

# CORPORATE PRESENTATION

June 2016



5<sup>th</sup>

Greek  
Investment  
Forum  
in NY  
June 21|22, 2016



 **THRACE GROUP**  
A WORLD OF MATERIALS & SOLUTIONS



**Converting polypropylene into a  
World of Material & Solutions for over 35 years**



# 2 BUSINESS UNITS

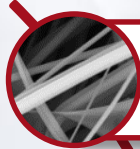
## TECHNICAL FABRICS



## PACKAGING SOLUTIONS



**THRACE GROUP  
AT A GLANCE**



Converting **100k MT of PP** per year



Operations in **11 countries**



**28 different** production technologies



**53% production** / **17% sales** in Greece



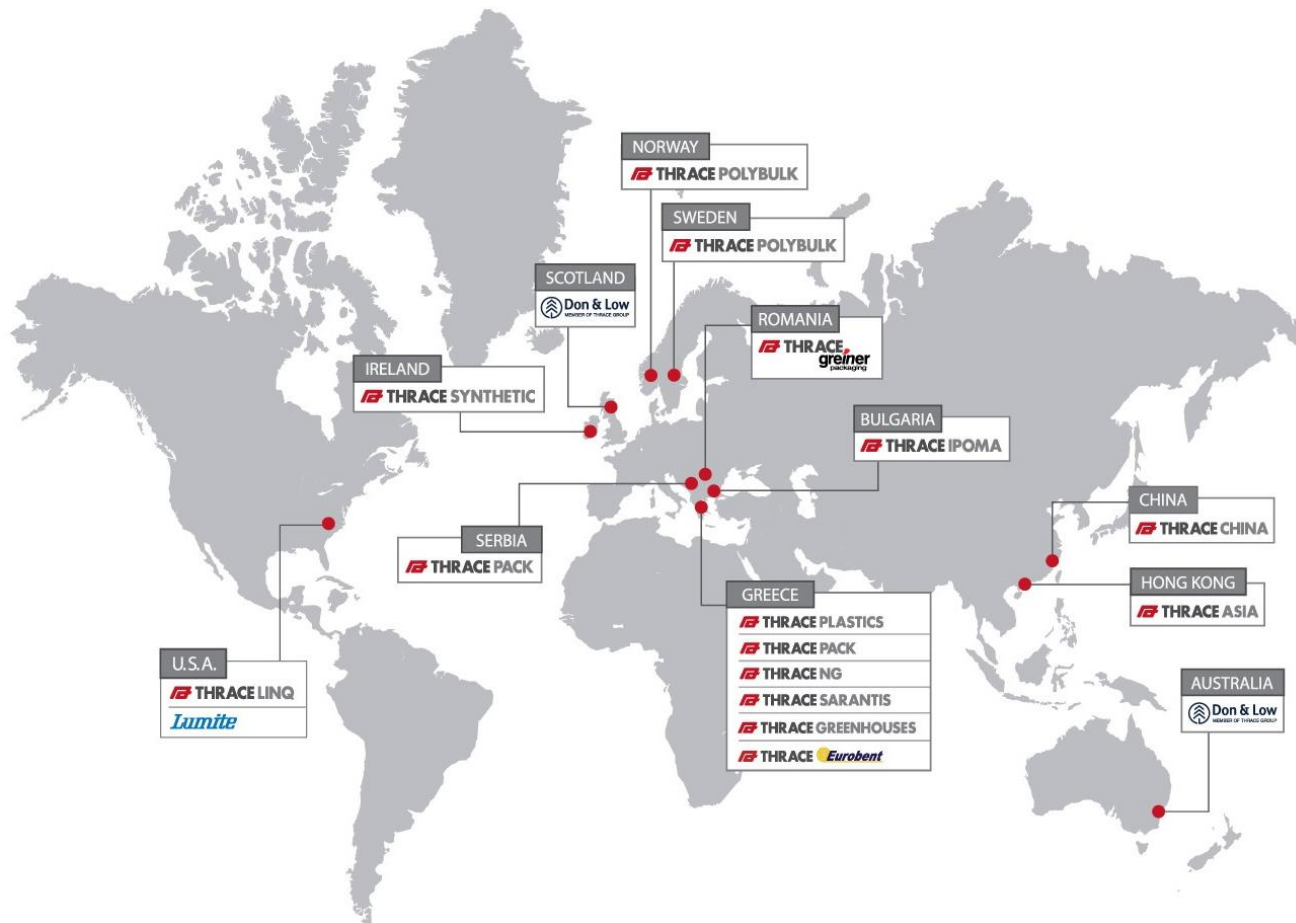
Sales network in **80 countries** / Sales in **24 market segments**



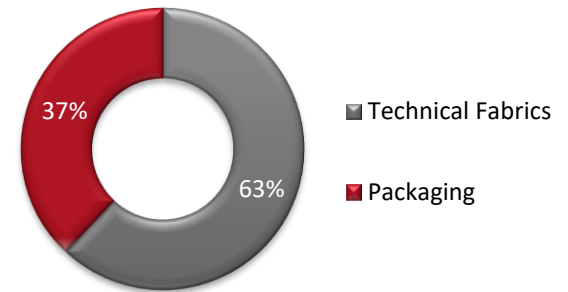
FY 2015 Group Sales **290 mil €** / CAPEX **32 mil €**



