

# Prysmian Group Company Presentation

May 2017

PLATFORM TO ENHANCE CUSTOMER SERVICE LINKING THE FUTURE STRONGE LEADING TECHNOLOGY LEADING TECHNOLOGY WORLDWIDE LEADER IN RENEWABLE ENERGE EXTENDED PRODUCT OFFERING IN OGP AND IN





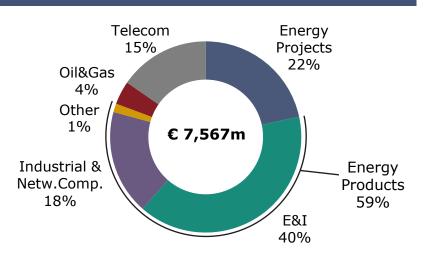
- > Group overview
- Results by business
- > Outlook

> Financial Results

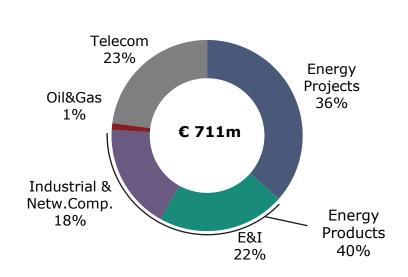
## Prysmian group at a glance

FY 2016 Financial Results

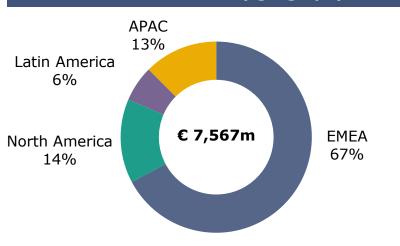




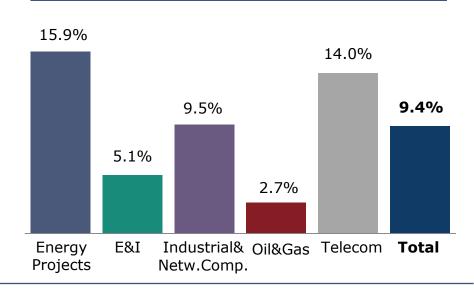
## Adj. EBITDA by business



## Sales breakdown by geography

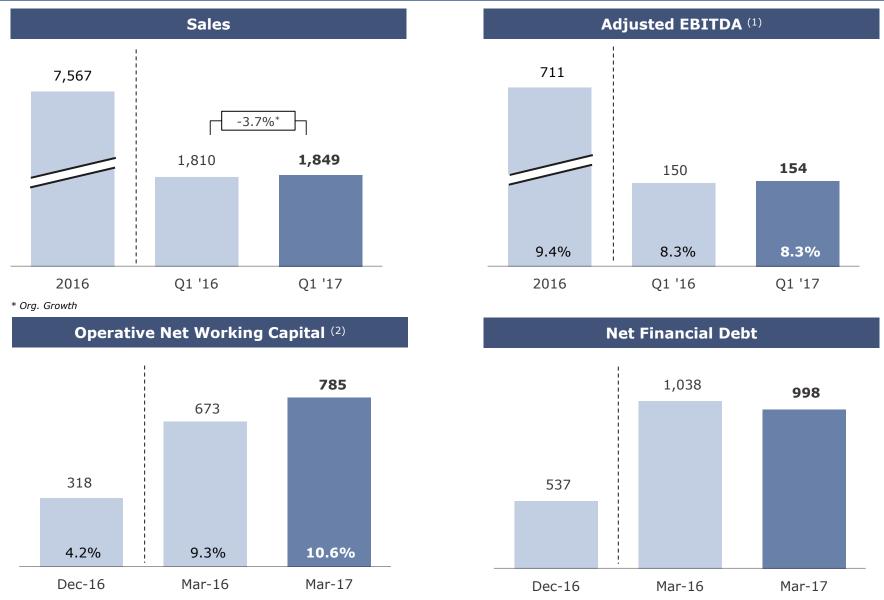


### Adj. EBITDA margin



## Q1 2017 Key Financials

Euro Millions, % on Sales

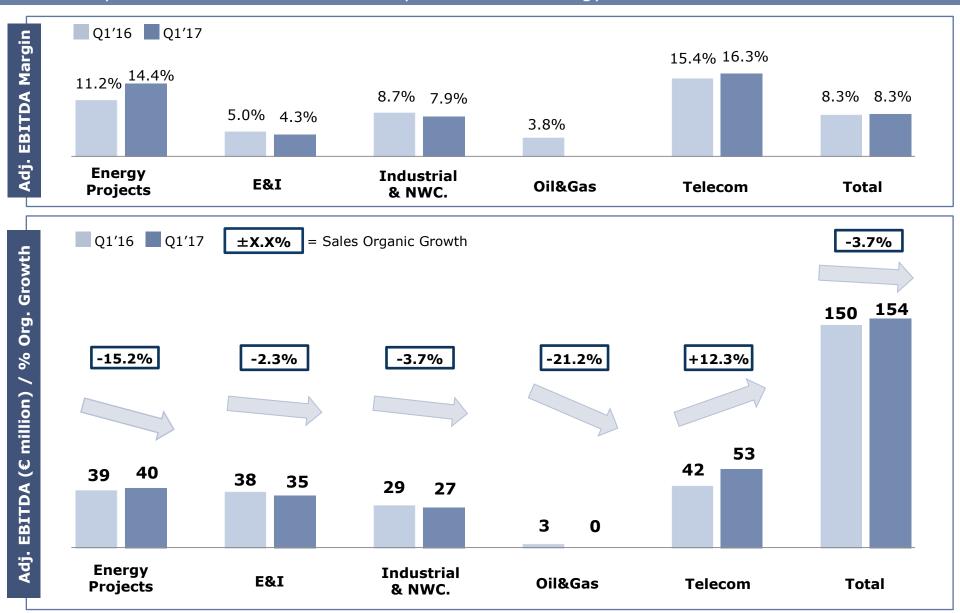


(1) Adjusted excluding non-recurring income/expenses; (2) Defined as NWC excluding derivatives; % on sales is defined as Operative NWC on annualized last quarter sales



## Moderate organic decline with stable profitability.

Positive performance in Telecom offset by weakness in Energy Products and Oil&Gas businesses.

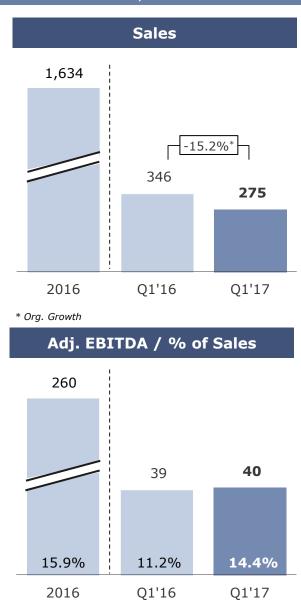


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## **Energy Projects**

Euro Millions, % on Sales



## Highlights

#### **Submarine**

- Positive market momentum confirmed by the recent projects awarded both in Interconnection (IFA2, approx. €350m) and Offshore wind (RTE Offshore, approx. €300m). January-April `17 order intake at approximately €700m.
- Adj.EBITDA margin improved on a favourable project mix, increase of MRO activities and the full utilization of the new installation assets (new vessel Ulisse, new jetting system).
- Organic decline related to project phasing.

