EXPLORATION AND EXPLOITATION OF MINERAL RESOURCES IN PORTUGAL

GEOLOGICAL AND MINING CHARACTERISTICS

PRECIOUS METALS

BASE METALS

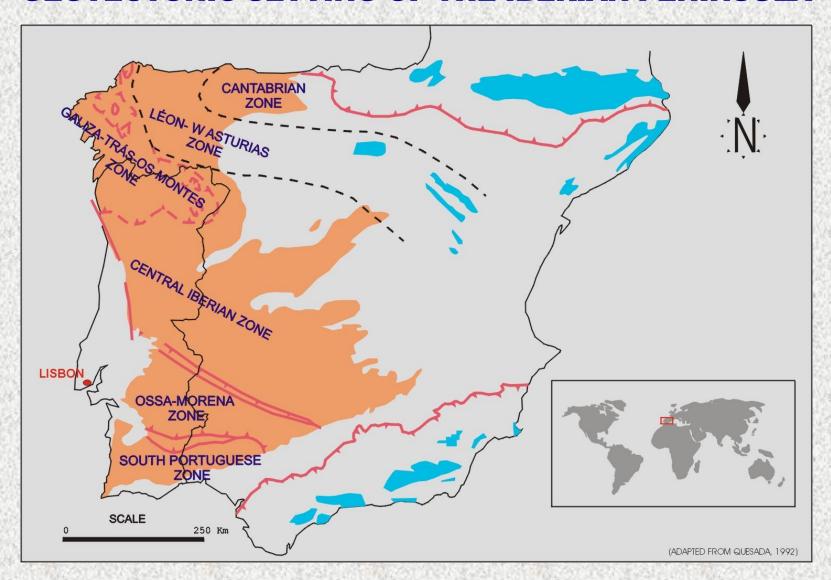
OTHER METALS

NON METALLIC MINERALS

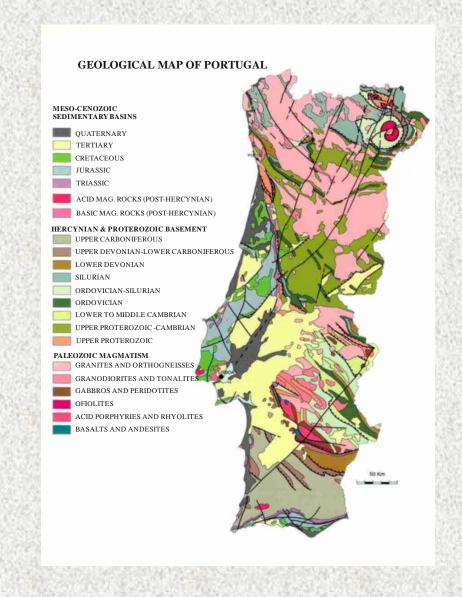
PRODUCTION AND INVESTMENT DATA

LUÍS MARTINS

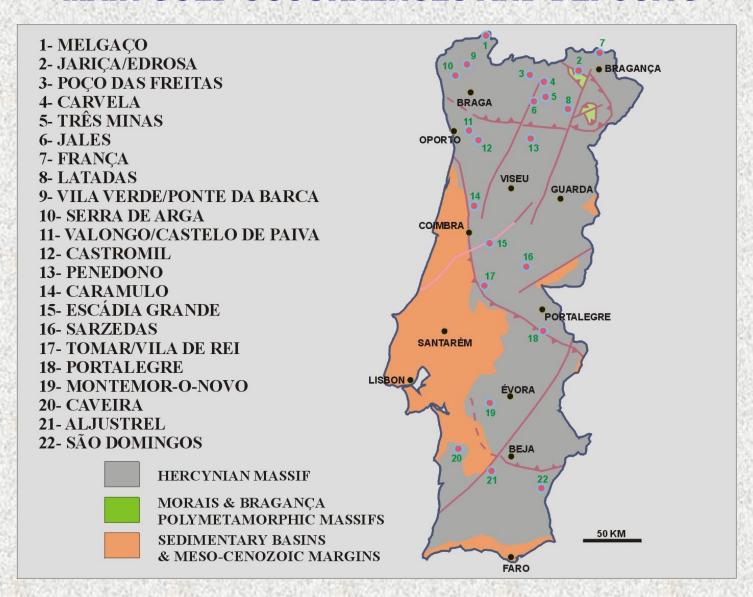
GEOTECTONIC SETTING OF THE IBERIAN PENINSULA



GEOLOGY OF PORTUGAL



MAIN GOLD OCCURRENCES AND DEPOSITS



THE MONTEMOR GOLD DEPOSIT

PEA & NI 43-101 Compliant Mineral Resource

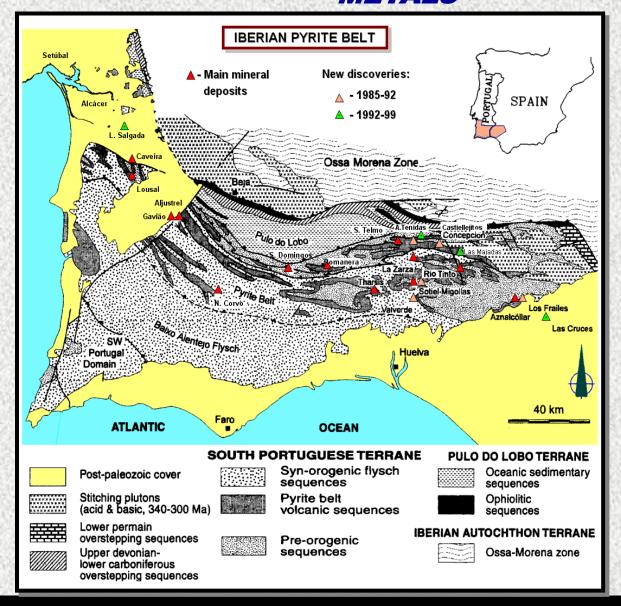
- PEA completed in May 2013 4 processing options each of which delivered positive NPV5% and IRR results using conservative capital and operating cost estimates.
- Colt's NI 43-101 compliant resource estimate for six deposits within the Boa Fé and Montemor area has reported Indicated Resources of 340,310 oz and Inferred Resources of 84,200 oz.

Readily Recoverable Gold Initial metallurgical test work has demonstrated that gold is readily recoverable using a combination of conventional methods (gravity, flotation and cyanide technologies)

Significant Resource Expansion Potential Focussed on delivering initial gold revenue by 2015 from a sub section of a potentially world class gold mining district.