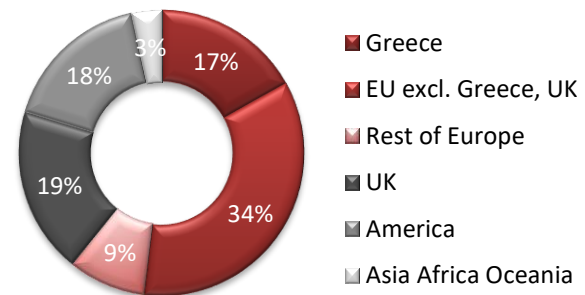
**1,668** employees



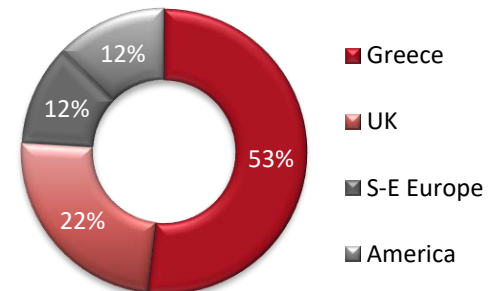
### Sales – BU Contribution\*



### Sales Geographical Breakdown\*



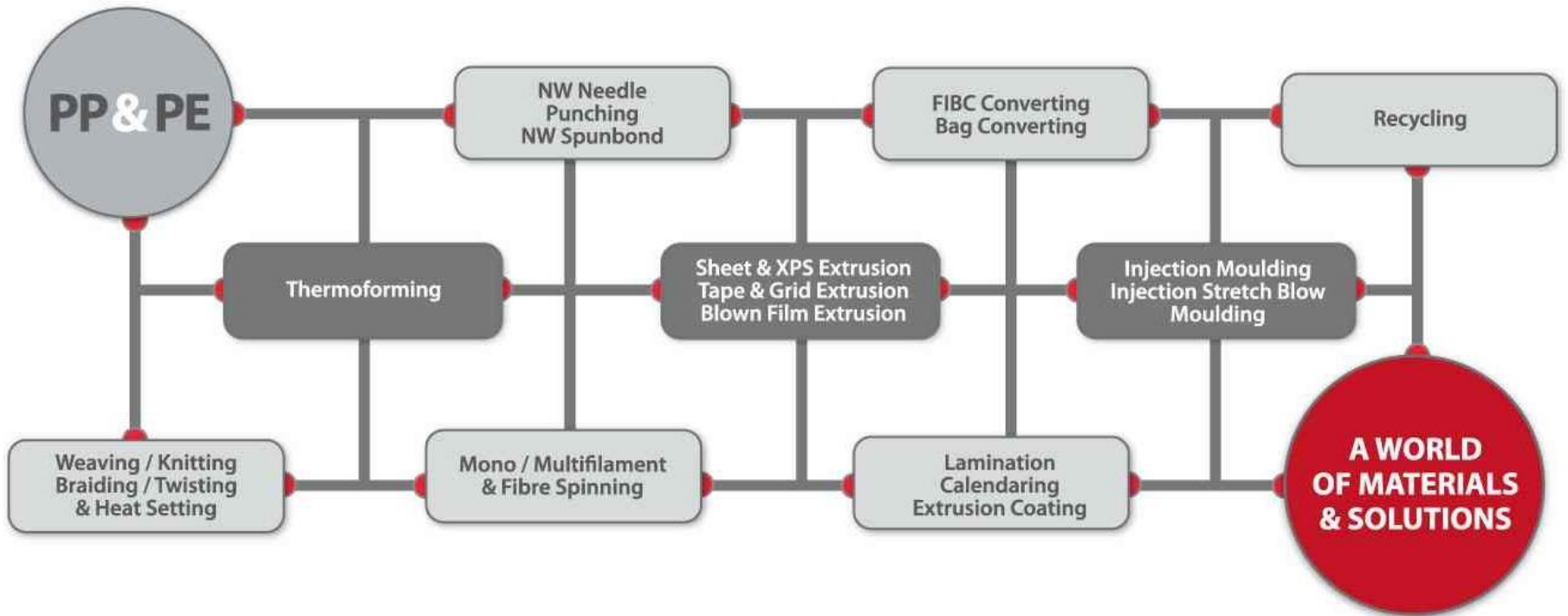
### Production Geographical Breakdown\*



\*FY 2015 figures

## 28 different production technologies from processing to finishing

Innovation | Vertical integration | Flexibility | Cost effectiveness



TECHNICAL FABRICS DIVISION TECHNOLOGIES

PACKAGING DIVISION TECHNOLOGIES



# TECHNICAL FABRICS

BUSINESS  
UNIT

# TECHNICAL FABRICS BUSINESS UNIT | PRODUCTS BY APPLICATION



**GEOSYNTHETICS**



**CONSTRUCTION**



**AGRI/HORTICULTURE  
AQUACULTURE**



**LANDSCAPE-  
GARDENING**



**SPORT & LEISURE**



**MEDICAL & HYGIENE**



**FILTRATION**



**FURNITURE &  
BEDDING**



**AUTOMOTIVE**



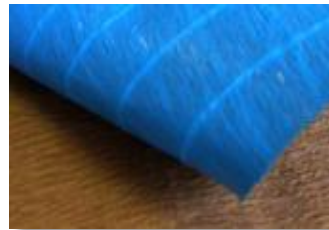
**PACKAGING FABRICS**



**ADVANCED FABRICS/  
COMPOSITES**



**FLOOR COVERING**



**INDUSTRIAL FABRICS**



**ARNO WEBBINGS/  
STRAPS/ ROPES**



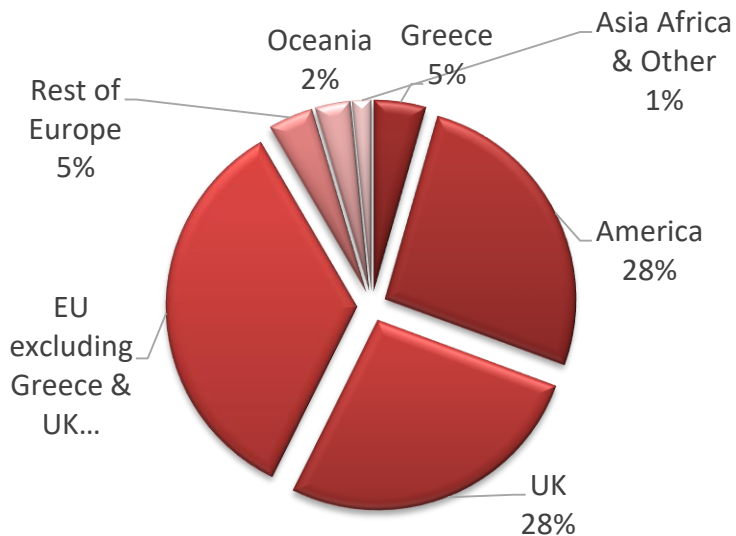
**INDUSTRIAL YARNS &  
FIBERS**



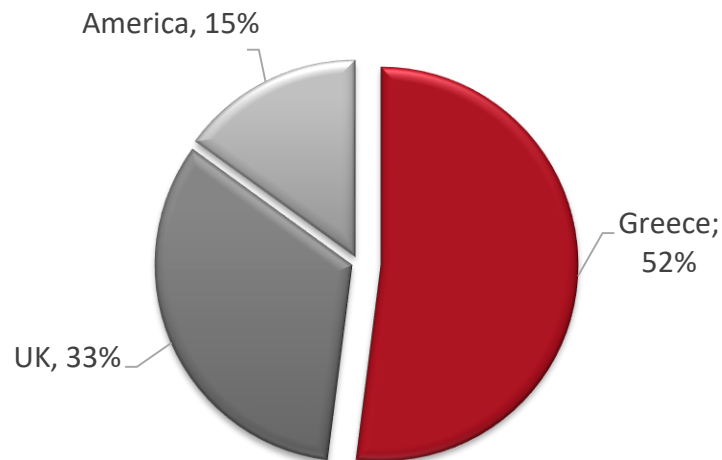
- **Changi Singapore Airport**
- **Liverpool (John Lennon) Airport, UK**
- **Khasab Port Extension Project, Oman**
- **Terminal 5, London Heathrow Airport, UK**
- **Palm Jumeirah, Dubai, United Arab Emirates**
- **Ionian Motorway, Greece**
- **Athens Underground Metro, Greece**
- **Landfill in NW Thessaloniki, Greece**
- **Kolkata Airport, India**
- **Chicago O'Hare Airport, USA**
- **Palma de Mallorca Airport, Spain**
- **E65 Motorway, Greece**
- **High Speed Railway UTE-AVE, Cornella, Spain**
- **Main Road Embankment, Shenzhen, China**
- **New International Airport, Dubai, United Arab Emirates.**