## **Underground High Voltage**

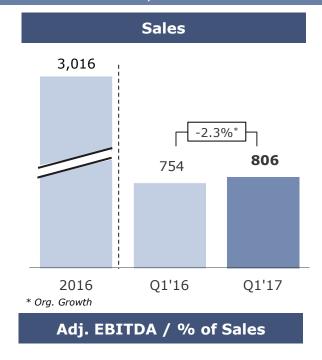
- Negative organic trend driven by soft market demand in France, Netherlands and the US and missing 2016 land portion of Turkey submarine project.
   Negative impact from change of perimeter in China in line with expectations.
- Adj.EBITDA margin improved thanks to a better project mix and the increase of service activities.

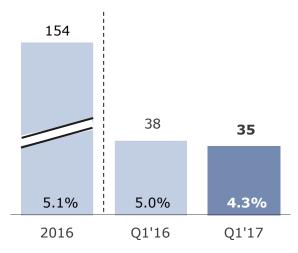
Orders Backlog Evolution (€ m)						
	Dec '13	Dec '14	Dec '15	Mar '16	Dec '16	Mar'17*
Underground HV	~450	~450	~600	~550	~350	~400
Submarine	~2,050	~2,350	~2,600	~2,650	~2,050	~2,200
Group	~2,500	~2,800	~3,200	~3,200	~2,400	~2,600

<sup>\*</sup> Excludes RTE offshore wind export cable worth approx.  $\ensuremath{\mathfrak{C}}$  300m

## **Energy & Infrastructure**

Euro Millions, % on Sales





## Highlights

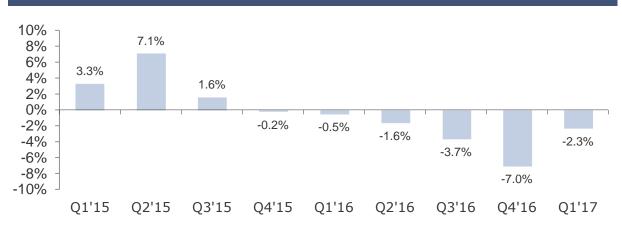
#### **Trade & Installers**

- Positive trend in the Nordics and Oceania, counterbalanced by a weak performance in Central-Eastern Europe, Turkey and Argentina.
- Profitability in the quarter temporarily affected by sharp increase in copper price.

### **Power Distribution**

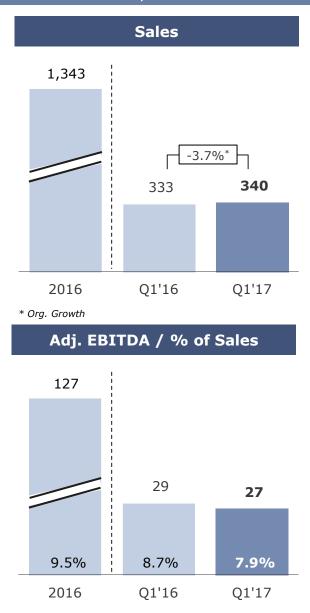
- Stable volumes despite the tough comparison with strong Q1 2016, with an increase in profitability.
- Nordics and APAC regions best performing areas, while Central-Eastern Europe (mainly Germany) and Argentina recorded a weak performance.

## Quarterly organic growth\* evolution



## **Industrial & Network Components**

Euro Millions, % on Sales



## **Highlights**

### **Order Backlog**

• Order backlog started to recover after 2 consecutive quarters of decline.

### **Specialties, OEMs & Renewables**

- Sound performance in Railway, supported by increasing order inflow, more than offset by slowdown in Renewables, Crane and Nuclear segments.
- Negative organic trend, also driven by uneasy comparison. Slowdown in Europe partially offset by positive performance in APAC.
- Profitability negatively impacted by unfavourable mix in OEM and volume decrease in Renewables.

### **Elevator**

- Positive volume trend in EMEA and North America, offset by slowdown in China mainly due to projects delays.
- Continued focus on market share expansion in the After Market and service segments.

### **Automotive**

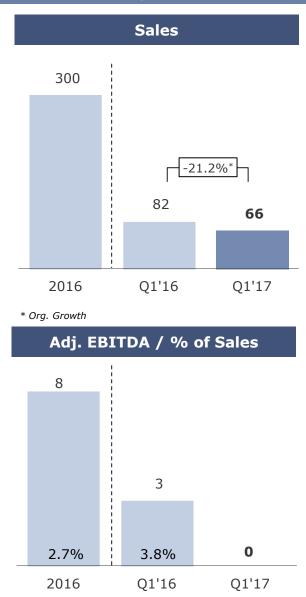
- Double digit organic growth and margin increase. Solid performance in APAC, North America and Latin America.
- Production footprint reorganization as a positive competitiveness driver in Europe.

### **Network Components**

• Strong growth of MV and LV accessories mostly offset by the slowdown in HV and EHV segment driven by a weak performance in Europe.

# Oil & Gas

Euro Millions, % on Sales



### **Highlights**

### **SURF**

- <u>Umbilical:</u> volume and price drop in line with expectations driven by the low level of orders in Brazil in 2016. 2017 bids characterized by continued price pressure.
- <u>DHT</u>: positive result in North America shale, offset by major deep-water projects postponement.

### **Core Oil&Gas Cables**

- Mid-single digit organic growth driven by onshore projects (Middle East, Russia, ASEAN) and drilling activities in North America.
- Design-to-cost and supply chain initiatives helped offsetting continued price pressure in the market.

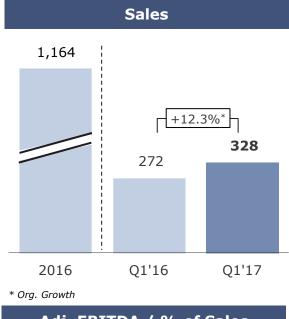




\* % change vs. same quarter of previous year

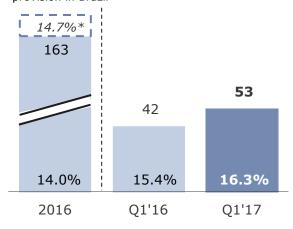
## **Telecom**

Euro Millions, % on Sales



## Adj. EBITDA / % of Sales

\* Adj. EBITDA margin excl. €8mln bad debt provision in Brazil



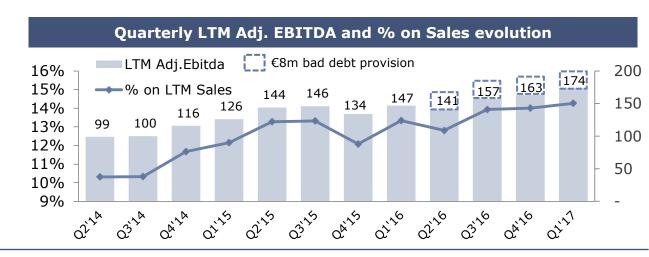
## **Highlights**

#### **Telecom Solutions**

- Solid performance mainly driven by the strong demand of the optical business.
- The new supply agreement signed between Prysmian and Verizon in the US (approx. \$300m in 3 years) confirms the solid market momentum in the country.
- Positive market trend in Europe.
- General fiber shortage in the market

#### **MMS**

- Positive trend in all regions, in particular in Europe and South America.
- Capacity increase due to acquisition of Corning business in Germany (in H2-2016) allowing to follow solid market growth in Europe.

