



# ***The CRONIMET Group***

*Technologies & Solutions for global metal markets*

Maciej Lipiński, PhD., CEO Cronimet PL Sp. z o.o.

metals are our passion



# AGENDA

1

*CRONIMET GROUP*

2

*FACTS & FIGURES*

3

*BUSINESS UNITS CRONIMET HOLDING GROUP*

4

*BUSINESS UNITS CRONIMET MINING GROUP*

5

*SOCIAL RESPONSIBILITY*

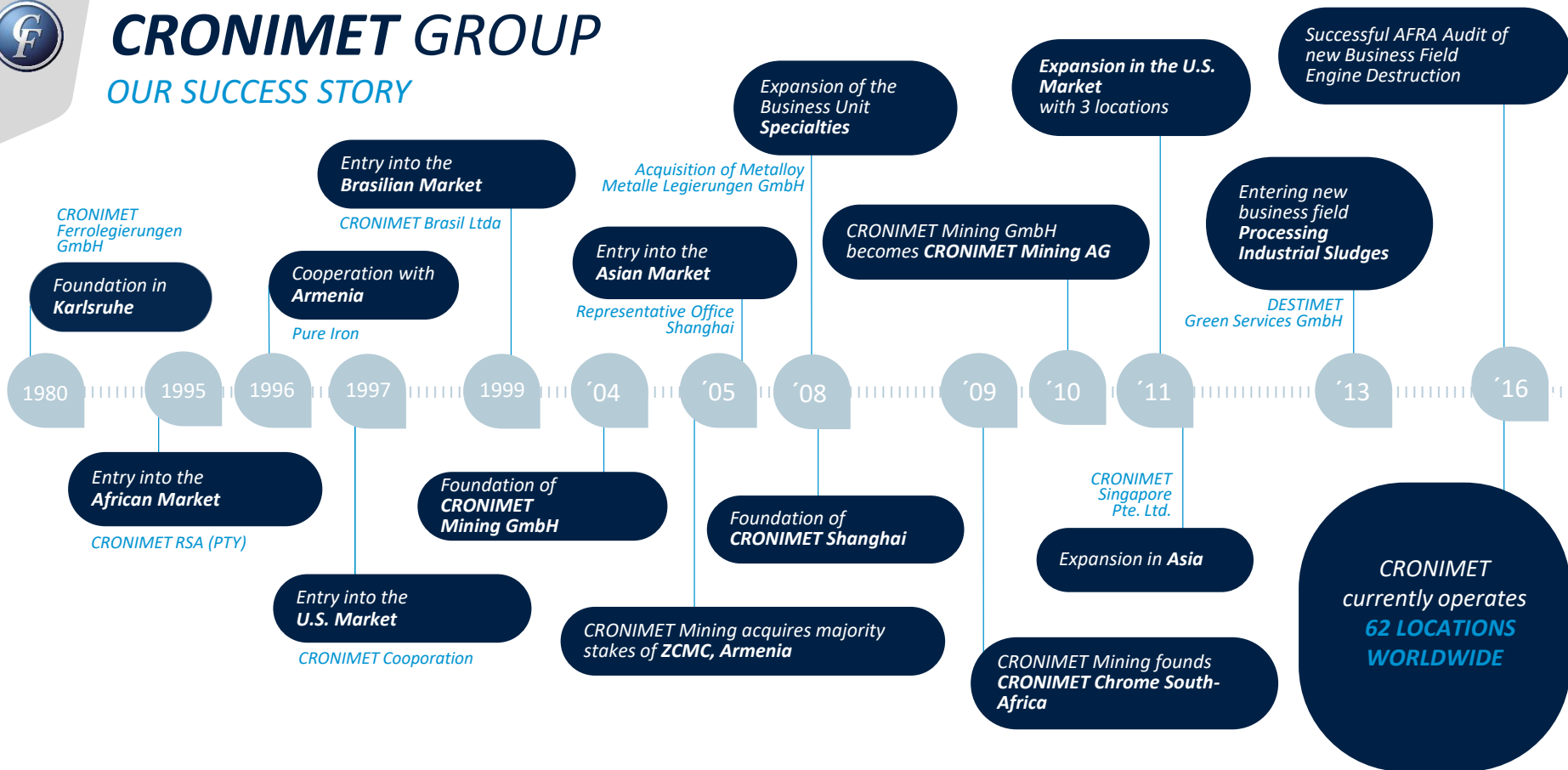


***„Our family foundation  
is based on reliability and cooperation.  
On this fundament we do business as company and combine tradition  
with openness.“*** Günther Pilarsky – company founder



