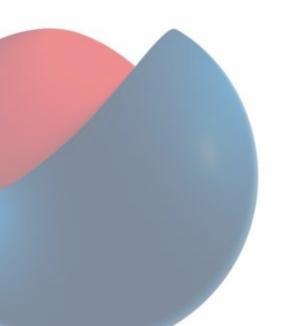


#### **Evolution of Tenova in China**



Guido Molteni Tenova Metals

April 2014



# **Techint Group**

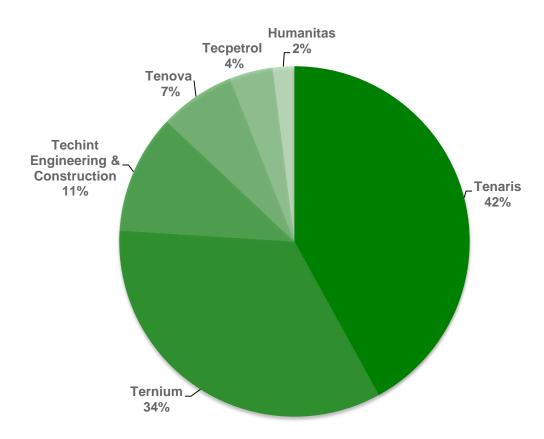
2013

## **Techint Group Revenues**



3

Aggregate sales of the main six companies: over USD 26 billion



Techint Group Presentation

#### Who we are



Tenova is a worldwide supplier of advanced technologies, products, and services for the **Metals** and **Mining & Minerals** industries providing innovative, integrated solutions for complete process areas.





#### Tenova embraces the heritage of distinguished brands:

- CORE
- GOODFELLOW
- ENVITA
- HYL
- HYPERTHERM
- 12S
- ITALIMPIANTI
- KEY TECHNOLOGIES

- LOI THERMOPROCESS
- MALHER, SCHMETZ, BMI, IVA, HUISEN
- MULTIFORM
- RE ENERGY
- POMINI
- TIMEC
- TECHNOMETAL

- BATEMAN
- DELKOR
- ITALIMPIANTI
- PYROMET
- TAKRAF
- TIMEC

## Tenova Group





### **Tenova Metals – offering**



#### **Steelmaking**

- DRI plant
- EAF
- Consteel®
- Secondary metallurgy

# Industrial Furnaces

- Reheating furnace
- Heat treatment furnace

# Rolling and Finishing

- Cold rolling mill
- Z-Hi mills
- Silicon line
- Tinning line
- Galvanizing line
- Pickling line and ARP

#### **Roll Shop**

- Roll Grinding machine
- Roll Shops ancillaries

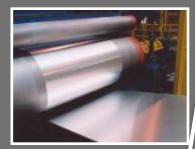














## **Tenova Mining & Minerals – offering**



#### **Engineering, EPCM and Project Services**

#### Coal

- Iron Ore
- Copper
- Nickel
- Zinc
- Cobalt
- PGMs
- Aluminium
- Gold
- Ferroalloys
- Tar Sands

#### Mining and Bulk Materials Handling

- Open pit mining
- Underground solutions
- Heavy material handling
- Overland conveyor
- Yard equipment
- Port equipment

#### **Mineral Processing**

- Milling/Screening
- Flotation
- Filtration
- Thickening and clarification
- DMS plant

# Metallurgical Processing

- Solvent Extraction
- Electrorefining and electrowinning
- Acid Plant
- Smelting and refining













## The steps of Tenova in China



#### The 1980s

First commercial exploration for projects for the steel industry

#### The 1990s

Beijing Representative office, Tenova as exporter of equipment and technology to China

#### The years 2000

- Establishment in 2003 of the WFOE, Tenova Industrial Technologies (Beijing) Co. Ltd.
  Manufacturing in China and exporting worldwide.
- The new factory in Tanggu, Tianjin: TiMEC, 2005. The combination of European technology with the Chinese industrial structure
- Acquisition of LOI Thermoprocess, LOI Tianjin, 2006 specialized in Thermal processing
- Set up in 2010 of the WFOE, Takraf China, specialized in Mining and Minerals

## The 1990s



- Advanced Technologies, completely unknown before, enters the Chinese market
- Important contracts are acquired against the most qualified western competitors

# Elecrtic Arc Furnaces and Consteel®





Reheating furnaces

#### Pomini Roll grinders





Strip processing lines



Challenge: the portion of equipment that Chinese companies is willing to import reduces constantly

TENOVA evaluates the possibility to manufacture the equipment in China

#### and decides to

- establish a WFOE in Beijing
- make business in China as a Chinese Company
- begin with the "shopping around"



- Supply of a melting unit to Wheeling Pittsburg, USA
- Supply of a melting unit to Tianjin Pipe Corporation, first contract in RMB





#### Challenge:

- problems for quality and delivery time
- corrections and modifications

#### What to do:

- find the right Chinese partner
- select qualified workshops
- specialize each workshop to specific works
- training of each workshop
- continuous supervision during manufacturing



create a reliable workshops network with strong commitment in quality and delivery time



#### Challenge:

Increasing competition requires the increase of range of products and activities originated from China, improve of quality and production flow

- From the network of worksops to the vision of the factory
- 11,000 sqm, 4000 ton per year capacity, 10 milion euro investiment



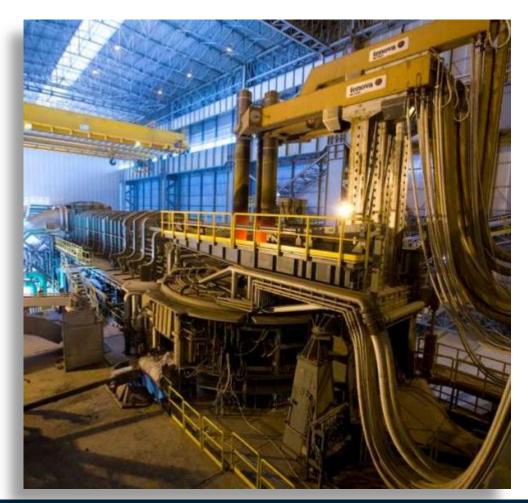


#### Develop competence in Tenova China:

- Engineering
- Project management
- Procurement
- Technological Services and
- After sales
- Supporting product development for Chinese market

Jangsu Feida Electric
Arc Furnaces and
Consteel®
The biggest in China

Project execution by Tenova China



## Today





## Future goals



New scenario: less green field new installations, more focus on modernization and technical services, customers more selective on technologies to be imported.

Our portfolio of Solutions has been tuned-up to face the new challenges since a while:

- Energy recovery and pollution reduction technologies
- Lower Energy consumption equipment
- Flexible production system
- Technological services to improve processes and final product quality
- New products to fit Chinese market

Chinese management and local resources to be empowered for faster feedback time, using the customer language.

# Thank you

