

#### Goodness for the Whole World



We reinforce life.



# Successfully Building the Future of Reinforcement





4 CONTINENTS

13
FACILITIES

+4,500 EMPLOYEES

2 R&D
CENTERS





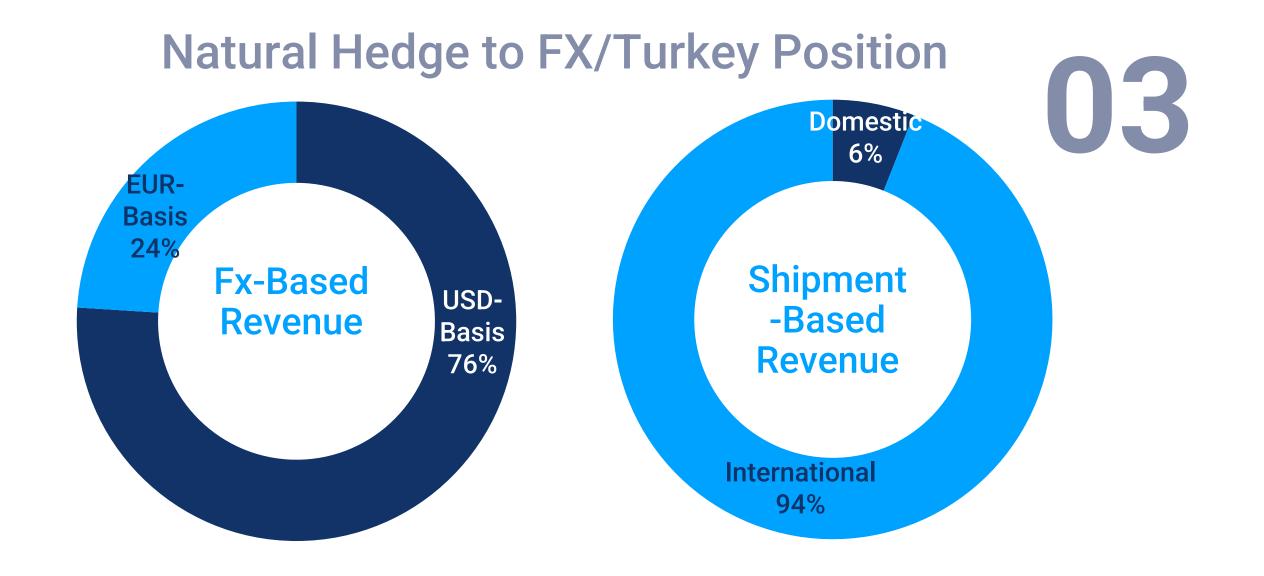
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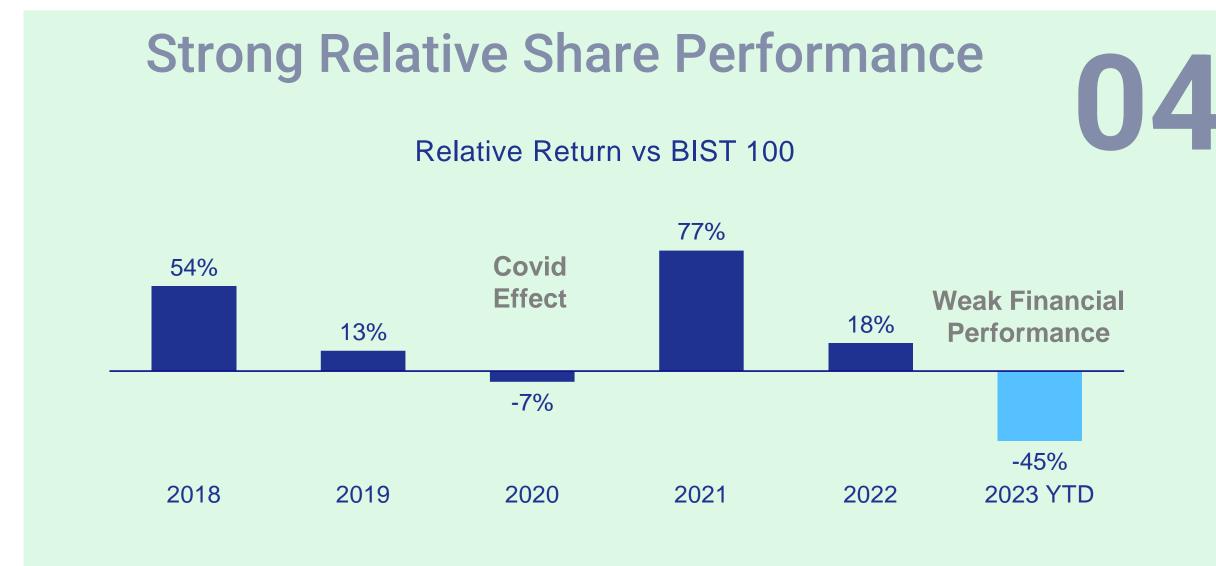
- Agile production capabilities / demand fullfillment
- #1 TCF Producer
- Leading player in Ox-Ox Ceramic Matrix Composites
- CTCE: Industry & University Partnership