# CRONIMET GROUP

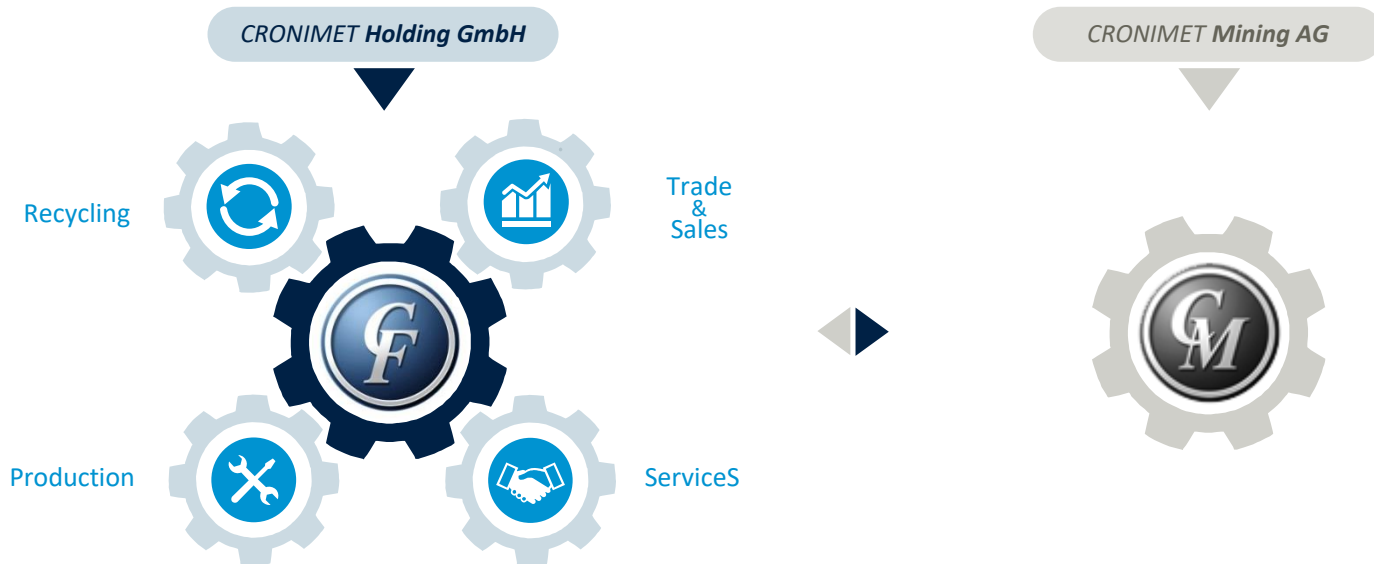
## OUR SUCCESS STORY





# CRONIMET GROUP

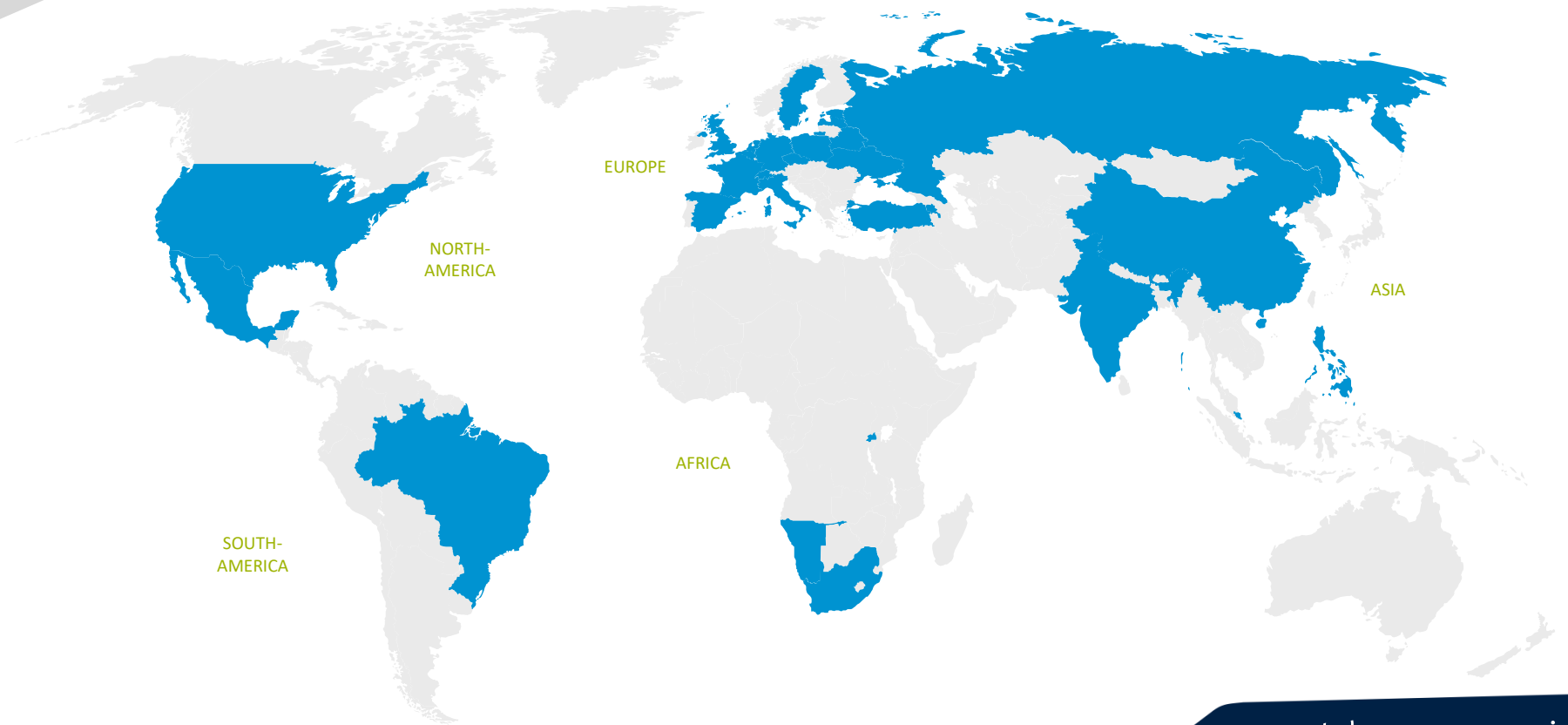
89 branches, subsidiaries & representations at 62 locations on 4 continents with over 5400 employees worldwide.