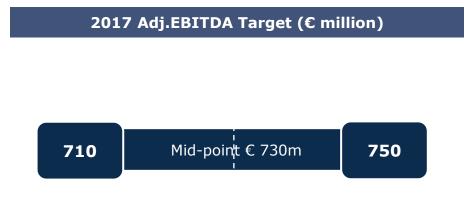


Group overview

- Results by business
- > Outlook

> Financial Results

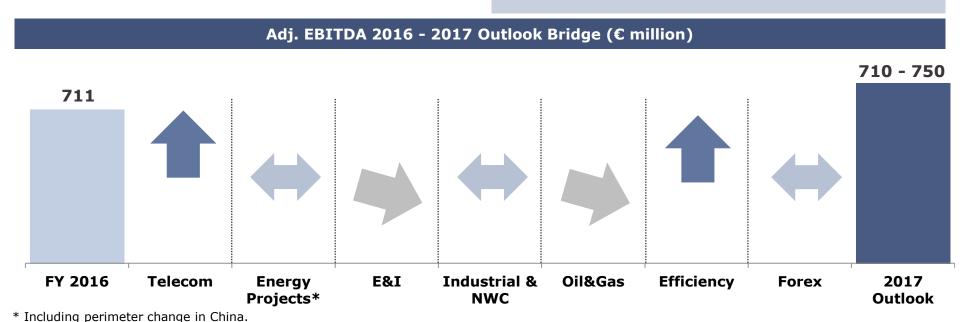
## FY 2017 Outlook



### 2017 Adj.EBITDA Target Assumptions (€ million)

### Mid-point target assumptions:

- Continued strong growth in Telecom business
- Stable results in Energy Projects after adsorbing negative perimeter effect in Underground HV (China)
- Soft market trend continuing through the year in the Energy Products.
- Steadily difficult trend in Oil&Gas (SURF).



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# **Profit and Loss Statement**

Euro Millions

	Q1 2017	Q1 2016*
Sales YoY total growth YoY organic growth	<b>1,849</b> 2.2% (3.7%)	1,810
Adj.EBITDA % on sales	<b>154</b> 8.3%	<b>150</b> 8.3%
Adjustments	(24)	(10)
<b>EBITDA</b> % on sales	<b>130</b> 7.0%	<b>140</b> 7.7%
Adj.EBIT % on sales	<b>110</b> 5.9%	<b>107</b> 5.9%
Adjustments Special items	(24) (8)	(10) (25)
<b>EBIT</b> % on sales	<b>78</b> 4.2%	<b>72</b> 4.0%
Financial charges	(26)	(18)
<b>EBT</b> % on sales	<b>52</b> 2.8%	<b>54</b> 3.0%
Taxes % on EBT	(15) (28.0%)	(17) (31.5%)
Net Income % on sales	<b>37</b> 2.0%	<b>37</b> 2.0%
Minorities	1	6
<b>Group Net Income</b> % on sales	<b>36</b> 2.0%	<b>31</b> 1.7%

\* Restated figures

# **Adjustments and Special Items on EBIT Euro Millions**

	Q1 2017	Q1 2016
Non-recurring Items (Antitrust Investigation) Restructuring	(15) (5)	- (7)
Other Non-operating Income / (Expenses)	(4)	(3)
EBITDA adjustments	(24)	(10)
Special items	(8)	(25)
Gain/(loss) on metal derivatives	3	2
Assets impairment	-	(15)
Other	(11)	(12)
EBIT adjustments	(32)	(35)

# Financial Charges Euro Millions

	Q1 2017	Q1 2016
Net interest expenses	(17)	(15)
of which non-cash conv.bond interest exp.	(4)	(2)
Bank fees amortization	-	-
Gain/(loss) on exchange rates	1	7
Gain/(loss) on derivatives 1)	(7)	(9)
Non recurring effects	(1)	(1)
Other non-operating financial expenses	(2)	
Net financial charges	(26)	(18)

<sup>1)</sup> Includes currency and interest rate derivatives

# **Statement of financial position (Balance Sheet) Euro Millions**

	31 Mar 2017	31 Mar 2016*	31 Dec 2016
Net fixed assets	2,656	2,546	2,630
of which: goodwill	447	446	448
of which: intangible assets	340	272	344
of which: property, plants & equipment	1,653	1,535	1,631
Net working capital	788	646	325
of which: derivatives assets/(liabilities)	3	(27)	7
of which: Operative Net working capital	785	673	318
Provisions & deferred taxes	(359)	(308)	(360)
Net Capital Employed	3,085	2,884	2,595
Employee provisions	381	332	383
Shareholders' equity	1,706	1,514	1,675
of which: attributable to minority interest	212	221	227
Net financial debt	998	1,038	537
Total Financing and Equity	3,085	2,884	2,595

<sup>\*</sup> Restated figures

## **Cash Flow Euro Millions**

			31/3/2017)
Adj.EBITDA	154	150	715
Adjustments	(24)	(10)	(80)
EBITDA	130	140	635
Net Change in provisions & others	(1)	(17)	16
Share of income from investments in op.activities	(10)	(7)	(34)
Cash Flow from operations (bef. WC changes)	119	116	617
Working Capital changes	(483)	(294)	(122)
Dividends received	3	2	11
Paid Income Taxes	(20)	(24)	(72)
Cash flow from operations	(381)	(200)	434
Acquisitions & Disposals	-	-	31
Net Operative CAPEX	(67)	(49)	(245)
of which acquisitions of assets of ShenHuan	(33)	-	(44)
Free Cash Flow (unlevered)	(448)	(249)	220
Financial charges	(12)	(16)	(64)
Free Cash Flow (levered)	(460)	(265)	156
Free Cash Flow (levered) excl. Acquisitions & Disposals**	(427)	(265)	169
Dividends	-	(11)	(91)
Treasury shares buy-back & other equity movements	(49)	-	(49)

Q1 2017

(509)

(537)

(509)

48

(998)

**Net Cash Flow** 

Net cash flow

Other variations

Net financial debt beginning of the period

Equity component of convertible bond

(276)

(750)

(276)

(12)

(1,038)

Q1 2016

16

(1,038)

16

48

(24)

(998)

12 Months (from

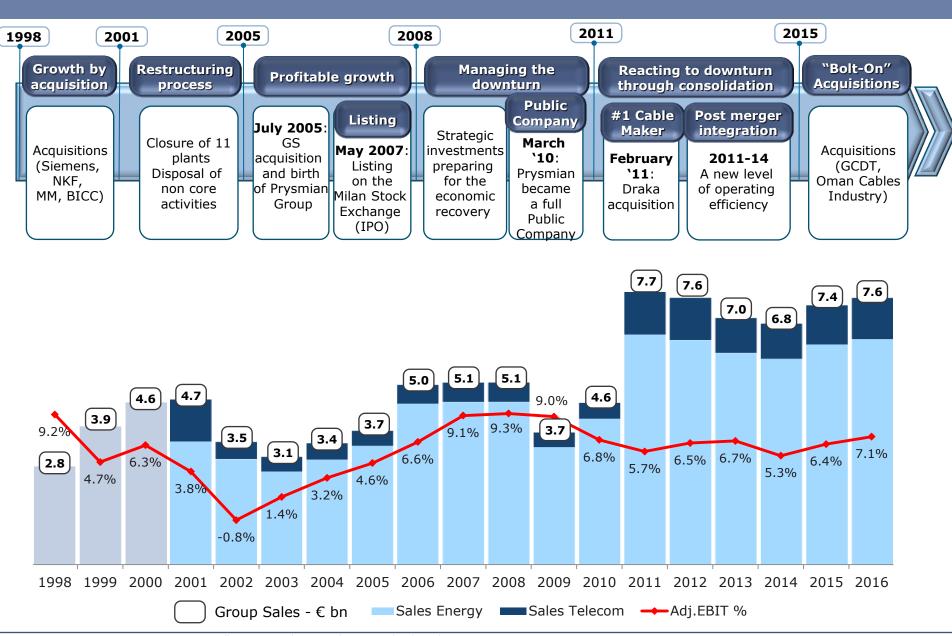
1/4/2016 to

Net financial debt end of the period \*\* Calculated as FCF (levered) excluding acquisitions of assets of ShenHuan and "Acquisitions & Disposals". Prysmian Group