#### **Trusted Partner**

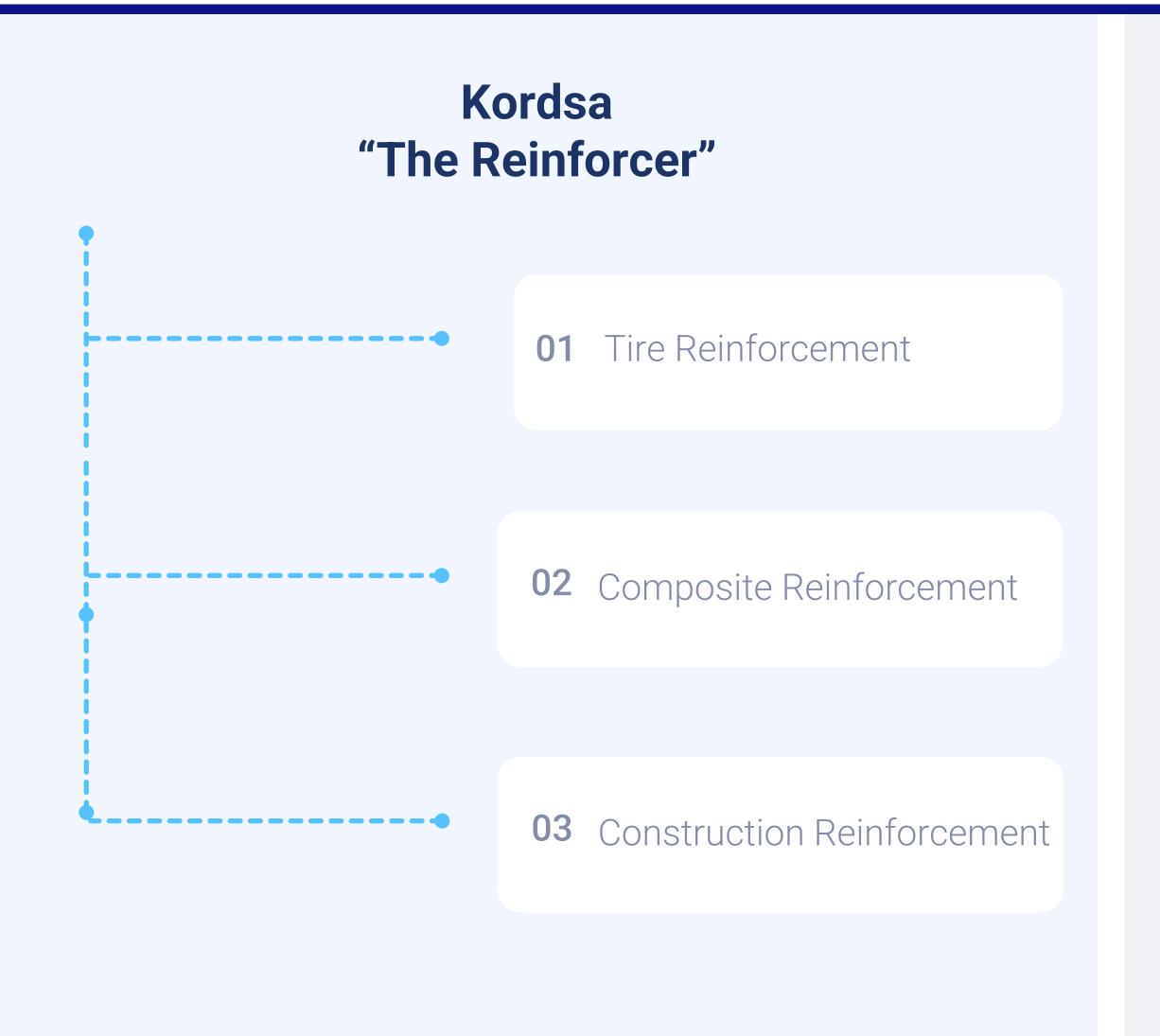
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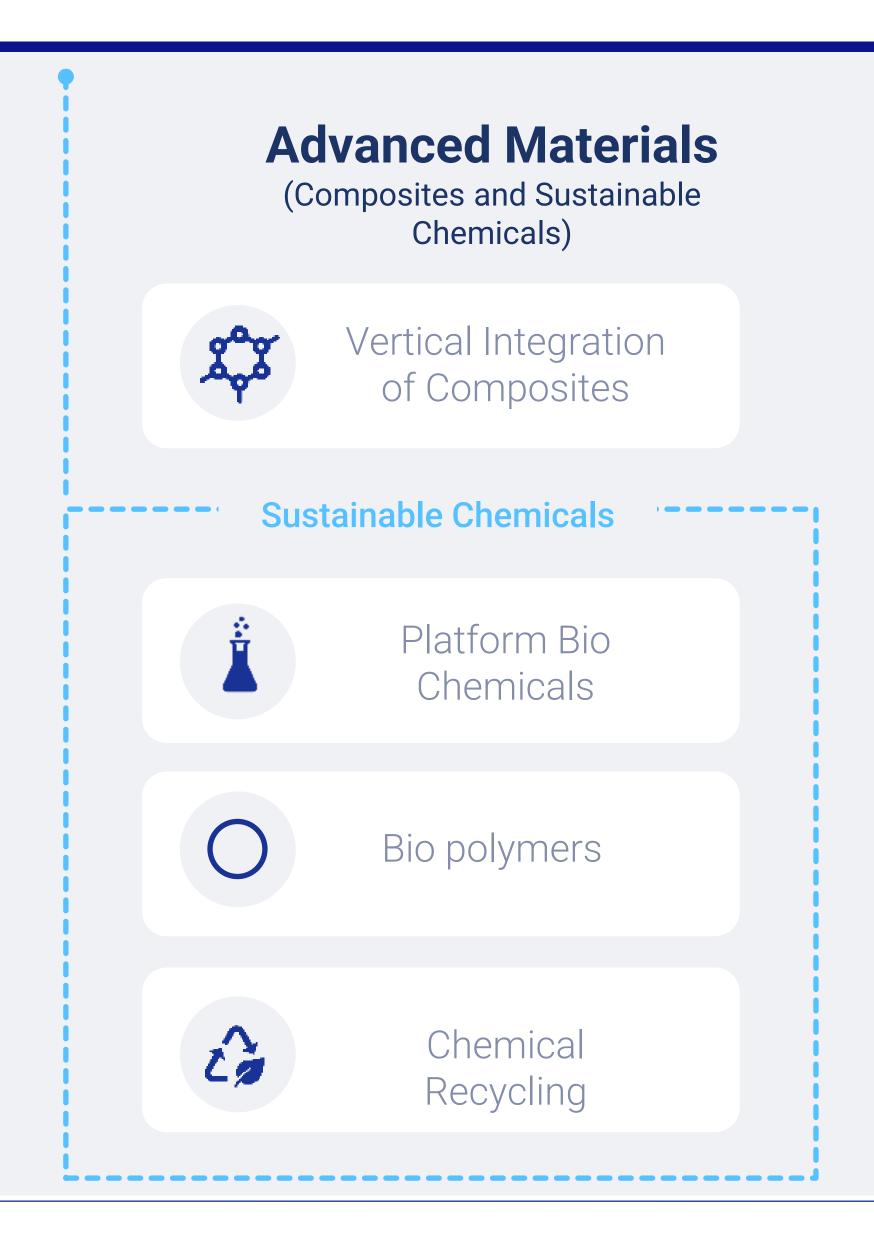
- **Description** Longstanding Strategic Partner Status with all Global Tire Players
- Sole supplier of B787 Dreamliner in NA
- Partner of Orion Capsule
- Resilient to global supply chain crisis













#### Drivers Pillars Vertical Integration Securing supply chain and sustainability targets Market $\rightarrow$ 3.5Bn USD (2022) of Composites Globally proven competitive manufacturing CAGR → **12.5**% capability **Sustainable Chemicals** Strong R&D capabilities on polymers & Large commercial value, based for bio products (Polymers, fuels, Platform Bio chemicals ingredients...) Chemicals Market → 16.9Bn USD (2022), CAGR **12.5**% (2019-25) Cost competitiveness through global high quality, lean and agile structure Competency on bio, recycled, virgin & high-performance polymers Competent workforce with strong material Bio polymers Market → **4.5Bn USD** (2021) (Polymer Market **650Bn USD**) science and engineering background CAGR > **15**% (2021-25) Emerging, advanced recycling technology to replace virgin materials Chemical Market → 55Bn USD 2021 (<3Bn USD Chemical Recycling) Recycling CAGR 18%-20% Chemical Recy. / 6%-7% Mechanical Recy.