# **CRONIMET** *worldwide*

62 LOCATIONS ON 4 CONTINENTS





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*SOCIAL RESPONSIBILITY*



***„Due to the global presence  
of the CRONIMET Group we are worldwide leading specialist  
for stainless steel scrap.“***

**Bernhard Kunsmann - Management CRONIMET Holding GmbH**



# Facts & Figures

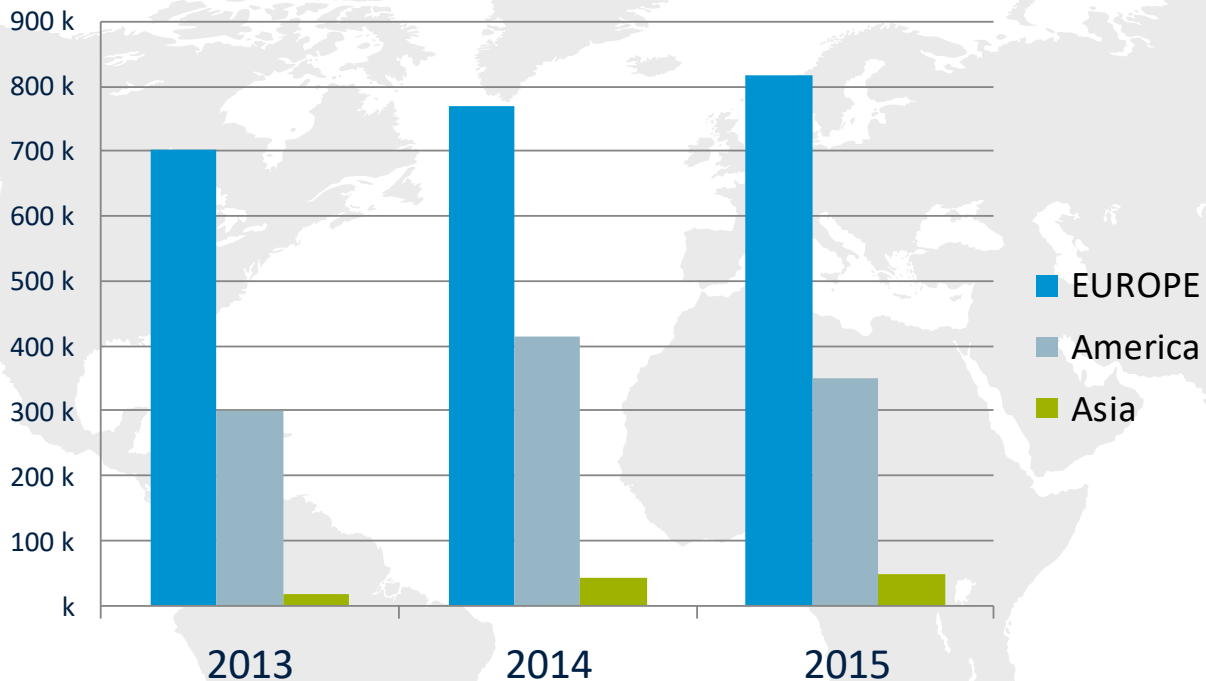
