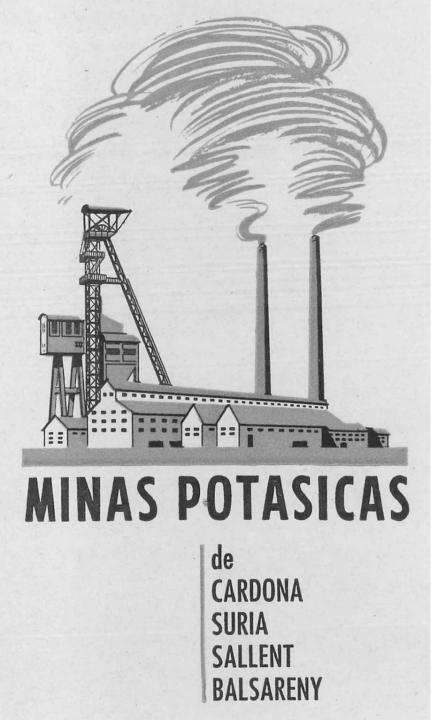


Santiago Gorostiza Langa (CES – Universidade de Coimbra)

GRATS seminar – 10 June 2013



Outline

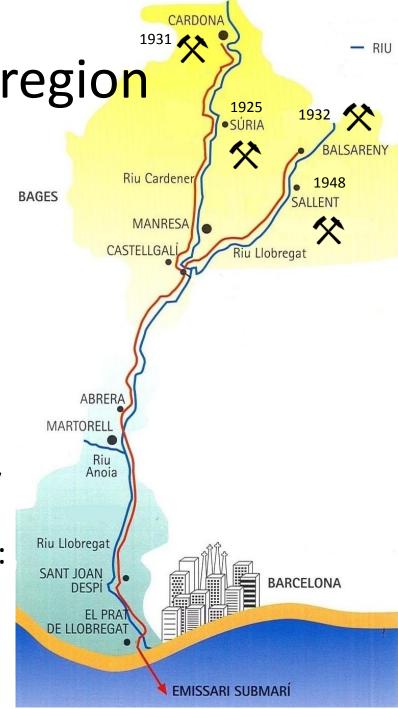
- 1. Why potash?
- 2. The Bages region
- 3. A historical approach
 - 4. Conclusions
 - 5. Further research

1. Why potash?

- Renewed interest in mining in Spain
- Potash used to produce agricultural fertilisers.
 Potassium is a primary nutrient for plants.
- Under addressed in the literatureIndustrial agriculture:Potash production process generates residues: brines and mine tailings in Bages and other regions

2. The Bages region

- Mining since 1925, mostly for export (now 70%)
- Negative impacts: brines and mine tailings. Dissolution of waste salts and introduction in the water flows Remediations:
 - Brine collector (1989) (problems: insufficient, 400 breakages)
 - Reverse osmosis filters (2009) in water treatment stations (energy intense, end-of-pipe)
- Cost (pipeline, desalination, etc.):
 200 M € subsidized (2008-2011)
- Still danger to BCN's water supply





El Cogulló mine tailing. 48 Ha. 50 million tonnes. Biggest accumulation of industrial waste in Catalonia.

3. A historical approach in the Bages case

- **1. Problematizing infrastructures**: the Brine collector (1932-1989). From private initiative to public responsibility.
- 2. Narrative continuity: Public protest and activism on human health (1930s 1990s). Broken by the dictatorship.
- **3. The anthropic origin of salinisation**. 1920-1930s debates about different sources.

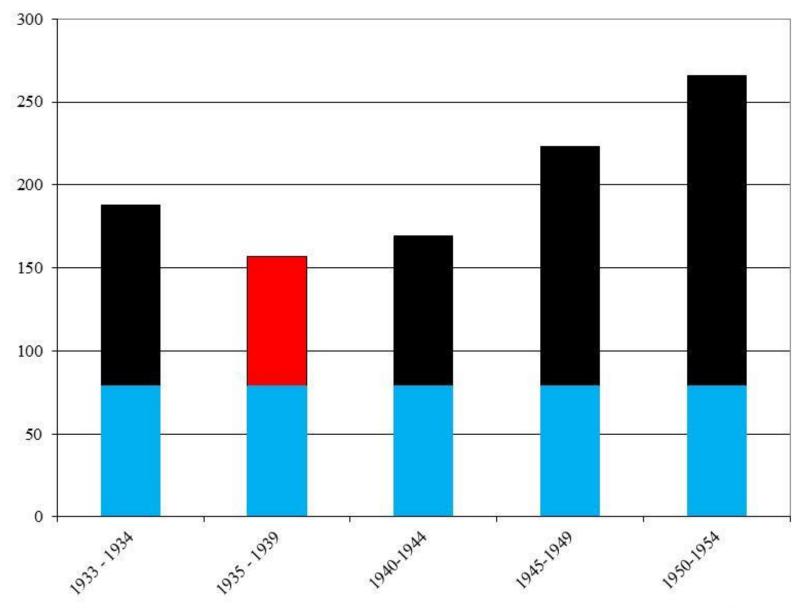


Fig. 1: Chlorine concentrations in SGAB wells (mg Cl- /l).

4. Conclusions

- 1. Externalities as cost-shifting successes
- 2. Water history as history of quality, not only supply!
- War as a disruption to the environment (Environmental Histories of War)

5. Further research

- 1. Potash markets since the 1920s and the evolution of the Spanish importance
- 2. Human health issues: accumulation of residues in landscape... and in bodies?

Thanks for your attention







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