**Sales Breakdown**



**Production Breakdown**



Key P & L Items * (amounts in €'000)	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Sales	161,772	168,647	163,513	179,334	187,202
<i>y-o-y Change %</i>		4.2%	-3.0%	9.7%	4.4%
EBITDA	14,818	18,498	9,497	13,046	16,569
EBITDA Margin	9.2%	11.0%	5.8%	7.3%	8.9%

\* Statutory



# PACKAGING SOLUTIONS

BUSINESS  
UNIT

# PACKAGING BUSINESS UNIT | PRODUCTS



**FIBC/FILLING SOLUTIONS**



**BAGS/FFS FILMS**



**PALLET COVERING/  
PACKAGING FILM**



**CONTAINER LINERS/  
CARGO PROTECTION**



**FABRICS**



**INJECTION/BUCKETS/  
PAILS/CONTAINERS**



**THERMOFORMING  
CUPS**



**EPS CONTAINERS &  
TRAYS**



**CRATES**



**5 GAL BOTTLES &  
CAPS**



**BAG IN BOX**



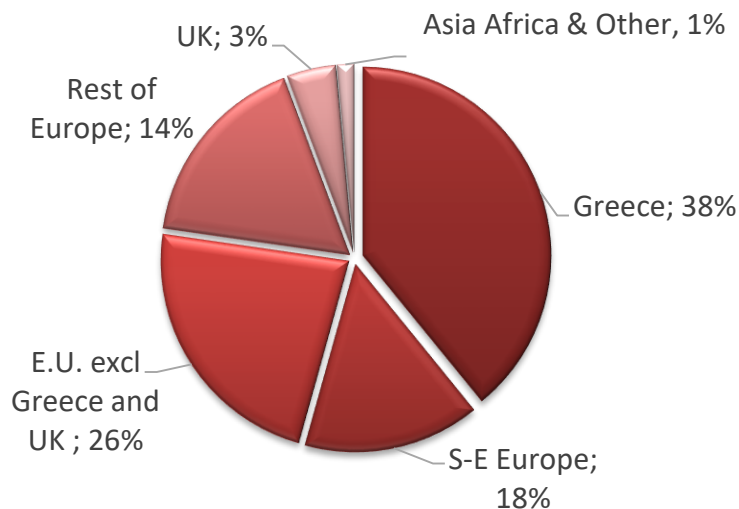
**GARBAGE BAGS**



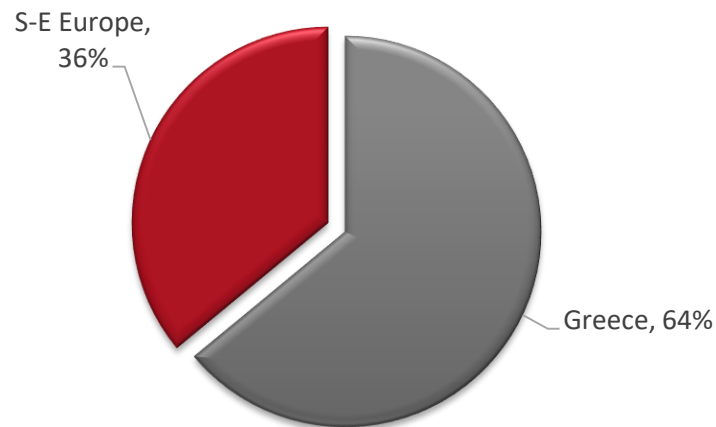
**ROPES & TWINES**

### Sales Breakdown



### Production Breakdown



Key P & L Items * (amounts in €'000)	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Sales	106,725	109,108	112,062	109,661	110,158
<i>y-o-y Change %</i>		2.2%	2.7%	-0.6%	0.5%
EBITDA	7,078	6,032	10,683	10,542	12,205
EBITDA Margin	6.6%	5.5%	9.5%	9.6%	11.1%

\* Statutory



Huhtamaki



POLARCUP



**WOLF PLASTICS**





The background features a 3D rendering of financial data. On the left, there is a bar chart with several vertical bars of varying heights. To the right, a pie chart is shown with one slice separated from the rest. The entire scene is set against a grid pattern, giving it a technical and analytical appearance.

# FINANCIALS

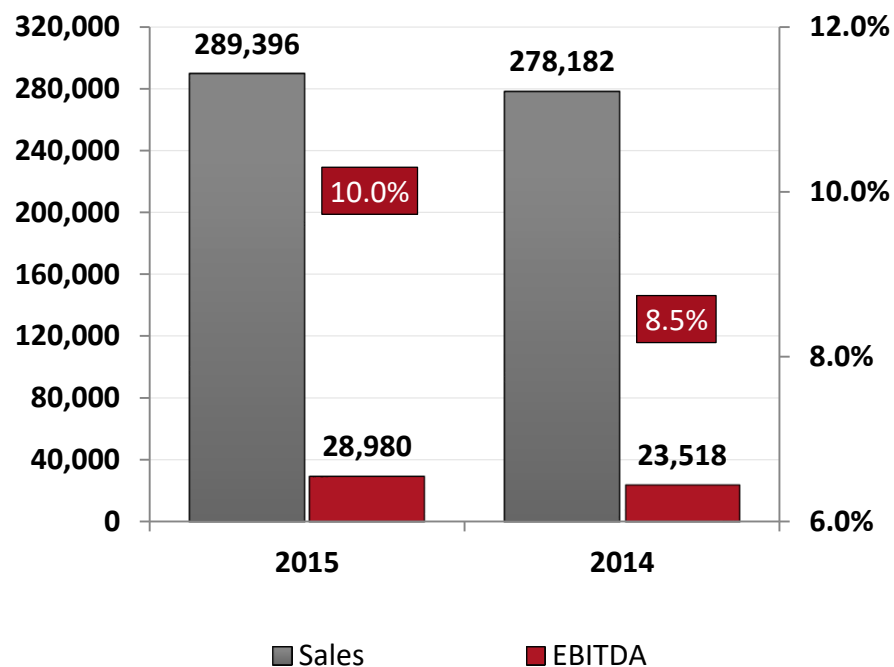
**Statutory Financial Statements:** The change of standards with regard to the consolidation of joint ventures (IFRS 10, 11 and 12) resulted into the change of the consolidation method. IFRS 11 abolishes the concept of the proportional consolidation of the jointly controlled entities. Instead, the jointly controlled entities are now consolidated with the Equity method.

