

LIFE M3P

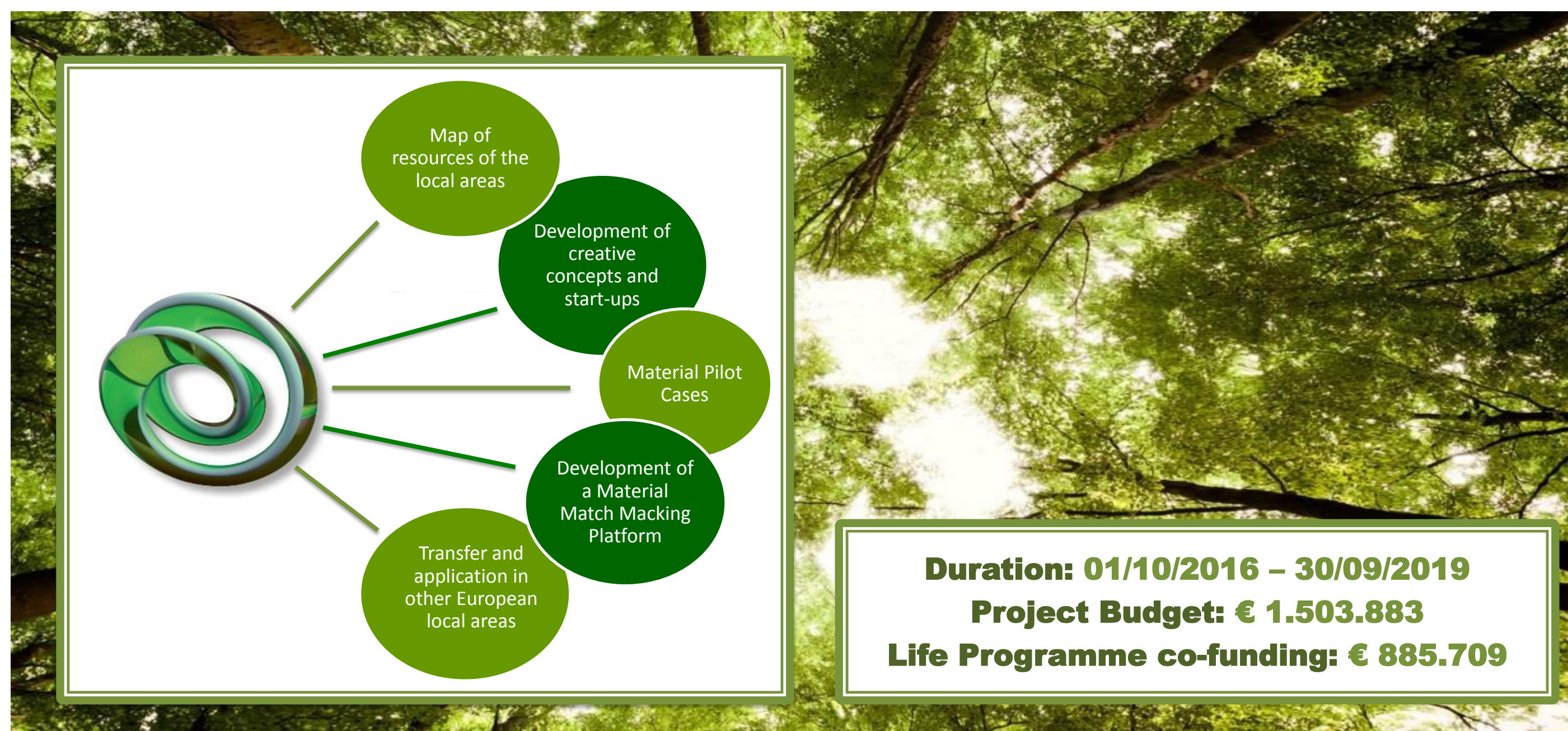
AN ON-LINE PLATFORM FOR THE MATERIAL MATCH MAKING: A MODEL TO APPROACH THE INDUSTRIAL SYMBIOSIS

LIFE M3P PROJECT

The Life M3P project - Material Match Making Platform for promoting the use of industrial waste in local networks is focused on Circular Economy and Industrial Symbiosis and it aims to develop an industrial waste valorization system, based on the characterization and classification of their properties, using an on-line platform dedicated to combining materials and waste.

The study of a model of local collaboration on materials will allow companies to act consciously as "sustainable geographical area" and it will provide to small and medium companies useful operational tools for the materials efficiency.

The Life M3P project will also promote the research for new applications of waste, based on creative features, looking for innovative solutions or replacements of the used materials.



LIFE M3P PLATFORM CHARACTERISTICS

Life M3P is one of pilot cases based on Open 2.0, a free environment developed by Lombardy Region under Open Source GPL3 License

It is based on a plugin model architecture: personalized, flexible, updatable

- Application plug-in store;
- Native plug-in with Science, Research and Technologies database (European Enterprise Network – EEN, Questio, etc.);**
- Flexible to access new databases (i.e. waste database)
- Social plugins to manage community and relations between users
- Project management tools
- Translation tools in different languages

Matching through different search models:

- Search by free or fixed Tag definition;
- Search by full text (fuzzy logic);
- Artificial Intelligence search with semantic rules**

TIMETABLE

End 2017	Middle 2018	End 2018	Spring 2019
Alfa version	Beta public version	Final public release	Revision and update

OBJECTIVES

The project aims to demonstrate the usefulness (benefit and added value) of a digital on-line platform for the cataloguing, use and exploitation of materials and industrial waste produced in a local area, in order to foster the overall efficiency of industrial processes through the increased use of waste within the area itself and less reliance on disposal, obtaining:

- reduction of used raw materials (replaced by waste);
- reduction of waste itself (shifted to by-products);
- reduction of disposal of waste (alternative treatments);
- reduction of water resources;
- reduction of CO₂ emissions.

EXPECTED RESULTS

- **1 on-line platform (Life M3P)** with materials, waste, and technologies databases;
- **250 SMEs** involved (Lombardy, Flanders, Asturias, West Macedonia);
- **500 waste** identified;
- **100 waste** investigated;
- **24 waste** deeply characterized;
- **10 pilot cases** launched;
- **40 companies** implementing the proposed solution;
- **4 business cases** implemented;
- **40 young designers** involved during the product concept development phase;
- **72 new product concepts**;
- **16 prototypes**;
- **4 start-up studies**.

Reduction at the cluster level of:

- **waste production: 60.350 tons, approximately -10%;**
- **non renewable sources: 84.200 tons;**
- **water consumption : 99.650 m³;**
- **emissions of CO₂: 54.750 tons.**

Sectors involved:

- **Textiles, Wood, Plastics, Glass, Buildings, Civil works, Wood, Furs.**

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www.lifem3p.eu