### Evolving to an advanced materials company, Kordsa invested 300+ M\$ since 2014

Expanded our competencies to the

Growing globally by Microtex acquisition

automotive segment in Europe



Composite Technology Center	30 M\$ investment	Construction (Kratos)	Reinforcement materials for infrastructure and building
of Excellence	Industry & University Partnership		O Doubled capacity in 1H'24
			Annual +10 M\$ revenue generated
Inorganic	Invested 300+ M\$ between 2018-2022		
Growth	Became a trusted partner in the aerospace industry in the USA	R&D Platforms	Originate business through compounding, thin film, sustainable chemicals

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R&D Platforms	<ul> <li>Originate business through compounding, thin film, sustainable chemicals</li> <li>140 dedicated and competent employees</li> <li>922 patents registration, 509 registered patents</li> <li>Annual 10-12 M\$ allocated to R&amp;D activities</li> </ul>
Organic Growth	<ul><li>High-tech PET yarn</li><li>TCF Capacity Increases in USA</li></ul>

### Despite all difficulties, we are moving forward



#### Kordsa Composite Revenue (M\$)





- Overall reduction of airline passengers by 60% compared to 2019
- Focus on product & market diversification
- Expanding our competencies to automotive industry & Europe through Microtex
- Building a new technology center in Munich to reach out to European composite & construction customers

#### We believe in Sustainability





Science based objectives for challenging 1.5°C scenario



Sustainable Products
Collaborative and
Free Licensing

Out of 90,000 companies

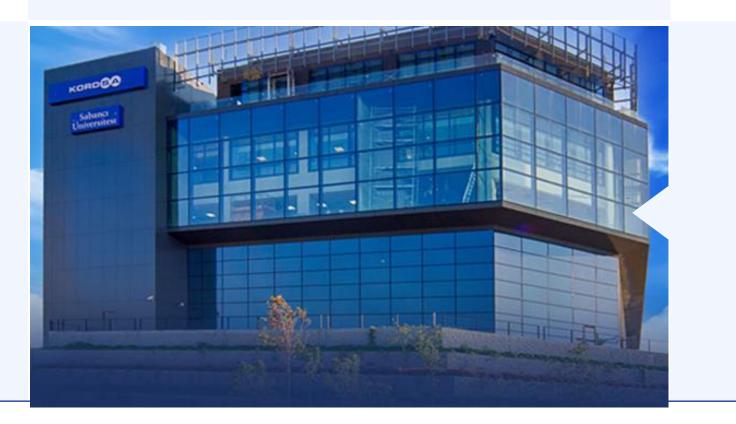


Supplier Engagement and Water Security leaders





Entered Istanbul Stock Exchange Sustainability Index for the 6<sup>th</sup> time



Turkey's best R&D Center for the 4<sup>th</sup> time

## Our competencies support us in evolving to an advanced material company



#### Excellence

- Global Integrated & Agile Manufacturing Footprint
- High-end production capabilities (hybrid, UHT products)
- TPM Excellence Awards (Turkey and Indonesia)
- Competitive landscape visibility
- Machine and design capability

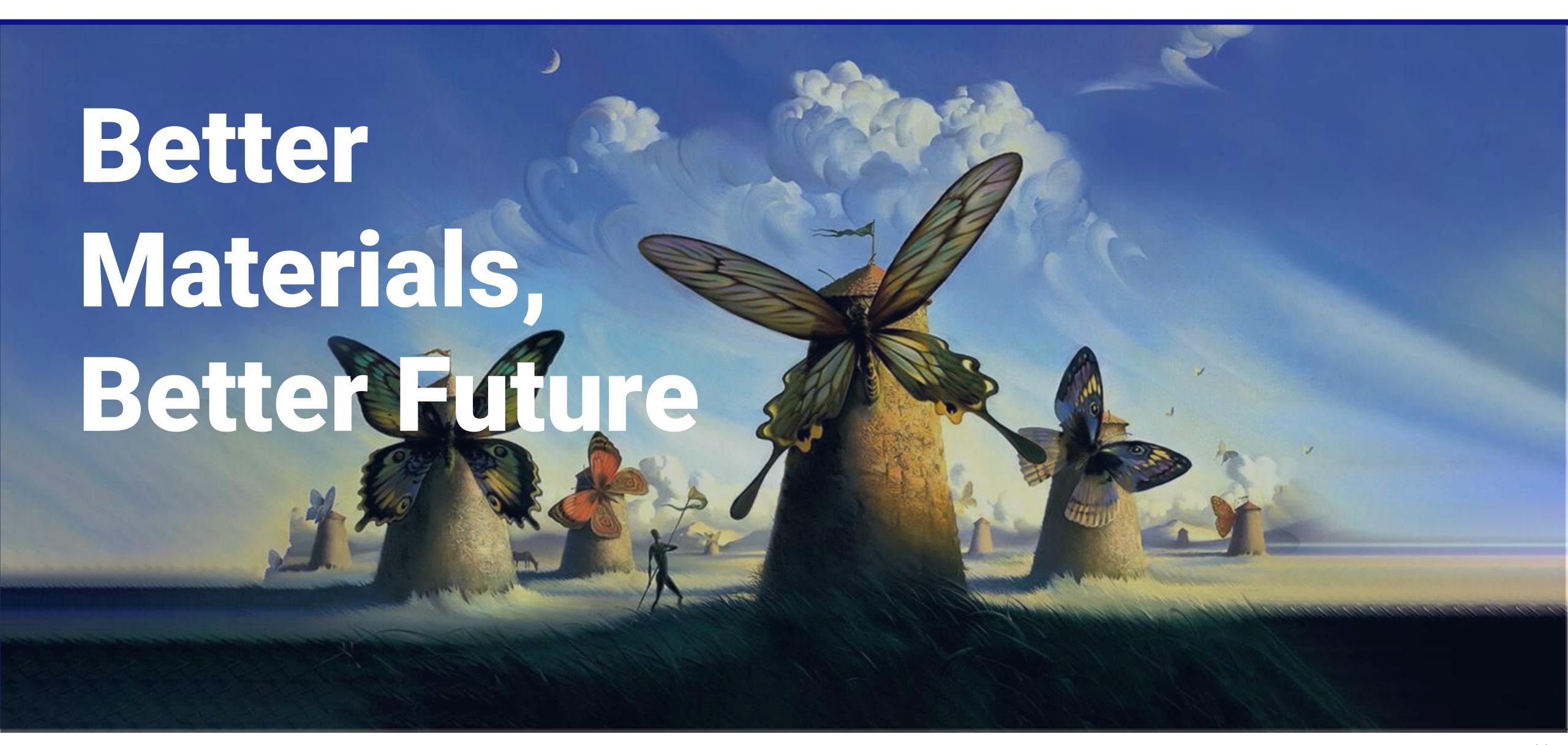
#### People

- Great Place to Work for 5 plants
- Recognition Awards
- 37% Women in White Collars
- Competent Workforce with Ms/Phd degrees in Global Technology
- Future of Work People Oriented Approach

#### **Digital**

- Global ERP Project
- Connected Automation
- Artificial Intelligence
- Cybersecurity
- Augmented / Virtual Reality Applications
- RPA Applications





# Thank You



# Industrial / Solid Positions



**OPERATIONS** 



FINANCIALS





### Inspired to Reinforce Life for a Better Today and Tomorrow



Our sustainability strategy has been created within the framework of our material issues and is in harmony with our business strategy. Our enablers through our sustainability journey are Technology and Digitalization.

#### Passion for Business Excellence

Efficiency and improvements in our own operations to create a positive impact in our value chain and to accelarete low carbon transition.