## FINANCIALS | FY 2015 KEY P&L FIGURES (STATUTORY)

P&L	2015	2014
amounts in thousand euros		
Turnover	289,396	278,182
Gross Profit	59,374	51,313
EBIT	19,080	14,658
EBITDA	28,980	23,518
EBT	13,284	10,088
EAT&MI	9,788	6,502
Earnings per Share (in euro)	0.2204	0.1444
Margins (%)	2015	2014
Gross Profit Margin	20.5%	18.4%
EBIT Margin	6.6%	5.3%
EBITDA Margin	10.0%	8.5%
EBT Margin	4.6%	3.6%
EAT&MI Margin	3.4%	2.3%
Cash Flows	2015	2014
Cash Flows from Operations	19,184	12,223
Cash Flows from Investments	(24,521)	(9,642)
Cash Flows from Financial Activities	(1,787)	(11,767)
Cash & Cash Equivalents	26,411	32,879
FCF	(665)	6,906

Improved Group Financial Performance driven by:

- Change in the product mix in favor of products with higher profit margins
- Further containment of the fixed expenses of production
- Positive effect due to the strengthening of the dollar versus the euro, and
- Decrease of raw material prices



## FINANCIALS | FY 2015 KEY BALANCE SHEET ITEMS (STATUTORY)

	2015	2014
Non Current Assets	122,669	100,556
Current Assets	141,862	146,366
<b>Total</b>	<b>264,531</b>	<b>246,922</b>
Debt	68,824	65,658
Cash & Cash Equivalents	26,411	32,879
<b>Net Debt</b>	<b>42,413</b>	<b>32,779</b>
Equity	129,238	112,453

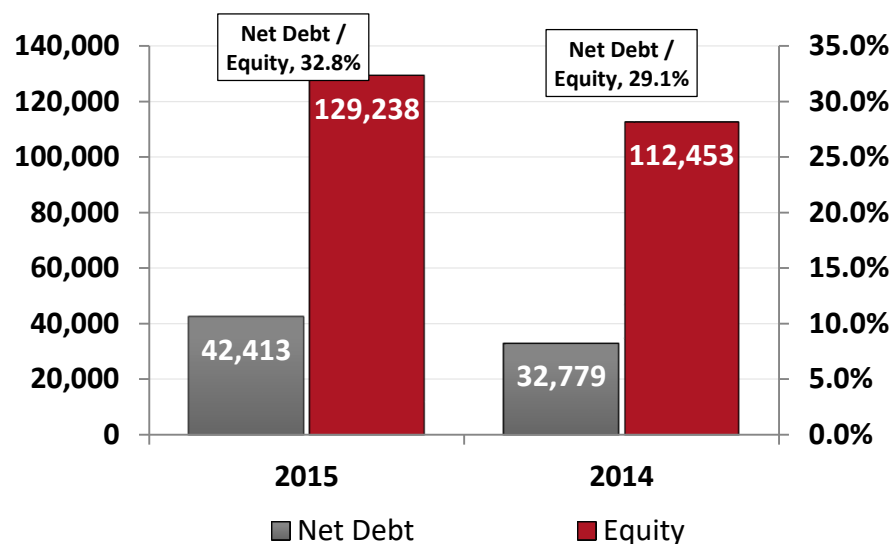
### Key Ratios

Net Debt/Sales	14.7%	11.8%
Net Debt/Equity	32.8%	29.1%
EV/EBITDA	3.6	4.0
ROCE	10.2%	7.8%
ROE	7.8%	6.0%
ROIC	9.2%	7.7%

Avg Inventories Days	81	82
Avg Trade Receivables Days	67	66
Avg Suppliers Days	48	50

### CAPEX

	2015
Technical Fabrics	23,428
Packaging	7,018
Agricultural & Other	1,879
<b>Total CAPEX 2015*</b>	<b>32,325</b>
CAPEX of Greek Subsidiaries	22,963
CAPEX of subsidiaries abroad	9,362



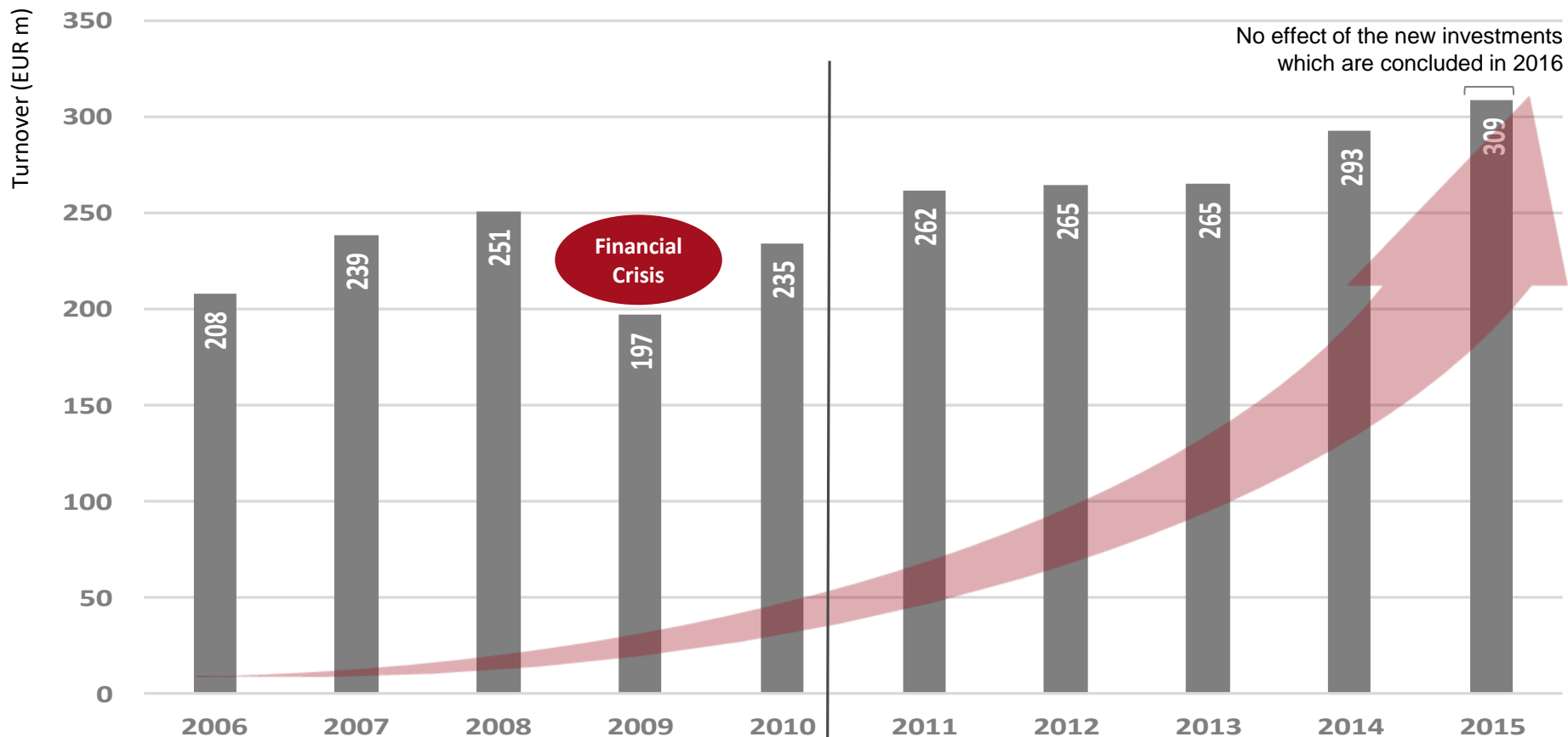
	Q1 2016	Q1 2015	Δ %	
<b>TURNOVER</b>	70,305	66,572	5.6%	↑
<b>GROSS PROFIT</b>	16,177	14,404	12.3%	↑
<b>EBITDA</b>	7,739	7,845	-1.3%	
Adjusted EBITDA	8.134	6.866	18.5%	
<b>EBT</b>	4,220	3,552	18.8%	↑
<b>NET DEBT</b>	46,325	35,746	29.6%	↑
<b>NET DEBT / EQUITY</b>	0,4	0,3		



