# Alentejo Regional Comission for Coordination and Development Portugal

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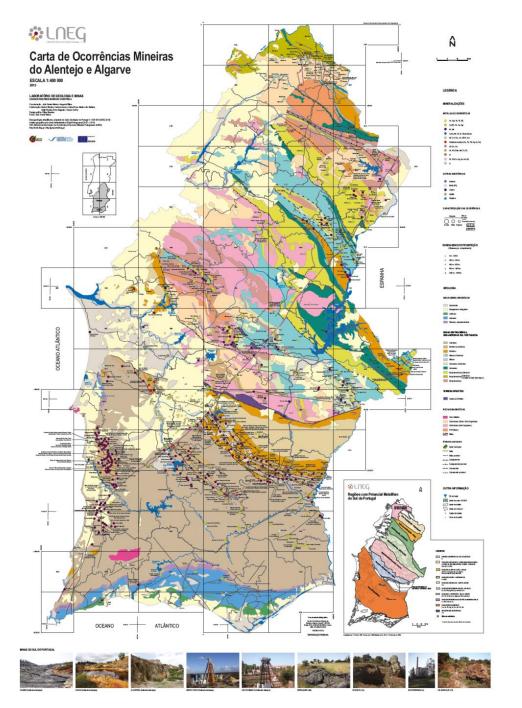


### Alentejo mineral potential

 Alentejo and Algarve mineral occurrences map Atlanterra project, EU Interreg Atlantic Area, Matos and Filipe Eds, LNEG 2013

http://www.lneg.pt/download/7904









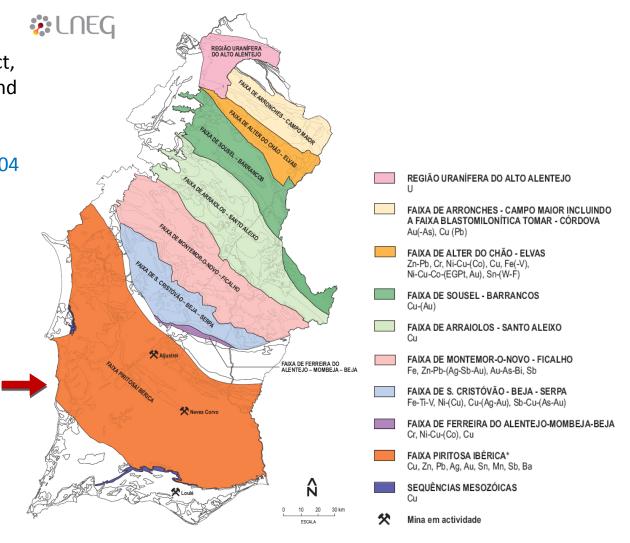
### Alentejo mining regions

**Alentejo and Algarve mineral** occurrences map Atlanterra project, EU Interreg Atlantic Area, Matos and Filipe Eds, LNEG 2013

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**Iberian Pyrite Belt, an European Mine Region Active mining:** 

- Neves Corvo (Somincor/Lundin Mining)
- Aljustrel (Almina)



Adaptado de: V. Oliveira 1986, Tornos et al. 2006, Mateus et al. 2013, T. Oliveira et al. 2013



\* Incluindo áreas com cobertura Flysch e/ou Cenozóico



### **Production**

| Minérios Metálicos, 2014        |                             |                      |
|---------------------------------|-----------------------------|----------------------|
|                                 | Quantidade Produzida<br>Ton | Valor Produção<br>M€ |
| Portugal (Cobre, Zinco, Chumbo) | 473.926                     | 412                  |
| Alentejo (Cobre, Zinco)         | 471.946                     | 390                  |
| (Alentejo/Portugal) (%)         | 99,6                        | 94,7                 |
| Fonte: DGEG                     |                             |                      |

| Minérios Metálicos, 2015        |                             |                      |
|---------------------------------|-----------------------------|----------------------|
|                                 | Quantidade Produzida<br>Ton | Valor Produção<br>M€ |
| Portugal (Cobre, Zinco, Chumbo) | 501.596                     | 407                  |
| Alentejo (Cobre, Zinco)         | 500.366                     | 394                  |
| (Alentejo/Portugal) (%)         | 99,8                        | 96,8                 |
| Fonte: DGEG                     |                             |                      |