# Responsibility for People

- We commit to a non-discriminative, safe and healthy working environment for all.
- Investing in community development with our social responsibility projects

# Innovation for Sustainable Materials

With high value added sustainable product portfolio Kordsa is facilitating in transition to a low carbon economy with lighter products than alternatives.

### Targets and Awards



### Kordsa Sustainability Targets



2030

**46.2** % Emission Reduction



2030

**50%** water withdrawal reduction per unit tonnage product



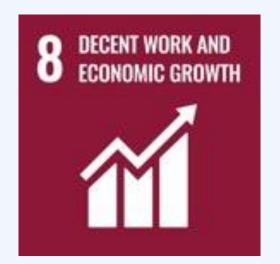
2030

**50%** total waste reduction per tonnage product



2025

**45%** Women employment



Zero Accident

### Kordsa Awards & Recognition



Approval from SBTi for emission reduction targets.



2022 CDP Turkey Climate Changeand Water Leader(A-Global List in the world for water)



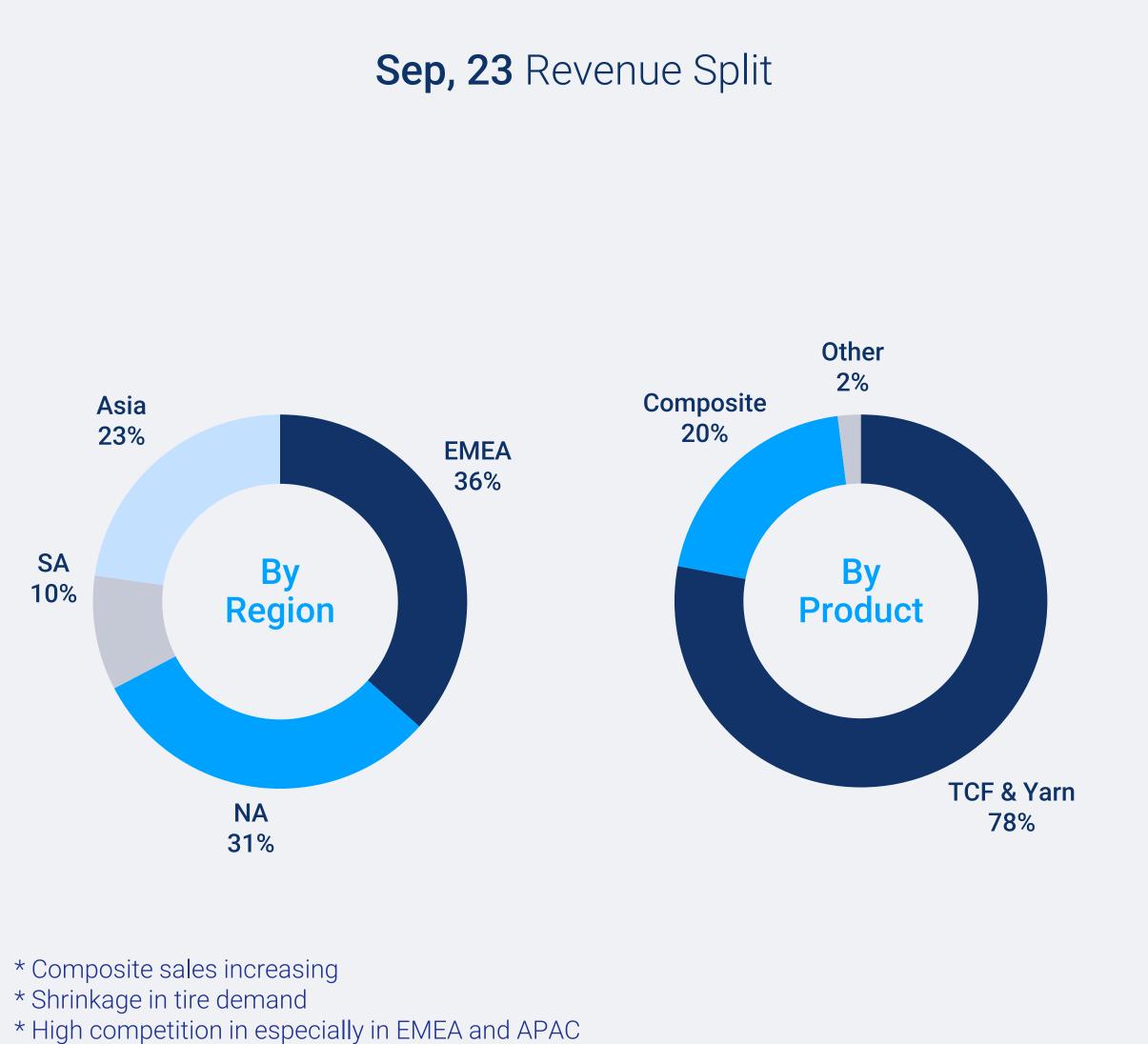
Ecovadis **Gold Medal** 



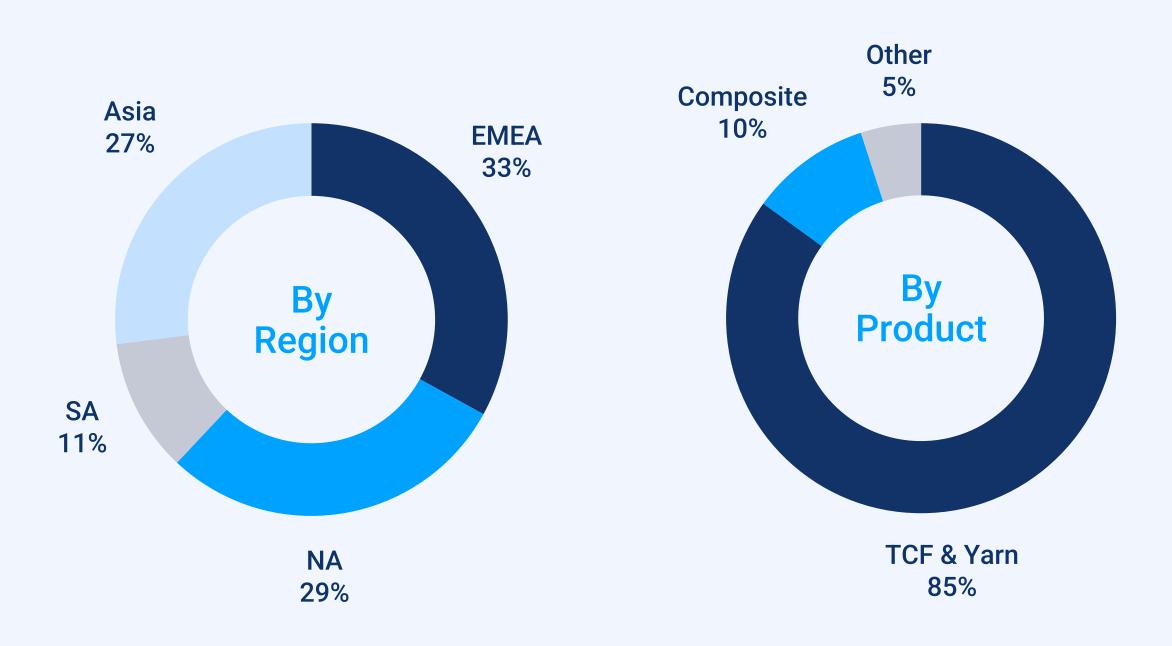
Entered Istanbul Stock Exhance Sustainability Index **for the 6th time** 