- > Group overview
- Results by business
- Outlook
- > Financial Results

- Prysmian at a glance
- OCI Acquisition
- o Financials
- Energy Projects and Energy Products
- o Telecom

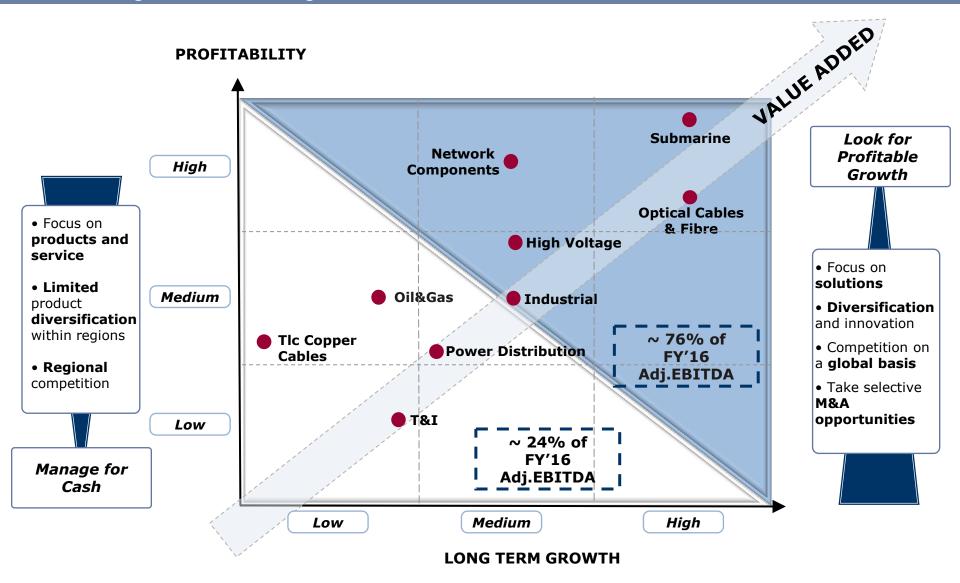
## **Key milestones**





## **Prysmian Group business portfolio**

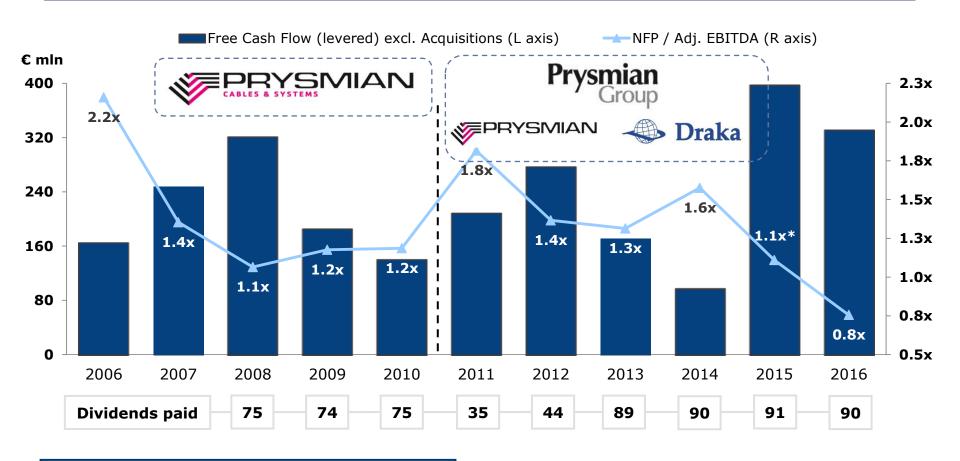
Focus on high value added segments



## Cash Flow generation as key priority to create value for shareholders

Growing capabilities to invest organically/acquisitions and remunerate shareholders

### **Cash Flow generation**



Approx. € 230m average free cash flow per year generated in 2006-16

Almost €670m distributed to shareholders since IPO

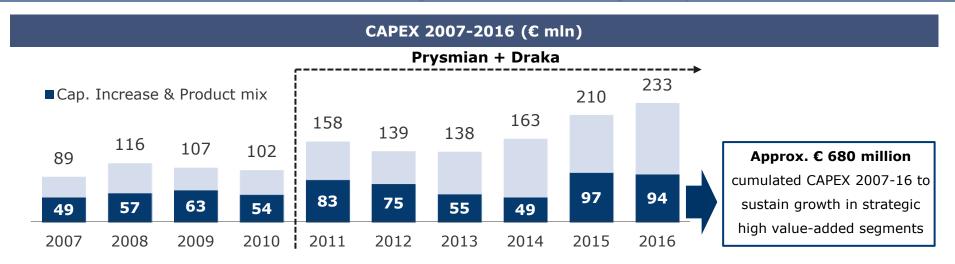
Note: 2011 combined; 2012-13 restated in application of IFRS 10-11 and reclassification of share of net income

\*Calculated as NFP reported as of 31 December 2015 divided by Pro-Forma FY2015 EBITDA including OCI and GCDT full contributions.

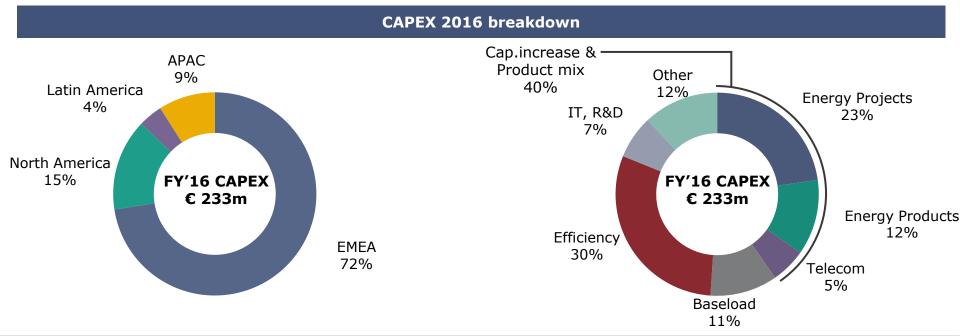


## Disciplined Capex to grow in high margin business and out of Europe

Investments focused on business with long term drivers and high entry barriers



2011 Combined; 2012-13 restated in application of IFRS 10-11 and reclassification of share of net income





## **Metal Price Impact on Profitability**

#### Supply **Metal Influence on Cable Price Main Application Metal Fluctuation Management** Contract **Impact Impact** Technology and design **Pricing locked-in** at order intake Projects (Energy content are the main Profitability protection through transmission) **Predetermined** elements of the "solution" systematic hedging (long order- Cables for delivery date to-delivery cycle) industrial offered Pricing little affected by applications (eq. OGP) metals Price adjusted through Pricing defined as **hollow**, Cables for energy **formulas** linked to metal publicly thus mechanical price utilities (e.g. available quotation (average last Frame adjustment through power distribution month, ...) contracts formulas linked to metal Profitability protection through cables) publicly available quotation systematic hedging (short order-to-delivery cycle) Pricing managed through price lists, thus leading to some delay Standard products, high Cables for • Competitive pressure may construction and copper content, limited Spot orders impact on delay of price civil engineering value added adjustment Hedging based on forecasted volumes rather than orders High Low Metal price fluctuations are normally passed through to customers under supply contracts Hedging strategy is performed in order to systematically minimize profitability risks

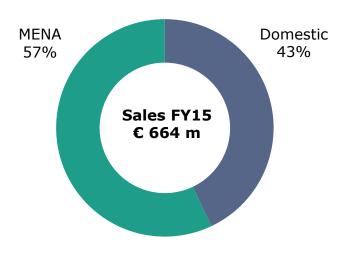
- Group overview
- Results by business
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- > Financial Results

- o Prysmian at a glance
- OCI Acquisition
- o Financials
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## Focus on Oman Cables Industry Acquisition

A perfect example of "Bolt-on" acquisition.