ANNUAL SALES IN TONS OF CRONIMET HOLDING GMBH





# Facts & Figures

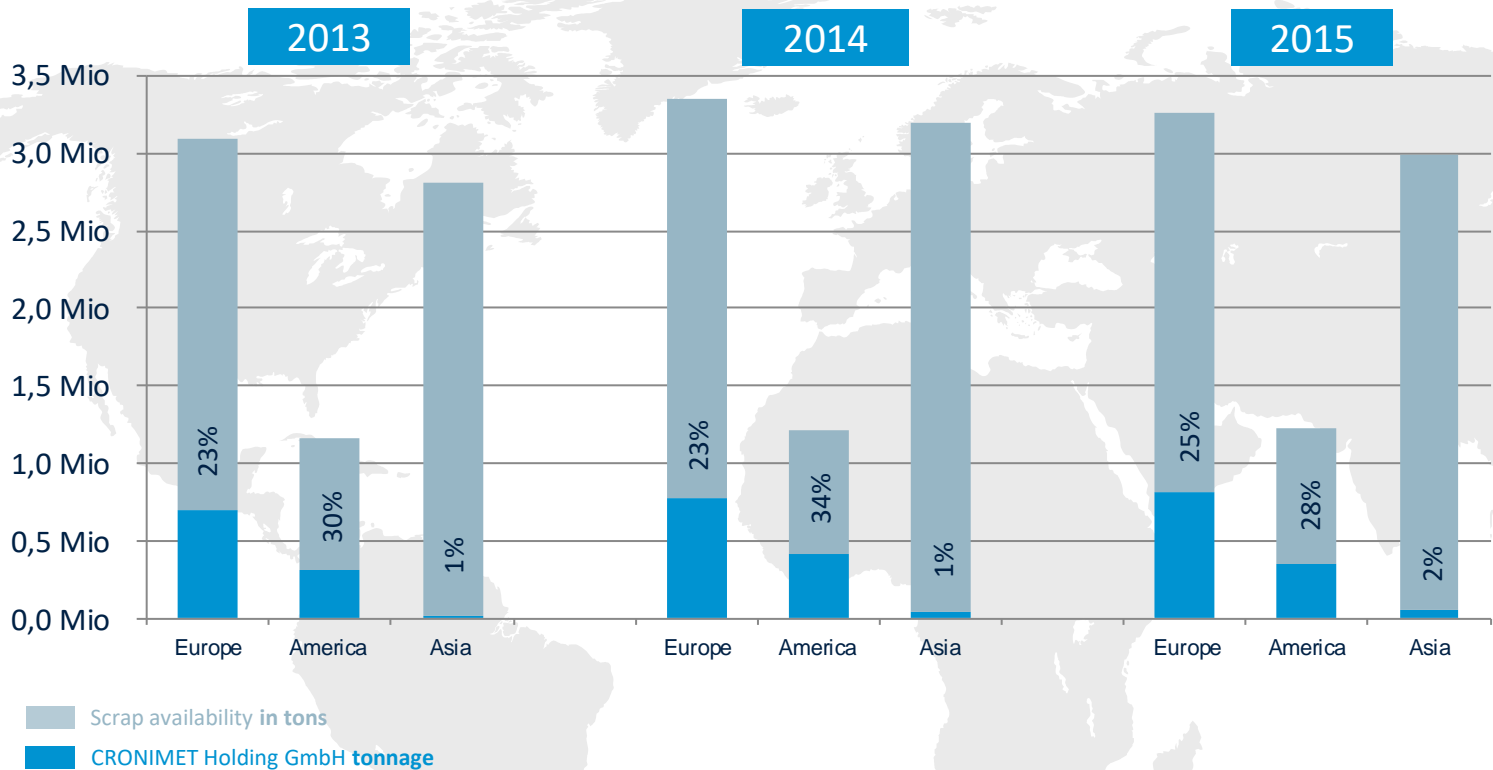
SCRAP HANDLING OF CRONIMET HOLDING GMBH PER YEAR IN TONS





# Facts & Figures

## SCRAP AVAILABILITY / MARKET SHARE

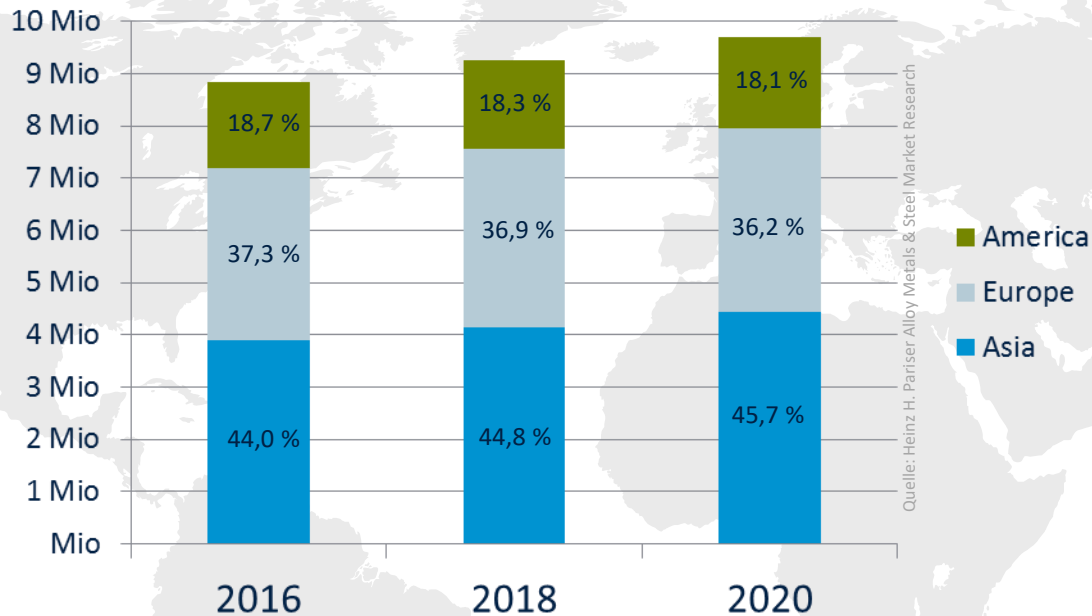


Source: Heinz H. Pariser Alloy Metals & Steel Market Research



# Facts & Figures

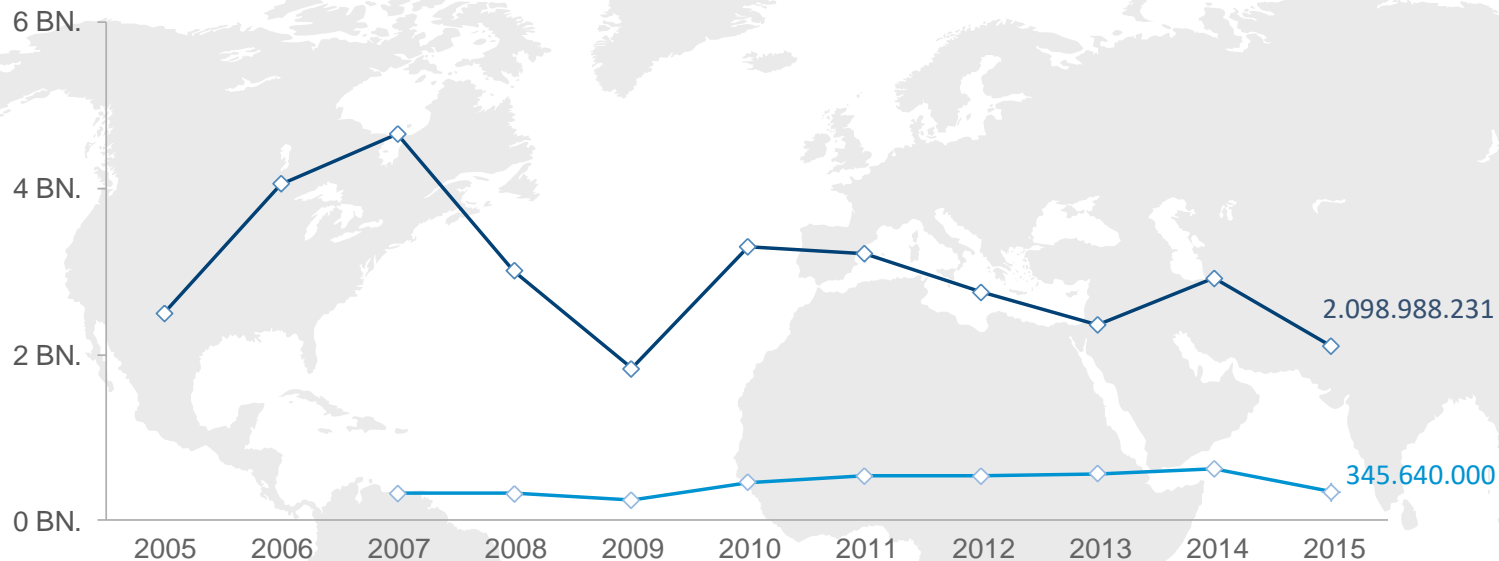