# Growth in NA contribution thanks to strong composite results





Sep, 22 Revenue Split



#### Tire Cord Fabric Value Chain

HMD

Adipic Acid

NY66 Polymer

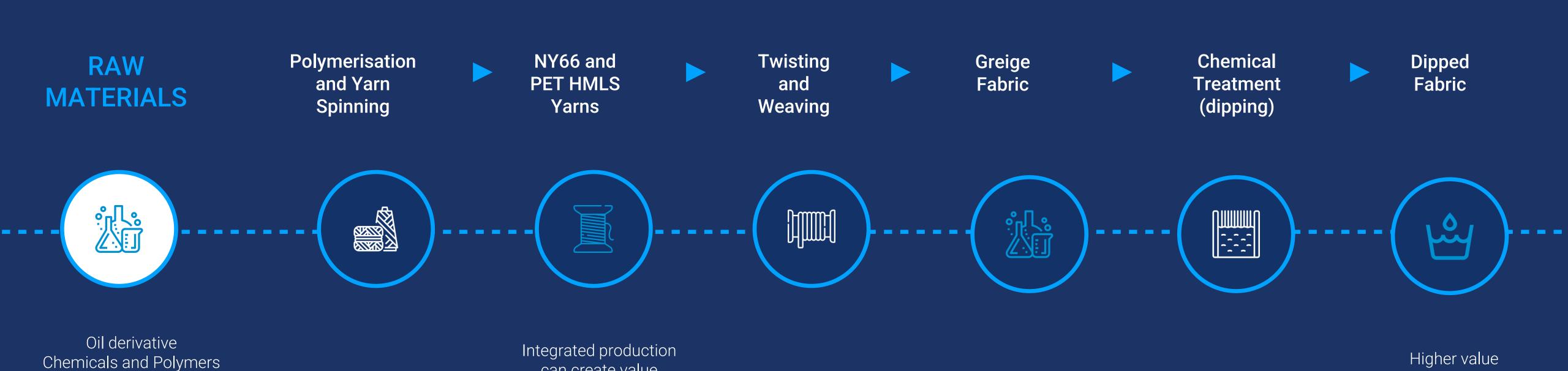
PET Polymer



added from

dipped fabric

#### MANUFACTURING PROCESS



Kordsa fabrics are developed for specific requirements and are custom made

can create value

compared to other

competitors

## Where do our products go...

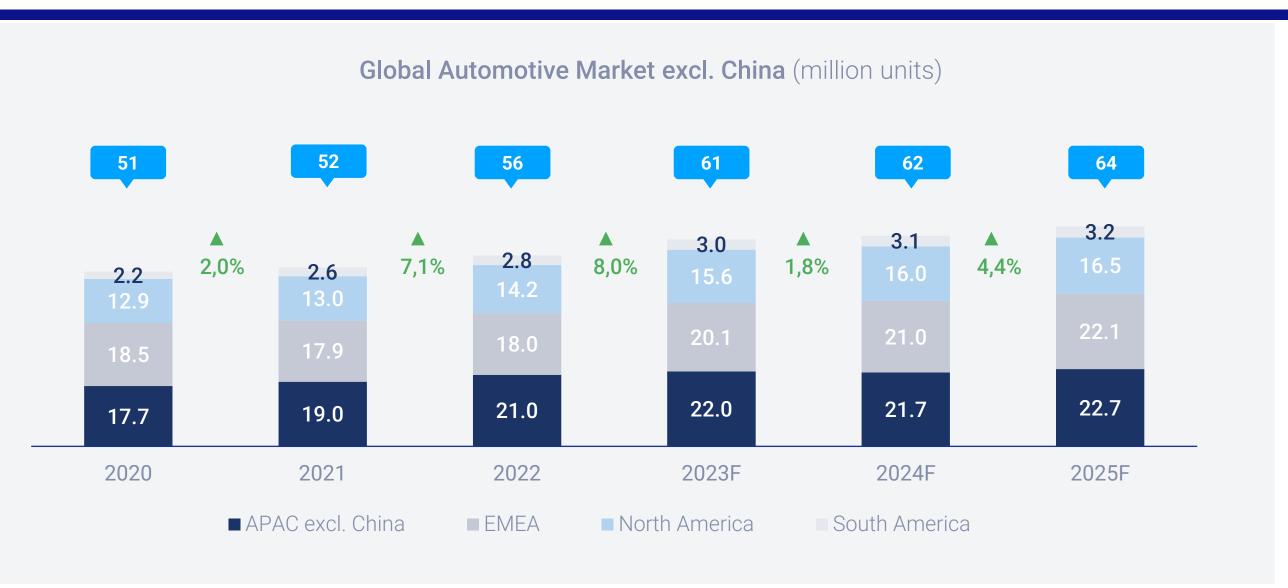


- O1 A tire is a highly complex composite with approx. 40 components working under dynamic conditions enduring heat and motion
- NY66 typically used in cap plies
- O3 PET typically used in radial plies
- 04 By weight: 350-450gr per tire
- O5 By value => Approx 7-10% cost of a tire is Tire Cord Fabric

