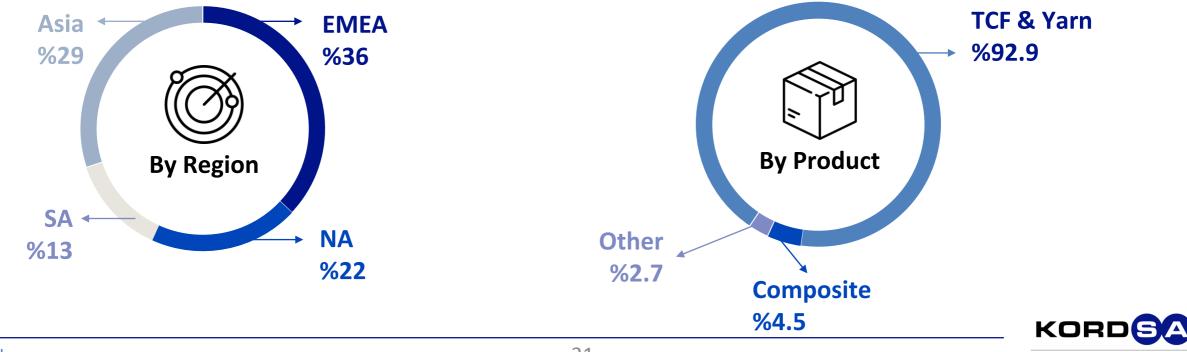


Kordsa in Brief

Sep'19 Revenue Split



Sep'18 Revenue Split



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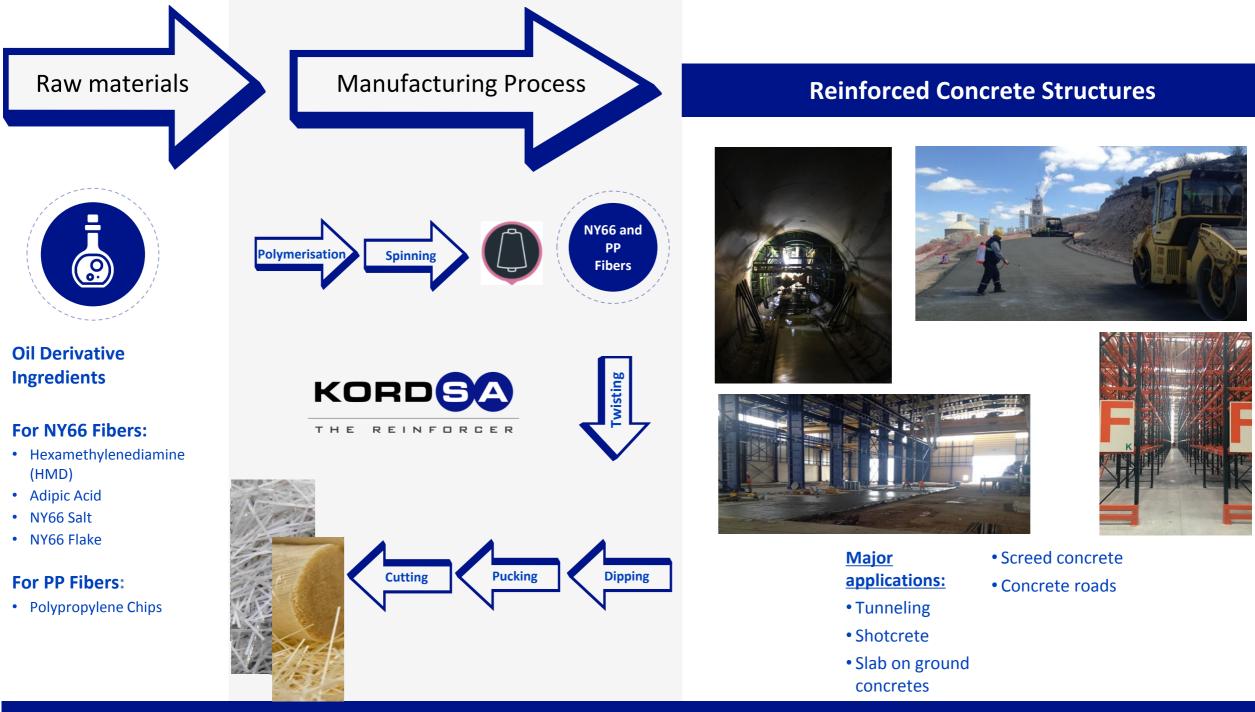
FX Rates

FX Rates as of Sep,19

Monthly Avr	Sep'19	Sep'18	2018 YE
\$/TRY	5.63	4.57	4.81
EUR/\$	1.12	1.19	1.18
\$/BRL	3.89	3.60	3.65
\$/IDR	14,173	14,052	14,237
\$/THB	31.30	32.14	32.31
Month End	Sep'19	Sep'18	2018 YE
\$/TRY	5.66	5.99	5.26
EUR/\$	1.09	1.16	1.15
\$/BRL	4.16	4.00	3.87
\$/IDR	14,174	14,929	14,481
\$/THB	30.59	32.41	32.45



Overview of The Construction Reinforcement Value Chain



Kordsa's Kratos Fiber Reinforcement are applied in Superstructure & Infrastructure Solutions



Growth Opportunities: Construction

Construction Reinforcement







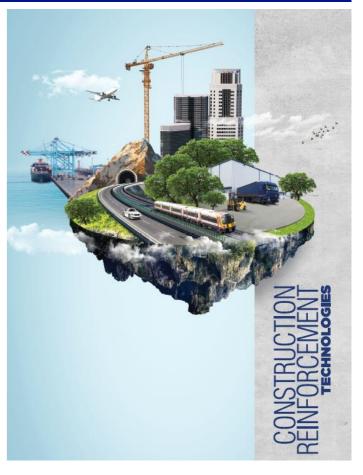
Samsun 2nd and 3rd Stage Light Railway Track Slab (Non- Conductivity Concrete Reinforcement) *KraTos Macro Reinforcement*



3rd Bosphorus Bridge Toll Booths and Electronic Pass Areas (Non-Conductivity Concrete Reinforcement) *KraTos Macro Reinforcement*



Asyaport Tekirdağ Port *KraTos Macro Reinforcement*





- KraTos Macro & Micro Synthetic Fibers are approved and applied in over 50 significant superstructure, industrial and infrastructure reference projects.
- Non-conductivity concrete reinforcement applications with KraTos Synthetic Fiber Reinforcements are approved in significant government-funded infrastructure projects.
- Kordsa İzmit Plant, R&D Concrete Lab technical and test equipment capabilities have increased. Technical Project Report service will be available for infrastructure projects.



We have launched our new Polypropylene Monofilament Fiber Reinforcement production line.

Let's check our latest post!

Discover \rightarrow



ament Fib

ine at İzmit plant started its

July 2018

Confidential