## **2015** Sales Breakdown (€ million (1))



(1) 2015 average EUROMR spot FX rate 0.4268

### **Strategic Position**



### **Structure of the Deal**

### STRUCTURE OF THE DEAL

- Acquisition of approx. 16% stake in listed company OCI
- Total cash consideration € 105 million
- OCI Balance Sheet consolidated at 31 Dec 2015;
   P&L consolidated as of 1<sup>st</sup> Jan 2016.

#### STRATEGIC RATIONALE

- Geographic diversification toward middle-east region.
- No import duties in GCC market.
- · Low integration risk. Solid track record.

### **Product Range**



- Building Wire and Cable
- LV and MV power cables (up to 33kV)
- Control cables for industrial applications



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- > Financial Results

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- Financials
- Energy Projects and Energy Products
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<ul><li>EBIT</li><li>% on sales</li><li>Financial charges</li></ul>	<b>78</b> 4.2% (26)	<b>72</b> <u>4.0%</u> (18)
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Net Income % on sales Minorities	2.0%	<b>37</b> 2.0% 6
Group Net Income % on sales	36 2.0%	<b>31</b>

<sup>\*</sup> Restated figures

# **Energy Projects Segment – Profit and Loss Statement Euro Millions**

	Q1 2017	Q1 2016
Sales to Third Parties	275	346
YoY total growth	(20.5%)	
YoY organic growth	(15.2%)	
Adj. EBITDA	40	39
% on sales	14.4%	11.2%
Adj. EBIT	30	31
% on sales	10.7%	8.8%

# **Energy Products Segment – Profit and Loss Statement**

Euro Millions

		Q1 2017	Q1 2016*
	E&I	806	754
(0	YoY total growth	7.0%	
Sales to Third Parties	YoY organic growth	(2.3%)	
är	Industrial & Netw. Comp.	340	333
_ <del>D</del>	YoY total growth	1.9%	
Jiro	YoY organic growth	(3.7%)	
È	Other	34	23
to	YoY total growth	48.1%	
les	YoY organic growth	(0.0%)	
Sal	ENERGY PRODUCTS	1,180	1,110
	YoY total growth	6.3%	
	YoY organic growth	(2.7%)	
	E&I	35	38
⋖	% on sales	4.3%	5.0%
Adj. EBITDA	Industrial & Netw. Comp.	27	29
BI.	% on sales	7.9%	8.7%
Щ.	Other	(1)	(1)
١dj	% on sales	(1.5%)	(2.3%)
4	ENERGY PRODUCTS	61	66
	% on sales	5.2%	6.0%
	E&I	21	24
	% on sales	2.6%	3.2%
늡	Industrial & Netw. Comp.	22	24
EBIT	% on sales	6.5%	7.2%
Adj.	Other	(2)	(2)
AG	% on sales	(4.7%)	(7.0%)
	ENERGY PRODUCTS	41	46
	% on sales	3.5%	4.1%

<sup>\*</sup> Restated figures

## Oil&Gas Segment – Profit and Loss Statement Euro Millions

	Q1 2017	Q1 2016
Sales to Third Parties	66	82
YoY total growth	(19.4%)	
YoY organic growth	(21.2%)	
Adj. EBITDA	0	3
% on sales	-	3.8%
Adj. EBIT	(4)	(2)
% on sales	(6.5%)	(1.8%)

# **Telecom Segment – Profit and Loss Statement Euro Millions**

	Q1 2017	Q1 2016
Sales to Third Parties	328	272
YoY total growth	20.6%	
YoY organic growth	12.3%	
Adj. EBITDA	53	42
% on sales	16.3%	15.4%
Adj. EBIT	43	32
% on sales	13.2%	11.7%

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- Outlook
- > Financial Results

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- o Financials
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## **Investing in submarine to increase ROCE**

Strengthening production and installation capabilities









## - Length overall: 120.1m

- Depth moulded: 7.6m

- Gross tonnage: 10.157 t



- Length overall: 133.2m - Depth moulded: 7.6m

Gross tonnage: 10,617 t

### Main projects in execution/orders backlog:

- Western Link
- BorWin 3 / DolWin 3
- Messina II
- Mon.Ita.
- Hainan 2
- Shannon River

- West of Adlergrund
- Cyclades
- Philippines
- Wikinger
- COBRA cable
- France offshore wind



- Length overall: 124m

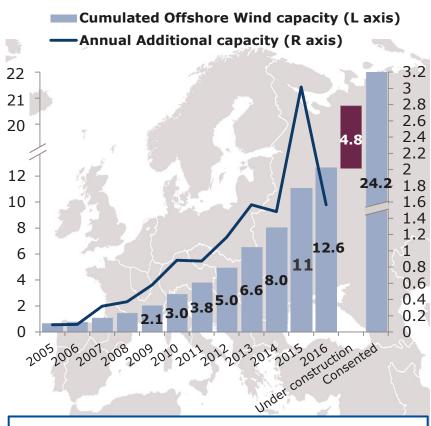
- Depth moulded: 6.8m

- Gross tonnage: 8,328 t

## Off-shore wind development in Europe

High visibility on new projects to be awarded next quarters

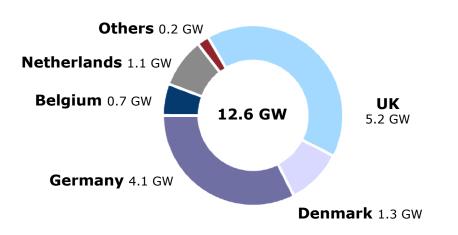
## **Europe Offshore Wind capacity (GW)**



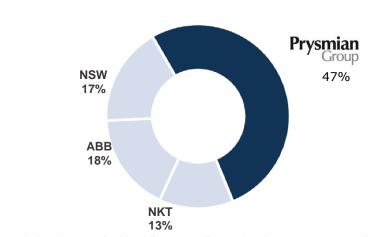
- Capacity Increase: 1.6 GW in 2016 (-18% vs. 2015)
- **Total capacity: 12.6 GW** at end 2016 (+14% vs. 2015)
- Under construction: 4.8 GW at end 2016
- Consented: 24.6 GW

Source: EWEA (January 2017)

### **Europe 2016 Cumulated Capacity by Country**



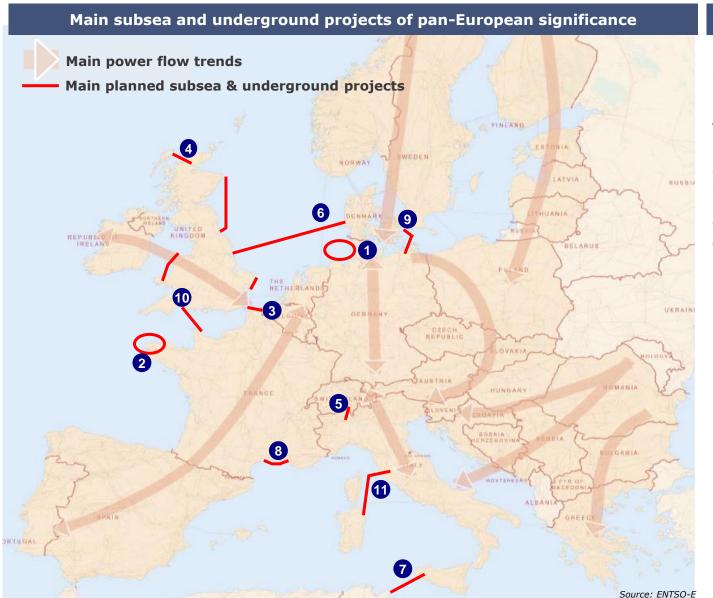
## Mkt share of export cable suppliers in 2016 \*



