

### Technology's description

The decontamination process is using *Cistus Libanotis* which extracts and reduces the mobility of lead in soils. This plant has the advantage of being a pioneer plant, persistent and exhibiting rapid growth. This natural process, innovative and environmentally friendly is the right solution to overcome the mobility of lead and a few other metals at the vicinity of contaminated sites.

Belonging to Cistaceae family, *Cistus libanotis* exhibits the capacity to extract Lead (Pb and a few other elements) in contaminated soils. In particular, Lead is absorbed via the root system and stored in the plant and leaves. Lead concentrations higher than 1000 mg/kg can be stored in the plants.

On-site implementation is easy with using seeds or plants in areas as wide as required. The plants can be harvested every 3 to 5 years and incinerated to recover the metal(s) in the ash. Subsequent treatments can be applied to obtain pure metals.

### Advantages

- Efficient decontamination of Lead (Pb) & a few other elements
- Easy in-situ implementation at any scale
- Economically advantageous when compared to conventional physico-chemical soil treatments
- Environmental friendly & sustainable process.

### Applications

- Soils decontamination - nearby mining & storage sites - site reclaiming - metals recovery.

### Intellectual property

Patent

### Development level

Technology validated in lab



### Technology transfer

- Licensing - co-development

