



Łukasiewicz Wood Technology Institute

CALL: HORIZON 2020, European Green Deal, Area 7: Restoring biodiversity and ecosystem services

KEYWORDS

Forestry, climate change, carbon sequestration, phytoremediation, heavy metals, sustainable development, low-carbon bioeconomy

PROJECT TITLE

Climate-friendly restoration of lands polluted with heavy metals

PROJECT ACRONYM CROMPSA

CUSTOMER

- owners and stewards of lands polluted with heavy metals (e.g. metal mining companies and metallurgical companies),
- entrepreneurs who buy, sell and process wood,
- indirectly, the authorities and residents of cities/communes

PROJECT IDEA

Development of a model manner of management of degraded lands polluted with heavy metals, which will contribute to social-economic transformation and development of low-emission economy. The proposed solution is to take into account the benefits of combining production, recreational and environmental functions on such lands. A key feature of the new revitalising technology are fast-growing trees with low requirements as to habitat, which will be a source of raw material and will fulfil the environmental function (soil purification, CO₂ sequestration). The removed wood is to be used for economic purposes in a safe manner, i.e. minding the level of pollution. Eventually, the developed technology is to contribute to restoration of biodiversity of degraded ecosystems with indigenous species. The suggested technical solutions will be in line with a broader context of social-economic growth in the conditions of systems transformation and public policy (especially climatic policy).

MARKET

The degraded lands, where waste originating from mining and metallurgic industries is stored, often lie waste and irretrievably lose their usefulness. In other cases, management of such lands is homogeneous and is neither a compromise between social benefits (recreational function) and industrial benefits (production function) nor contributes to restoration of biodiversity and climate change mitigation (carbon sequestration). The owners of polluted lands look for solutions which will facilitate comprehensive management of such lands and their further use for production purposes, and, at the same time, be based on sustainable development principles. The issue concerns many European countries as well as countries aspiring to EU.

LOOKING FOR

- Project Leader
- Partners

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