



Corporate presentation

### **Our Company**

VIOHALCO

Viohalco S.A. is the holding company of leading metal processing companies across Europe. Viohalco is based in Brussels, Belgium, and is listed company on Euronext Brussels and Athens Exchange (VIO)

With production facilities in Greece, Bulgaria, Romania, Russia, FYROM, Australia and the United Kingdom, Viohalco subsidiaries focus on technological advancement and specialise in the manufacture of aluminium, copper, cables, steel and steel pipe products, generating annual revenue of EUR 3.3 billion.

The Viohalco portfolio also includes a segment dedicated to technology and R&D, as well as a segment on recycling activities and waste management services.

Viohalco and its companies are also active in real estate development projects.



#### Viohalco segments

\* Business Unit



Viohalco and Cenergy Holdings are listed on Euronext Brussels and Athens Exchange
 Halcor is listed on the Athens Exchange

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Notes

### 2015 financial highlights

### VIOHALCO



#### Notes

- 2008-2011 Viohalco Hellenic financials
- 2012 Viohalco SA financials on a pro forma basis

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Aluminium	Copper	Steel	Steel Pipes	cables	Real estate
Spin-off of the industrial and commercial activities of the aluminium rolling segment of Elval, under the name Elval Hellenic Aluminium Industry SA	Acquisition of Reynolds European SA's copper business and integration into Halcor's commercial activities	Cross-border merger by absorption of Sidenor Holdings by Viohalco completed on 22 July 2015	Contract award by the Trans Adriatic Pipeline AG (TAP) for the supply of 495 km of large diameter pipes for the onshore part o the pipeline across Greece	the cable interconnection of the 73.2 MW wind park in the island of St. George, f south of Cape	Start of operations of Mare West, the new retail park in Corinth, Greece
merger by absorption of the Greek companies (Elval Holdings, Alcomet and Diatour) and the Luxembourg company Eufina by Viohalco SA in February 2016	Joint Venture ''HC Isitma A.S.'' of Halcor with Cantas A.S. (Turkey) to	Technology and R&D	Comp	pletion of the cross-	Recycling Anamet was
Elval and UACJ Corporation jointly established, in December 2015, a new company in Germany for the sale of automotive heat exchanger materials produced by Elval	support expansion into the Turkish market and other Middle-Eastern markets	Elkeme relocation to brand new facilities 2,000 m <sup>2</sup> next to the manufacturing plants	border by C Corinth and F Holding Listing c on Eu	merger by absorption energy Holdings of n Pipeworks Holdings Hellenic Cables S.A. gs in December 2016.	awarded three years ELV (End of Lifecycle Vehicles) contracts by the Municipalities of Athens and Piraeus among others

## 1. Aluminium

- 2. Copper
- 3. Cables
- 4. Steel
- 5. Steel pipes
- 6. Real estate
- 7. Technology and R&D
- 8. Recycling



The companies of the aluminium segment offer a variety of aluminium products, including coils, strips, sheets and foil for numerous applications, coils for lithographic printing, as well as architectural and industrial aluminium profiles.

The aluminium segment is actively involved in the processing, manufacturing and marketing of aluminium product solutions in various markets.

With state-of-the-art production facilities in Greece, the United Kingdom and Bulgaria, as well as a dynamic commercial presence in most of their key geographical markets, aluminium segment companies maintain a solid position within the global aluminium industry.

Aluminium segment companies have established international presence in over 90 countries thanks to a solid commercial structure, which operates through Viohalco companies owned sales offices and teams and long-standing sales agents, part of a wider commercial network.

### Aluminium at a glance



### Aluminium processing

1.	median size methore independent supplier.
2.	Production capability for wide coils (up to 2.5 m) and long slabs (8m) resulting in low production cost.
3.	State-of-the-art key equipment Quality compatible with the highest market standards.
4.	Significant presence with growth potential in the lithography business.
5.	Extensive distribution network.
6.	Strategic alliance with UACJ Corp.

### Aluminium production plants



#### Production facilities in Greece, the United Kingdom and Bulgaria



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### Aluminium product portfolio

### VIOHALCO

#### Product line - rolled products



### Aluminium product portfolio



#### Product line - rolled products



#### Aluminium product portfolio

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#### Product line - extrusion products



# 1. Aluminium 2. Copper

- 3. Cables
- 4. Steel
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Viohalco is active in the copper industry through Halcor S.A. and its subsidiaries, Sofia Med S.A. in Bulgaria, Fitco S.A. in Greece and through a recently established Joint Venture in Turkey.

Through a wide product portfolio which primarily comprises copper and brass tubes, copper and titanium zinc rolled products and copper and brass extruded products, Halcor Group corresponds to the complex needs of its international clientele, across most of the major geographical markets.