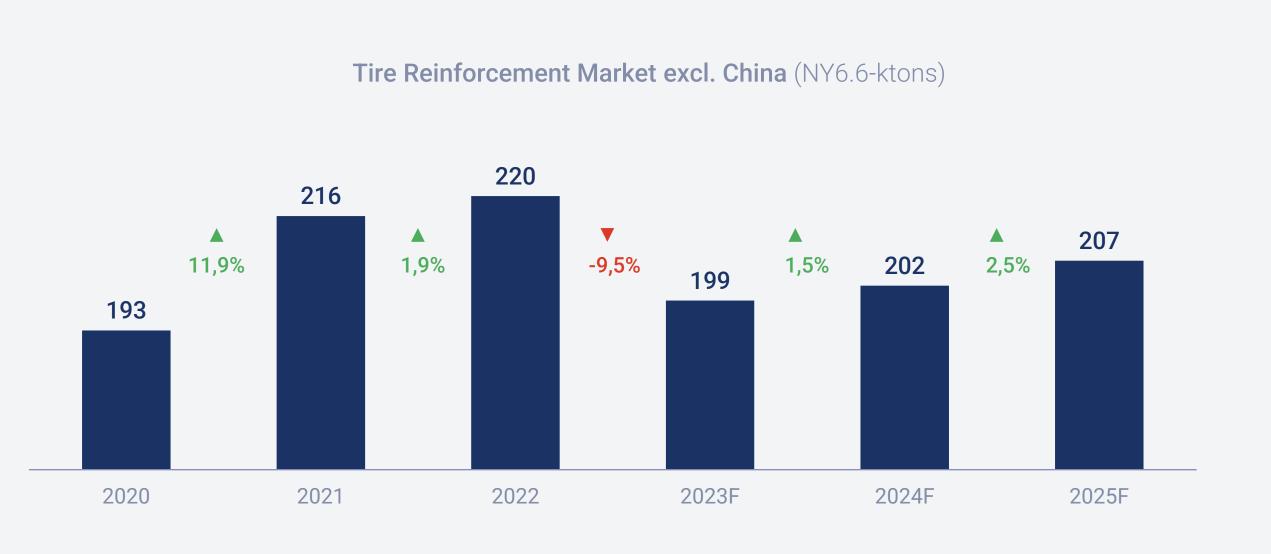


### Ongoing Decline in Global Tire Reinforcement Market





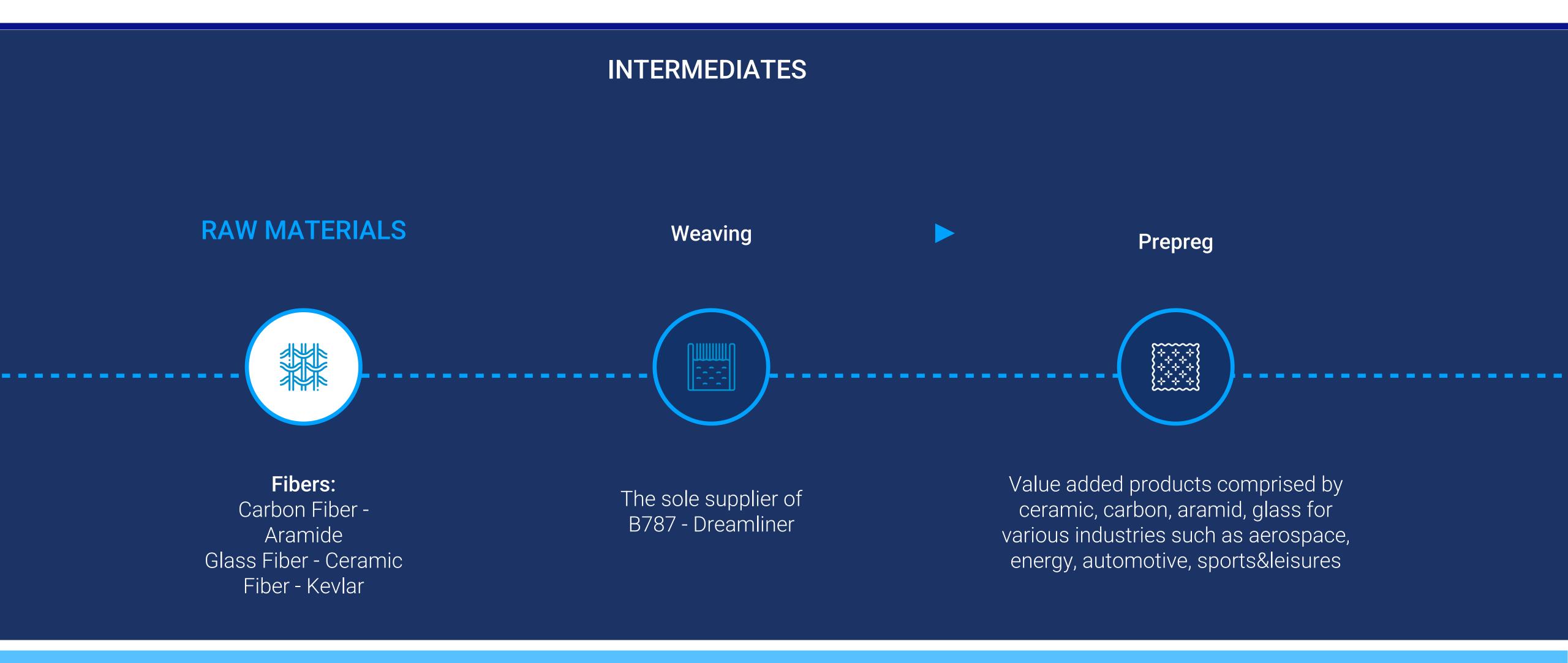






#### Composite Value Chain





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

# Composite Value Chain



# **COMPOSITE**PARTS

Composites use in aerospace & automotive is increasing, due to improved material properties and weight savings over conventional materials

«Lightweighting» is a major theme, driven by emission regulations as well as fuelefficiency needs



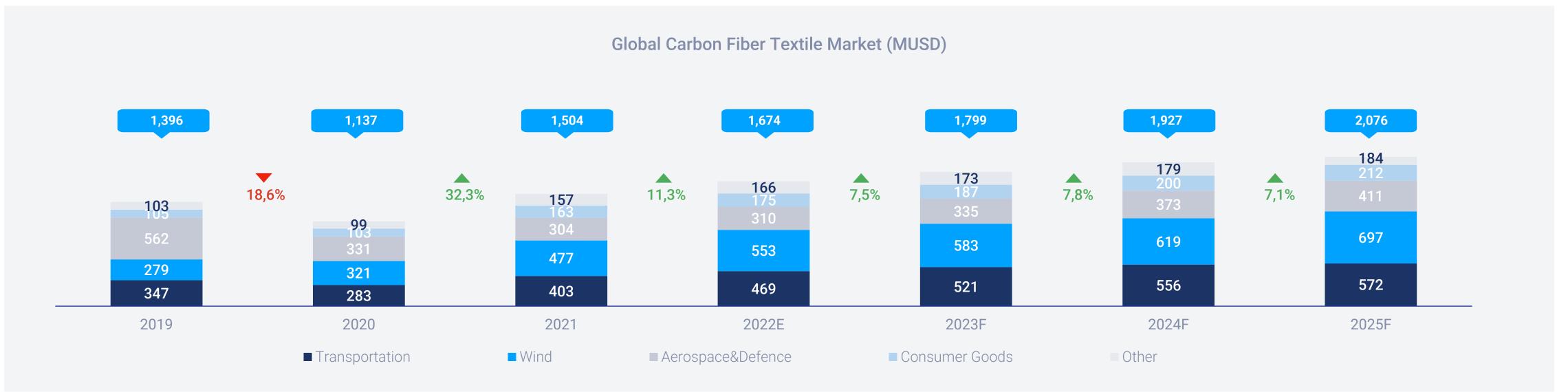




### Positive Outlook for the Composite Market 2023 and Beyond







#### Construction Value Chain





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

#### Construction Value Chain



# **REINFORCED** CONCRETE STRUCTURES

#### MAJOR APPLICATIONS

- Infrastructure projects (tunnels, runways, dams, bridges, metro tracks, highways)
- Mines









### Successfully Building the Future of Reinforcement





#### **Business Excellence**

- Operational Excellence: Safe and reliable operations, competitive cost
- Digital Transformation: Data analytics and Artificial Intelligence, Robotics and Automations, Cybersecurity
- **Solution** Effective Finance & Risk Management
- Commercial Excellence