- Historical mainly shallow drilling and trenching mostly focused on 10Km strike length (Boa Fé belt) out of an estimated total extent of over 30km containing several parallel gold mineralized zones.
- Montemor Shear Zone hosts several shear corridors favorable for gold mineralization.

THE IBERIAN PYRITE BELT: A FANTASTIC SOURCE OF BASE METALS



(ad. Barriga et al. 1997, Carvalho et al. & Leistel et al. 1998, Matos el al. 2000)

TABLE I

	Portugal		Spain	
period	N° deposits	M. tons	N° deposits	M. tons
1950/60	2	60	1	>50
1960/70	4	150	3	>60
1970/80	4	>300	6	150
1980/90	0	0	7	300
1990/98	1	10 (?)	1	>40 (?)
total	11	>520	19	>600

VMS DISCOVERIES
IN THE IPB (1950 - 1998)

EXPLORATION PERFORMANCE IN THE IPB

IN: CARVALHO, D. (1998). EXPLORATION STRATEGIES IN THE IBERIAN PYRITE BELT: A YOUNG, MATURE, OR SENILE MINERAL EXPLORATION PROVINCE? WORLD MINING CONGRESS, LISBON MEETING (IOC).

TABLE II

1950 - 1998					
VMS	M. tONS				
30	>1120				

AVERAGE: 1.2 VMS/2 YEARS

NEVES CORVO: A WORLD CLASS DEPOSIT

To date, copper proven and probable mineral reserves at Neves-Corvo, are approximately 27 million tonnes at 2.9% Cu.

Zinc proven and probable mineral reserves at Neves-Corvo are 23.3 million tonnes at 7.4% Zn.