# STRATEGY

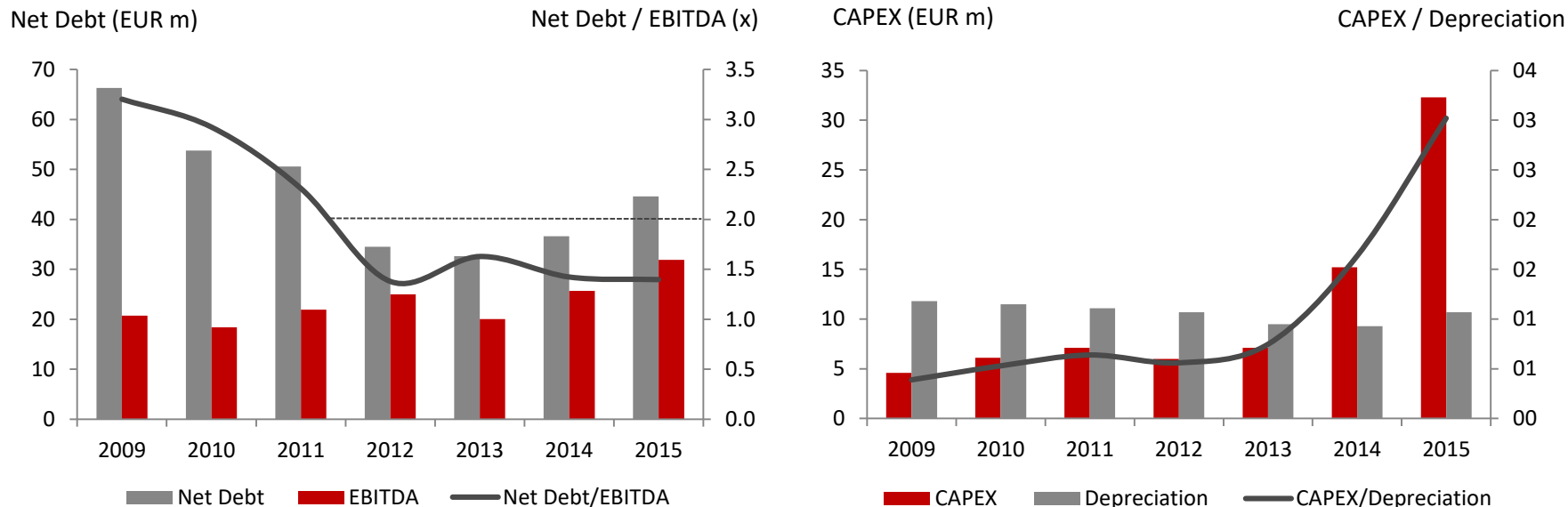
Pursuing **profitable growth** through investment in **capacity & innovation**

## THRACE GROUP | SALES DEVELOPMENT 2006 – 2015



- Profitable and cash generating growth
- The Group was already a multinational company but with the foundations of a family-owned business

- Building the foundations (people & systems) to support operations and future growth
- Divesting from loss-making business and business that did not fit into the strategic objectives
- 2015 – 2020: New Investment Plan



### Net Debt Reduction of more than €33m since 2009

- Limited investments due to the global economic uncertainty
- Strong performance and Cash flows enabled reduction in Net Debt
- Net Debt / EBITDA below 2x since 2012 – special attention is given to this KPI

### CAPEX of more than €32m in 2015 (already implemented)

- CAPEX for 2016 – 2018 is expected to exceed depreciation
- Net Debt and Cash position allows to implement Group’s investment plan
- Net Debt / EBITDA to continue not to exceed 2x for the period 2016 – 2020

# Profitable Growth

## Market-driven Organic growth

- Increase Capacity
  - Geographical expansion
- 
- Focus on two major growth markets:
    - Nonwovens (spunbond & needlepunch)
    - Expand the Rigid Packaging in SE Europe and UK & Ireland

## Value Capture (increase margins)

- Further reduce production cost
- Improvement of Product Mix (shift of sales to the high margin products)
- Development of new high margin products
- Going downstream to the production chain
- Development of Branded Consumer products

Investment Plan 2015 – 2020

Product Development Plan

Process Improvement Plan

Increased R&D

Enhance Innovation



## OUR VISION

To be the most **valuable partner for our customers and suppliers** and to consistently increase **shareholders' value** while ensuring **a prosperous future for all individuals working in the THRACE GROUP**



## BOARD OF DIRECTORS

<b>Constantinos Chalioris:</b>	Chairman & CEO
<b>Theodosios Kolyvas:</b>	Executive Vice-Chairman
<b>George Braimis:</b>	Executive Member
<b>Dimitris Malamos:</b>	Executive Member
<b>Vassilis Zairopoulos:</b>	Non-Executive Member
<b>Christos Chiatis:</b>	Independent Non-Executive Member
<b>Petros Fronistas:</b>	Independent Non-Executive Member
<b>Constantinos Gianniris:</b>	Independent Non-Executive Member
<b>Ioannis Apostolakos:</b>	Independent Non-Executive Member
<b>Nikitas Glykas:</b>	Independent Non-Executive Member
<b>Theodoros Kitsos:</b>	Independent Non-Executive Member

## AUDIT COMMITTEE

<b>Christos Chiatis:</b>	Independent Non-Executive Member, Chairman of the Committee
<b>Constantinos Gianniris:</b>	Independent Non-Executive Board Member
<b>Ioannis Apostolakos:</b>	Independent Non-Executive Board Member

The Company, in compliance with the provisions and regulations of Law, compiled and applies its own Corporate Governance Code, the text and the content of which are generally available to the website of the Company [www.thracegroup.com](http://www.thracegroup.com).

# **SUPPLEMENTARY MATERIAL**

**Group's Production Plants  
and Product Range per Business Unit**



**Thrace Nonwovens & Geosynthetics S.A.**  
Xanthi, Greece



Non-wovens plant  
[Needle punch]

Non-wovens plant  
[Spun bond]

Wovens plants



**Products:** Polypropylene woven flat and circular fabrics, needlepunched and spunbond nonwoven fabrics, staple fibres, multifilament yarns and tapes, HDPE tape and monofilament nets, polypropylene ropes, webbings, monofilament yarns, vapour control layers, roofing membranes and speciality textile materials

**Areas of Applications:** Geosynthetics, agri & horticulture, building construction, industrial fabrics, packaging, furniture & bedding, filtration, disposables, medical, workwear.

