



FRAME

FORECASTING AND ASSESSING EUROPE'S
STRATEGIC RAW MATERIALS NEEDS

WP7 Historic Mine Sites revisited

Deposit Fact Sheet

Preguiça and Vila Ruiva Mines

Authors: João Matos and Zélia Pereira



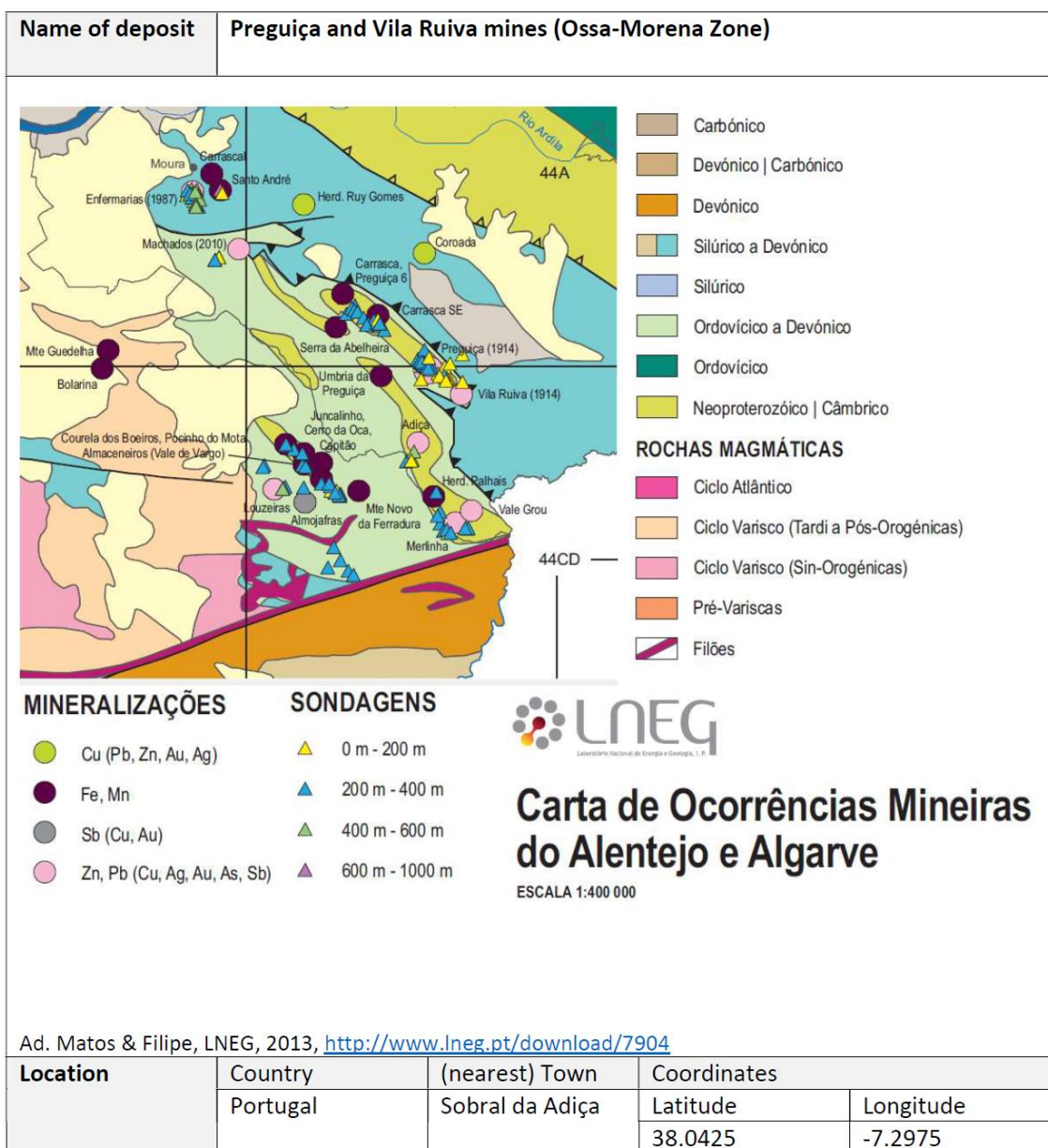
This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731166





FRAME

FORECASTING AND ASSESSING EUROPE'S
STRATEGIC RAW MATERIALS NEEDS



Main Commodity/ies	Cu, Zn	Pb	
By-products			
CRM potential	Ag, Au, V	Ge, Sb, As, Hg	

Type of deposit	Primary ore: massive sulphide and stockwork. Secondary ore: oxides and hydroxides
Mine Status	Abandoned



FRAME

FORECASTING AND ASSESSING EUROPE'S
STRATEGIC RAW MATERIALS NEEDS

Period of activity	Start	End				
	1903	1966				
Production	Annual production	Tonnage	type	Cumulative historic production (period)	Tonnage	Type
				1964-1966	12694	Ore concentrate (42% Zn)
Regional Geology						
Host rock(s)		Age of host rock				
Dolomite and acid volcanic rocks		Lower Cambrian (Ossa-Morena Zone Moura-Ficalho sector)				
Mineralization						
Ore forming minerals		Age of mineralization		Ore grade		
Primary: pyrite, chalcopyrite, sphalerite, galena. Secondary: smithsonite, hidrozoicite, hematite, desclosite		Lower Cambrian and Cenozoic		Vila Ruiva oxides: 20-40% Zn		
Deposit Type		Massive sulphide and stockwork				
						
		Vila Ruiva exploration drill hole: Fe, Zn oxides. LNEG Aljustrel archive.				

Reserves	Reserves (t metal)	Code	Category/ies
Resources	Resources (t metal)	Code	Category/ies
	< 5 Mt (sulphides and oxides)		

Access restrictions	yes	no	unknown
	x		
	Type of restrictions		
	Restrictions in the Preguiça mine galleries		
Ownership	Type of owner	Name	
	Agriculture company		



FRAME

FORECASTING AND ASSESSING EUROPE'S
STRATEGIC RAW MATERIALS NEEDS

References	Literature	Links
	Mateus et al. 2003, 2013 Matos & Rosa, 2001 Oliveira & Matos, 1992	www.lneg.pt

Remarks
Preguiça mine: underground and open pit exploitation Vila Ruiva mine: open pit exploitation ICNF bat protected area located at the Preguiça mine galleries