## SCRAP AVAILABILITY / FORECAST





# Facts & Figures

ANNUAL SALES IN USD

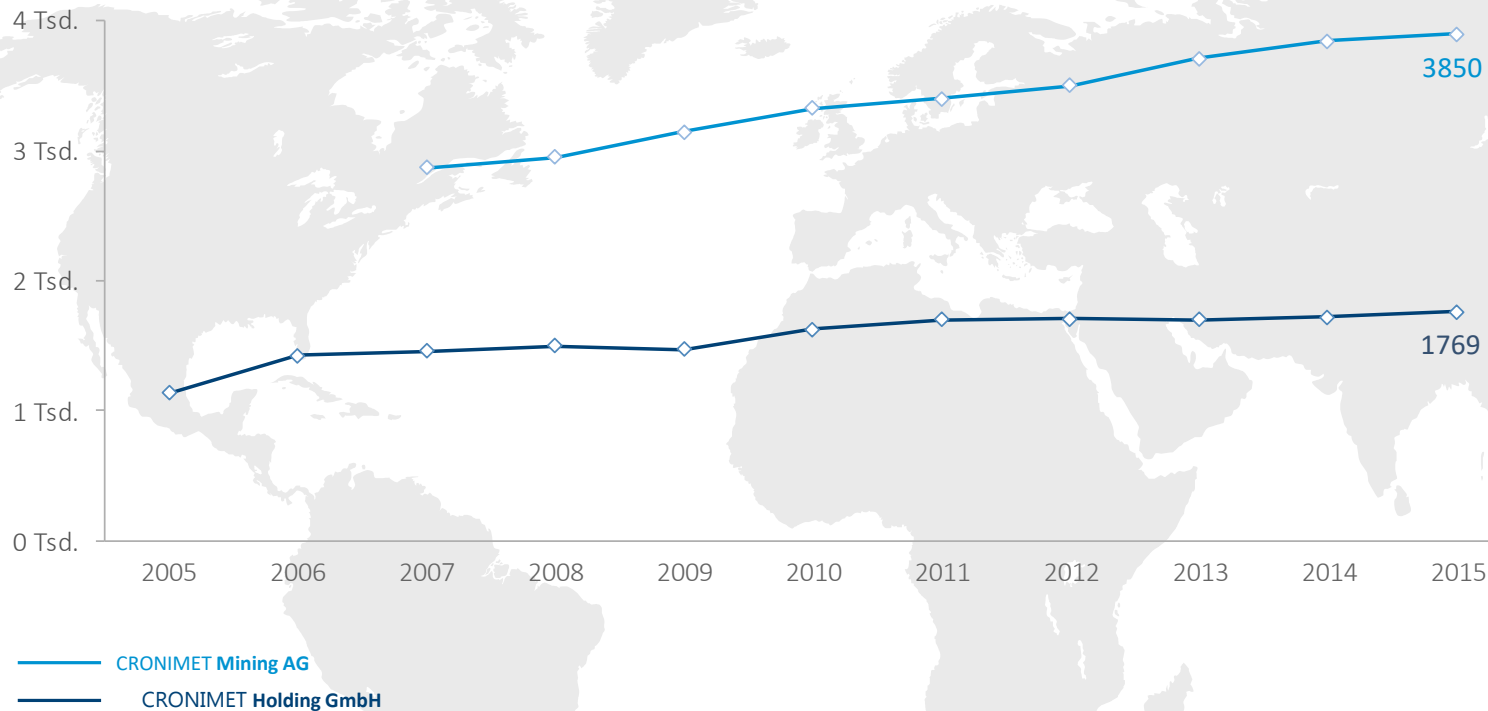


— CRONIMET Mining AG  
— CRONIMET Holding GmbH



# Facts & Figures

## EMPLOYEES





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*SOCIAL RESPONSIBILITY*



„I am convinced that nowadays the only lasting competitive advantage are our staff – their creativity, passion and power of judgement.“