**Markets:** Thrace NG exports all over the world, in more than 80 countries



**Don & Low Ltd**  
Forfar, Scotland



Non-wovens plant  
[Spun bond]

Wovens plant



**Products:** Woven polypropylene, nonwoven polypropylene, nonwoven polyethylene, polypropylene yarns, armordon

**Areas of Applications:** Floorcoverings, horticulture, medical, furniture & bedding, geosynthetics, industrial textiles, industrial yarns, construction, composites

**Markets:** the products are sold internationally with key markets being Europe and North America.



Thrace Linq Inc.  
Summerville, SC USA



Non-wovens plant  
[Needle punch]



**Products:** Geosynthetics including Silt Fence, Woven Slit Film, Medium Strength, Monofilaments, Civil Nonwovens, Paving Fabrics, Environmental Nonwovens. Agricultural including Agrotexiles Groundcover and Landscape. Industrial Fabrics including Absorbency  
**Areas of Applications:** Agriculture, Automotive, Construction, Filtration, Furniture & Bedding, Laminates, Packaging  
**Markets:** North America, Mexico, Central and South America



Lumite Inc.  
Alto, GA USA



Wovens plant



**Products:** Mining/solids separation, waste water treatment, municipal water filtration, pool and spa filtration, swimming pool covers, trampolines, backpacks, protective vests, military gear, footwear, ground cover, shade fabric, greenhouse film, turf reinforcing mats, geo tubes and antiviral screening.  
**Areas of Applications:** Horticultural, Industrial, Recreational, Geotextiles and Military  
**Markets:** Key markets are North, Central and South America. Lately increasing presence in China and Australia



Thrace Eurobent S.A.  
Xanthi, Greece



GCL plant



**Products:** GCL (Geosynthetic Clay Liner)  
**Areas of Applications:** The base and surfaces seals for landfill sites, Canals and storage reservoirs, Tank storage sites, Composting plants, Biotopes, Tunnel and building seals, Filtering and storage reservoirs, Run-off basins, Roads leading through environmentally sensitive areas  
**Markets:** Mainly European market and Turkey. Targeting Arabian peninsula, Latin America

**THRACE PACK**  
MEMBER OF THRACE GROUP

Thrace Plastics Pack S.A.  
Ioannina & Xanthi, Greece



Injection plant  
Ioannina

Thermoforming plant  
Ioannina

Injection plant  
Xanthi



**THRACE PLASTICS**  
MEMBER OF THRACE GROUP

Thrace Plastics S.A.  
Xanthi, Greece



Films plant  
Garbage bags plant



**Products:** Injection Moulded Containers, Thermoformed Cups & Lids, Thermoformed Drinking Cups, Bags in Box, 5 Gal. Polycarbonate Bottles.

**Areas of Applications:** Industrial packaging for the Paint/Chemical Industry and Consumer Packaging for the Food industry

**Markets:** The main market of Thrace Pack has traditionally been South East Europe, but over the past decade it has become a considerable player in Northern and Western Europe. Lately Thrace Pack has expanded its activities towards new markets, such as Africa and the Gulf based areas.

**Products:** PE Bags, FFS film, FIBC liners, Shrink film, Top Cover, Stretch Hood and Shrink Pallet Cover Film.

**Areas of Applications:** Wide range of packaging solutions for chemicals, animal feed, minerals and foodstuff.

**Markets:** Mainly in Greece. Through its close collaboration with its subsidiaries, Thrace Plastics Co S.A. has created a solid sales network in Great Britain, while targeting the markets of the rest of Europe.



Thrace Ipoma A.D.  
Sofia, Bulgaria



Injection plant

Thermoforming plant

FIBC plant



**Products:** Rigid packaging (pails, containers), Crates (general purpose, soft drinks and beer), Chairs, Stadium seats, FIBCs, Big Bags.

**Areas of Applications:** Industrial use; food, chemical and paints production industries; meat, bread and agricultural processing; fertilizers and bulk materials handling etc.

**Markets:** The main markets of Thrace Ipoma have traditionally been Bulgaria, Eastern Europe and the Balkans, but over the last decade we successfully expanded and sell all over Europe.



Thrace Greiner SRL  
Sibiu, Romania



















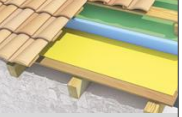



Injection plant







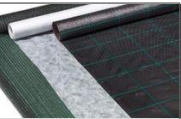
**Products:** Round and oval buckets and lids, with IML finishing. Oval or rectangular containers with IML finishing. Full range of rounds buckets between with offset printing.



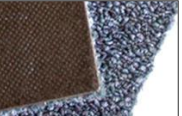









**Areas of Applications:** Food Industry (dairy products, ketchup & mustard, ice cream, nutritive bases/substances), Paints industry

**Markets:** The main market of Thrace Greiner Packaging SRL is Romania but the Company is exporting to the wider area of SE Europe.

Product Family	Products				Applications
 <p><b>GEOSYNTHETICS</b></p>	 <p><b>Nonwoven Geos</b></p>	 <p><b>Erosion Control Mats</b></p>	 <p><b>Slit Fences</b></p>	 <p><b>Geobags / Gtextile tubes</b></p>	<p><b>WHERE:</b> Roads, railways, paving, landfills, mines, river banks, channels, pipe inlet/outlets, construction sites, slopes and shorelines, foundation walls, offshore breakwater construction.</p> <p><b>WHY:</b> Filtration, separation, erosion control, drainage, leachate collection, methane gas collection functions.</p>
 <p><b>Woven Geos</b></p>	 <p><b>Geogrids</b></p>	 <p><b>Drainage nets</b></p>	 <p><b>GCL</b></p>		
 <p><b>CONSTRUCTION</b></p>	 <p><b>Stadium Seats</b></p>	 <p><b>Roofing Membranes</b></p>	 <p><b>Housewraps</b></p>	 <p><b>Scaffoldings</b></p>	
 <p><b>Concrete Fibres</b></p>	 <p><b>Road Safety Nets</b></p>	 <p><b>Vapor Control</b></p>	<p><b>WHERE:</b> Stadiums, sports halls, entertainment venues, roofs, walls, timber and steel framed constructions, floor slabs, driveways, precast units, buildings, pools, construction sites, athletic courts, demolition sites, work zones, highways, ski trails, lift lines.</p> <p><b>WHY:</b> Vapor control, breathability, reflectability, crack control of concrete, rubbish or debris containment, protection from driving rain and wind, crown safety and control functions.</p>		
 <p><b>FILTRATION</b></p>	 <p><b>Liquid Filtration</b></p>	 <p><b>Air Filtration</b></p>		<p><b>WHERE:</b> Chemical processing, mining, sugar refining, water filtration, waste water treatment, beverage and pool/spa, vacuum cleaners, respirators, cartridges</p> <p><b>WHY:</b> Dewater ores, clarify waste water and purify swimming pool and drinking water, air filtration, respirators filters.</p>	













