

The purpose of the information in this presentation is to guide ICA programs and provide members with information to make independent business decisions.

### **Antitrust Guidelines**



#### ANTITRUST GUIDELINES FOR COPPER INDUSTRY TRADE ASSOCIATION MEETINGS

The following guidelines with respect to compliance with antitrust laws of the United States, Japan and European Community<sup>1</sup> are intended to govern the conduct of participants in copper industry trade association meetings, both at the meeting itself and in informal discussions before or after the formal meeting.

Price. Competitors should not discuss future prices (including terms of sale) of their products. There is no blanket prohibition against the mention of or reference to current or past prices but limits must be observed. Such references or mentions should occur only when necessary in connection with the development of association programs. For example, reference to a particular price level in comparing the cost of a copper product to a competing product is permitted. Whenever possible, such references should be discussed in advance with legal counsel.

**Competitive Information**. Competitors should not discuss the market share of a particular copper producer or copper fabricator's products. Furthermore, nothing should be said at a meeting which could be interpreted as suggesting prearranged market shares for such products or producer production levels. The overall market share of copper products may be discussed with regard to competition with non-copper products and general market acceptance.

New Products. Competitors should not encourage or discourage the introduction of a new product by another competitor or reveal a particular copper company's plans to change the production rate of an existing product or to introduce a new product. No company should disclose to another company whether it is in a position to make or market a new product. New products may be discussed in a technical manner or from the standpoints of competition with non-copper products and general market acceptance. In addition, proposed methods for and results of field and laboratory testing can be considered.

The Role of Legal Counsel. Legal counsel attends association meetings to advise association staff and other meeting attendees regarding the antitrust laws and to see that none of the matters discussed or materials distributed raise even the appearance of antitrust improprieties. During the course of a meeting, if counsel believes that the discussion is turning to a sensitive or inappropriate subject, counsel will express that belief and request that the attendees return the discussion to a less sensitive area.

A paper entitled "Copper Industry Trade Associations and the Antitrust Laws" is available upon request.

10/92, 5/93, 10/10

Other foreign competition laws apply to International Copper Association, Ltd. (ICA)'s activities worldwide.



# **Substitution and Regulatory Trends**

### Paul Dewison, Managing Director, MetalsPlus

CESCO, Chile, April 2017





## 2016 Losses Below 1% of Total Demand

### Global net figures (kt)





## Substitution by Region in 2016 & Trend







## Substitution by Product in 2016 & Trend





## Substitution by Category 2005-2016

'Heritage markets' experience lower losses

### **Annual Substitution**



### Market Demand





## **Material Gains**

### At a relatively high level in 2016

### Substitution Gains in 2016



### ... Trend 2005 to 2016





## **Global Regulatory Issues**

Regulation increasingly important, may impact substitution in future

### The Green Economy

Resource Use, Carbon Footprint, Climate Change

### **Chemicals Management**

Harm to Human Health or the Environment





## The Issues and Supply Chain Level





## The Cycles and Regulatory 'Hot Spots'



## **Regulatory Impact**

### Select regulations and potential impact

### **Chemicals Management**

2005 to	To 2025 -	Chain to
Present	Possible	Cathode

#### **Chemicals Content of Products & Systems**

Pb & Cu in Plumbing Systems		
Pb in Autos & E/E Equipment		
Pb in Consumer Goods		
Indirect & Extended Impacts		

#### **Chemicals in the Supply Chain**

GHS & REACH-like Legislation	
Other Chemicals Legislation	
SOLAS	
Occupational Exposure Limits (OEL)	
Indirect & Extended Impacts	

#### **Chemicals in the Environment**

MARPOL		]>><(]
Other Marine, Water & Soil		[>><<]
Air Pollution		]>><[]
Indirect & Extended Impacts		

#### KEY



Negative - Major	
Negative - High	
Negative - Moderate	
Negative - Minor	



### Green Economy & Other

2005 to	To 2025 -	Chain to
Present	Possible	Cathode

#### **Energy Efficient Equipment**

MEPs Motors - Direct		
MEPs Motors - Indirect		
MEPs Transformers - Direct		
MEPs Transformers - Indirect		
MEPs & Refrigerants Aircon - Direct		
MEPs & Refrigerants Aircon - Indirect		
MEPs Other - Direct		
MEPs Other - Indirect		
Carbon-Neutral Buildings		

#### Green House Gas Reduction and Circular Economy (other)

GHG Reduction - Impact on Smelters		[>><<[
GHG Reduction - Impact on Renewables		
GHG Reduction - Impact on Autos		
CE - Products for Longer Life		
CE - Products for Repair & Re-use		
CE - Products for Low Materials Content		
CE - Products for Recyclability		
CE - Aggressive Recycling Control		
CE - Other Indirect & Extended Impacts		$\sum$

#### **Other Rules**

Conflict Minerals etc. (incl. Indirect)		]>><<[
Electrical Safety Rules		
Energy Efficient Product Labelling		

No Discernable Impact



- Net materials substitution in 2016 fell to 240 kt, or 0.9% of the market:
  - This was the fifth consecutive annual decline in substitution
- > A further fall in cost relative to substitutes, especially aluminum, was a driver:
  - Copper has seen significant gains as well as losses
- Substitution has shifted in emphasis from 'heritage markets' to mainstream uses:
  - Network power cable, copper RBS and alloy products are seeing the most substitution
- Regulation could play a much more important role; major sets include:
  - Chemicals Management of toxic materials e.g. Lead use in Cu alloys
  - Green Economy Rules e.g. Minimum Energy Performance standards
- Regulations are getting tougher:
  - Green rules likely to include a growing element of resource conservation
  - 'Social License' elements coming in, requiring more comprehensive supply chain audit
- Manufacturers are showing willingness to go beyond requirements of the law:
  - Future proofing, eliminating uncertainty and positioning as a 'moral supplier' are all reasons