\* Calculated on no. of cables fully or partially completed, percentage. EWEA (January 2017)

# Major transmission projects to be awarded

Large pipeline of pan-European projects under development



### List of main projects

- 1. **Germany** (HVDC Grid Offshore)
- 2. France Off-Shore (Inter-Array)
- 3. France UK (Eurotunnel)
- 4. Western Isles Link
- 5. Green Connector
- 6. Denmark UK (Viking Link)
- 7. Tunisia Italy
- 8. Marseille Languedoc
- 9. Denmark Germany
- 10.France UK (FAB)
- 11.Sardinia-Corsica-Ita (SACOI3)

Other Projects: Spain-France (sub), Ireland-France (sub), Israel-Cyprus-Crete-Greece (sub), Ireland-UK (sub), Egypt-Saudi Arabia (sub), North-South Germany (underground).

# Latest submarine projects awarded

## Key success factors

- Track record and reliability
- Ability to design/execute turnkey solution
- Quality of network services
- Product innovation
- State-of-the-art cable laying ships

### **Action plan**

- Cable Enterprise vessel conversion to improve installation capacity
- New investment worth approx. €40m in Pikkala and Arco Felice to enhance the production capability to meet the order backlog requirements
- Leverage on strong off-shore windfarms trend
- Secure orders to protect long-term growth
- Focus on execution

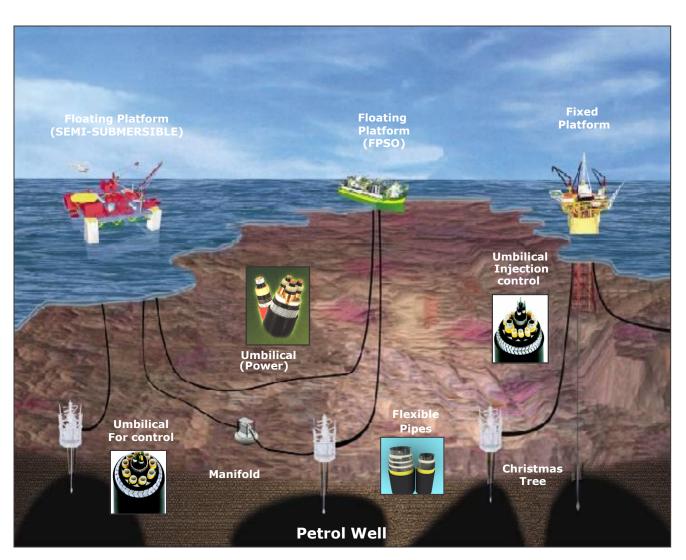
Latest Key projects	Customers	Period	€m*
IFA2	RTE / National Grid	2018-20	350
ElecLink	Groupe Eurotunnel	2017-19	79
COBRA cable	TenneT – Energinet.dk	2016-18	250
Hainan II	China South Grid	2016-19	\$140m
NSN Link	Statnett SF – National Grid	2015-21	550
West of Adlergrund Option	50Hertz Offshore GmbH	2015-18	230
Wikinger	Iberdrola Renovables Offshore	2015-17	60
Philippines	NGCP	2015-16	90
Dardanelles 2	TEIAS	2015-16	64
Cyclades	IPTO	2015-16	95
West of Adlergrund	50Hertz Offshore GmbH	2015-18	480
Shannon River Crossing	ESB	2014-16	40
Zakum offshore oil field	Emirates Holding	2014-15	30
BorWin3	TenneT	2014-17	250
Capri	Terna	2014-15	70
US Offshore platforms	ExxonMobil's	2014-15	\$100m
Balearic Islands	Red Eléctrica de España	2014-15	85
DolWin3	TenneT	2014-16	350
Normandie 3	Jersey Electricity plc	2013-14	45
Mon.Ita	Terna	2013-17	400
Dardanelles	TEIAS	2012-14	67
Phu Quoc	EVNSPC	2012-14	67
Western Link	National Grid-Scottish Power JV	2012-17	800
HelWin2	TenneT	2012-15	200
Hudson Project	Hudson Transm. Partners LLC	2012-13	\$175m
SylWin1	TenneT	2012-15	280

<sup>\*</sup> Prysmian portion of the project



# **SURF** – Off-shore oil exploration

Oilfield structure



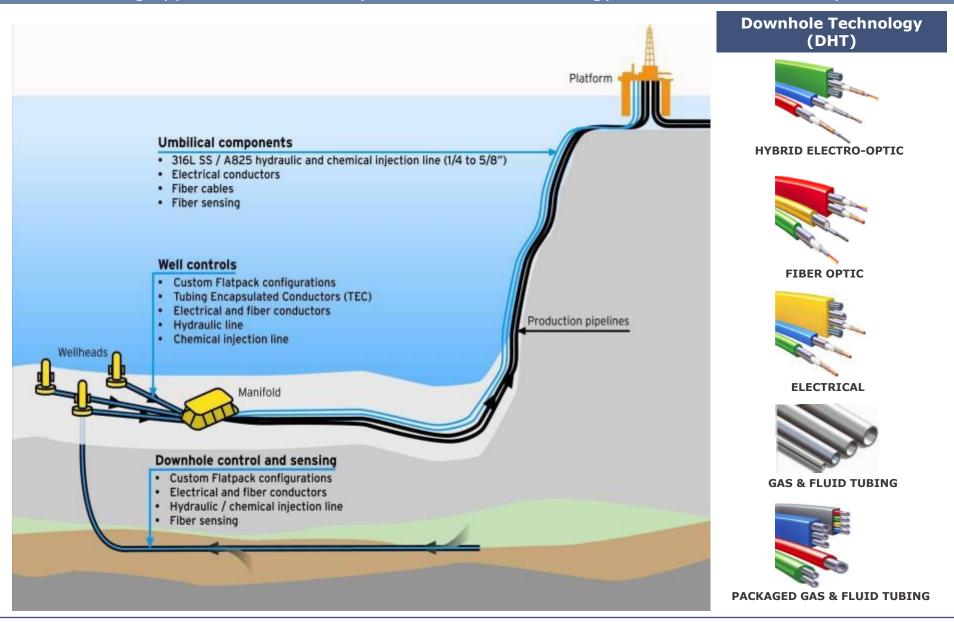
## **Flexible Pipes**





## **SURF – Off-shore oil exploration**

Cross selling opportunities driven by the Downhole technology business contributed by Draka

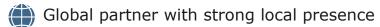


## **Trade & Installers - Overview**

### **BUSINESS DESCRIPTION**

- Building wires, Low and Medium voltage cables for residential, commercial, industrial and infrastructure constructions
- Partner of the World best Wholesalers, Installers, Contractors & Specialized Distributors; with a clear focus on their needs following a Customer Centricity approach
- Complete product range of solutions for the construction world, including residential, commercial, industrial and infrastructure with focus on high performance products: best in class Fire Resistant cables, LSOH, Green cables, Easy to Install and Total Cost of Ownership reduction solutions