Product Family	Products				Applications
 <p><b>AGRI / HORTICULTURE AQUACULTURE</b></p>	 <p><b>Groundcover</b></p>	 <p><b>Root Barrier</b></p>	 <p><b>Weather Protection</b></p>	 <p><b>Mulching</b></p>	<p><b>WHERE:</b> Greenhouses, gardens, nurseries and landscaped areas, Outdoor storage of straw bales &amp; sugar beets, indoor storage of goods, harvesting, multiple agricultural applications, in anchor &amp; mooring lines for small craft swings, lead ropes and rope ladders, ship docking, trucks, fish farming, fishing.</p> <p><b>WHY:</b> Maintain even soil temperatures, Root control, rain, snow, wind, frost and hail protection, minimizing the risk of mould creation, breathability, prevent the growth of weeds, bird and insect protection, shading, Seed experimentation and breeding controlled pollination</p>
 <p><b>LANDSCAPE / GARDEING</b></p>	 <p><b>Cropcover</b></p>	 <p><b>Nets</b></p>	 <p><b>Cages / Shade</b></p>	 <p><b>Olive Collection</b></p>	
 <p><b>SPORT &amp; LEISURE</b></p>	 <p><b>Landscape</b></p>	 <p><b>Gardenig /DIY Mini Rolls</b></p>	 <p><b>TerraHome</b></p>	<p><b>WHERE:</b> Commercial venues and private gardens, floriculture, small greenhouses, landscaping, tree planting, paving.</p> <p><b>WHY:</b> Weed growth prevention, erosion control, shading, protection, reparation, reinforcement, anti-freeze.</p>	
 <p><b>Trampoline Fabrics</b></p>	 <p><b>Pool Covers</b></p>	<p><b>WHERE:</b> Trampoline mats, trampoline safety enclosures, aquatic trampolines and catamaran beds, Outdoor and indoor pools.</p> <p><b>WHY:</b> Pool cover is used in conjunction with heavy springs, serving as a cover to keep out the elements during the off season. It also serves as a safety mechanism for protection against accidental falls into the water</p>			

Product Family	Products					Applications
 <p><b>FLOOR COVERING</b></p>	 <p><b>Carpet Backing</b></p>	 <p><b>Pile Yarns</b></p>	 <p><b>Carpet Tile Backing</b></p>	 <p><b>Carpet Warp – Weft Yarns</b></p>	 <p><b>Underlay Substrates</b></p>	<p><b>WHERE:</b> Tufted Carpets, automotive, residential, contract, Carpet tile backing, Woven carpet production</p> <p><b>WHY:</b> primary carpet backing to provide a base cloth to hold the yarn in place. Secondary carpet backing provides further pile-yarn stability and increases stability to the carpet structure, pile yarns for woven and tufted carpets, fibre distribution and shrinkage</p>
 <p><b>FERNITURE &amp; BEDDING</b></p>	 <p><b>Covering Separation</b></p>	 <p><b>Pocket Springs</b></p>	 <p><b>Tablecloth Fabrics</b></p>	 <p><b>Allershield Aquashield</b></p>	 <p><b>Bedding Reinforcement</b></p>	<p><b>WHERE:</b> Furniture and Bedding Industry (pillow cases, neatening fabrics, separating layers, dust covers, cushion fabrics, pocket springs, bottom and back covers, quilting layers. It is also used as a home textile for table cloths, mattress covers, suit covers and curtain blinds), Bedding, medical, incontinence bedding laminate, allergy relief laminate</p> <p><b>WHY:</b> allergy relief bedding, water resistance. anti-microbial or fire-retardant</p>
 <p><b>ADVANCED FABRICS</b></p>	 <p><b>Armorweave<sup>®</sup></b></p>	 <p><b>Armordon<sup>®</sup></b></p>				<p><b>WHERE:</b> Footwear, protective vests, aircraft and marine seats, backpack straps and backing, helmets and military gear, Ballistics, armour and security panelling, blast protection, personal applications, automotive exterior and interior panelling, luggage, loudspeaker cones, concrete shuttering</p>

Product Family	Products				Applications
 <p><b>MEDICAL &amp; HYGIENE</b></p>	 <p><b>Gowns &amp; Drapes</b></p>	 <p><b>Instrument Tray Wraps</b></p>	 <p><b>Medical Wipes</b></p>	 <p><b>Ostomy Bags</b></p>	<p><b>WHERE:</b> surgical masks, head covers, surgical coats, aprons, shoe covers, protective overalls and face masks, chemical suits, transport of medical instruments, preventing fluid or blood transfer. base carriers for the wipes industry, Ostomy, Bedding, medical, incontinence bedding laminate, allergy relief laminate</p> <p><b>WHY:</b> Safety, protection, softness, high tensile strength &amp; elongation, comfort, protects the skin from moisture build up, allergy relief</p>
 <p><b>Mattress Protection</b></p>					
 <p><b>AUTOMOTIVE</b></p>	 <p><b>Car Mats and Liners</b></p>	 <p><b>Seating</b></p>	 <p><b>Car Cover Fabrics</b></p>	 <p><b>Acoustic Absorbents</b></p>	<p><b>WHERE:</b> Pull straps, seam reinforcement, seat backs, seat cover construction, car covers, upholstery backing, car mats, boot liners, under body shield</p> <p><b>WHY:</b> covering and protecting car seats and in general producing upholstered seats, barrier and/or breathable properties, lightness, durability, sound absorption, safety, comfort, fuel efficiency, Oil, Diesel, Water Repellent, flame resistance</p>
 <p><b>ARNO WEBBINGS / STRAPS / ROPES</b></p>	 <p><b>Straps</b></p>	 <p><b>Ropes</b></p>	 <p><b>Webbings</b></p>	 <p><b>Text Webbings</b></p>	

Product Family	Products				Applications	
 <p><b>INDUSTRIAL FABRICS</b></p>	 <p>Tarpaulin</p>	 <p>Lamination – R. Substrates</p>	 <p>Passenger Transport</p>	 <p>Industrial Workwear</p>	<p><b>WHERE:</b> protect stacks of big-bags and palletized products, Thrace Group tarpaulins can also be used for other protection purposes, Lamination substrate, construction, packaging, composites, automotive, composites hoses, environmental liners, Airline, passenger transport, surgical masks, head covers, surgical coats, aprons, shoe covers, protective overalls and face masks, chemical suits, FIBC manufacturing</p> <p><b>WHY:</b> protect packed bulk products from the sun, rain, snow, ice, wind and dirt, stability, strength and reinforcement to products, Absorbency</p>	
 <p>Defense</p>	 <p>Absorbents</p>	 <p>FIBC Fabrics/ Components</p>				
 <p><b>INDUSTRIAL YARNS - FIBRES</b></p>	 <p>Monofilament Yarns</p>	 <p>Cable Fillers</p>	 <p>Cable Identification</p>	 <p>PP Yarn for filtration</p>	<p><b>WHERE:</b> Filtration fabrics, slings, industrial, braided ropes, webbings, sewing, nets, belts, Cable filling, cable identification, Filtration fabrics, slings, braided ropes, webbings, sewing, nets, belts, Woven and tufted carpets for various end-use applications (automotive, residential, contract), Woven carpet production, Sewing, slings, industrial, braid ropes, webbings, nets, belts, filtration, PP Staple Fibres make them suitable for a variety of applications: geotextiles, filtration products, furniture &amp; bedding materials, automotive fabrics and textiles for other industrial uses.</p> <p><b>WHY:</b> resistance to acids and alkalis, easy identification of a variety of cabling products, high tenacity, chemical resistance and flexibility, smooth performance during sewing</p>	
 <p>PP Carpet face Yarns</p>	 <p>Sewing Yarns</p>	 <p>PP Carpet Weft Yarns</p>	 <p>PP Stable Fibers</p>			
 <p>PP Yarns for Webbings</p>	 <p>Curtain Header Tape</p>	 <p>PP Tapes</p>				