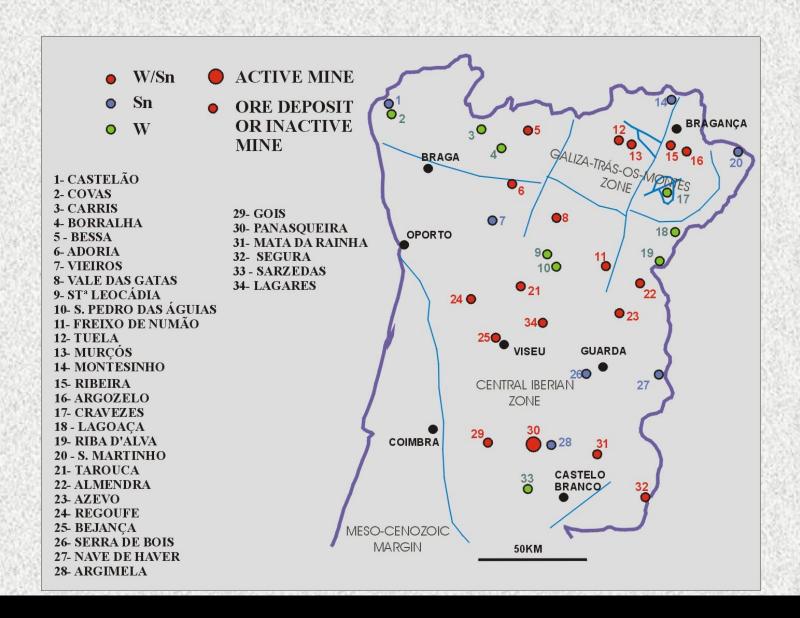
Neves-Corvo has economic evaluation extending at least to 2030.

NEVES CORVO: A WORLD CLASS DEPOSIT

Lundin Mining announced in October 2010 the discovery of a new copper-rich massive sulphide deposit, the Semblana deposit, 1.5 km to the east of the Neves Corvo mining concession.

To date, copper inferred resources at Semblana are approximately 7.8 million tones at 2.9% Cu.

GEOTECTONIC UNITS AND MAIN W/Sn DEPOSITS AND MINES



Panasqueira mine remains in operation. Here, in the beginning of 2009 a total of 9,355,750 tonnes of reserves, with 2,159,526 MTU WO3 and a cut off of 14 kg/m2 were defined.

The mineralised zone consists of series of sub-horizontal quartz veins, which overlap and fill the joints of fractures occurring in schist rock. These veins vary in thickness from 1 to 150 centimetres, the average thickness of the veins currently being mined around the 30-40 cm mark.

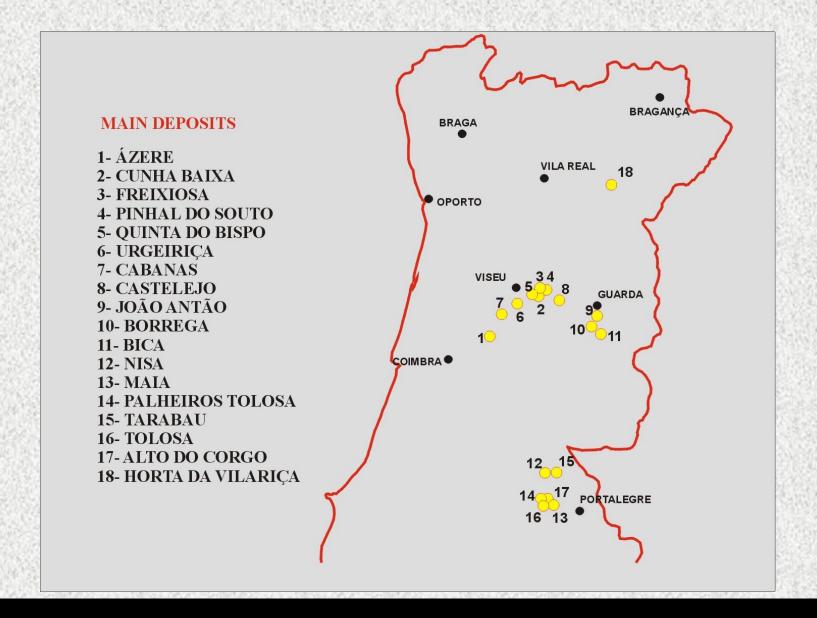
THE TABUAÇO TUNGSTEN DEPOSIT

Classification	Tonnage Kt	Grade WO ₃ %	Contained Metal	Contained Metal	Contained Metal MTU
Indicated Mineral Resources	1,495	0.55	8,150	18,000,000	815,000
Inferred Mineral Resources	1,230	0.59	7,200	16,000,000	720,000

- ■Tabuaço NI-43-101 prepared by SRK (UK) and SRK(Exploration Services) with inputs from SRK (US)¹;
- ■Classification of the Mineral Resource is based on quality control data, geological continuity and borehole spacing. The estimate is considered to have reasonable prospects for eventual economic extraction, as it is constrained by a cut-off grade derived from reasonable underground mining and processing costs;
- ■A cut off grade of 0.3% WO₃ has been used to constrain the Mineral Resource estimate;
- ■This cut-off grade is based on a WO₃ price of US\$300/mtu², an underground mining cost of US\$30/t and a processing cost of US\$22/t, as supplied by SRK Denver, and agreed by Colt Resources;
- The deposit remains open in all directions.