**Jürgen Pilarsky** – Managing Director and shareholder of CRONIMET Holding GmbH



# CRONIMET HOLDING *Business Units*

## Recycling

Stainless Steel  
Super- & Special Alloys  
High Speed- & Tool Steel  
Titanium  
Carbides  
Engine Destruction  
Processing Industrial Sludges

## Production

Ferro-Molybdenum  
Molybdenum-Metal  
Ferro-Titanium  
Metal Powder for  
Powder Metallurgy



## Trade & Sales

Trade  
with Primary- & Secondary Raw Material

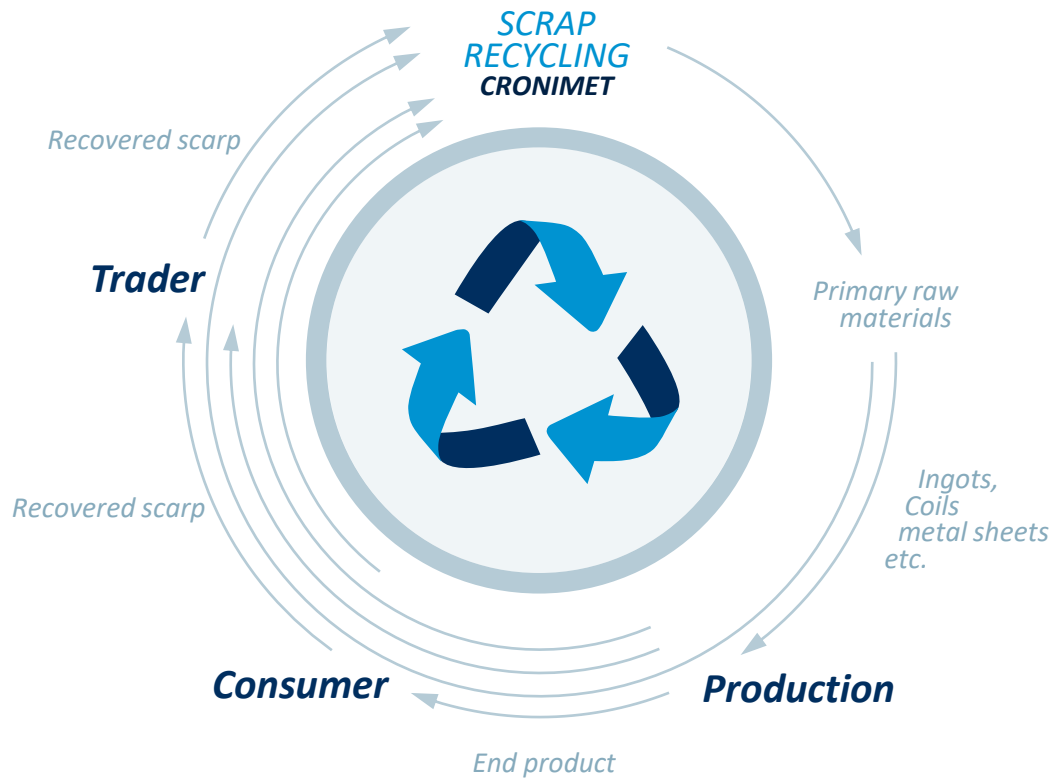
## Services

Analytics  
Documentated Mutilation of Serialized  
Aircraft Components  
Wage Labour  
Pressing, Crushing, Briquetting  
Integrated Steel Mill-Services  
Storage- & Transport Logistics



# CRONIMET GROUP **Recycling**

OUR RECYCLING-CYCLE





# CRONIMET HOLDING Recycling

## MATERIALSPECTRUM

### STAINLESS

#### Stainless Steel Scrap

Cr/Ni/Mo Solids and Turnings  
Cr/Ni/Mo Remelted Ingots  
Cr/Ni/Mo Runnings  
Cu containing Cr/Ni/Mo qualities  
Other Cr/Ni/Mo qualities

### HSS / CrMoV

#### HSS

DMo5 / M2 / 1.3343 Solids and Turnings  
EMo5Co5 / M35 / 1.3243 Solids and Turnings  
M42 / 1.3247 Solids and Turnings  
B18 / T1 / 1.3355 Solids  
Other Cr/Mo/W/V/Co qualities

#### CrMoV

H11 / 1.2343 Solids and Turnings  
H13 / 1.2344 Solids and Turnings  
H10 / 1.2365 Solids and Turnings  
1.2367 Solids and Turnings  
D2 / 1.2379 Solids and Turnings  
Other Cr/Mo/V qualities