# The portuguese national government entities related with geology, mining and exploration:

#### Laboratório Nacional de Energia e Geologia (LNEG)

Geological mapping, geological, geochemistry and geophysical databases, exploration R&D projects

Portuguese Geological Survey since 1848, www.lneg.pt



#### Direção Geral de Energia e Geologia (DGEG)

Mineral exploration and exploitation permit licenses, administrative process, legislation, www.dgeg.pt

#### Empresa de Desenvolvimento Mineiro (EDM)

Mine rehabilitation program, exploration projects, experimental mining (Gavião license), www.edm.pt







### Strategic plans

- Green Growth National Strategy
- National Strategy for Geological Resources

- Regional Action Plan 2020 Alentejo 2020 (research, innovation, internationalization, competitiveness)
- Regional Strategy for Smart Specialization

- Region Plan for Innovation
- Regional Development Plan for the Territory





# Portuguese regional and local government entities with intervention in mining sector

- Regional Comissions for Coordination and Development
- Regional government non elected
- European Funds management
- Territorialization of national policies and strategies
- Planning, Financing, Licensing, Inspecting, Fiscalizing





# Portuguese regional and local government entities with intervention in mining sector

- Intermunicipal Communities
- Sub regional government elected by municipalities
- European Funds management
- Planning and financing
- Strategic and Action Plan 2020
- Integrated Territorial Intervention





# Portuguese regional and local government entities with intervention in mining sector

- Municipalities
- Local government elected
- Planning, Financing, Licensing, Inspecting
- Municipal Master Plan





### **Projects**

- Regional System for Technological Transference
- Science and Technological Network of Alentejo
- Alentejo Science and Technological Park
- Cevalor
- Valorpedra
- Promoting Circular Economy





Miner Deposita (2013) 48:749–766

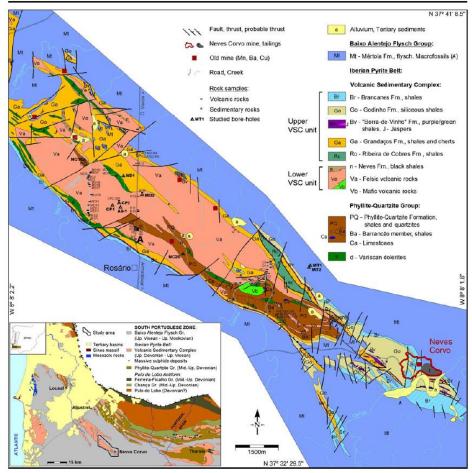


Fig. 1 Geological map of the Neves Corvo antiform at the Rosário area (LNEG for Lundin Mining, 2010). Inset shows the location of the Iberian Pyrite Belt and the study area is outlined in black

LNEG, RTD research in the Alentejo's geological resources:

new CEGMA (QREN INALENTEJO project)
Centro de Estudos Geológicos e Mineiros do Alentejo, Aljustrel
Alentejo Geological and Mining Study Centre, Aljustrel

#### **Current Alentejo2020 projects:**

- EXPLORA Neves Corvo deep exploration geological, geophysical and geochemical research
- ZOM 3D GIS systems applied to the Ossa Morena mining regions

Geological mapping in the Neves Corvo area, ad. Oliveira et al., 2013, future LNEG Almodôvar 1/50 000 Geological map





### Challenges

- Change public perception on mining activities
- Reduction of environmental passive / liability
- Adaptation to the new paradigma of Circular Economy
- Knowledge and protection of mineral resources
- Reduction of context costs
- Environmental responsible and sustainable projects
- Mitigation and adaptation to climate changes
- Clusterization
- Innovation: materials, products, ecodesign,...





### **The Pyrite Route**

### a complementary thematic route focused in the Iberian Pyrite Belt

The Pyrite Route a thematic tourism route promoted by an informal network of partners, focused in the Iberian Pyrite Belt province, shared by Portugal (Alentejo and Algarve) and Spain (Andalucía), (Matos et al. 2008, 2011, Martínez & Gómez 2008, Matos & Pereira 2013). In Portugal the network is promoted in the Roteiro de Minas portal and by LNEG, CCV Lousal, Frederic Velge and Serrão Martins foundations, Aljustrel and Entradas museums and Grândola, Aljustrel, Mértola and Castro Verde municipalities.