Tuela is the most important tin deposit, with vast stockwork zones with a high density of mineralised veins and remobilisation along strike-slip faults running subparallel to the regional structural alignment. For this deposit, 464,057 tones of measured and indicated resources were recently calculated for "Open Pit W", with 974.86 tonnes of tin, with a grade of 2.10 kg/ton.

LOCATION OF THE MAIN URANIUM DEPOSITS



Today no mines are working, but recently several international companies showed interest in the Portuguese potential, specially in the Nisa deposit, where 2.5 Mt with 0.11% U308 (cut off of 0.05%) of geological resources are estimated.

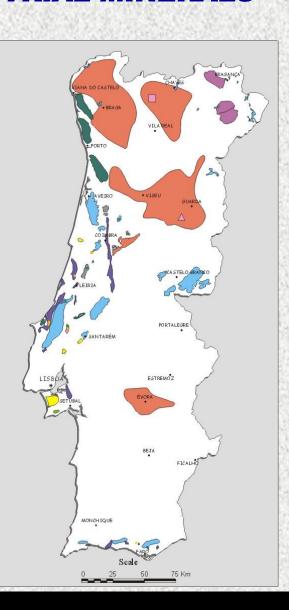
THE MONCORVO IRON DEPOSIT

The Moncorvo deposit, composed of 5 ore bodies, is the most important iron deposit. Laboratorial tests showed that it's possible to obtain concentrates with grades between 64% and 68% in Fe and 0.15% and 0.25% of P. Through metallurgical methods we can reach to iron concentrates with less of 0.10 % P. The proven and probable reserves of the Moncorvo deposit, with a total of 550 Mt of ore, are enough for produce 250 Mt of fine sinterized agglomerates with 60% to 65% Fe.

PRODUCING AREAS OF INDUSTRIAL MINERALS

LEGEND

- Common Clays
- Dolomite
- Gypsum
- **Kaolin**
- Quartz and feldspars
- Rock-Salt
- Special Clays
- Special Sands
- **Talc**
- **△** Lepidolite
- Spodumene
- **Diatomite**



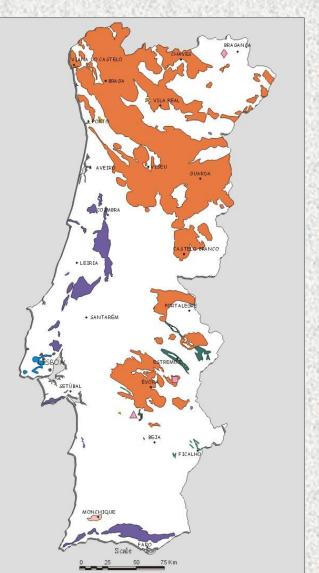
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PRODUCING AREAS OF ORNAMENTAL & INDUSTRIAL STONE

LEGEND

- Acid Porphyry
- **Basalt**
- **Granite**
- Limestone
- Nephelinic Syenite
- **Marble**
- **Microcrystaline Limestone**
- **Schist**
- **Slate**
- **Diorite**
- Gabbro
- **♦** Serpentinite



A NEW GOVERNMENTAL STRATEGY FOR MINERAL RESOURCES

Vision for the Portuguese Mining Sector

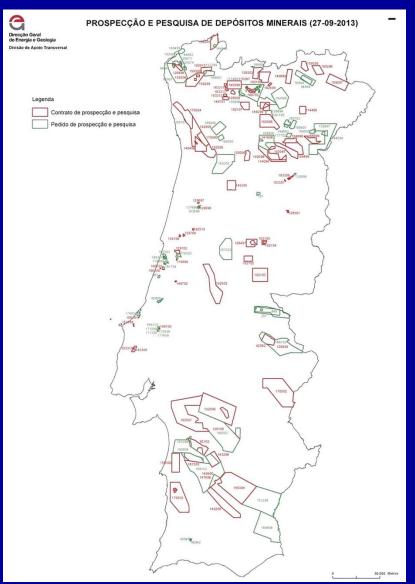
Increasing geological knowledge and valorising mineral potential