Halcor Group's production base includes manufacturing facilities in Greece, Bulgaria and Turkey.

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#### Production plants





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### Copper product portfolio



#### Fabricator of diverse metal products

Category	Products
Rolled products	
Extruded products	

HALC

#### **Applications**

Water supply, heating, heating (pre-insulated), refrigeration, natural gas, medical use, cooling, solar energy and various industrial applications

• Construction (roofing, gutters), electrical engineering (connectors, transformers, boilers, etc.) and decoration

 Construction, decoration, electrical engineering (electronic control panels, valves, batteries etc.), supports for gutters

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# VIOHALCO

Hellenic Cables' product range consists of high and extra high voltage power transmission cables, submarine power and telecommunication cables, power distribution cables, building network cables, data and signalling cables, fibre optic cables, as well as enamelled wires.
Over the past decade, the Cablel ® Hellenic Cables Group has evolved into the largest cable manufacturer in South-Eastern Europe, exporting to more than 50 countries. Its production base comprises six plants in Greece, Romania and Bulgaria which manufacture a wide range of products from high voltage submarine cables to extra high voltage power cables and enamelled wires.

The Hellenic Cables Group's product portfolio is commercially traded under the registered brand Cablel ®.

## Cables production plants

VIOHALCO

### Main production plants

<b>CABLEL</b> <sup>®</sup> HELLENIC CABLES	CABLEL®     HELLENIC CABLES	CABLE INDUSTRY	CABLEL®     HELLENIC CABLES	FULGOR S.A.
Thiva, Greece	Livadia, Greece	Bucharest, Romania	Oinofyta, Greece	Corinth, Greece
Cable plant	Enamelled wire	Cable plant	Compound plant	Cable plant
	plant			
Total Area: 175,082 sqm	Total Area: 121,818 sqm	Total Area: 267,789 sqm	Total Area: 21,263 sqm	Total Area: 209,656 sqm
Buildings: 50,181 sqm	Buildings: 14,939 sqm	Buildings: 102,137 sqm	Buildings: 9,072 sqm	Buildings: 89,489 sqm
Capacity: 60 kMT /y	Capacity: 14 kMT /y	Capacity: 50 kMT /y	Capacity: 24 kMT /y	Capacity: 50 kMT /y Cable & 120 kMT /y 8mm Wire
Certifications: EN ISO 9001:2008 EN ISO 14001:2004 OHSAS 18001: 2007	Certifications: EN ISO 9001:2008 EN ISO 14001:2004 OHSAS 18001: 2007	Certifications: EN ISO 9001:2008 EN ISO 14001:2004	Certifications: EN ISO 9001:2008 EN ISO 14001:2004 OHSAS 18001: 2007	Certifications: EN ISO 9001:2008 EN ISO 14001:2004

### Cables product portfolio



### The largest cable producer in SE Europe

		****		
Power cables	Submarine cables	Telecom cables	Enamelled wires	Compounds
Installation & building cables Industrial cables Wind parks Solar farms Marine Railway & underground Mining & tunneling Power network cables Transmission Distribution	<ul> <li>MV submarine cables         <ul> <li>Paper Insulated</li> <li>Pb insulated</li> </ul> </li> <li>HV submarine cables under development</li> <li>Fiber optic submarine cables</li> <li>Composite submarine cables</li> </ul>	<ul> <li>Telecommunication network cables (Copper &amp; fibre optics)</li> <li>Data transmission cables</li> <li>Signaling, instrumentation and control cables</li> </ul>	<ul> <li>Enamelled wires for transformers</li> <li>Enamelled wires for motors</li> </ul>	<ul> <li>Compounds for cables</li> <li>Compounds for other industrial applications</li> </ul>



## Cables product portfolio



### High added-value products

#### Submarine cables

High / extra high voltage cables

- Specialised cables requiring both capital investment and know-how to produce
- Limited supply, thus high margins
- Increased demand for power grid expansion projects and off-shore wind parks
  - Require know-how and references (installed and in use cables)
- High margin products
- Increased demand due to investments in energy sector infrastructure and renewable energy projects









### Cables product portfolio



#### Diversified product and customer mix

# Wide product range

Expanded customer mix

- Power and telecom cables, as well as enamelled wires
  Specialized products for niche markets, such as high voltage and extra high voltage cables, oil and gas cables, solar cables, and marine cables
  - Turnkey projects offering ready-to-use solutions
  - Building directly for major customers or through wholesalers
  - Utilities such as PPC (GR), ENEL, EDF, E.ON, CEZ, UK, Austrian and other European utilities
  - Industry such as wind parks, solar farms, petrochemical plants, airports, and large constructions such as tunnels and bridges











Aluminium
 Copper
 Cables
 Steel
 Steel pipes
 Real estate
 Technology and R&D
 Recycling



Sidenor, Stomana Industry and their subsidiaries constitute the steel production and trading segment of Viohalco. Sidenor is the largest Greek steel producer holding a leading position in Greece and the Balkans; its subsidiaries deal in the production, manufacture and sales of steel products.