### TUNGSTEN CARBIDE

#### Tungsten Carbide Scrap (WC)

Inserts  
Drills, saws and cutters  
Wire dies / Die tools  
Mining tools ( e.g. Mining bits)  
Soft Scrap / Powders

#### Tungsten Alloys

Densalloy  
Heavymet  
Mallory  
Anviloy



# CRONIMET HOLDING Recycling

## MATERIALSPECTRUM

### TITANIUM

#### Titanium CP

Refinery grade (Basis 98% Ti)  
Turnings (Basis 98% Ti)  
CP (vacuum grade) light  
CP (vacuum grade) heavy

#### Alloyed Titanium

Refinery grade (Basis 88% Ti)  
90/60/4 (Grade 5) Feedstock  
90/60/4 (Grade 5) Bulk Weldable  
6/7 Feedstock  
Turnings (Basis 88% Ti)

#### FeTi

### SUPER & SPECIAL ALLOYS

#### Ni based Alloys

Alloy 718  
Alloy 625  
Alloy 617  
Alloy 713  
Alloy C4  
Alloy C276  
Alloy C263  
Alloy X  
Waspalloy  
Rene 41

#### Co based Alloys

Alloy 25  
Alloy 188  
Alloy F75

#### NiCo Alloys

Maraging  
Kovar  
NiCo refinery scrap

#### CuNi Alloys

Monel  
German Silver  
NiCu refinery scrap  
Other NiCu scrap

### NEW METALS & PURE METAL SCRAP

#### New Metals & Pure Metal Scrap

Nickel  
Chromium  
Molybdenum  
Titanium  
Tungsten  
Niobium  
Tantalum  
Zirconium  
Cobalt  
Rhenium  
Vanadium  
Manganese

### FERRO ALLOYS

#### Ferro Alloys

Ferronickel  
Ferrosilicon  
Ferromolybdenum  
Ferrotitanium  
Ferrotungsten  
Ferrovanadium  
Ferrosilicon  
Ferrosilicon