#### Growth

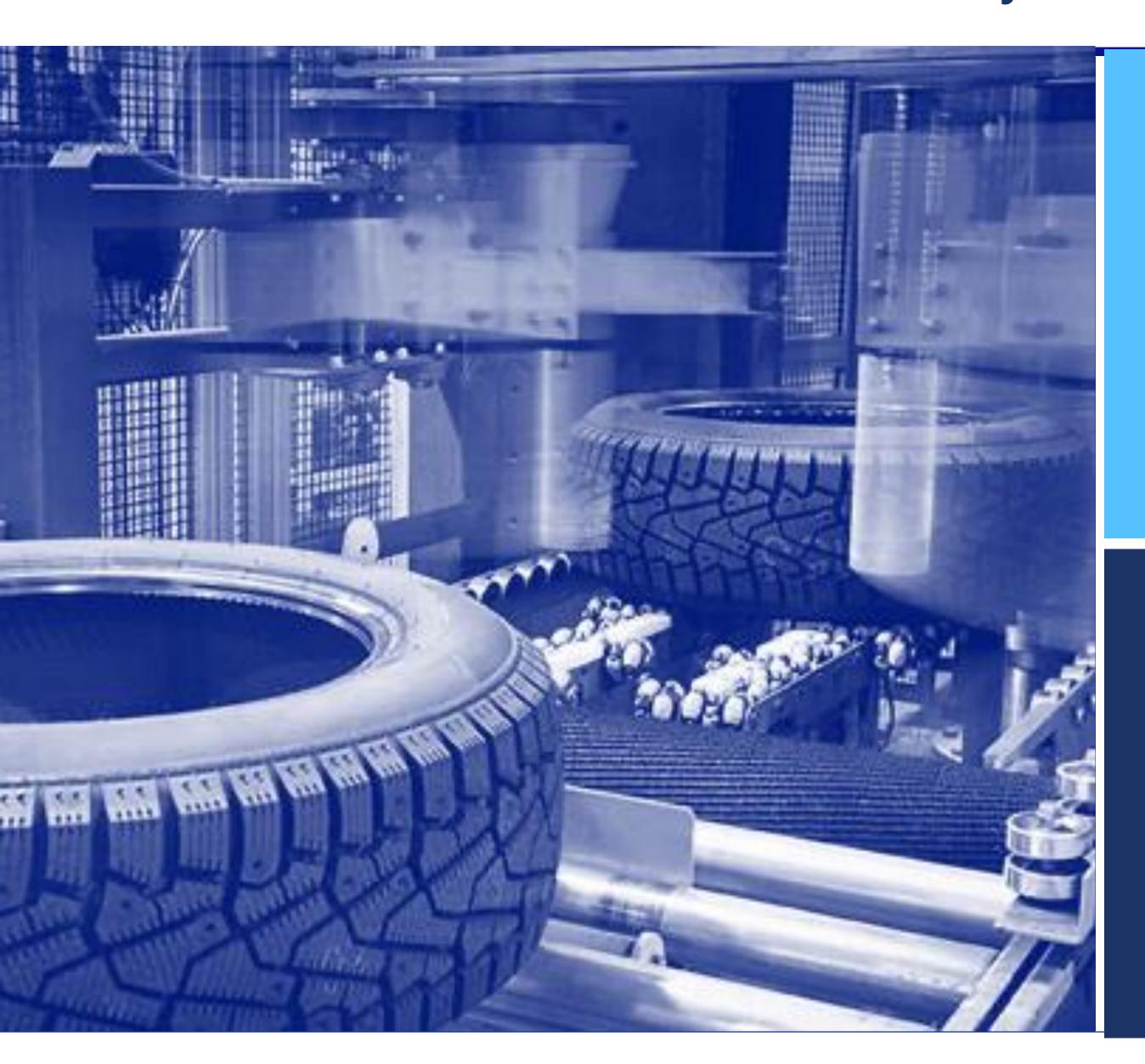
- Growth in Tire Industry:
  Improve approved product
  base
- Growth in Composite
  Industry: Realization of
  growth business plan for
  composites, increase
  market penetration speed
  via acquisitions
- Growth in New Industries

#### Innovation

- Innovation in Material Science
- Innovation in Tire Technology
- Innovation in Composite Technology
- Effective Innovation Management

# Industrials / for the Future of Mobility





FINANCIALS



**OPERATIONS** 



# Ongoing challenging externalities impact financial performance



USD Financials (MUSD)							
	H1'22	H1'23	Δ	3Q'22	4Q'22	1Q'23	2Q'23
Sales	885	772	-12.8%	269	276	255	241
Gross Profit	173	115	-33.5%	39	41	37	37
Gross Margin (%)	19.5%	14.9%	-4 pts'	14.5%	14.8%	14.4%	15.2%
OPEX (%)	9.3%	10.5%	1 pts'	11.5%	10.2%	10.8%	10.5%
Operating Profit	90	40	-55.8%	14	14	11	14
Operating Profit Margin (%)	10.2%	5.2%	-5 pts'	5.4%	5.1%	4.2%	5.7%
EBITDA	92	64	-30.0%	16	23	19	22
EBITDA* Margin (%)	10.4%	8.3%	-2 pts'	6.1%	8.3%	7.5%	9.3%
Net Income	82	6	-92.1%	13	5	-2	3
Net Income (%)	9.3%	0.8%	-8 pts'	4.9%	1.7%	-0.8%	1.3%

#### **Hard Currency Revenue**

68

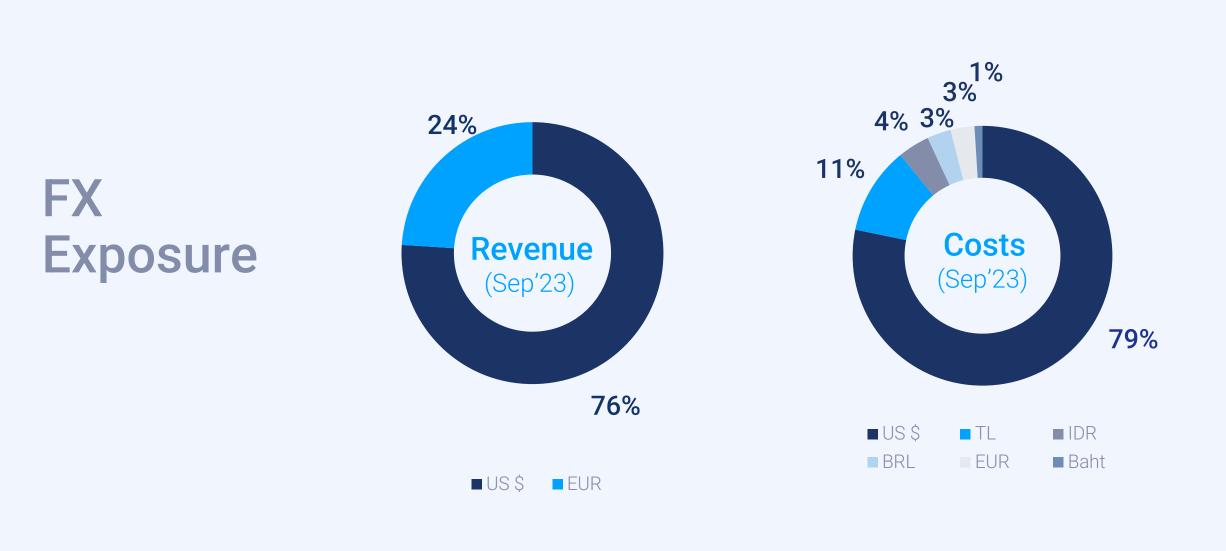
2018 (paid in

2019)