Steel segment's wide-ranging product portfolio, which includes long and flat steel products, and downstream products, is manufactured across ten primary facilities in Greece, Bulgaria, FYROM and Australia. Project locations span Greece, Bulgaria, Cyprus, France, Croatia, Tunisia and the U.S.A., making the steel group a global supplier.

VIOHALCO

#### Attractive & diversified product portfolio that reduces volatility



SD CONCRETE REINFORCING STEEL

HOT ROLLED PLATES

MERCHANT BARS

BARS OF CIRCULAR CROSS-SECTION

STEEL BALLS

SPECIAL PROFILES

SEMI-FINISHED PRODUCTS (Billets & Biooms)

SEMI-FINISHED PRODUCTS

### Steel plants in Greece

VIOHALCO



#### Notes

- 1. Major restructuring
- 2. First year of operation
- 3. Currently 600 KMT/y, which will become 800 KMT/y after future investments

### Steel plants in Bulgaria & FYROM





#### Notes

- 1. 2001 : First year of Stomana Industry consolidation in Viohalco steel segment
- 2. Major restructuring of facility

## Steel logistics network

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#### **Distribution network**

Steel segment companies' logistics centres provide all means of transportation:



New planned logistics centres will further enhance companies' market positioning

Steel segment companies have a major competitive advantage in terms of transporting its raw materials and end-products via its railway connections and port facilities:

- Sovel Port (Almyros, Greece
- Aspropyrgos Dock (Attiki, Greece)
- Danube river
- Burgas (Bulgaria)

Sovel Port in Almyros, Greece Port Svishtov in Danube







#### Steel projects in the Balkans





Aluminium
 Copper
 Cables
 Steel
 Steel pipes
 Pechnology and R&D
 Recycling



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Corinth Pipeworks Group represents Viohalco's steel pipes segment.

With industrial plants in Greece and Russia, and substantial experience in the implementation of demanding projects worldwide, the Group is a supplier of choice for oil and gas companies and international construction companies.

Corinth Pipeworks Group mainly produces steel pipes for oil, gas and water transportation, oil and gas extraction and hollow structural sections for a large number of construction applications.

Prosal Tubes plant in Bulgaria is also a part of Viohalco's steel pipes segment



#### At the forefront of energy sector new trends





### Managing large-scale projects

#### Half a century in managing big projects

### VIOHALCO

#### ~4Km

of our pipes are installed every day

somewhere in the world\*

#### CIS & Asia ~250Km\*

SOCAR, BP, KPO

SOCAR gas pipeline: 18.000MT

#### Middle East ~2.100Km\*

Saudi Aramco, Qatar Petroleum, PDO, OGC, DEWA, SCOP, Gasco, ADNOC, ENNPI, Petrofac, OMV Yemen

#### MAJOR PROJECTS

SAUDI ARAMCO Projects: **40.000MT** GASCO projects: 22,000MT PDO projects: 22.000MT

#### North America ~5.000Km\*

Denbury Resources, DCP Midstream, Spectra Energy, Cheniere, Enbridge, Panhandle, Kinder Morgan, Energy Transfer, EPCO, Williams, Plains All American, NiSource, Mississipi Power, Chaparral

#### MAJOR PROJECTS

SPECTRA ENERGY: 118.000TN SESH. USA DENBURY: 52,000TN Greencore CO2 pipeline ENERGY TRANSFER 2015 projects: 124,000MT SHELL DEEPWATER GoM ~15.000MT

#### South America ~200Km\*

MLP, Cunado, Pemex, UPC

MAJOR PROJECTS MLP pipeline Chile: 10,000MT Citam - Sinan gas pipeline Mexico: 5,000MT





~4.000Km\* **CUSTOMERS** 

> Chevron Texaco, Shell, Sonatrach, Perenco, ENPPI, Petrojet, BG, STEG, ABB, Bonatti, Saipem, BP, Gasco, Vegas Oil

Europe ~3.500Km\*

GDF, Snam Rete Gas, Dow Chemical RWE, OMV, Plinacro, Enagas, TransGas, BG Group, National Grid,

ENAGAS: Alcazar - Montesa Pipeline: 71,000MT

OFFSHORE projects: 85,000TN

DEPA/DESFA projects: **~75.000MT** 

Bord Gais, EDF Greece: DEPA. DESFA

100.00 TN

Africa

#### MAJOR PROJECTS

CHEVRON TEXACO Pipeline: 67,000MT SONATRACH: Medgaz GZ4 Algeria: 99,000MT OMV - Tunisia: Nawara 70,000MT