Product Family	Products		Applications
 <p data-bbox="92 492 417 602"><b>INJECTION/BUCKETS/ PAILS/CONTAINERS</b></p>	 <p data-bbox="432 385 614 454"><b>Round and Oval</b></p>	 <p data-bbox="618 385 799 454"><b>Square and Rectangular</b></p>	 <p data-bbox="803 385 985 454"><b>Special Containers</b></p> <p data-bbox="1190 268 1916 378"><b>Food:</b> baking ingredients, biscuits, confectionery, desserts, dairy products, yellow fats, ice cream, pet food, seafood, salads, sauces, soups, salt, jams, honey</p> <p data-bbox="1190 378 1916 454"><b>Non-food:</b> paints, adhesives, coatings, construction materials, fertilisers</p>
 <p data-bbox="92 846 417 956"><b>THERMOFORMING CUPS</b></p>	 <p data-bbox="432 739 614 808"><b>Cups and Lids</b></p>	 <p data-bbox="618 739 799 808"><b>Drinking Cups</b></p>	<p data-bbox="1190 622 1916 698">Dairy products, yellow fats, confectionery, ice cream, jams</p> <p data-bbox="1190 698 1916 773">Water and beverages, cold coffee, beer</p>
 <p data-bbox="92 1200 417 1278"><b>CRATES</b></p>	 <p data-bbox="432 1093 614 1162"><b>General Purpose</b></p>	 <p data-bbox="618 1093 799 1162"><b>Bottle Crates</b></p>	<p data-bbox="1190 976 1916 1022">Agricultural products, bread, meat</p> <p data-bbox="1190 1022 1916 1098">Beer, soft drinks, alcoholic drinks, other bottled drinks/water</p>

**Product Family**

**Products**

**Applications**



**FIBC / FILLING SOLUTIONS**



**Reel Bags for auto filling**



**1 & 2 Loop Bags**



**4 & 5 Loop Bags**



**Filling Solutions**



**Optiflow Bags**

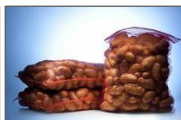
Reel bags, loop bags and automatic filling systems which are developed for automatic (or not) filling lines suitable for a big range of bulk products: fertilisers, fish-feed, seeds, resins, chemicals, powders etc.



**BAGS – FFS FILMS**



**PP Woven Bags**



**PE Knitted Bags**



**Heavy Duty Bags**



**FFS Films**

Multiple packaging applications: sand bags, coal bags, animal feed bags, log bags, turf bags, grain sacks, timber bags, wood kindling bags, vegetable bags, rubble sacks, bin liners, refuse sacks, pallet liners, box liners. Knitted bags for packaging fruits and vegetables such as potatoes, onions, cabbages, eggplants, carrots, lemons. Packaging materials as Plastic resins in pellets or powder-PE, PP, PS, chemical products, sulfur anhydride, phthalic, food, sugar, salt, fertilizers etc.



**PALLET COVERING / PACKAGING FILM**



**Shrink Hood**



**Stretch Hood**















**Shrink Film**



**Pallet Cover/Hood**

Shrink hood is commonly used as an overwrap on many types of packaging, including boxes and pallets. Stretch Hood and Pallet Hood is mainly used in palletisation as it is designed to provide excellent load protection, load stability and load visibility along with good line speed, capital cost and cost per pallet. Shrink film is commonly used as an overwrap on many types of packaging, including boxes, cartons and pallets.

Product Family	Products				Applications
 <p><b>CONTAINER LINERS/ CARGO PROTECTION</b></p>	 <p><b>Dry Bulk Containers L.</b></p>	 <p><b>Liquid Bulk Containers L.</b></p>	 <p><b>Cargo Protection</b></p>	<p>The DBCL and LBCL are used for protecting dry or liquid bulk products when transporting and storing them in sea containers</p> <p>The desiccant products are designed to absorb and neutralize moisture that may accumulate in cargo spaces.</p> <p>The dunnage bags protect many types of cargos such as pallets, big-bags, boxes and rolls, during transportation in sea containers, trucks, railway wagons, etc.</p>	
 <p><b>GARBAGE BAGS</b></p>	 <p><b>Draw Tape</b></p>	 <p><b>Open Top</b></p>	<p>Draw tape is suitable for carrying goods or garbages.</p> <p>Open Top are ideal for small kitchens, bathrooms and office bins</p>		
 <p><b>EPS CONTAINERS &amp; TRAYS</b></p>	 <p><b>Trays</b></p>	 <p><b>Absorbent Trays</b></p>	 <p><b>Venti Food Containers</b></p>	 <p><b>Leek-free Food Containers</b></p>	<p>Fruit, vegetables and meat</p> <p>Fish, Meat and Poultry products</p> <p>Cooked food (hot &amp; cold)</p>

Product Family	Products				Applications
 <p><b>BAG IN BOX</b></p>	 <p><b>Metalized &amp; Taps</b></p>	 <p><b>PE &amp; Glands</b></p>			<p>Wine and Spirits, Siders, Pulps Dairy products, edible oils, food service mixes (i.e. egg mix)</p>
 <p><b>ROPES &amp; TWINES</b></p>	 <p><b>3/4 Strand Ropes</b></p>	 <p><b>Twines</b></p>			<p>Ideal for multiple agricultural applications. Additionally, they can be used in anchor &amp; mooring lines for small craft swings, lead ropes and rope ladders, ship docking, trucks Strapping of breeder.</p>
 <p><b>5 GAL BOTTLES &amp; CAPS</b></p>	 <p><b>5 Gal Bottle</b></p>	 <p><b>5 Gal Bottle w Handle</b></p>	 <p><b>Non split Cap</b></p>	 <p><b>Bottle Rack</b></p>	<p>Water, water dispensers</p>



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## Contacts

### Investors Relations

Ioanna Karathanassi  
ikarathanasi@thraceplastics.gr  
+30 210 9875081

### Group CFO

Dimitris Malamos  
dmalamos@thraceplastics.gr  
+30 210 9875016

[www.thracegroup.com](http://www.thracegroup.com)

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