# CRONIMET HOLDING **Recycling**

CRONIMET ENVIROTEC GMBH / RECOVERY OF RESOURCES FROM WASTE SLUDGES



## **100% TECHNOLOGY**

*The only plant in Germany,  
own patented technology*



## **20.000 t CAPACITY**



## **APPLICATION**

*Treatment of sludge  
from the Metal- & Oil Industry*



## **21 EMPLOYEES**

*Continuous production in Bitterfeld  
Offices in Bitterfeld and Leipzig*



# CRONIMET HOLDING Trade & Sales



**System Provider**  
*of Primary- & Secondary Raw Material*



**Comprehensive** *Material Know-How*



**High Quality** *Awareness*



**Decade-Long**  
*Experience*



**Global** *Network*



**Reliable** *Partner*



*Certified Waste  
Management Company  
according §§ 56 & 57  
KrWG*



# CRONIMET HOLDING Services



**ANALYTICS**



**DOCUMENTATED MUTILATION**  
*of serialized aircraft components*



**WAGE LABOUR**  
*Pressing | Crushing | Briquetting*

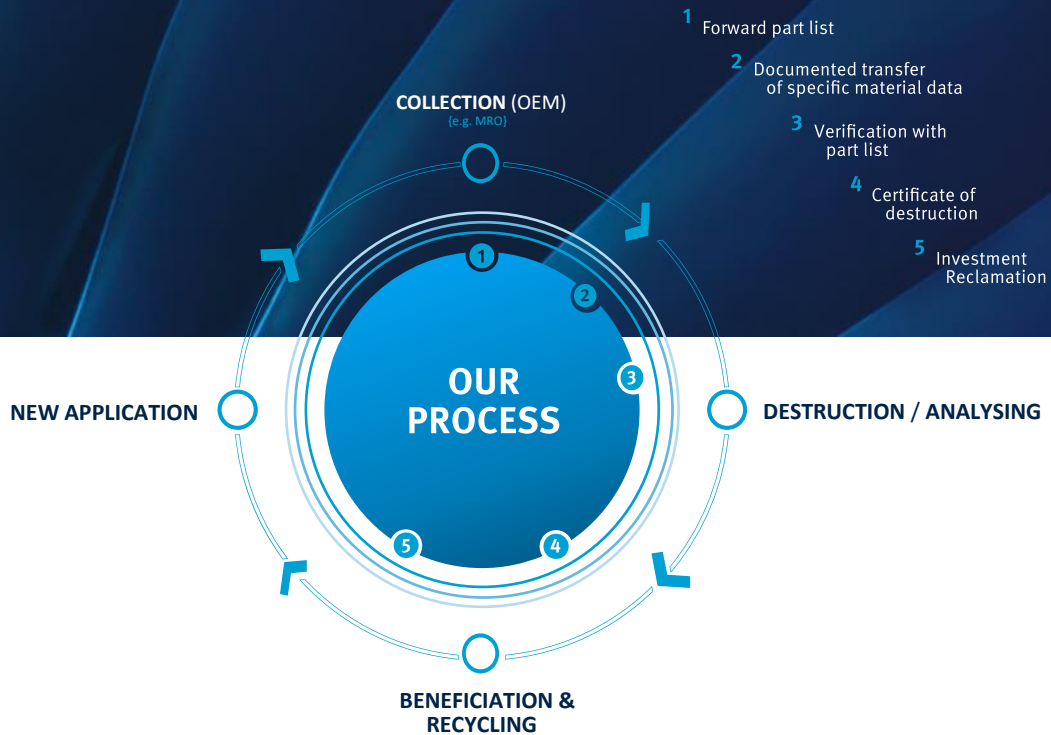


**STORAGE & TRANSPORT LOGISTICS**



# CRONIMET HOLDING Services

## DOCUMENTATED MUTILATION OF SERIALIZED AIRCRAFT COMPONENTS





# **CRONIMET HOLDING** **Production**

PLANT OF PURE IRON AG, ARMENIA



## **STARTING PRODUCT**

*Molybdenum Concentrate*



## **PRODUCTION / YEAR**

*5500-7500 t Ferro-Molybdenum*



## **METALLURGICAL PROCESSING**

- 1. Roasting of Molybdenum-Concentrate in a multiple hearth furnace*
- 2. Silico-Aluminothermic production process into Ferro-Molybdenum*



## **EMPLOYEES**

*570*



# **CRONIMET HOLDING** **Production**

CF Ferroleg. GmbH



## **PRODUCT**

*Ferro-Titanium*



## **CAPACITY**

*2500 tons / annual*



## **REMELT OF SCRAP**

*in an induction furnace into ferro-titanium*



## **SUPPLIER**

*for the stainless steel industry*



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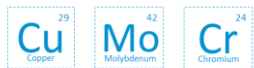
*SOCIAL RESPONSIBILITY*



# CRONIMET MINING GRUPPE

## BUSINESS UNITS

Prospection, Exploration & Sourcing  
 Development  
 Operations



MINING

Metal Recovery  
 Ferro Alloy Slag Recycling  
 Steel Slag Recycling



PROCESSING

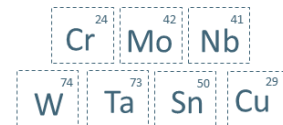


BUSINESS UNITS

Integrated & Innovative Power Solutions  
 Energy Efficiency  
 Renewable Energy



ENERGY



Quality & Traceability

Trading  
 Services



TRADING

metals are our passion



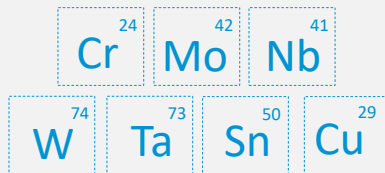
# CRONIMET MINING GROUP *Product Portfolio*

## PRIMARY RAW MATERIALS



TRADING

### PURE METALS & DERIVATIVES



- ❖ *Molybdenum metal*
- ❖ *Copper concentrate*
- ❖ *Chromium concentrate*

### FERRO - ALLOYS

- ❖ *Ferro - chromium*
- ❖ *Ferro - molybdenum*
- ❖ *Ferro - niobium*
- ❖ *Ferro - tungsten*
- ❖ *Ferro - nickel*

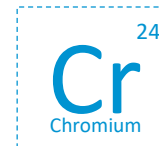
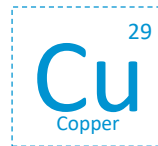
- ❖ *Ferro - molybdenum*



PROCESSING



MINING





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***„The CRONIMET corporate values  
are the basis of our everyday business.“***

**Oliver Kleinhempel - Management CRONIMET Holding GmbH**



# CRONIMET Responsibility

## SUSTAINABILITY OF THE CRONIMET GROUP



### SOCIAL Responsibility

- ❖ Pilarsky Foundation [www.Pilarsky-stiftung.com](http://www.Pilarsky-stiftung.com)
- ❖ Charity Foundation Armenia [www.cronimet-mining.am/en/cronimet-charity-foundation/cronimet-charity-foundation-mission](http://www.cronimet-mining.am/en/cronimet-charity-foundation/cronimet-charity-foundation-mission)
- ❖ Projects for Refugee Support
- ❖ Recycling Project South Africa



### ECONOMICAL Responsibility

- ❖ Code of Conduct
- ❖ Compliance
- ❖ Risk Management



### ECOLOGICAL Responsibility

- ❖ Business field "Recycling" = Sustainability pure. Return from waste into the economy
- ❖ Group-wide certified quality management system according to DIN EN ISO 9001 and partially environmental management system according to DIN EN ISO 14001
- ❖ All German subsidiaries with warehouse operation are certified "Waste Management Facilities" according to regulation EfBV as well as official waste disposal companies according to Federal Immission Control Act and Law of Life Cycle Management.
- ❖ Europe-wide some CRONIMET subsidiaries are approved for deliveries according to regulation (EU) no. 333/2011 end of waste for iron and steel scrap
- ❖ Regular monitoring of energy consumption and resources





# Corporate Values of the CRONIMET GROUP

**1. WE THINK & ACT  
ENTREPRENEURALLY**

**2. WE CONTINUOUSLY EVOLVE AS A  
LEARNING COMPANY**

**3. WE TREAT OTHERS THE WAY WE WANT TO  
BE TREATED OURSELVES**

**4. WE ARE THE MOST IMPORTANT CONTACT  
FOR OUR BUSINESS PARTNERS**

**5. WE ARE AWARE OF OUR SOCIAL & ECOLOGICAL  
RESPONSIBILITY FOR THE COMMUNITY**





# Imprint

All information is valid as of  
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***Thank you very much***  
*for your attention!*

***Dziękuję***  
*za uwagę!*