\* Quantities are calculated for the time period 2002-2015

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### Delivering energy to the future

### VIOHALCO

#### 2015-2016 contracts

#### **Trans Adriatic Pipeline AG**

**(TAP)** awarded to CPW 495Km of 48" onshore pipeline (270.000Tn) Realization 2016 - 2017

**4 major U.S. projects** of 200.000Tn were realised

**Innovation in the Norwegian** 

sea 12" HFI in length >18m for reel-lay

#### **Gazsystem Frame agreement**

2014-2018 First tender awarded to CPW











#### New investments

**Corinth Pipeworks S.A. is upgrading its product portfolio by investing in the manufacturing and coating of 24m length steel pipes (from 18m).** The new investments will provide a significant competitive advantage to the EPC contractors by decreasing of the installation cost (less welding operations on site) and time of completion of each project.

**Corinth Pipeworks S.A. has just realized its investment in a sour service laboratory.** The new investment will provide increased capabilities in the management of pipeline projects having intense sour service conditions





#### Deeper waters and heavier pipes





#### Major prospective projects in our region





- 1. Aluminium
- 2. Copper
- 3. Cables

Steel

### 6. Real estate

- 7. Technology and R&D
- 8. Recycling

# VIOHALCO

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#### Real estate

Viohalco owns and manages a significant portfolio of commercial real estate assets, mainly through its subsidiary Noval. The most important properties are located in Greece (in Athens, Thessaloniki, Piraeus, Aspropyrgos, Corinth) and Bulgaria and include, among others, office complexes, shopping malls, industrial buildings, warehouses and hotels.

In addition, Viohalco holds a number of significant plots in prime locations for future development. The investment property has a total value of EUR 156 million.



#### Real estate

### VIOHALCO

#### Key real estate assets

	WYNDHAM GRAND				
Property	Karaiskaki Sq., Athens	Property	96, Kifissos Ave.,	Property	Mare West, Corinth
Owner	Xenka SA (100% subsidiary of Noval SA)	Owner	Athens Viohalco SA	Owner	Corinth Retail Park Sa
Use of property	Hotel	Use of property	River West - Ikea Shopping Center	Use of property	Retail park
Condition of property	In operation	Condition of property	In operation	Condition of property	In operation
Land ('000 m²) Built ('000 m²)	2,2 23,4	Land ('000 m <sup>2</sup> ) Built ('000 m <sup>2</sup> )	59,6 123,5	Land ('000 m²) Built ('000 m²)	71,5 14,0

#### Real estate

VIOHALCO

#### Key real estate assets



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Property	115, Kifissias Ave., Ampelokipi, Athens
Owner	Sanitas SA (100% subsidiary of Noval SA)
Use of property	Office buildings
Condition of property	Under construction
Land ('000 m²) Built ('000 m²)	4,7 39,5

*******	*******************
Property	57, Ethnikis Antistasseos street, Halandri, Athens
Owner	Noval SA
Use of property	Office buildings
Condition f property	In operation
Land ('000 m <sup>2</sup> )	4,1
Built ('000 m <sup>2</sup> )	6,0

Property	252, Pireos Str., Athens
Owner	Viohalco SA
Use of	Industrial buildings,
property	warehouses and offices
Condition	In operation
of property	
Land	72,5
('000 m <sup>2</sup> )	
Built ('000 m²)	45,1

- 1. Aluminium
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Viohalco's portfolio includes research and development (R&D) companies which focus on new and high value added products, efficient solutions for the optimisation of industrial and business processes, research into the environmental performance of plants and impact assessment of sustainable growth.

The portfolio also includes engineering, automation and informatics companies with over 30 years' experience producing innovative applications in industry, energy and environment. IT activities include pioneering solutions in the fields of ERP, CRM, BI, traceability and others.

One of the competitive advantages of Viohalco's companies is their expertise in building and upgrading plants, and their experience in planning, re-engineering, process optimisation and supervisory control systems.

Another key strength is human capital; leading process, mechanical and electrical engineers and metallurgists guarantee a steady increase in quality alongside a continuous increase in productivity.

- Aluminium Copper
- 3. Cables
- 4. Steel
- 5. Steel pipes
- 6. Real estate
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Viohalco's recycling segment trades and processes secondary raw materials, undertakes waste management, environmental operations, and provides services to consumers and corporate companies.

Recycling is one of Viohalco's most rapidly developing segments. It was formed as the outcome of Viohalco's commitment to the continuous improvement of its companies' environmental performance, and a desire to utilise waste for sustainable development.

In recent years, Viohalco's waste management companies have extended their services and expertise to a large number of external organisations, including multinational companies, public utilities, municipalities and extended producers responsibility schemes.

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