DIVIDEND

(MTL)





49

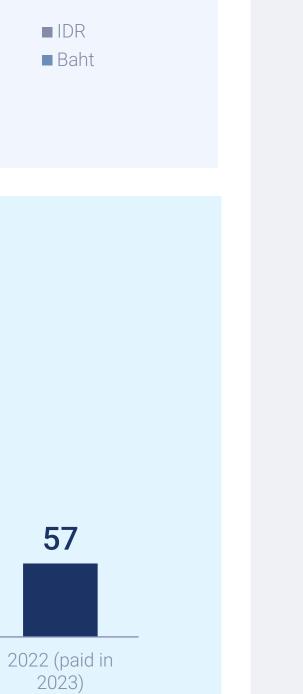
2019 (paid in

2020)

0

2020 (paid in

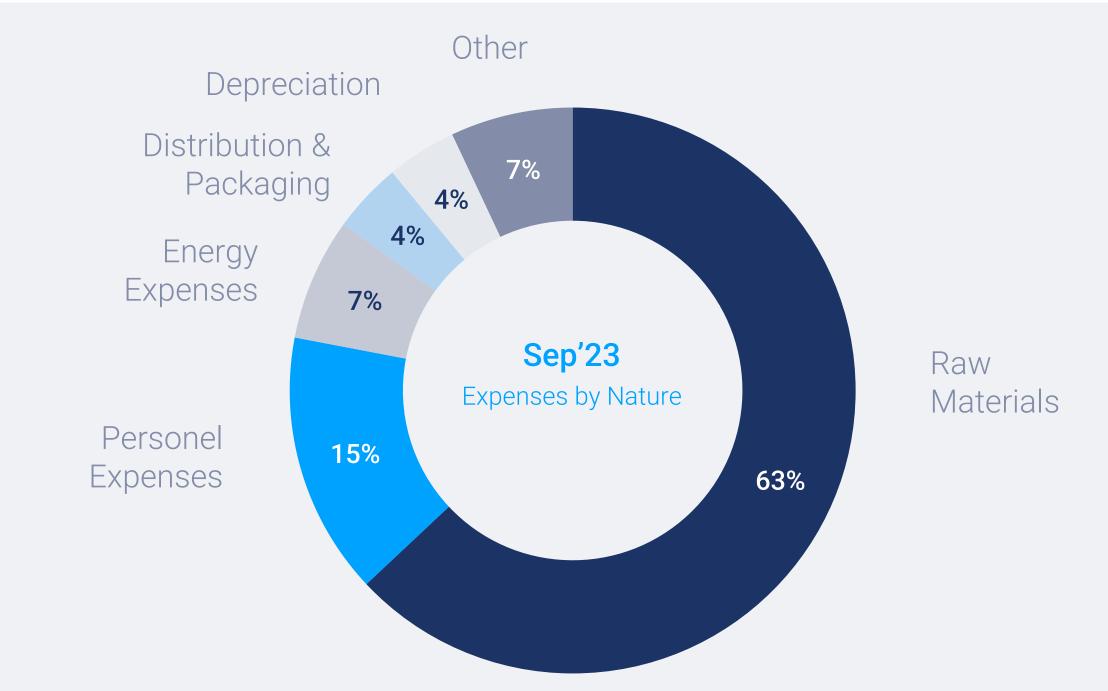
2021)



160

2021 (paid in

2022)



- 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)

- 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

### Through stock optimization and production planning







#### **INVENTORIES DOWN 29% Y-O-Y**

Driven by low demand in tire reinforcement, efficient inventory management and rm price decreases

#### **RECEIVABLES DOWN 30% Y-O-Y**

Driven by low demand in tire and rm price decreases

#### **PAYABLES DOWN 31% Y-O-Y**

Driven by low demand in tire and rm price decreases and goods-in transit effect

	Amo	Avg. Int. Rates		
М\$	31.12.2022	30.09.2023	%	
Net Debt	379	310		
USD-Basis	307	274	8.1%	
EUR-Basis	83	40	7.7%	
TRY-Basis	25	50	12.1%	
Other Currencies	7	3	5.4%	
Cash & Cash Equi.	-43	-57		

#### What's Next



#### **GROWTH PLANS**

Polyester Line, Construction (Kratos), Single End Cord (SEC) in Turkey Dipping Unit in the USA

#### COST IMPROVEMENT FOCUS

CASH MANAGEMENT & IMPROVING NET DEBT LEVEL

PRODUCT/SECTOR DIVERSIFICATION in COMPOSITE GROWING in AEROSPACE & NON-AEROSPACE

### Balance Sheet



	TL	TL Financials (MTL)			USD Financials (MUSD)		
	YE 2022	Sep 2023	Δ	YE 2022	Sep 2023	Δ	
Cash and Cash Equivalents	799	1,564	765	43	57	14	
Account Receivables	3,860	4,437	578	206	162	-44	
Inventories	5,497	6,174	677	294	226	-68	
Other Current Assets	989	1,469	479	53	54	1	
PPE & Intangibles	8,131	11,869	3,738	435	434	-1	
Investment Property	426	624	198	23	23	0	
Goodwill	2,515	3,682	1,167	135	135	0	
Other Non-Current Assets	1,352	1,852	500	72	68	-5	
Account Payables	2,972	3,449	477	159	126	-33	
Total Debt	7,900	10,078	2,178	422	367	-54	
Short Term Debt	4,804	4,558	-246	256	166	-90	
Long Term Debt	3,096	5,519	2,424	165	201	36	

#### Kordsa Income Statement 1H'23



	TL Financials (MTL)						
	Sep'22	Sep'23	Δ	4Q'22	1Q'23	2Q'23	3Q'23
Sales	13,761	18,770	36.4% •	4,679	5,194	5,012	8,564
Gross Profit	2,683	2,791	4.0%	676	768	724	1,299
Gross Margin (%)	19.5%	14.9%	-4 pts' ▼	14.5%	14.8%	14.4%	15.2%
OPEX (%)	9.3%	10.5%	1 pts' ▲	11.5%	10.2%	10.8%	10.5%
Operating Profit	1,399	967	<b>-30.8%</b> ▼	251	265	212	490
<b>Operating Profit Margin (%)</b>	10.2%	5.2%	-5 pts' ▼	5.4%	5.1%	4.2%	5.7%
EBITDA	1,429	1,563	9.4%	287	431	378	788
EBITDA* Margin (%)	10.4%	8.3%	-2 pts' ▼	6.1%	8.3%	7.5%	9.2%
Net Income	1,279	157	<b>-87.7%</b> ▼	230	90	-40	107
<b>Effective Tax Rate (%)</b>	-17.3%	-57.2%	-40 pts' ▼	366.5%	-21.9%	-149.7%	-38.1%
Net Income (%)	9.3%	0.8%	-8 pts' ▼	4.9%	1.7%	-0.8%	1.3%