

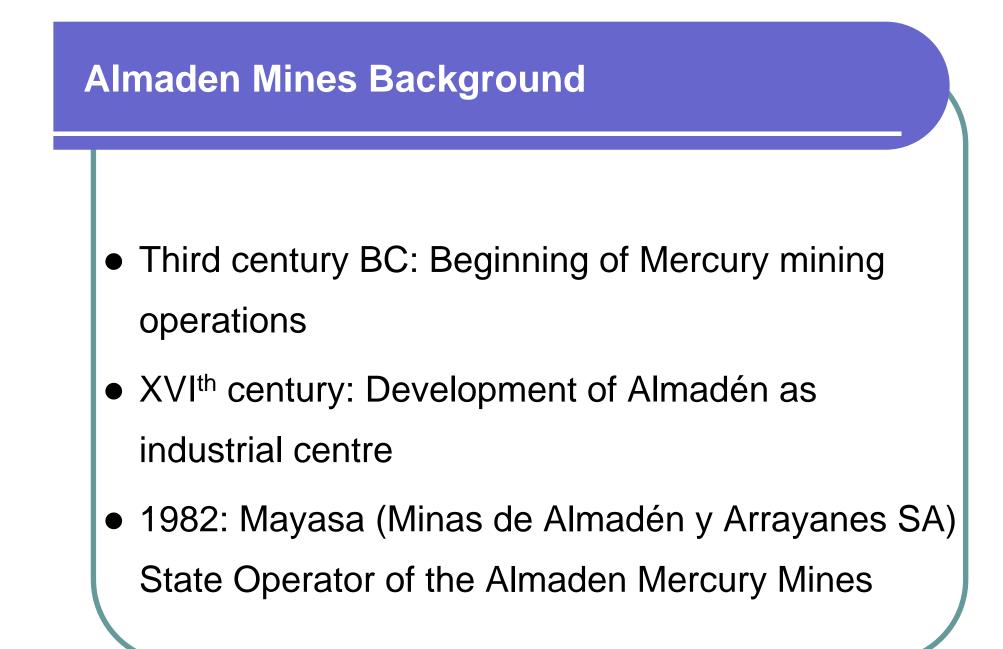
#### SPANISH TECHNOLOGICAL DEVELOPMENTS FOR AN ENVIRONMENTALLY SOUND MANAGEMENT OF MERCURY. BACKGROUND

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Almadén (Ciudad Real), December 2012





#### **Almaden Mines Background**

- 2001: End of mercury mining activities
- 2003: End of metallurgical activities
- 2011: End of commercial activity (Reg. 1102/2008/CE)
- 1. Deepest knowledge on mercury management
- 2. Socio-economic impacts at local and regional levels
- 3. Spanish commitment with the global mercury negotiations



# National Technological Centre for the Mercury Decontamination. (CTNDM)

Initiative Funding



MINISTERIO DE AGRICULTURA, ALIMENTACIÓN Y MEDIO AMBIENTE

Created in 2009 following agreement signed among:

- Spanish Ministry of Agriculture, Food and Environmental Affairs
- Regional Government of Castilla la Mancha
- MAYASA (State operator of the Almadén Mercury Mine)

## National Technological Centre for the Mercury Decontamination. Main Goal

Developing technologies for a comprehensive, safe and environmentally sound management of mercury

## National Technological Centre for the Mercury Decontamination. Objectives

- Promoting research and developments on:
  - Technologies for environmentally sound handling, transport, management and storage of mercury and mercury containing wastes
  - > Technologies for remediation of mercury contaminated sites
- Developing activities with other countries:
  - Experts training and awareness raising
  - Fechnical assistance and technology transfer

### Initial works: MERSADE Project

MERSADE: MErcury SAfe Deposit: 2006-2009

Co-funded by EU Commission through

the EU LIFE+ Program and MAYASA



Developed in collaboration with National Centre of Metallurgical Research (CENIM), integrated in the Spanish National Research Council (CSIC)



#### Activity line: container for temporary storage



**Activity line: stabilization/micro-encapsulation** 

physical and chemical transformation of metallic mercury and mercury containing wastes into a much safer final product



### Activity line: recovery of contaminated sites





### **UNEP Global Mercury Partnership**

#### Supply and Storage Partnership Area

- Goal: Minimization/elimination of Hg supply
- Activities developed:
  - Phase out of primary mercury mining activities
  - Mercury storage projects

 Workshops on mercury management (Brasilia, May 2012, and Almadén, December 2012)

## THANK YOU FOR YOUR ATTENTION



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