Divulgation and promotion of the mineral potential

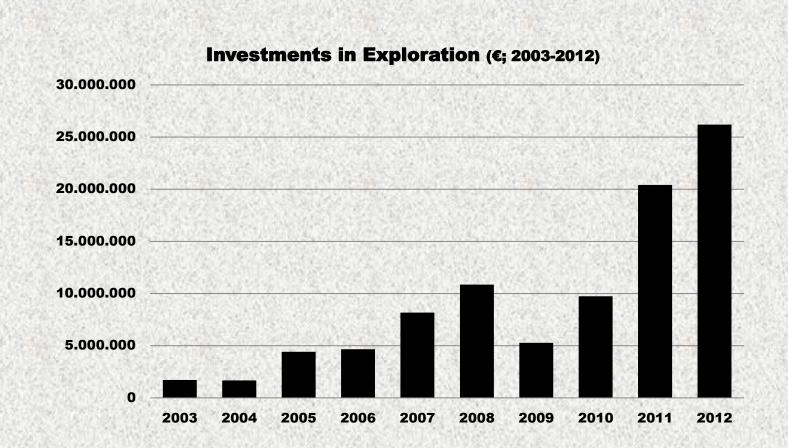
Economical, Social and Environmental Sustainability

Restructuration of the sector bases

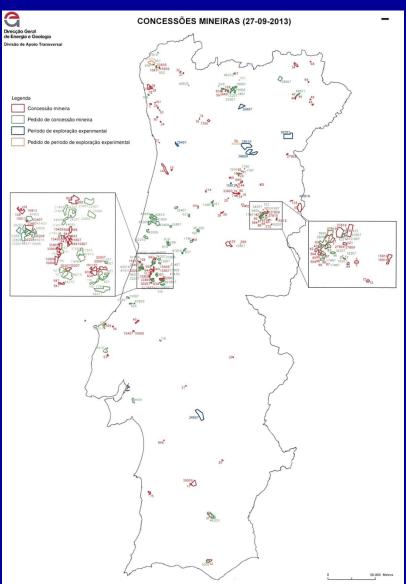
EXPLORATION LICENCES



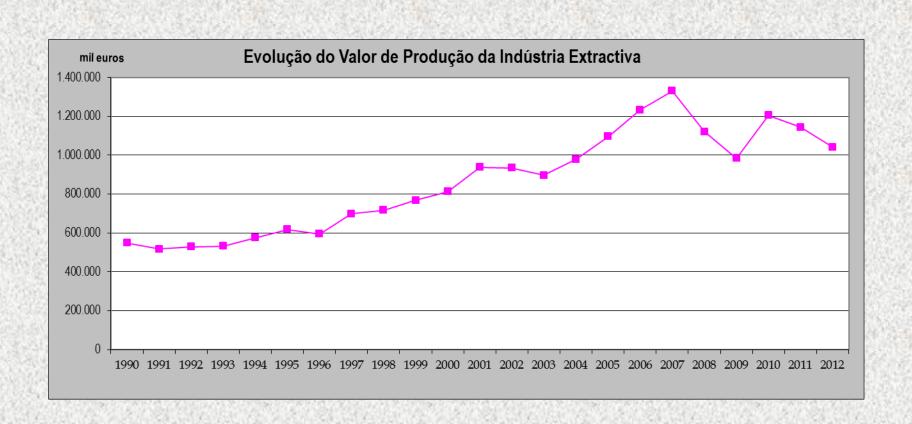
INVESTMENTS ON EXPLORATION



MINING CONCESSIONS

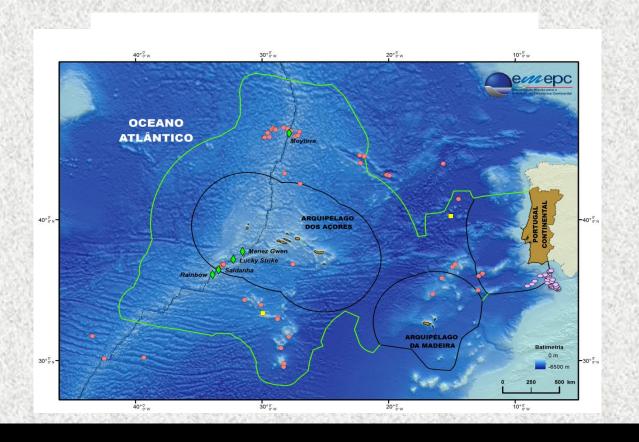


PRODUCTION DATA



PORTUGAL,

Where the land ends and the sea begins... (Luís Vaz de Camões)



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Thanks for coming!