### **KEY SUCCESS FACTORS**





Technological leadership and product excellence

Customer centric approach

Capillary logistical distribution network and service

Technical support

Extra services

Unique industry expertize

### **KEY CUSTOMERS**

Contractors & Installers





Wholesalers





Specialized distributors















## Trade & Installers

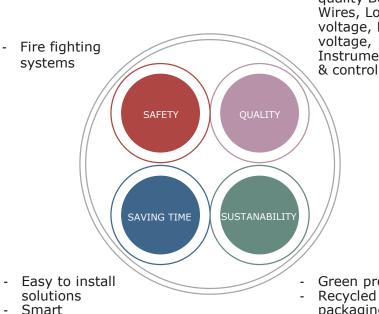
## Offer overview

RESIDENTIAL - COMMERCIAL -**INDUSTRIAL - INFRASTRUCTURE** 

- POWER SUPPLY
- **EMERGENCY CIRCUITS**
- CONNECTIONS
- MACHINERY (MOBILE OR NOT) -
- **SWITCHBOARD**

- LIGHTING
- (INTERIOR/EXTERIOR)
- **BRANCHES**
- CONTROL/DATA
- **ELECTRICAL APPLIANCES**

### **BEST IN CLASS FIRE RESISTANT AND LSOH CABLES**



Full range quality Building Wires, Low voltage, Medium voltage, Instrumentation & control

Green products

packaging Full life cycle assessment

approach

A MAJOR ROLE IN MILAN **2015 EXPO** 

**TAKING** SAFETY **TO NEW HEIGHTS**  THE LIVES OF THESE PEOPLE DO **NOT HANG** BY A THREAD







Special fire safety and eco-friendly cables for the site hosting the Milan Universal **Exposition** of 2015: 50 km of medium voltage P-Laser cables and 300 km of low voltage Afumex cables

Approximately 350 km cables for Tele2 of high-tech fireresistant cables for power distribution supplied within the Shard skyscraper, the tallest building in London and Western Europe. Prysmian chosen as global supplier of BASEC and LPCB certified cables and components, and of support and advice to the construction company on the best installation methods to use

Around 500 km of Arena, a new, ultramodern multi-purpose stadium in Stockholm. Prysmian Group has supplied halogen-free cables for the stadium's power, telecommunication, and lighting systems, selected by the customer as the latest technology to quarantee safety

Packaging

Hybrid cables

Energy + Data

# **Industrial & Network Components – Overview**

### **Business description**

Integrated cable solutions highly customized to our industrial customers worldwide

### **Specialties & OEM**

Products for mining, crane, marine, railway, rolling stock, nuclear, renewables, defense and other niches



#### **Elevator**

Meeting the global demand for high-performing, durable and safe elevator cable and components we design manufacture and distribute packaged solutions for the elevator industry



#### **Automotive**

Standard and specialist cables for the automotive and transport industry, collaborating with the sector's leading international manufacturers



### **Network Components**

Network accessories and components to connect cables and other network elements

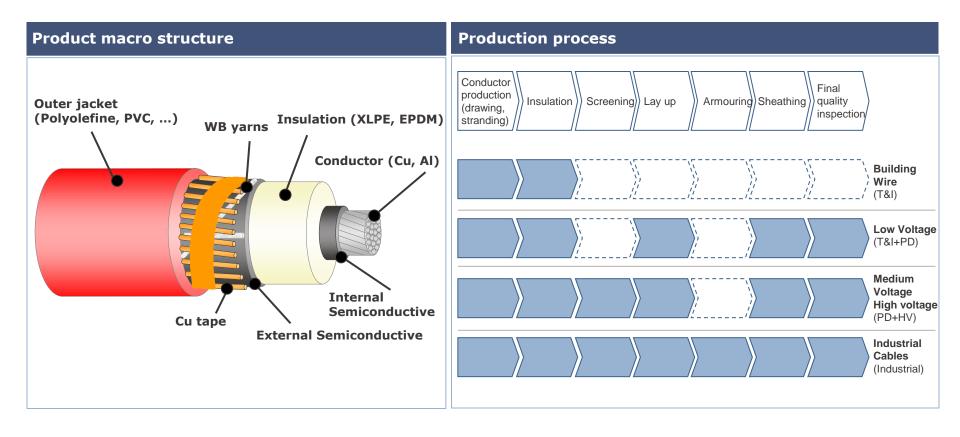


### **Key customers**

Large and differentiated customer base generally served through direct sales



# **Macro-structure of Energy Cables**



# Agenda

- Group overview
- Results by business
- Outlook
- > Financial Results

# > Appendix

- o Prysmian at a glance
- o OCI Acquisition
- o Financials
- Energy Projects and Energy Products
- Telecom

## **Telecom – Overview**

### **Business description**

Integrated cable solutions focused on high -end Telecom

#### **Telecom solutions**

<u>Optical cables</u>: tailored for all today's challenging environments from underground ducts to overhead lines, rail tunnels and sewerage pipes

<u>Copper cables</u>: broad portfolio for underground and overhead solutions, residential and commercial buildings

<u>Connectivity</u>: FTTH systems based upon existing technologies and specially developed proprietary optical fibres



#### **MMS**

<u>Multimedia specials</u>: solutions for radio, TV and film, harsh industrial environments, radio frequency, central office switching and datacom <u>Mobile networks</u>: Antenna line products for mobile operators <u>Railway infrastructure</u>: Buried distribution & railfoot cables for long distance telecommunication and advanced signalling cables for such applications as light signalling and track switching



### **Optical Fiber**

Optical fiber products: single-mode optical fiber, multimode optical fibers and specialty fibers (DrakaElite)

Manufacturing: our proprietary manufacturing process for Plasma-activated Chemical Vapor Deposition and Licensed OVD Technology (600 unique inventions corresponding to > 1.4K patents) positions us at the forefront of today's technology



## **Key customers**

Key customers include key operators in the telecom sector





## **Optical cables**

Global overview

### **Market trends**

- Demand function of level of capital expenditures budgeted by large telecom companies (PTT/incumbents as well as alternative operators) for network infrastructures, mainly as a consequence of:
  - Growing number of internet users data traffic
  - Diffusion of broadband services / other hightech services (i.e. IPTV)

### **Key success factors**

- Continuous innovation and development of new cable & fibre products
- Cable design innovation with special focus on installation cost reduction
- Relentless activity to maintain the highest quality and service level
- Focus on costs to remain competitive in a highly price sensitive environment

## Strategic value of fibre

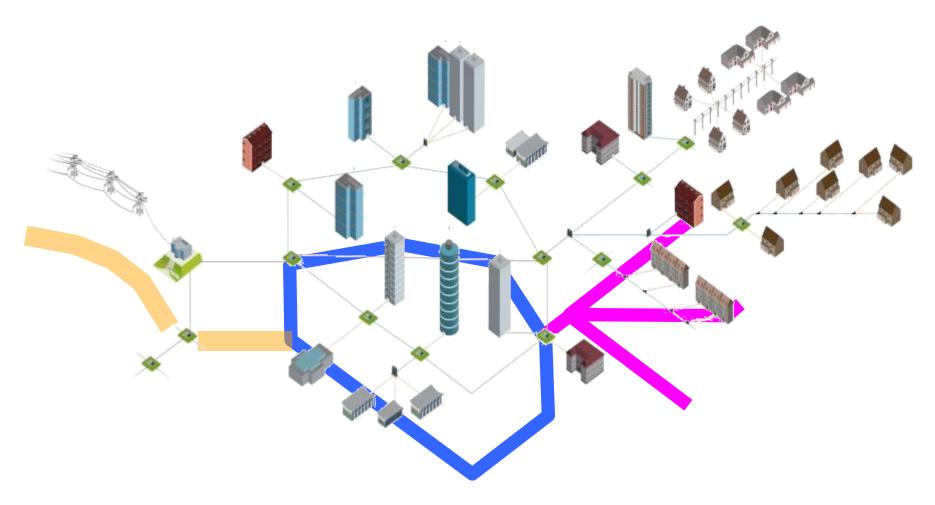
- Fiber optic represents the major single component cost of optical cables
- Fiber optic production has high entry barriers:
  - Proprietary technology or licenses difficult to obtain
  - Long time to develop know-how
  - Capital intensity
- When fiber optic is short, vertically integrated cable manufacturers leverage on a strong competitive advantage

### **Action plan**

- Maintain & reinforce position with key established clients
- Further penetration of large incumbents in emerging regions
- Optimize utilization of low cost manufacturing units
- Expand distribution model in Domestic & Export
- Streamline the inter-company process
- Fully integrated products sales
- Refocus on export activities
- Increase level and effectiveness of agents



# **Telecom Cables Main Applications**



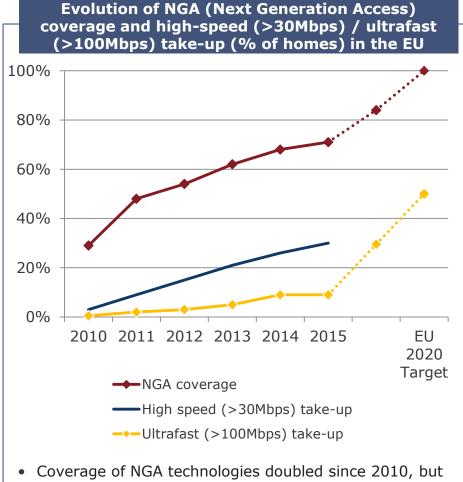
**BACKBONE** 

**METROPOLITAN RING** 

**ACCESS NETWORK** 

## Telecom – Market trend

Growth opportunities coming from the development of broadband in Europe

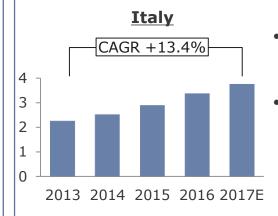


- Coverage of NGA technologies doubled since 2010, but further efforts are requested to meet 2020 target of 100% coverage
- Take-up of ultrafast (>100Mbps) broadband remains marginal (3% of homes) still faraway from 2020 target (50%)

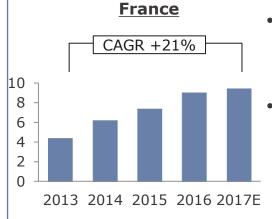
Source: European Commission Digital Agenda Scoreboard 2016



Consumption of fiber optic cable ('000,000 fiber km)



- NGA coverage at 36% in 2014 Vs EU average of 68%
- More than €10bn investment announced by telecom operators for the development of NGA in the coming years.

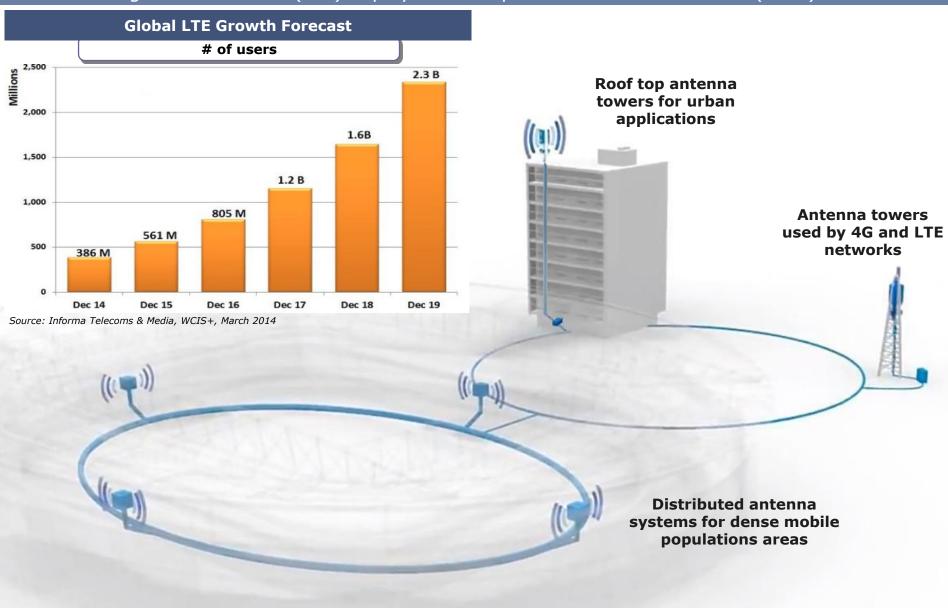


- Coverage of NGA in France (43%) well below EU average (68%) at end 2014
- THD plan to attract
   €20bn public/private
   investments in 2012-22
   to develop high speed
   and ultrafast
   infrastructures

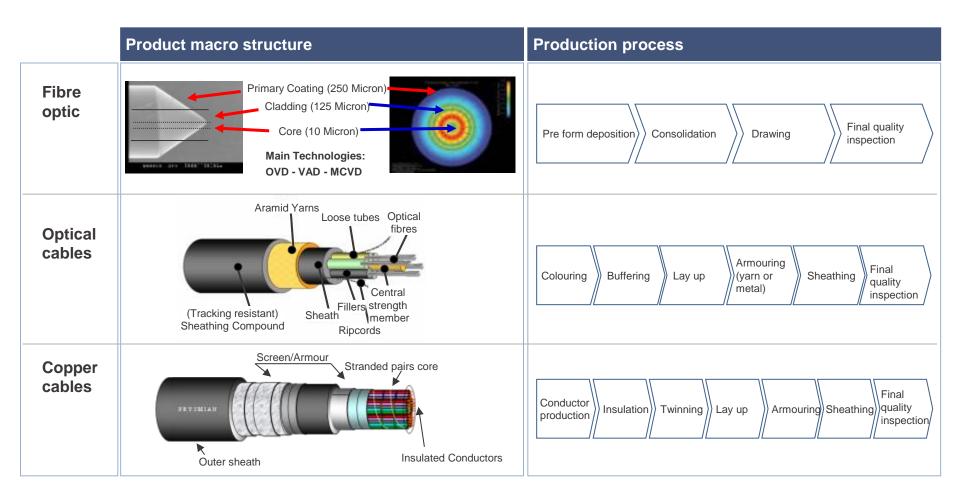
Source: CRU, January 2017; European Commission Digital Agenda Scoreboard 2016

# Telecom – FTTA as key driver of optical demand

4G and Long Term Evolution (LTE) deployments require Fiber-to-the-Antenna (FTTA)

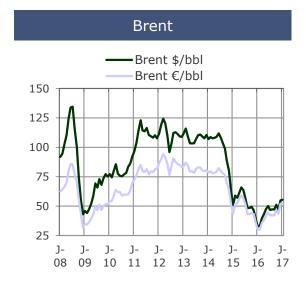


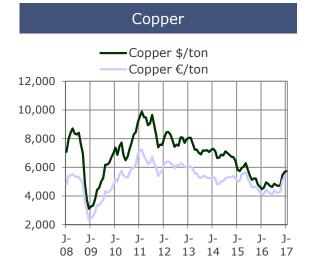
# **Macro-structure of Telecom Cables**



## **Reference Scenario**

Commodities & Forex







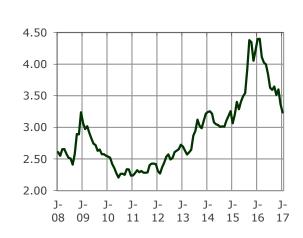








## EUR / BRL



Based on monthly average data Source: Nasdaq OMX



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